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Soybean Variety Trial Archive

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EC 775
Revised
Annually

Soybeans

2003 Crop Performance Results



South Dakota State University † Cooperative Extension Service † U.S. Department of Agriculture

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Tables for the 2003 Soybean Performance Trials

A	Traits of some public soybean varieties	6
B	Genes for race resistance to <i>Phytophthora</i> root rot.	6
C	Conventional soybean entries	7
D	Roundup-Ready™ soybean entries.	13
E	Mailing addresses of seed companies	49

Conventional trial results

1	South Shore, combined maturity groups 0 & I, NE Research Farm, seeded May 27	8
2	Brookings, combined maturity groups 0 & I, SDSU Agronomy Farm, seeded May 27	9
3	Brookings, maturity group II, SDSU Agronomy Farm, seeded May 27	10
4	Beresford, maturity group I, SE Research Farm, seeded May 21	11
5	Beresford, maturity group II, SE Research Farm, seeded May 21	12

Roundup Ready™ trial results

6	Warner, maturity group 0, Allen and Inel Ryckman Farm, seeded May 23	20
7	Warner, maturity group I, Allen and Inel Ryckman Farm, seeded May 23	22
8	South Shore, maturity group 0, NE Research Farm, seeded May 27	24
9	South Shore, maturity group I, NE Research Farm, seeded May 27	26
10	Yale, maturity group 0, Kim Tschetter Farm, seeded May 22	28
11	Yale, maturity group I, Kim Tschetter Farm, seeded May 22	30
12	Yale, maturity group II, Kim Tschetter Farm, seeded May 22.	32
13	Brookings, maturity group 0, SDSU Agronomy Farm, seeded May 20.	33
14	Brookings, maturity group I, SDSU Agronomy Farm, seeded May 20	35
15	Brookings, maturity group II, SDSU Agronomy Farm, seeded May 20	38
16	Beresford, maturity group I, SE Research Farm, seeded May 21	40
17	Beresford, maturity group II, SE Research Farm, seeded May 21	41
18	Armour, maturity group I, Mark and Cletus Wiechmann Farm, seeded May 29	45
19	Armour, maturity group II, Mark and Cletus Wiechmann Farm, seeded May 29.	46

EC 775—Precision Planted Soybeans 2003 Crop Performance Results

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Soybeans

2003 South Dakota Precision Planted Soybean Variety Performance Trials

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Table A – Traits of some public soybean varieties.

Table B – Gene race resistance to *Phytophthora* root rot.

Table C – Conventional soybean entries with yield table numbers.

Table D – Roundup Ready™ entries with yield table numbers.

Table E – Seed Company (brand name) mailing addresses (after yield tables).

Successful soybean production in a given growing area is greatly affected by variety selection. This publication reports the agronomic performance of entries in the 2003 South Dakota performance trials for conventional (non-Roundup Ready™) and Roundup Ready™ soybean varieties.

Important factors in variety selection include yield, maturity, plant height, lodging resistance, and *Phytophthora* root rot resistance. In the case of public varieties, additional information including emergence, shattering, and iron chlorosis scores (Table A) are given.

General

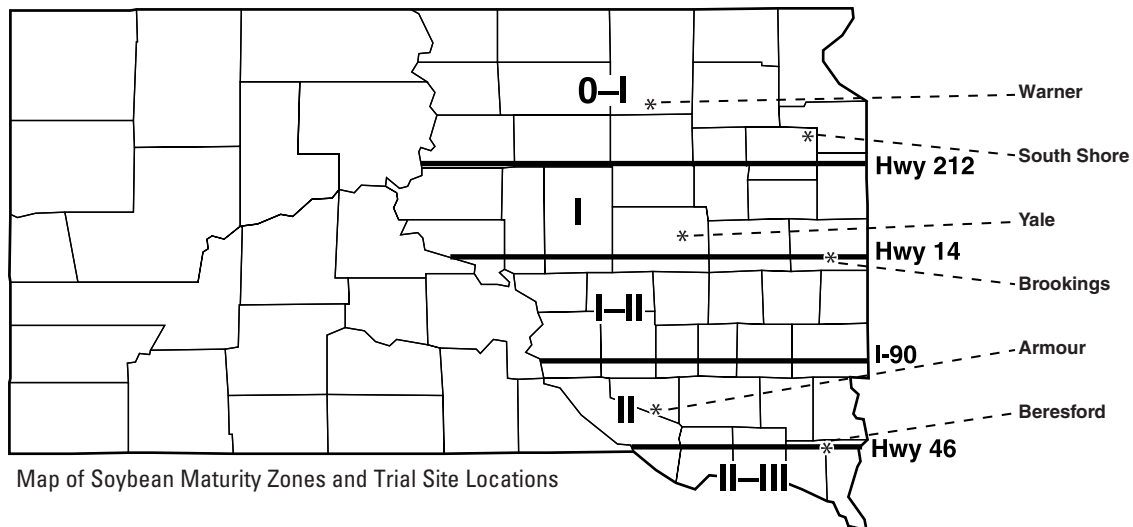
Soybean varieties are classified according to maturity groups that, in turn, are adapted to maturity zones. Maturity zones are based on day length and are therefore greatly affected by latitude. Consequently, maturity group 00 varieties are best suited to Canada and bordering regions of the U.S., while maturity groups 0, I, and II varieties are suited to South Dakota. Groups III through VIII are suited to Iowa, Nebraska, and southward into Texas.

These soybean performance trial results are reported according to the prevalent maturity zones in South Dakota (see map). Conventional soybean variety trials were conducted at the following locations: Group 0 at South Shore and Brookings; group I at South Shore, Brookings, and Beresford; and group II at Brookings and Beresford.

Roundup Ready™ soybean variety trials were conducted at the following locations: Group 0 at Warner, South Shore, Yale, and Brookings; group I at Warner, South Shore, Yale, Brookings, Armour, and Beresford; and group II at Yale, Brookings, Armour, and Beresford.

Note there are transition areas where varieties of two maturity groups may perform similarly. In such cases other mitigating factors like rainfall and elevation may moderate the effect of

The efforts of G. Piechowski, Brookings; J. Smolik and A. Heuer, NE Research Farm; and R. Berg and staff, SE Research Farm, in obtaining the data are gratefully acknowledged. The comments regarding *Phytophthora* root rot race resistance and tolerance by Marty Draper, Extension plant pathologist, are appreciated. In addition, the assistance and cooperation of our farmer co-operators: Allen and Inel Ryckman, Warner; Mark and Cletus Wiechmann, Armour; and Kim Tschetter, Yale; are gratefully acknowledged.



latitude on maturity. In most cases, an earlier maturity group may be seeded in a zone suited to a later maturity group. Generally, this is only practical if seeding is delayed, when reseeded following hail, or if double cropping.

Phytophthora root rot (PRR) is an important soybean disease in South Dakota and is often controlled or managed with the use of resistant varieties. However, resistance to *Phytophthora* root rot is fungus-race specific. This means resistance to one race does not necessarily impart resistance to other races. Knowledge of the races of PRR fungus prevalent in your area is helpful. If a field is suspected of having PRR and the specific race(s) involved is unknown, then it is strongly suggested that you select varieties having genes that impart a wide range of race resistance (Table B). The specific race resistance to PRR for a given variety, as reported by the entering seed company, is indicated in Tables C and D.

An alternative method of control is the use of “tolerant varieties.” Tolerant varieties are not resistant to PRR in the seedling stage. Therefore, a *Phytophthora* specific fungicide must be applied to protect them. Presently, we have no information on the field tolerance of varieties adapted to this region. Therefore, field tolerance ratings are not given in this publication.

Certified seed is the best source of seed and the only way to be assured of the genetic purity of the variety seeded.

In addition, inoculation of seed with the appropriate nitrogen-fixing bacterium is a good fundamental practice. Inoculation must be practiced if soybeans are seeded in soils not previously cropped with soybeans. Even on soils previously cropped to soybeans there is no guarantee that beneficial bacteria will be present to naturally inoculate planted seed. Therefore, inoculation of seed at planting is an inexpensive means of increasing the percentage of plants that will fix nitrogen in the current crop year.

Yield

Yields are obtained from the South Dakota Crop Performance Testing Program (CPT). Current-year yields are included for each entry tested at a given location. In addition, both 2-year and 3-year averages are included where varieties have been tested for 2 or more years. Yields, test averages, and Least Significant Difference (LSD) values are printed at the bottom of each yield column for each location and are rounded off to the nearest bushel.

The LSD value can be used to determine whether varieties differ in yield potential. For example, assume variety A yields 30 bushels, variety B yields 25 bushels, and the calculated LSD value is 4 bushels. The yield difference between varieties A and B is 5 bushels per acre. Since the yield difference of 5 bushels is greater than the test LSD value of 4 bushels, the

yield of variety A (30 bushels) is significantly higher than the yield of variety B (25 bushels).

If variety A yielded 28 bushels and variety B yielded 25 bushels, the yield difference would be 3 bushels per acre. In this case, both varieties would have a similar yield because their yield difference of 3 bushels is less than the test LSD value of 4 bushels per acre.

Use LSD values to identify the best-yielding varieties. The LSD value indicated at the bottom of each yield column is used to calculate the **minimum top-yield value**. For example, if the highest yield within a column is 50 bushels and the LSD value for that yield column is 5 bushels, then the minimum top-yield value equals 45 bushels ($50 - 5 = 45$). Within a yield column, varieties with yields equal to or higher than this minimum top-yield value are the best-yielding varieties.

Entries at each location are numerically sorted from highest to lowest yields according to whether they have been tested for 3, 2, or 1 years.

Note: Entries tested for 3 years may also have a top-yield group value in the 2-yr (2002-03) and 2003 yield columns. Likewise, entries tested for 2 years may also have a top-yield group value in the 2003 yield column.

Note: Participating companies pick the locations where their entries are tested. Entries are placed into either maturity group 0, I, or II test trials. The company selects the appropriate maturity group trial (0, I, or II) for its entries at each location. Generally, each company has one or more varieties that are used as maturity group checks for the varieties they market. However, there are no standard regional or national check varieties for maturity.

Consequently, a late group I variety from one company may be similar in maturity to an early group I variety from another company because each company uses different check varieties for maturity. As a result, **this testing program cannot guarantee that all entries are placed in the proper maturity trial.**

In some trials, borderline entries with maturity group ratings at or near the arbitrary breaks between late group 0 and early group I and between the late group I and early group II test trials may crossover at a given location. **When evaluating the performance of any entry in a given trial it is strongly suggested that you take note of the reported maturity of the entry.** Since all entries at a given location are seeded on the same day, you can compare the relative difference in maturity (days after maturity) between varieties. If the maturity rating for an entry in a group I test is similar to the rating for a variety in the group II test at the same test location, then you might conclude they are similar in maturity regardless of their company maturity rating.

Use caution when comparing the maturity rating of a given variety from one location to a rating obtained at other locations. Should early-season soil moisture and soil temperature values differ greatly, then ratings may differ between locations; therefore, maturity comparisons of a variety over many locations may be misleading.

Protein and Oil Content

The protein and oil values are for the 2002 cropping season. At all locations, one replication of every variety in each trial was tested for protein and oil. The analysis was conducted by near-infrared-reflectance-spectroscopy (NIRS).

General Test Procedures

General test procedures outlined below apply to both conventional non-Roundup Ready™ and Roundup Ready™ soybean entries with one exception: Weed control in the Roundup Ready™ test consisted of an application of Roundup Ultra (32 oz/A) when weeds were 4-5 inches tall followed by the same application again 21 days later. In non-Roundup Ready™ test trials, pre-emergence herbicides consisted of Lasso II at South Shore and Brookings and Dual at Beresford. In addition, a post-emergence tank mix of Synchrony/Pinnacle was applied at Beresford. Chemicals were applied according to label instructions.

Test procedures: A row spacing of 30 inches was used at all locations. Seeding rate was 165,000 seeds per acre for all varieties and locations. Test plots consisted of 4-row plots, 20 feet long, with three replications at all locations. Soybean inoculation was accomplished by applying Nitragin brand Soybean Soil Implant down the seed tube, according to label instructions and rates, during seeding. Seeding at all locations was accomplished using a Monosem precision row crop planter. The use of this planter this year resulted in very uniform seed spacing within the seed row. The center two rows of each plot were harvested for yield.

Yield: Plots were harvested at 15% seed moisture or less. Yields were calculated on a 13% moisture content basis and expressed in bushels per acre. Harvest was by a Massey Ferguson 8XP small plot combine.

Reporting Variety Maturity

The maturities of varieties are reported as “days after seeding.” Entries are considered mature when 95% of the pods have turned brown. Each maturity value was obtained by

determining the average number of days from seeding to maturity for two replicates and expressing it as “days after seeding.” If the maturity value is missing, the entry did not reach maturity before the first killing frost at that location.

Height: Height was measured from the soil surface to the top node of the main stem.

Lodging score: Scores at maturity are based on average erectness of the main stem of plants within each variety: 1 = all plants erect, 2 = slight lodging, 3 = lodging at a 45 degree angle, 4 = severe lodging, and 5 = all plants flat.

Phytophthora: The gene resistance traits of entries to the many *Phytophthora* races were supplied by the participating seed companies (proprietary entries) or obtained from the USDA Uniform Soybean Tests, Northern States (public entries). A key to *Phytophthora* gene resistance and the race resistance of each gene is indicated in Table B.

Race resistances of entries are listed either in Table C (non-Roundup Ready™) or Table D (Roundup Ready™). Presently, races 1, 3, and 4 are most common in South Dakota.

Soybean Traits of Public Entries

Evaluations of public soybean variety characteristics conducted by regional universities and USDA are reported in Table A. Evaluations and locations include emergence (Ames, Iowa), shattering (Manhattan, Kan.), and iron chlorosis (Rosemount, Minn., group 0; Waseca, Minn., groups I and II). A discussion of these evaluations follows:

Emergence: Scores are related to hypocotyl elongation and are measured following emergence after 12 days from a 4 1/2-inch depth in sand maintained at 77° F (a critical temperature for differentiating strains). Scores are 1 = 95% or more emerged, 2 = 91-94% emerged, 3 = 85-90% emerged, 4 = 76-84% emerged, and 5 = less than 76% emerged.

A score of 4 or 5 indicates the variety exhibits slow emergence. It does not mean the variety is inferior.

Shattering: This number indicates the percentage of pods that had opened and shattered 2 weeks after maturity. Scores are 1 = no shattering, 2 = 1-10% shattered, 3 = 11-25% shattered, 4 = 26-50% shattered, and 5 = over 50% shattered.

Iron chlorosis: Varieties are evaluated on high pH soils; scores range from 1 = little or no yellowing, 3 = moderate yellowing, to 5 = severe yellowing.

PRECISION PLANTED SOYBEANS: PERFORMANCE TRIAL RESULTS

Conventional non-Roundup Ready™ Soybeans

Note: Yields are reported as 3-year (2001-03), 2-year (2002-03), or 1-year (2003) averages.

SOUTH SHORE (NE Research Farm)

Combined Groups 0 & I (Table 1): Group 0 and I tests were combined because there were few entries this year. Yield averages for the **3-year, 2-year, and 1-year data were 34, 35, and 25 bushels per acre**, respectively. Varieties had to average at least 24 bushels to be in the top-yield group for 1 year. There were no significant differences among varieties tested for 3-year or 2-year periods. The top yield group for the 3-year, 2-year, and 1-year periods included 2, 4, and 7 entries, respectively.

BROOKINGS (SDSU Agronomy Farm)

Combined Groups 0 & I (Table 2): Group 0 and I tests were combined because there were few entries this year. Yield averages for the **3-year, 2-year, and 1-year data were 42, 45, and 36 bushels per acre**, respectively. Varieties had to average at least 36 bushels to be in the top-yield group for 1 year. There were no significant differences among the varieties tested for the 3-year or 2-year periods. The top yield group for the 3-year, 2-year, and 1-year periods included 2, 4, and 9 entries, respectively.

Group II (Table 3): Yield averages for the **3-year, 2-year, and 1-year data were 43, 46, and 34 bushels per acre**, respectively. Varieties had to average at least 42 bushels for the 3-year or 35 bushels per acre for the 1-year period to be in the top-yield group. There were no significant differences among the varieties tested for the 2-year period. The top-yield groups for the 3-year, 2-year, and 1-year periods included 3, 9, and 5 entries, respectively.

BERESFORD (SE Research Farm)

Group I (Table 4): Yield averages for the **3-year, 2-year, and 1-year data were 47, 45, and 49 bushels per acre**, respectively. There were no significant differences among the varieties tested for any of the 3-year, 2-year, or 1-year test periods. The top-yield groups for the 3-year, 2-year, and 1-year periods included 3, 3, and 6 entries, respectively.

Group II (Table 5): Yield averages for the **3-year, 2-year, and 1-year data were 49, 46, and 46 bushels per acre**, respectively. Varieties had to average at least 48 bushels for the 3-year period to be in the top-yield group. There were no significant differences among the varieties tested for the 2-year and 1-year test periods. The top-yield groups for the 3-year, 2-year, and 1-year periods included 5, 12, and 23 entries, respectively.

Roundup Ready™ Soybeans

Note: Yields are reported as 3-year (2001-03), 2-year (2002-03), or 1-year (2003) averages.

WARNER, NO-TILL (Allen and Inel Ryckman Farm)

Group 0 (Table 6): The yield average for this new test location **in 2003 was 47 bushels per acre**. Varieties had to average at least 48 bushels to be in the top-yield group. The top-yield group for 2003 included 29 entries.

Group I (Table 7): Yield average for this new test location **in 2003 was 38 bushels per acre**. Varieties had to average at least 39 bushels to be in the top-yield group. The top yield group for 2003 included 26 entries.

SOUTH SHORE (NE Research Farm)

Group 0 (Table 8): Yield averages for the **3-year, 2-year, and 1-year data were 37, 35, and 21 bushels per acre**, respectively. Varieties had to average at least 20 bushels to be in the top-yield group for one year. There were no significant differences among the varieties tested for 3-year or 2-year periods. The top-yield group for the 3-year, 2-year, and 1-year periods included 10, 23, and 41 entries, respectively.

Group I (Table 9): Yield averages for the **3-year, 2-year, and 1-year data were 32, 32, and 19 bushels per acre**, respectively. There were no significant differences among the varieties tested for the 3-year, 2-year, and 1-year periods. The top-yield groups for the 3-year, 2-year, and 1-year periods included 8, 17, and 63 entries, respectively.

YALE, NO-TILL (Kim Tschetter Farm)

Trials were moved from Frankfort in 2003.

Group 0 (Table 10): Yield averages for the **3-year, 2-year, and 1-year data were 34, 32, and 25 bushels per acre**, respectively. Varieties had to average at least 29 bushels for the 1-year period to be in the top-yield group. There were no significant differences among the varieties tested for the 3-year and 2-year periods. The top-yield group for the 3-year, 2-year, and 1-year periods included 9, 15, and 8 entries, respectively.

Group I (Table 11): Yield averages for the **3-year, 2-year, and 1-year data were 38, 31, and 22 bushels per acre**, respectively. Varieties had to average at least 25 bushels for the 1-year period to be in the top-yield group. There were no significant differences among the varieties tested for the 3-year and 2-year periods. The top-yield group for the 3-year, 2-year, and 1-year periods included 6, 27, and 19 entries, respectively.

Group II (Table 12): The yield average for this new maturity test in 2003 was **23 bushels per acre**. Varieties had to average at least 28 bushels to be in the top-yield group. The top yield group for 2003 included 3 entries.

BROOKINGS (SDSU Agronomy Farm)

Group 0 (Table 13): Yield averages for the **3-year, 2-year, and 1-year data were 42, 43, and 41 bushels per acre**, respectively. Varieties had to average at least 41 bushels for the 1-year period to be in the top-yield group. There were no significant differences among the varieties tested for the 3-year and 2-year periods. The top-yield groups for the 3-year, 2-year, and 1-year periods included 7, 15, and 25 entries, respectively.

Group I (Table 14): Yield averages for the **3-year, 2-year, and 1-year data were 45, 46, and 43 bushels per acre**, respectively. Varieties had to average at least 48 bushels for the 3-year and 2-year or 44 bushels per acre for the 1-year period to be in the top-yield group. The top-yield groups for the 3-year, 2-year, and 1-year periods included 4, 15, and 35 entries, respectively.

Group II (Table 15): Yield averages for the **3-year, 2-year, and 1-year data were 49, 52, and 44 bushels per acre**, respectively. Varieties had to average at least 48 bushels for the 3-year, 52 bushels for the 2-year, or 44 bushels per acre for the 1-year period to be in the top-yield group. The top-yield groups for the 3-year, 2-year, and 1-year periods included 6, 20, and 34 entries, respectively.

BERESFORD (SE Research Farm)

Group I (Table 16): Yield averages for the **3-year, 2-year, and 1-year data were 54, 52, and 49 bushels per acre**, respectively.

Varieties had to average at least 51 bushels for both the 2-year and 1-year periods to be in the top-yield group. There were no significant differences among the varieties tested for the 3-year period. The top-yield groups for the 3-year, 2-year, and 1-year periods included 5, 11, and 11 entries, respectively.

Group II (Table 17): Yield averages for the **3-year, 2-year, and 1-year data were 50, 47, and 45 bushels per acre**, respectively. Varieties had to average at least 49 bushels for the 3-year, 47 bushels for the 2-year, and 51 bushels per acre for the 1-year period to be in the top-yield group. The top-yield groups for the 3-year, 2-year, and 1-year periods included 14, 26, and 14 entries, respectively.

ARMOUR, NO-TILL (Mark and Cletus Wiechmann Farm)

Group I (Table 18): Yield averages for the **3-year, 2-year, and 1-year data were 38, 32, and 20 bushels per acre**, respectively. Varieties had to average at least 24 bushels for the 1-year period to be in the top-yield group. There were no significant differences among the varieties tested for the 3-year and 2-year periods. The top-yield groups for the 3-year, 2-year, and 1-year periods included 2, 9, and 4 entries, respectively.

Group II (Table 19): Yield averages for the **3-year, 2-year, and 1-year data were 37, 34, and 26 bushels per acre**, respectively. Varieties had to average at least 35 bushels for the 3-year and 30 bushels per acre for the 1-year period to be in the top-yield group. There were no significant differences among the varieties tested for the 2-year period. The top-yield groups for the 3-year, 2-year, and 1-year periods included 10, 33, and 23 entries, respectively.

Table A. Traits of some public soybean varieties.

Variety	Emergence	Shattering	Iron Chlorosis
Hendricks	1	1	1.7
MN0901	3	2	3.7
Spink	1	1	2.4
Stride	1	1	3.7
Surge	1	1	2.7
Turner SCN	1	2	3.0
SDG 1081RR*	1	1	2.5
SDG 1091RR*	1	1	2.7

* Indicates Roundup Ready variety.

Emergence: 1=> 95%, 2= 91-94%, 3= 85-90%, 4= 76-84%, and 5=< 75%.

Shattering: 1= none, 2= 1-10%, 3= 11-25%, 4= 26-50%, and 5> 50%.

Iron Chlorosis: 1= little or no yellowing, 3= moderate yellowing, and 5= severe yellowing.

See additional comments in evaluation methods.

Table B. Genes for race resistance to *Phytophthora* root rot.

Source	Gene	Race resistance
Williams	rps1	None
Mukden	Rps1 (Rps1a)	1-2, 10-11, 13, 15-18, 24
Sanga	Rps1b	1, 3-9, 13-15, 18, 21-22
Mack	Rps1c	1-3, 6-11, 13, 15, 17, 21, 23-24
Kingwa	Rps1k	1-11, 13-15, 17-18, 21-22, 24
CNS2	Rps2	1-5, 9-20
PI171442	Rps3	1-5, 8-9, 11, 13-14, 16, 18, 23, 25
PI86050	Rps4	1-4, 10, 12-16, 18-21, 25
PI91160	Rps5	1-5, 8-9, 11-14, 18, 20, 25
Altona	Rps6	1-4, 10, 12, 14-16, 18-21, 25
Harosoy	RpsH	12, 16
Archer	Rps1k, Rps6	1-22, 24-25
Keller	Rps1c, Rps3	1-10, 13-18, 22-25
Winchester	Rps1b, Rps3	1-9, 13-16, 18, 21-23, 25
	Unknown	Unknown
	Not reported	Not reported by seed source

Table C. 2003 Conventional soybean entries by brand/variety, yield table number(s), and *Phytophthora* root rot race resistance.

No.	Brand / Variety	Table Number (s)	Mat. Grp.	Phytophthora Race resistance
1	COYOTE/9123	3, 5	II	1-2, 10-11, 13, 15-18, 24
2	COYOTE/9525	5	II	Unknown
3	COYOTE/9723	3, 5	II	1-2, 10-11, 13, 15-18, 24
4	SANDS/SOI 234	3, 5	II	1-2, 10-11, 13, 15-18, 24
5	SANDS/SOI 288	5	II	No Resistance
6	SANDS/SOI 187	1, 2	I	1-2, 10-11, 13, 15-18, 24
7	SANDS/SOI 247N	5	II	No Resistance
8	SANDS/SOI 256	5	II	No Resistance
9	SANDS/EXP281	5	II	1-11, 13-15, 17-18, 21-22, 24
10	SANDS/SOI 284N	5	II	1-2, 10-11, 13, 15-18, 24
11	LATHAM/392	4	I	No Resistance
12	LATHAM/830	5	II	No Resistance
13	LATHAM/570	3	II	No Resistance
14	LATHAM/690	5	II	No Resistance
15	LATHAM/280	4	I	No Resistance
16	LATHAM/EXP-E1840T	2, 4	I	No Resistance
17	LATHAM/EXP-E2478T	5	II	No Resistance
18	GOLD COUNTRY/BISCAY	1	I	Not Reported
19	GOLD COUNTRY/2318	1, 2	I	Not Reported
20	PRAIRIE BR./PB202	3, 5	II	Not Reported
21	PRAIRIE BR./PB217	3	II	Not Reported
22	PRAIRIE BR./PB230	3, 5	II	1-2, 10-11, 13, 15-18, 24
23	PRAIRIE BR./PB256	5	II	1-2, 10-11, 13, 15-18, 24
24	PRAIRIE BR./PB278	5	II	Not Reported
25	PRAIRIE BR./PB178	1, 2	I	Not Reported
26	PRAIRIE BR./PB183	1, 2	I	Not Reported
27	GARST/1549	2	I	No Resistance
28	GARST/2918	5	II	No Resistance
29	JACOBSEN/J750	3	II	Not Reported
30	JACOBSEN/J772	5	II	Not Reported
31	JACOBSEN/J814	5	II	Not Reported
32	JACOBSEN/J826	5	II	Not Reported
33	THOMPSON/T-3222	3	II	Not Reported
34	THOMPSON/T-3182	2, 4	I	1-2, 10-11, 13, 15-18, 24
35	THOMPSON/T-3221	3	II	1-11, 13-15, 17-18, 21-22, 24
36	THOMPSON/T-3251	3	II	Not Reported
37	THOMPSON/T-3288	5	II	Not Reported
38	THOMPSON/T-3189	2, 4	I	Not Reported
39	THOMPSON/T-3263	5	II	Not Reported
40	PUBLIC/HENDRICKS	1, 2	I	1-2, 10-11, 13, 15-18, 24
41	PUBLIC/MN 0901	1, 2	I	1-2, 10-11, 13, 15-18, 24
42	PUBLIC/SPINK	1, 2	I	1-2, 10-11, 13, 15-18, 24
43	PUBLIC/STRIDE	1, 2, 4	I	1-2, 10-11, 13, 15-18, 24
44	PUBLIC/SURGE	1, 2	I	1-2, 10-11, 13, 15-18, 24
45	PUBLIC/TURNER-SCN	3, 5	II	1-3, 6-11, 13, 15, 17, 21, 23-24

Table 1. South Shore, combined maturity group 0 & I soybean test results, 2001-2003. NE Research Farm, seeded May 27.

Brand / Entry	Yield - bu/a (13% moisture)			2002	2002	----- 2003 -----		Maturity: Days after seeding
	3yr	2yr	2003	Prot. pct+	Oil pct+	Ht. in.	Ldg. Sc.~	
	Entries tested three years							
GOLD COUNTRY/BISCAY	37	36	26	35.6	18.7	28	1	119
PUBLIC/STRIDE	32	31	26	34.2	19.6	27	1	113
	Entries tested two years							
PRAIRIE BR./PB178	.	38	27	36.4	18.1	24	1	120
SANDS/SOI 187	.	37	24	33.8	19.1	30	1	120
	Entries tested one year							
PRAIRIE BR./PB183	.	.	28	.	.	26	1	117
GOLD COUNTRY/2318	.	.	27	.	.	23	1	120
PUBLIC/SURGE	.	.	24	.	.	25	1	113
PUBLIC/SPINK	.	.	23	.	.	29	1	109
PUBLIC/HENDRICKS	.	.	23	.	.	24	1	113
PUBLIC/MN 0901	.	.	21	.	.	29	1	107
Test average:	34	35	25	35.0	18.9	26	1	114
LSD(5%) value (\$):	NS	NS	4					
Min.top yield value (\$):	32	31	24					
Coef. of variation (#):	10	9	9					

\$/+ See yield / protein & oil sections, respectively.

~ Lodging: 1= all plants erect, 3= some at 45 degrees, 5= all plants flat.

NS - Indicates differences between values within a column are not significant.

Measure of experimental error: values of < 15% are desired.

Table 2. Brookings, combined maturity group 0 & I soybean test results, 2001-2003. SDSU Agronomy Farm, seeded May 27.

Brand / Entry	Yield - bu/a (13% moisture)			2002	2002	Ht. in.	Ldg. Sc.~	----- 2003 -----
	3yr	2yr	2003	Prot. pct+	Oil pct+			Maturity: Days after seeding
	----- 2003 -----							
	Maturity:							
	Days							
	after							
	seeding							

	Entries tested three years							
THOMPSON/T-3182	46	49	37	35.5	18.5	32	1	118
PUBLIC/STRIDE	38	39	33	37.7	17.7	29	1	115

	Entries tested two years							
PRAIRIE BR./PB178	.	47	36	36.8	18.5	30	1	121
SANDS/SOI 187	.	46	36	35.8	18.7	35	1	120

	Entries tested one year							
PRAIRIE BR./PB183	.	.	41	.	.	32	1	119
LATHAM/EXP-E1840T	.	.	40	.	.	31	1	121
GARST/1549	.	.	38	.	.	34	1	119
PUBLIC/SPINK	.	.	37	.	.	31	1	110
THOMPSON/T-3189	.	.	37	.	.	33	1	122

GOLD COUNTRY/2318	.	.	36	.	.	30	1	119
PUBLIC/MN 0901	.	.	35	.	.	32	1	116
PUBLIC/HENDRICKS	.	.	35	.	.	29	1	117
PUBLIC/SURGE	.	.	33	.	.	31	1	116

Test average:	42	45	36	36.5	18.4	31	1	117
LSD(5%) value (\$):	NS	NS	5					
Min.top yield value (\$):	38	39	36					
Coef. of variation (#):	15	9	8					

\$/+ See yield / protein & oil sections, respectively.

~ Lodging: 1= all plants erect, 3= some at 45 degrees, 5= all plants flat.

NS - Indicates differences between values within a column are not significant.

Measure of experimental error: values of < 15% are desired.

Table 3. Brookings, maturity group II soybean test results, 2001-2003. SDSU Agronomy Farm, seeded May 27.

Brand / Entry*	Yield - bu/a (13% moisture)			2002	2002	Ht. in.	Ldg. Sc.~	----- 2003 -----
	3yr	2yr	2003	Prot. pct+	Oil pct+			Maturity: Days after seeding
	----- 2003 -----							
	Entries tested three years							
PRAIRIE BR./PB202	45	49	36	36.3	17.7	34	1	128
PRAIRIE BR./PB230	43	46	35	36.2	17.8	30	1	128
PRAIRIE BR./PB217	43	46	33	36.4	17.9	32	1	130
PUBLIC/TURNER-SCN	40	43	33	36.3	18.1	36	1	126
	Entries tested two years							
LATHAM/570	.	46	36	36.7	17.6	28	1	129
COYOTE/9723	.	46	34	35.8	18.2	30	1	127
THOMPSON/T-3221	.	46	32	34.3	18.1	36	1	123
COYOTE/9123	.	46	33	35.0	18.9	35	1	125
THOMPSON/T-3251	.	44	30	35.9	18.2	30	1	130
	Entries tested one year							
JACOBSEN/J750	.	.	38	.	.	31	1	129
THOMPSON/T-3222	.	.	37	.	.	33	1	128
SANDS/SOI 234	.	.	34	.	.	31	1	127
Test average:	43	46	34	35.9	18.1	32	1	127
LSD(5%) value (\$):	3	NS	3					
Min.top yield value (\$):	42	43	35					
Coef. of variation (#):	7	6	6					

* SCN = Soybean cyst nematode resistant.

\$/+ See yield / protein & oil sections, respectively.

~ Lodging: 1= all plants erect, 3= some at 45 degrees, 5= all plants flat.

NS - Indicates differences between values within a column are not significant.

Measure of experimental error: values of < 15% are desired.

Table 4. Beresford, maturity group I soybean test results, 2001-2003. SE Research Farm, seeded May 21.

Brand / Entry	Yield - bu/a (13% moisture)			2002 Prot.	2002 Oil	Ht.	Ldg.	Maturity: Days after seeding
	3yr	2yr	2003	pct+	pct+	in.	Sc.~	
	----- 2003 -----							
	Entries tested three years							
LATHAM/392	49	47	48	36.4	17.7	33	1	128
THOMPSON/T-3182	49	46	49	33.3	19.8	35	1	120
PUBLIC/STRIDE	43	41	48	33.9	19.5	31	1	114
	Entries tested one year							
LATHAM/EXP-E1840T	.	.	54	.	.	33	1	122
LATHAM/280	.	.	51	.	.	32	1	123
THOMPSON/T-3189	.	.	50	.	.	34	1	121
Test average:	47	45	49	34.5	19.0	32	1	119
LSD(5%) value (\$):	NS	NS	NS					
Min.top yield value (\$):	43	41	44					
Coef. of variation (#):	5	7	9					

\$/+ See yield / protein & oil sections, respectively.

~ Lodging: 1= all plants erect, 3= some at 45 degrees, 5= all plants flat.

NS - Indicates differences between values within a column are not significant.

Measure of experimental error: values of < 15% are desired.

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Table 5. Beresford, maturity group II soybean test results, 2001-2003. SE Research Farm, seeded May 21.

Brand / Entry*	Yield - bu/a (13% moisture)			2002	2002	Ht. in.	Ldg. Sc.~	Maturity: Days after seeding
	3yr	2yr	2003	Prot. pct+	Oil pct+			
----- 2003 -----								
Entries tested three years								
SANDS/SOI 288	52	47	44	35.7	17.4	32	1	126
PRAIRIE BR./PB278	52	49	50	36.4	17.6	31	1	128
PRAIRIE BR./PB202	50	46	47	36.3	18.5	35	1	125
PRAIRIE BR./PB230	49	45	48	36.3	18.3	33	1	123
PRAIRIE BR./PB256	49	46	46	35.7	18.7	33	1	125
COYOTE/9525	47	44	45	33.9	19.4	45	3	126
COYOTE/9123	47	46	44	34.1	19.7	38	1	122
PUBLIC/TURNER-SCN	44	42	42	35.5	19.5	37	3	123
Entries tested two years								
THOMPSON/T-3288	.	49	49	34.0	18.0	39	2	131
SANDS/SOI 256	.	46	48	34.9	18.9	28	1	124
COYOTE/9723	.	45	46	35.7	18.9	33	1	123
SANDS/SOI 247N	.	45	47	35.7	19.3	33	1	130
Entries tested one year								
JACOBSEN/J826	.	.	51	.	.	32	1	129
JACOBSEN/J814	.	.	49	.	.	34	1	125
GARST/2918	.	.	47	.	.	33	1	130
LATHAM/690	.	.	47	.	.	30	1	125
LATHAM/EXP-E2478T	.	.	46	.	.	34	1	129
SANDS/SOI 234	.	.	46	.	.	30	1	124
THOMPSON/T-3263	.	.	46	.	.	32	1	130
JACOBSEN/J772	.	.	46	.	.	36	1	124
SANDS/EXP281	.	.	46	.	.	39	2	130
LATHAM/830	.	.	46	.	.	31	1	130
SANDS/SOI 284N	.	.	41	.	.	37	1	131
Test average:	49	46	46	35.4	18.7	34	1	126
LSD(5%) value (\$):	4	NS	NS					
Min.top yield value (\$):	48	42	41					
Coef. of variation (#):	6	7	7					

* SCN = Soybean cyst nematode resistant.

\$/+ See yield / protein & oil sections, respectively.

~ Lodging: 1= all plants erect, 3= some at 45 degrees, 5= all plants flat.

NS - Indicates differences between values within a column are not significant.

Measure of experimental error: values of < 15% are desired.

Table D. 2003 Roundup-Ready™ soybean entries by brand/variety, yield table number(s), and *Phytophthora* root rot race resistance.

No.	Brand / Variety	Table Number (s)	Mat. Grp.	Phytophthora Race resistance
1	ASGROW/AG0801	6, 8	0	1-11, 13-15, 17-18, 21-22, 24
2	ASGROW/AG2302	12, 15, 17, 19	II	1-11, 13-15, 17-18, 21-22, 24
3	ASGROW/AG1401	9	I	1-11, 13-15, 17-18, 21-22, 24
4	ASGROW/AG1701	9, 11, 14	I	1-3, 6-11, 13, 15, 17, 21, 23-24
5	ASGROW/AG2106	7, 9, 11, 14	I	1-11, 13-15, 17-18, 21-22, 24
6	ASGROW/AG2107	12, 15, 19	II	1-11, 13-15, 17-18, 21-22, 24
7	ASGROW/AG2403	12, 17, 19	II	1-11, 13-15, 17-18, 21-22, 24
8	ASGROW/AG2801	17, 19	II	1-2, 10-11, 13, 15-18, 24
9	COYOTE/9419RR	14	I	1-11, 13-15, 17-18, 21-22, 24
10	COYOTE/9626RR	17, 19	II	1-11, 13-15, 17-18, 21-22, 24
11	COYOTE/9524RR	15, 17, 19	II	1-11, 13-15, 17-18, 21-22, 24
12	COYOTE/9728RR	17	II	Unknown
13	COYOTE/EXP721RR	15, 19	II	1-11, 13-15, 17-18, 21-22, 24
14	COYOTE/EXP625RR	17, 19	II	Unknown
15	COYOTE/EXP527RR	17, 19	II	1-11, 13-15, 17-18, 21-22, 24
16	MUSTANG/M-091RR	6, 8, 10, 13	0	
17	MUSTANG/M-151RR	7, 9, 11, 14	I	1-3, 6-11, 13, 15, 17, 21, 23-24
18	MUSTANG/M-222RR	19	II	
19	MUSTANG/M-101RR	7, 9, 11, 14	I	1-3, 6-11, 13, 15, 17, 21, 23-24
20	MUSTANG/M-201RR	12, 15, 17	II	1-11, 13-15, 17-18, 21-22, 24
21	MUSTANG/M-083RR	6, 8, 10, 13	0	
22	MUSTANG/M-092RR	6, 8, 10, 13	0	
23	MUSTANG/M-153RR	7, 9, 11, 14	I	
24	MUSTANG/M-163RR	7, 9, 11, 14	I	
25	MUSTANG/M-203RR	12, 15, 17, 19	II	
26	MUSTANG/M-243RR	15, 17	II	1-11, 13-15, 17-18, 21-22, 24
27	MUSTANG/M-273RR	17, 19	II	
28	MUSTANG/M-053RR	6, 8	0	
29	MUSTANG/M-054RR	6, 8	0	1-11, 13-15, 17-18, 21-22, 24
30	MUSTANG/M-073RR	6, 8	0	
31	MUSTANG/M-094RR	6, 8, 10, 13	0	
32	MUSTANG/M-124RR	7, 9, 11, 14	I	
33	MUSTANG/M-174RR	7, 9, 11, 14	I	1-11, 13-15, 17-18, 21-22, 24
34	MUSTANG/M-194NRR	14	I	1-11, 13-15, 17-18, 21-22, 24
35	MUSTANG/M-224RR	12, 15, 17, 19	II	1-11, 13-15, 17-18, 21-22, 24
36	MUSTANG/M-234RR	12, 15, 17, 19	II	
37	MUSTANG/M-253RR	17, 19	II	
38	MUSTANG/M-284RR	17, 19	II	
39	DEKALB/DKB26-52	17	II	1-2, 10-11, 13, 15-18, 24
40	DEKALB/DKB10-51	6, 8, 10, 13	0	
41	DEKALB/DKB22-51	12, 15	II	
42	DEKALB/DKB25-51	17, 19	II	1-11, 13-15, 17-18, 21-22, 24
43	DEKALB/DKB07-52	6, 8, 13	0	
44	DEKALB/DKB19-52	7, 9, 11, 14, 16, 17	II	1-11, 13-15, 17-18, 21-22, 24
45	DEKALB/DKB28-52	17, 19	II	1-3, 6-11, 13, 15, 17, 21, 23-24
46	SANDS/SOI 1515RR	9, 14	I	
47	SANDS/SOI 226RR	17, 19	II	
48	SANDS/SOI 2143RR	15, 17, 19	II	1-11, 13-15, 17-18, 21-22, 24
49	SANDS/SOI 2541RR	17, 19	II	
50	SANDS/SOI 2642NRR	17, 19	II	1-2, 10-11, 13, 15-18, 24

Table D. 2003 Roundup Ready™ soybean entries (continued)

No.	Brand / Variety	Table Number (s)	Mat. Grp.	Phytophthora Race resistance
51	SANDS/SOI 2872RR	17, 19	II	
52	SANDS/SOI 0931RR	8, 13	0	1-2, 10-11, 13, 15-18, 24
53	SANDS/SOI 1050RR	8, 13	0	
54	SANDS/SOI 1441RR	9, 14	I	
55	SANDS/SOI 1730RR	9, 14	I	1-11, 13-15, 17-18, 21-22, 24
56	SANDS/EXP 1751RR	9, 14	I	1-11, 13-15, 17-18, 21-22, 24
57	SANDS/SOI 2141ARR	15, 17, 19	II	
58	SANDS/SOI 2353RR	17, 19	II	
59	SANDS/SOI 2501RR	17, 19	II	
60	SANDS/SOI 2749RR	17, 19	II	1-11, 13-15, 17-18, 21-22, 24
61	SANDS/EXP 2856NRR	17, 19	II	
62	SANDS/SOI 2858NRR	17, 19	II	1-3, 6-11, 13, 15, 17, 21, 23-24
63	HY-VIGOR/H-174RR	14	I	1-11, 13-15, 17-18, 21-22, 24
64	HY-VIGOR/H-223RR	17	II	1-11, 13-15, 17-18, 21-22, 24
65	HY-VIGOR/199XRR	14	I	Not Reported
66	HY-VIGOR/EXP-2R12	19	II	1-11, 13-15, 17-18, 21-22, 24
67	HY-VIGOR/2R44	17, 19	II	Not Reported
68	HY-VIGOR/2720NR	17	II	1-11, 13-15, 17-18, 21-22, 24
69	HY-VIGOR/EXP-2R55	17, 19	II	Not Reported
70	DESOY/191+RR	14, 16	I	Not Reported
71	DESOY/191RR	7, 9, 11, 14	I	Not Reported
72	DESOY/041RR	6, 8	0	Not Reported
73	DESOY/055RR	6, 8	0	Not Reported
74	DESOY/077RR	6, 8	0	Not Reported
75	DESOY/090RR	6, 8, 10, 13	0	Not Reported
76	DESOY/161RR/SCN	7, 9, 11, 14	I	Not Reported
77	DESOY/194RR	7, 9, 11, 14	I	Not Reported
78	DESOY/260RR	15, 17, 19	II	Not Reported
79	DESOY/270ARR	17, 19	II	Not Reported
80	KRUGER/099+RR	6, 8, 10, 13	0	Not Reported
81	KRUGER/250RR	15, 17, 19	II	Not Reported
82	KRUGER/222+RR	14, 16, 18	I	Not Reported
83	KRUGER/199+RR	16	I	1-11, 13-15, 17-18, 21-22, 24
84	KRUGER/269RR	15, 17, 19	II	Not Reported
85	KRUGER/091-1RR	8, 10, 13	0	Not Reported
86	KRUGER/121+RR	6, 8, 10, 13	0	Not Reported
87	KRUGER/223+RR	7, 9, 11, 14, 16, 11	I	Not Reported
88	KRUGER/262-2RR	15, 17, 19	II	1-11, 13-15, 17-18, 21-22, 24
89	KRUGER/060RR	6, 8	0	Not Reported
90	KRUGER/090RR	6, 10, 13	0	Not Reported
91	KRUGER/155+RR	7, 9, 11	I	Not Reported
92	KRUGER/166RR	7, 9, 11	I	Not Reported
93	KRUGER/191RR	16, 18	I	1-11, 13-15, 17-18, 21-22, 24
94	KRUGER/211RR	15, 17, 19	II	1-11, 13-15, 17-18, 21-22, 24
95	KRUGER/211+RR	7, 9, 11, 14, 16, 11	I	1-11, 13-15, 17-18, 21-22, 24
96	KRUGER/223RR	7, 9, 11, 14, 16, 11	I	1-11, 13-15, 17-18, 21-22, 24
97	KRUGER/202+RR	7, 9, 11, 14, 16, 11	I	1-11, 13-15, 17-18, 21-22, 24
98	KRUGER/268RR	15, 19	II	1-11, 13-15, 17-18, 21-22, 24
99	KRUGER/270RR	15, 17, 19	II	Not Reported
100	KRUGER/066RR	6, 8	0	1-3, 6-11, 13, 15, 17, 21, 23-24

Table D. 2003 Roundup Ready™ soybean entries (continued)

No.	Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
101	KRUGER/077RR	6,8	0	Not Reported
102	KRUGER/082+RR	6,8	0	Not Reported
103	KRUGER/091RR	6,8,10,13	0	Not Reported
104	KRUGER/100RR	6,8,10,13	0	Not Reported
105	KRUGER/101RR	6,8,10,13	0	1-11,13-15,17-18,21-22,24
106	KRUGER/121ARR	10,13	0	Not Reported
107	KRUGER/149RR	7,9,11	I	Not Reported
108	KRUGER/171RR	7,9,11,14	I	Not Reported
109	KRUGER/171ARR	7,9,11,14	I	Not Reported
110	KRUGER/222A	7,9,11,14,16,11		1-11,13-15,17-18,21-22,24
111	KRUGER/230RR	15,17,19	II	Not Reported
112	KRUGER/233+RR	15,19	II	1-11,13-15,17-18,21-22,24
113	KRUGER/251RR	15,17,19	II	Not Reported
114	KRUGER/252RR	15,17,19	II	1-2,10-11,13,15-18,24
115	KRUGER/289+RR	17	II	1-11,13-15,17-18,21-22,24
116	KRUGER/292RR	17	II	1-11,13-15,17-18,21-22,24
117	LATHAM/457RR	17,19	II	
118	LATHAM/418RR	16	I	1-11,13-15,17-18,21-22,24
119	LATHAM/497RR	17	II	1-11,13-15,17-18,21-22,24
120	LATHAM/647RR	17	II	1-11,13-15,17-18,21-22,24
121	LATHAM/L2136R	15,17,19	II	
122	LATHAM/678RR	15	II	
123	LATHAM/EXP-E0710R	13	0	
124	LATHAM/EXP-E0830R	13	0	1-11,13-15,17-18,21-22,24
125	LATHAM/EXP-E0835R	13	0	1-11,13-15,17-18,21-22,24
126	LATHAM/L0930R	13	0	
127	LATHAM/EXP-E1030R	14	I	
128	LATHAM/148RR	14	I	
129	LATHAM/EXP-E1750R	14,16	I	1-11,13-15,17-18,21-22,24
130	LATHAM/EXP-E1800R	14,16	I	
131	LATHAM/367RR	14	I	1-11,13-15,17-18,21-22,24
132	LATHAM/EXP-E2145R	17	II	1-11,13-15,17-18,21-22,24
133	LATHAM/EXP-E2200R	17	II	
134	LATHAM/EXP-E2300R	17	II	
135	LATHAM/EXP-E2336R	15	II	
136	LATHAM/EXP-E2350R	15	II	1-11,13-15,17-18,21-22,24
137	LATHAM/EXP-E2530R	17	II	
138	LATHAM/EXP-E2780R	17	II	
139	GOLD COUNTRY/6016RR	7,9	I	1-3,6-11,13,15,17,21,23-24
140	GOLD COUNTRY/6117RR	11	I	Not Reported
141	GOLD COUNTRY/3809RR	6	0	Not Reported
142	GOLD COUNTRY/2315RR	9	I	Not Reported
143	GOLD COUNTRY/1319RR	14	I	1-11,13-15,17-18,21-22,24
144	GOLD COUNTRY/6221RR	15	II	1-11,13-15,17-18,21-22,24
145	GOLD COUNTRY/2409RR	6,8	0	1-11,13-15,17-18,21-22,24
146	GOLD COUNTRY/2305RR	6	0	Not Reported
147	GOLD COUNTRY/2424RR	17	II	1-11,13-15,17-18,21-22,24
148	DAIRYLAND/DSR-130/RR	9	I	
149	DAIRYLAND/DSR-075/RR	8,10,13	0	1-11,13-15,17-18,21-22,24
150	DAIRYLAND/DSR-101/RR	14,16	I	

Table D. 2003 Roundup Ready™ soybean entries (continued)

No.	Brand / Variety	Table Number (s)	Mat. Grp.	Phytophthora Race resistance
151	DAIRYLAND/DSR-221/RR	17	II	1-11,13-15,17-18,21-22,24
152	DAIRYLAND/DSR-040/RR	6,8	0	
153	DAIRYLAND/DSR-050/RR	6,8,10	0	
154	DAIRYLAND/DSR-155/RR	11,14	I	1-11,13-15,17-18,21-22,24
155	DAIRYLAND/DSR-199/RR	14,16,18	I	1-11,13-15,17-18,21-22,24
156	DAIRYLAND/DSR-132/RR	9,11	I	1-11,13-15,17-18,21-22,24
157	DAIRYLAND/DSR-234/RR	15,17,19	II	1-11,13-15,17-18,21-22,24
158	DAIRYLAND/DSR-245/RR	17,19	II	1-11,13-15,17-18,21-22,24
159	TOP FARM/6202RR	9,11,18	I	
160	TOP FARM/6072RR	8,13	0	1-11,13-15,17-18,21-22,24
161	TOP FARM/6102RR	8,13	0	1-2,10-11,13,15-18,24
162	TOP FARM/EXP34043BRR	9,14	I	
163	TOP FARM/EXP321044RR	12,15	II	
164	TOP FARM/EXP35260RR	9,11,14,18	I	
165	KALTENBERG/KB161RR	14	I	1-3,6-11,13,15,17,21,23-24
166	KALTENBERG/KB261RR	17,19	II	1-11,13-15,17-18,21-22,24
167	KALTENBERG/KB172RR	14	I	1-11,13-15,17-18,21-22,24
168	KALTENBERG/KB153RR	14	I	Not Reported
169	KALTENBERG/KB241RR	19	II	Not Reported
170	KALTENBERG/KB275RR	17,19	II	Not Reported
171	KALTENBERG/KB244RR	17	II	Not Reported
172	STINE/S1918-4	14,16	I	
173	STINE/S0846-4	8	0	
174	STINE/S0943-4	7,9	I	1-11,13-15,17-18,21-22,24
175	STINE/S1100-4	7,9,11	I	
176	STINE/S2116-4	12,15,17	II	1-11,13-15,17-18,21-22,24
177	STINE/S2400-4	15,17,19	II	
178	STINE/S2640-4	17,19	II	
179	PRAIRIE BR./PB-0920RR	6,8,10	0	Not Reported
180	PRAIRIE BR./PB-1030RR	6,8,10	0	1-3,6-11,13,15,17,21,23-24
181	PRAIRIE BR./PB-1620RR	7,9,11,14	I	1-3,6-11,13,15,17,21,23-24
182	PRAIRIE BR./PB-2397RR	12,15,17,19	II	Not Reported
183	PRAIRIE BR./PB-1241RR	7,9,11,14	I	Not Reported
184	PRAIRIE BR./PB-2141RR	12,15,19	II	1-11,13-15,17-18,21-22,24
185	PRAIRIE BR./PB-2421RR	12,15,17,19	II	1-11,13-15,17-18,21-22,24
186	PRAIRIE BR./PB-2821RR	17,19	II	Not Reported
187	PRAIRIE BR./PB-0732RR	6,8	0	Not Reported
188	PRAIRIE BR./PB-0812RR	6,8,10,13	0	Not Reported
189	PRAIRIE BR./PB-1452RR	7,9,11,14	I	Not Reported
190	PRAIRIE BR./PB-1552RR	7,9,11,14	I	Not Reported
191	PRAIRIE BR./PB-1921RR	7,9,11,14	I	1-11,13-15,17-18,21-22,24
192	PRAIRIE BR./PB-2112RR	7,9,11,14,16,11		Not Reported
193	PRAIRIE BR./PB-2352RR	12,15,17,19	II	1-11,13-15,17-18,21-22,24
194	PRAIRIE BR./PB-2552RR	15,17,19	II	Not Reported
195	PRAIRIE BR./PB-2832RR	17	II	Not Reported
196	PRAIRIE BR./PB-0623RR	6,8	0	1-3,6-11,13,15,17,21,23-24
197	PRAIRIE BR./PB-0923RR	6,8,10,13	0	1-11,13-15,17-18,21-22,24
198	PRAIRIE BR./EXP1003RR	6,8,10	0	1-3,6-11,13,15,17,21,23-24
199	PRAIRIE BR./PB-1043RR	6,8,10,13	0	Not Reported
200	PRAIRIE BR./PB-1063RR	6,8,10,13	0	Not Reported

Table D. 2003 Roundup Ready™ entries (continued)

No.	Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
201	PRAIRIE BR./PB-1943RR	7, 9, 11, 14, 16, 11	I	1-11, 13-15, 17-18, 21-22, 24
202	PRAIRIE BR./PB-2243RR	12, 15, 17, 19	II	1-11, 13-15, 17-18, 21-22, 24
203	PRAIRIE BR./PB-2343RR	12, 15, 17, 19	II	Not Reported
204	PRAIRIE BR./PB-2443RR	15	II	1-11, 13-15, 17-18, 21-22, 24
205	PRAIRIE BR./PB-2643RR	17, 19	II	1-11, 13-15, 17-18, 21-22, 24
206	PRAIRIE BR./PB-2732RR	17, 19	II	1-11, 13-15, 17-18, 21-22, 24
207	GARST/0901RR	8, 13	0	
208	GARST/XR18P04	9, 14	I	1-3, 6-11, 13, 15, 17, 21, 23-24
209	GARST/2834RR	17	II	1-11, 13-15, 17-18, 21-22, 24
210	GARST/2903RR	17	II	
211	MIDWEST SEED/GR1710	9	I	1-3, 6-11, 13, 15, 17, 21, 23-24
212	MIDWEST SEED/GR2037	12, 15, 17, 19	II	
213	MIDWEST SEED/GR2627	17, 19	II	
214	DYNA-GRO/DG 3223RR	12, 15, 17, 19	II	
215	DYNA-GRO/DG 33M14RR	7, 9, 11, 14	I	
216	DYNA-GRO/DG 38J12RR	7, 9, 11, 14	I	1-3, 6-11, 13, 15, 17, 21, 23-24
217	DYNA-GRO/DG 3200RR	12, 15, 17, 19	II	
218	DYNA-GRO/DG 38K28RR	17, 19	II	
219	DYNA-GRO/DG 31C15RR	7, 9, 11, 14	I	
220	DYNA-GRO/DG 3190RR	7, 9, 11, 14	I	1-11, 13-15, 17-18, 21-22, 24
221	DYNA-GRO/DG 3218RR	12, 15, 17, 19	II	
222	DYNA-GRO/DG 3232RR	12, 15, 17, 19	II	1-11, 13-15, 17-18, 21-22, 24
223	DYNA-GRO/DG 3263RR	17, 19	II	1-11, 13-15, 17-18, 21-22, 24
224	ZILLER/BT 7150R	9, 14	I	1-3, 6-11, 13, 15, 17, 21, 23-24
225	ZILLER/BT 7106R	9	I	1-3, 6-11, 13, 15, 17, 21, 23-24
226	ZILLER/BT 7193R	14, 16	I	
227	ZILLER/BT 7084R	8, 13	0	
228	ZILLER/BT 7143R	9, 14	I	
229	ZILLER/BT 7213R	17	II	
230	JACOBSEN/EXP J730NR	15	II	1-11, 13-15, 17-18, 21-22, 24
231	JACOBSEN/EXP J733R	15, 17	II	1-11, 13-15, 17-18, 21-22, 24
232	JACOBSEN/J725R	17, 19	II	Not Reported
233	JACOBSEN/J828R	17, 19	II	Not Reported
234	JACOBSEN/EXP J839R	17, 19	II	Not Reported
235	WENSMAN/W 2093RR	6, 8	0	Not Reported
236	WENSMAN/W 2145RR	11, 14	I	Not Reported
237	WENSMAN/W 2162RR	11, 14	I	1-2, 10-11, 13, 15-18, 24
238	WENSMAN/W 2186RR	11, 14	I	1-11, 13-15, 17-18, 21-22, 24
239	WENSMAN/W 2062RR	6, 8	0	Not Reported
240	WENSMAN/W 2085RR	6, 8	0	1-11, 13-15, 17-18, 21-22, 24
241	WENSMAN/W 2103RR	6, 8, 10, 13	0	1-11, 13-15, 17-18, 21-22, 24
242	WENSMAN/W 2211RR	12, 15	II	1-11, 13-15, 17-18, 21-22, 24
243	DEN BESTEN/DB0900RR	6, 8, 10, 13	0	
244	DEN BESTEN/DB2601RR	17, 19	II	1-11, 13-15, 17-18, 21-22, 24
245	DEN BESTEN/DB1902RR	7, 9, 11, 14, 16, 11	I	1-11, 13-15, 17-18, 21-22, 24
246	DEN BESTEN/DB1303RR	7, 9, 11, 14	I	
247	DEN BESTEN/DB2303RR	12, 15, 17, 19	II	
248	DEN BESTEN/DB2503RR	17, 19	II	
249	DEN BESTEN/DB2803RR	17, 19	II	
250	THOMPSON/T-7205RR	11, 14, 16	I	1-11, 13-15, 17-18, 21-22, 24

Table D. 2003 Roundup Ready™ entries (continued)

No.	Brand / Variety	Table Number (s)	Mat. Grp.	Phytophthora Race resistance
251	THOMPSON/T-7217RR	11, 14	I	1-11, 13-15, 17-18, 21-22, 24
252	THOMPSON/T-7225RR	15	II	
253	THOMPSON/T-7214RR	16	I	
254	THOMPSON/T-7254RR	19	II	1-11, 13-15, 17-18, 21-22, 24
255	THOMPSON/T-7262RR	19	II	1-11, 13-15, 17-18, 21-22, 24
256	THOMPSON/T-7252RR	15, 17, 19	II	
257	THOMPSON/T-7284RR	17, 19	II	
258	THOMPSON/EXP7213RR	11, 14, 16	I	Unknown
259	THOMPSON/EXP7221RR	15, 17	II	Unknown
260	THOMPSON/EXP7259RR	15, 17	II	
261	THOMPSON/T-7293RR	17, 19	II	1-11, 13-15, 17-18, 21-22, 24
262	THOMPSON/T-7243RR	15, 17, 19	II	1-2, 10-11, 13, 15-18, 24
263	THOMPSON/EXP7239RR	15, 17, 19	II	
264	NORTHSTAR/NS 0923RR	6, 8, 10, 13	0	Unknown
265	NORTHSTAR/NS 0954RR	6, 8, 10, 13	0	Unknown
266	NORTHSTAR/NS 1624RR	7, 9, 11, 14	I	1-3, 6-11, 13, 15, 17, 21, 23-24
267	NORTHSTAR/NS 1407RR	7, 9, 11, 14	I	Unknown
268	NORTHSTAR/NS 1207RR	7, 9, 11, 14	I	1-11, 13-15, 17-18, 21-22, 24
269	RENK/RS199RR	14	I	1-11, 13-15, 17-18, 21-22, 24
270	RENK/RS212RR	15, 17	II	1-11, 13-15, 17-18, 21-22, 24
271	RENK/RS172RR	14	I	1-11, 13-15, 17-18, 21-22, 24
272	RENK/RS223RR	15, 17, 19	II	1-11, 13-15, 17-18, 21-22, 24
273	RENK/RS253RR	17, 19	II	Not Reported
274	CROWS/C1630R	14	I	1-3, 6-11, 13, 15, 17, 21, 23-24
275	CROWS/C2130R	15, 19	II	
276	CROWS/C2506R	17, 19	II	
277	BIO GENE/BG091RR	6, 8, 10, 13	0	1-11, 13-15, 17-18, 21-22, 24
278	BIO GENE/BG1700RR	16, 18	I	1-11, 13-15, 17-18, 21-22, 24
279	MERSCHMAN/MARS VIIRR	16	I	
280	MERSCHMAN/VENUS RR	16	I	
281	MERSCHMAN/APACHE VIIIRR	17	II	
282	MERSCHMAN/SIOUX IIRR	17	II	1-11, 13-15, 17-18, 21-22, 24
283	MERSCHMAN/MUNSEE IVRR	17	II	1-11, 13-15, 17-18, 21-22, 24
284	MERSCHMAN/CHICKASAW 8RR	17	II	1-3, 6-11, 13, 15, 17, 21, 23-24
285	MERSCHMAN/MOHAWK RR	17	II	
286	EXCEL/8120RR	7, 9	I	Not Reported
287	EXCEL/8193RR	14	I	1-11, 13-15, 17-18, 21-22, 24
288	EXCEL/8200RR	15	II	1-11, 13-15, 17-18, 21-22, 24
289	EXCEL/8046RR	6	0	Not Reported
290	EXCEL/8055RR	6	0	Not Reported
291	EXCEL/8131RR	7	I	1-3, 6-11, 13, 15, 17, 21, 23-24
292	EXCEL/8173RR	11, 14	I	Not Reported
293	EXCEL/8226RR	17	II	Not Reported
294	EXCEL/8227RR	15	II	1-11, 13-15, 17-18, 21-22, 24
295	EXCEL/8236NRR	17	II	1-11, 13-15, 17-18, 21-22, 24
296	EXCEL/8237RR	17	II	Not Reported
297	EXCEL/8258RR	17	II	1-11, 13-15, 17-18, 21-22, 24
298	SABRE/145RR	9	I	1-11, 13-15, 17-18, 21-22, 24
299	SABRE/195RR	9, 14	I	1-11, 13-15, 17-18, 21-22, 24
300	SABRE/215RR	15	II	1-11, 13-15, 17-18, 21-22, 24

Table D. 2003 Roundup Ready™ entries (continued)

No.	Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
301	SABRE/238RR	17	II	1-11,13-15,17-18,21-22,24
302	SABRE/282RR	17	II	
303	PETERSON/PFS 0410RR	7,9,11,14	I	1-11,13-15,17-18,21-22,24
304	PETERSON/PFS 0408RR	6,8,10,13	0	
305	PETERSON/EXP 0307RR	6,8,10,13	0	
306	SODAK GENETICS/SD1081RR	6,8,10,13	0	1-2,10-11,13,15-18,24
307	SODAK GENETICS/SD1091RR	6,8,10,13	0	1-2,10-11,13,15-18,24

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Table 6. Warner, maturity group 0 Roundup Ready™ soybean test results, 2001-2003. Allen and Inel Ryckman Farm, seeded May 23.

Brand / Entry	Yield - bu/a (13% moisture)			2002 Prot. pct+	2002 Oil pct+	Ht. in.	----- 2003 -----	
	3yr	2yr	2003				Ldg. Sc.~	Maturity: Days after seeding
	Entries tested one year							
DESOY/077RR	.	.	55	.	.	29	1	114
KRUGER/099+RR	.	.	52	.	.	30	1	116
KRUGER/066RR	.	.	50	.	.	28	1	116
ASGROW/AG0801	.	.	50	.	.	38	2	112
KRUGER/060RR	.	.	50	.	.	35	1	114
GOLD COUNTRY/2409RR	.	.	50	.	.	30	1	117
WENSMAN/W 2093RR	.	.	50	.	.	33	1	115
MUSTANG/M-094RR	.	.	50	.	.	32	1	118
GOLD COUNTRY/2305RR	.	.	50	.	.	37	1	113
NORTHSTAR/NS 0923RR	.	.	50	.	.	30	1	115
PRAIRIE BR./PB-0923RR	.	.	50	.	.	32	1	117
EXCEL/8055RR	.	.	50	.	.	31	1	116
DAIRYLAND/DSR-050/RR	.	.	50	.	.	33	1	114
WENSMAN/W 2062RR	.	.	49	.	.	34	1	115
PRAIRIE BR./PB-0623RR	.	.	49	.	.	27	1	115
KRUGER/091RR	.	.	49	.	.	33	1	117
DEKALB/DKB10-51	.	.	49	.	.	31	1	115
MUSTANG/M-053RR	.	.	49	.	.	34	1	115
PRAIRIE BR./PB-0732RR	.	.	49	.	.	28	1	116
PETERSON/EXP 0307RR	.	.	48	.	.	34	2	115
GOLD COUNTRY/3809RR	.	.	48	.	.	33	1	115
DEN BESTEN/DB0900RR	.	.	48	.	.	28	1	115
KRUGER/101RR	.	.	48	.	.	32	1	116
MUSTANG/M-091RR	.	.	48	.	.	29	1	116
DESOY/055RR	.	.	48	.	.	33	1	115
DEKALB/DKB07-52	.	.	48	.	.	33	1	115
KRUGER/090RR	.	.	48	.	.	33	1	115
PRAIRIE BR./PB-1063RR	.	.	48	.	.	32	1	116
PRAIRIE BR./PB-1030RR	.	.	47	.	.	31	1	118
PRAIRIE BR./PB-0920RR	.	.	47	.	.	30	1	114
SODAK GENETICS/SD1091R	.	.	47	.	.	35	1	118
MUSTANG/M-083RR	.	.	47	.	.	33	1	117
DAIRYLAND/DSR-040/RR	.	.	47	.	.	32	1	115
KRUGER/077RR	.	.	46	.	.	32	1	114

Table 6. Warner, maturity group 0 Roundup Ready™ test results (continued).

Brand / Entry	Yield - bu/a (13% moisture)			2002	2002	Ht. in.	Ldg. Sc.~	----- 2003 -----
	3yr	2yr	2003	Prot. pct+	Oil pct+			Maturity: Days after seeding
	----- Entries tested one year -----							
SODAK GENETICS/SD1081R	.	.	46	.	.	32	1	116
WENSMAN/W 2103RR	.	.	46	.	.	32	2	116
DESOY/041RR	.	.	46	.	.	30	1	108
PRAIRIE BR./EXP1003RR	.	.	46	.	.	29	1	118
PRAIRIE BR./PB-1043RR	.	.	46	.	.	31	1	117
MUSTANG/M-073RR	.	.	45	.	.	27	1	116
PETERSON/PFS 0408RR	.	.	45	.	.	24	1	116
WENSMAN/W 2085RR	.	.	45	.	.	27	1	118
MUSTANG/M-092RR	.	.	44	.	.	31	1	115
NORTHSTAR/NS 0954RR	.	.	44	.	.	29	1	120
KRUGER/100RR	.	.	44	.	.	33	1	114
PRAIRIE BR./PB-0812RR	.	.	44	.	.	32	1	115
KRUGER/082+RR	.	.	43	.	.	26	1	114
KRUGER/121+RR	.	.	43	.	.	32	1	116
DESOY/090RR	.	.	43	.	.	33	1	115
EXCEL/8046RR	.	.	42	.	.	32	2	115
MUSTANG/M-054RR	.	.	39	.	.	24	1	117
BIO GENE/BG091RR	.	.	39	.	.	32	1	113
Test average:	.	.	47	.	.	32	1	115
LSD(5%) value (\$):	.	.	7					
Min.top yield value (\$):	.	.	48					
Coef. of variation (#):	.	.	9					

\$/+ See yield / protein and oil sections, respectively.

~ Lodging: 1= all plants erect, 3= some at 45 degrees, 5= all plants flat.

Measure of experimental error: values of < 15% are desired.

Table 7. Warner, maturity group I Roundup Ready™ soybean test results, 2001-2003. Allen and Inel Ryckman Farm, seeded May 23.

Brand / Entry	Yield - bu/a (13% moisture)			2002 Prot. pct+	2002 Oil pct+	Ht. in.	----- 2003 -----	
	3yr	2yr	2003				Ldg. Sc.~	Maturity: Days after seeding

	Entries tested one year							
PRAIRIE BR./PB-1620RR	.	.	47	.	.	40	1	119
PETERSON/PFS 0410RR	.	.	46	.	.	30	1	117
KRUGER/223+RR	.	.	45	.	.	29	1	119
KRUGER/211+RR	.	.	44	.	.	32	1	120
MUSTANG/M-153RR	.	.	43	.	.	29	1	117
DYNA-GRO/DG 31C15RR	.	.	43	.	.	28	1	118
PRAIRIE BR./PB-1552RR	.	.	43	.	.	30	1	118
DEN BESTEN/DB1902RR	.	.	43	.	.	29	1	119
DEKALB/DKB19-52	.	.	43	.	.	32	1	120
KRUGER/223RR	.	.	43	.	.	29	1	121
PRAIRIE BR./PB-1452RR	.	.	42	.	.	32	1	116
DYNA-GRO/DG 38J12RR	.	.	42	.	.	38	1	117
DESOY/161RR/SCN	.	.	42	.	.	27	1	118
KRUGER/202+RR	.	.	41	.	.	29	1	120
STINE/S0943-4	.	.	40	.	.	30	1	118
MUSTANG/M-101RR	.	.	40	.	.	32	1	114
MUSTANG/M-151RR	.	.	40	.	.	39	1	116
KRUGER/166RR	.	.	40	.	.	29	1	116
EXCEL/8120RR	.	.	40	.	.	36	1	117
DYNA-GRO/DG 33M14RR	.	.	40	.	.	32	1	116
STINE/S1100-4	.	.	39	.	.	33	1	116
NORTHSTAR/NS 1407RR	.	.	39	.	.	28	1	117
PRAIRIE BR./PB-1241RR	.	.	39	.	.	31	1	114
NORTHSTAR/NS 1207RR	.	.	39	.	.	30	1	115
PRAIRIE BR./PB-2112RR	.	.	39	.	.	31	1	121
PRAIRIE BR./PB-1943RR	.	.	38	.	.	30	1	120
ASGROW/AG2106	.	.	38	.	.	31	1	121
MUSTANG/M-163RR	.	.	38	.	.	34	1	119
MUSTANG/M-124RR	.	.	37	.	.	32	1	116
KRUGER/149RR	.	.	37	.	.	34	1	117
EXCEL/8131RR	.	.	36	.	.	35	1	115
GOLD COUNTRY/6016RR	.	.	36	.	.	40	1	116
KRUGER/155+RR	.	.	36	.	.	33	1	116
DEN BESTEN/DB1303RR	.	.	36	.	.	33	1	116

Table 7. Warner, maturity group I Roundup Ready™ test results (continued).

Brand / Entry	Yield - bu/a (13% moisture)			2002	2002	Ht. in.	Ldg. Sc.~	----- 2003 -----
	3yr	2yr	2003	Prot. pct+	Oil pct+			Maturity: Days after seeding
	----- Entries tested one year -----							
DESOY/191RR	.	.	36	.	.	33	1	122
DESOY/194RR	.	.	35	.	.	34	1	120
KRUGER/171ARR	.	.	34	.	.	30	1	119
KRUGER/171RR	.	.	33	.	.	29	1	118
MUSTANG/M-174RR	.	.	32	.	.	31	1	119
DYNA-GRO/DG 3190RR	.	.	32	.	.	31	1	122
NORTHSTAR/NS 1624RR	.	.	31	.	.	34	2	119
KRUGER/222A	.	.	31	.	.	35	1	121
PRAIRIE BR./PB-1921RR	.	.	30	.	.	32	1	121
Test average:	.	.	38	.	.	33	1	118
LSD(5%) value (\$):	.	.	8					
Min.top yield value (\$):	.	.	39					
Coef. of variation (#):	.	.	12					

\$/+ See yield / protein and oil sections, respectively.

~ Lodging: 1= all plants erect, 3= some at 45 degrees, 5= all plants flat.

Measure of experimental error: values of < 15% are desired.

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Table 8. South Shore, maturity group 0 Roundup Ready™ soybean test results, 2001-2003. NE Research Farm, seeded May 27.

Brand / Entry	Yield - bu/a (13% moisture)			2002	2002	Ht. in.	Ldg. Sc.~	Maturity: Days after seeding
	3yr	2yr	2003	Prot. pct+	Oil pct+			
	----- 2003 -----							
	Entries tested three years							
DEKALB/DKB10-51	39	39	22	34.5	18.5	24	1	115
NORTHSTAR/NS 0954RR	39	38	23	35.9	18.6	23	1	114
KRUGER/091-1RR	37	36	22	35.1	18.4	24	1	113
KRUGER/099+RR	37	36	23	36.2	18.8	24	1	112
ASGROW/AG0801	37	34	19	33.7	18.7	25	1	111
MUSTANG/M-091RR	36	36	22	35.6	18.5	23	1	112
PRAIRIE BR./PB-0920RR	36	35	23	35.7	18.7	24	1	114
PRAIRIE BR./PB-1030RR	36	36	20	34.9	18.5	27	1	116
DEN BESTEN/DB0900RR	35	34	21	35.5	19.2	24	1	112
SODAK GENETICS/SD1091R	34	34	19	36.6	18.9	25	1	114
	Entries tested two years							
MUSTANG/M-083RR	.	37	23	36.6	19.1	25	1	116
PRAIRIE BR./PB-0732RR	.	37	20	35.1	18.9	19	1	113
DAIRYLAND/DSR-040/RR	.	36	21	34.2	18.9	26	1	111
KRUGER/060RR	.	36	23	35.1	18.6	24	1	110
MUSTANG/M-092RR	.	36	22	36.0	18.8	24	1	114
STINE/S0846-4	.	35	21	36.0	19.2	25	1	113
WENSMAN/W 2093RR	.	35	19	35.8	18.7	23	1	114
PRAIRIE BR./PB-0812RR	.	34	22	35.6	19.1	27	1	113
BIO GENE/BG091RR	.	34	19	35.4	18.6	25	1	112
TOP FARM/6102RR	.	34	21	35.2	19.4	22	1	114
SODAK GENETICS/SD1081R	.	33	21	33.9	19.9	25	1	113
DAIRYLAND/DSR-050/RR	.	32	21	33.5	19.2	21	1	113
TOP FARM/6072RR	.	30	18	34.6	18.9	22	1	113
	Entries tested one year							
GOLD COUNTRY/2409RR	.	.	24	.	.	24	1	116
MUSTANG/M-053RR	.	.	24	.	.	27	1	112
NORTHSTAR/NS 0923RR	.	.	24	.	.	25	1	114
DESOY/077RR	.	.	23	.	.	22	1	114
KRUGER/121+RR	.	.	23	.	.	23	1	116
MUSTANG/M-094RR	.	.	22	.	.	23	1	115
SANDS/SOI 0931RR	.	.	22	.	.	22	1	113
KRUGER/066RR	.	.	22	.	.	22	1	111
WENSMAN/W 2085RR	.	.	22	.	.	21	1	118
KRUGER/100RR	.	.	21	.	.	24	1	116

Table 8. South Shore, maturity group 0 Roundup Ready™ test results (continued).

Brand / Entry	Yield - bu/a (13% moisture)			2002	2002	Ht. in.	Ldg. Sc.~	----- 2003 ----- Maturity: Days after seeding
	3yr	2yr	2003	Prot. pct+	Oil pct+			
	----- Entries tested one year -----							
SANDS/SOI 1050RR	.	.	21	.	.	24	1	116
PRAIRIE BR./EXP1003RR	.	.	21	.	.	24	1	116
DEKALB/DKB07-52	.	.	21	.	.	25	1	110
PRAIRIE BR./PB-0623RR	.	.	21	.	.	20	1	112
WENSMAN/W 2062RR	.	.	21	.	.	26	1	111
PRAIRIE BR./PB-0923RR	.	.	21	.	.	22	1	115
KRUGER/101RR	.	.	21	.	.	23	1	116
ZILLER/BT 7084R	.	.	21	.	.	22	1	114
GARST/0901RR	.	.	20	.	.	24	1	116
DAIRYLAND/DSR-075/RR	.	.	20	.	.	23	1	113
DESOY/090RR	.	.	20	.	.	23	1	115
WENSMAN/W 2103RR	.	.	20	.	.	23	1	116
PRAIRIE BR./PB-1063RR	.	.	20	.	.	23	1	115
DESOY/055RR	.	.	19	.	.	23	1	110
PRAIRIE BR./PB-1043RR	.	.	19	.	.	22	1	116
KRUGER/091RR	.	.	19	.	.	23	1	113
DESOY/041RR	.	.	19	.	.	22	1	111
KRUGER/077RR	.	.	18	.	.	23	1	111
PETERSON/EXP 0307RR	.	.	18	.	.	23	1	111
MUSTANG/M-073RR	.	.	18	.	.	20	1	114
MUSTANG/M-054RR	.	.	17	.	.	20	1	114
KRUGER/082+RR	.	.	17	.	.	20	1	114
PETERSON/PFS 0408RR	.	.	17	.	.	18	1	113
Test average:	37	35	21	35.2	18.9	24	1	113
LSD(5%) value (\$):	NS	NS	4					
Min.top yield value (\$):	34	30	20					
Coef. of variation (#):	10	11	13					

\$/+ See yield / protein and oil sections, respectively.

~ Lodging: 1= all plants erect, 3= some at 45 degrees, 5= all plants flat.

NS - Indicates differences between values within a column are not significant.

Measure of experimental error: values of < 15% are desired.

Table 9. South Shore, maturity group I Roundup Ready™ soybean test results, 2001-2003. NE Research Farm, seeded May 27.

Brand / Entry	Yield - bu/a (13% moisture)			2002	2002	Ht. in.	Ldg. Sc.~	----- 2003 ----- Maturity: Days after seeding
	3yr	2yr	2003	Prot. pct+	Oil pct+			
----- 2003 -----								
----- Maturity: -----								
----- Days -----								
----- after -----								
----- seeding -----								

Entries tested three years								
DEN BESTEN/DB1902RR	35	36	21	33.6	19.7	22	1	123
DAIRYLAND/DSR-130/RR	34	32	18	35.0	18.9	26	1	115
ZILLER/BT 7150R	34	33	21	33.3	19.3	29	1	117
PRAIRIE BR./PB-1620RR	34	35	22	33.5	18.8	29	1	116
MUSTANG/M-151RR	33	35	20	33.1	19.2	27	1	116
GOLD COUNTRY/6016RR	33	33	21	33.5	19.1	27	1	118
PRAIRIE BR./PB-1241RR	31	29	20	36.3	19.2	21	1	115
MUSTANG/M-101RR	30	30	18	35.4	19.0	24	1	115

Entries tested two years								
KRUGER/211+RR	.	37	21	34.3	18.9	23	1	122
KRUGER/166RR	.	35	18	35.2	18.6	22	1	120
ZILLER/BT 7106R	.	34	21	34.6	18.8	22	1	115
KRUGER/202+RR	.	34	19	33.9	19.2	19	1	122
ASGROW/AG1401	.	34	22	32.8	19.8	26	1	115

KRUGER/155+RR	.	34	19	36.3	19.2	25	1	116
EXCEL/8120RR	.	33	16	35.1	19.0	27	1	115
MUSTANG/M-153RR	.	33	19	35.2	18.8	23	1	119
PRAIRIE BR./PB-1921RR	.	33	19	35.0	18.9	23	1	124
NORTHSTAR/NS 1407RR	.	32	19	36.4	18.6	25	1	116

DESOY/191RR	.	32	18	34.1	19.5	22	1	124
DYNA-GRO/DG 38J12RR	.	32	18	37.0	17.5	26	1	116
PRAIRIE BR./PB-1552RR	.	32	18	35.6	18.6	23	1	120
ASGROW/AG1701	.	32	16	34.4	19.3	22	1	119
DEN BESTEN/DB1303RR	.	30	18	36.7	18.8	23	1	116

PRAIRIE BR./PB-1452RR	.	30	18	36.7	18.8	25	1	117
MUSTANG/M-163RR	.	30	19	36.0	18.1	22	1	120
GOLD COUNTRY/2315RR	.	30	18	34.5	18.9	23	1	120
DYNA-GRO/DG 33M14RR	.	29	19	37.0	19.1	23	1	116

Entries tested one year								
MIDWEST SEED/GR1710	.	.	22	.	.	26	1	117
PRAIRIE BR./PB-1943RR	.	.	21	.	.	21	1	122
SANDS/SOI 1515RR	.	.	21	.	.	26	1	118
MUSTANG/M-174RR	.	.	21	.	.	23	1	121
STINE/S1100-4	.	.	21	.	.	22	1	116

SABRE/145RR	.	.	21	.	.	24	1	118
KRUGER/223+RR	.	.	21	.	.	21	1	123
NORTHSTAR/NS 1207RR	.	.	21	.	.	26	1	115

Table 9. South Shore, maturity group I Roundup Ready™ test results (continued).

Brand / Entry	Yield - bu/a (13% moisture)			2002	2002	Ht. in.	Ldg. Sc.~	Maturity: Days after seeding
	3yr	2yr	2003	Prot. pct+	Oil pct+			
	----- 2003 -----							
	Entries tested one year							
KRUGER/149RR	.	.	21	.	.	26	1	116
KRUGER/171RR	.	.	20	.	.	21	1	121
DEKALB/DKB19-52	.	.	20	.	.	24	1	121
STINE/S0943-4	.	.	20	.	.	24	1	116
TOP FARM/EXP34043BRR	.	.	20	.	.	24	1	116
SANDS/EXP 1751RR	.	.	19	.	.	22	1	121
DAIRYLAND/DSR-132/RR	.	.	19	.	.	26	1	119
MUSTANG/M-124RR	.	.	19	.	.	22	1	116
KRUGER/223RR	.	.	19	.	.	21	1	124
SANDS/SOI 1441RR	.	.	19	.	.	24	1	116
GARST/XR18P04	.	.	19	.	.	26	1	121
PETERSON/PFS 0410RR	.	.	19	.	.	22	1	114
ZILLER/BT 7143R	.	.	19	.	.	23	1	115
DESOY/161RR/SCN	.	.	19	.	.	22	1	121
SABRE/195RR	.	.	19	.	.	23	1	123
SANDS/SOI 1730RR	.	.	19	.	.	21	1	121
TOP FARM/EXP35260RR	.	.	19	.	.	24	1	123
KRUGER/171ARR	.	.	19	.	.	22	1	121
ASGROW/AG2106	.	.	19	.	.	22	1	124
NORTHSTAR/NS 1624RR	.	.	18	.	.	25	1	124
DYNA-GRO/DG 3190RR	.	.	18	.	.	23	1	125
KRUGER/222A	.	.	18	.	.	25	1	125
PRAIRIE BR./PB-2112RR	.	.	18	.	.	23	1	123
DESOY/194RR	.	.	18	.	.	23	1	124
TOP FARM/6202RR	.	.	17	.	.	22	1	121
DYNA-GRO/DG 31C15RR	.	.	16	.	.	22	1	120
Test average:	32	32	19	35.1	19.0	24	1	119
LSD(5%) value (\$):	NS	NS	NS					
Min.top yield value (\$):	28	28	16					
Coef. of variation (#):	8	10	11					

\$/+ See yield / protein and oil sections, respectively.

~ Lodging: 1= all plants erect, 3= some at 45 degrees, 5= all plants flat.

NS - Indicates differences between values within a column are not significant.

Measure of experimental error: values of < 15% are desired.

Table 10. Yale, maturity group 0 Roundup Ready™ soybean test results, 2001-2003. Kim Tschetter Farm, seeded May 22.

Brand / Entry	Yield - bu/a (13% moisture)			2002	2002	Ht. in.	Ldg. Sc.~	----- 2003 -----
	3yr	2yr	2003	Prot. pct+	Oil pct+			Maturity: Days after seeding
----- 2003 -----								
----- Maturity: -----								
----- Days -----								
----- after -----								
----- seeding -----								

Entries tested three years								
DEKALB/DKB10-51	37	34	24	33.2	19.9	24	1	113
KRUGER/121+RR	35	31	19	34.0	20.3	22	1	113
SODAK GENETICS/SD1091R	35	31	20	35.1	19.8	25	1	115
PRAIRIE BR./PB-1030RR	34	30	29	33.3	19.8	24	1	112
DEN BESTEN/DB0900RR	34	32	24	33.5	20.4	25	1	113
PRAIRIE BR./PB-0920RR	34	31	24	34.2	19.5	25	1	115
MUSTANG/M-091RR	33	31	26	34.3	20.3	26	1	115
KRUGER/099+RR	33	29	21	33.8	19.9	23	1	115
NORTHSTAR/NS 0954RR	33	30	21	35.1	19.1	23	1	115

Entries tested two years								
KRUGER/090RR	.	36	31	34.9	19.7	30	1	117
DAIRYLAND/DSR-050/RR	.	35	35	32.9	19.9	28	1	114
SODAK GENETICS/SD1081R	.	33	27	33.3	20.7	28	1	114
PRAIRIE BR./PB-0812RR	.	32	23	34.9	20.2	27	1	114
MUSTANG/M-092RR	.	32	29	34.7	20.3	24	1	116
BIO GENE/BG091RR	.	26	21	33.6	19.8	26	1	113

Entries tested one year								
PRAIRIE BR./PB-1063RR	.	.	32	.	.	27	1	117
PRAIRIE BR./EXP1003RR	.	.	29	.	.	28	1	118
MUSTANG/M-094RR	.	.	29	.	.	23	1	113
KRUGER/091RR	.	.	29	.	.	28	1	113
DESOY/090RR	.	.	28	.	.	26	1	116
PETERSON/EXP 0307RR	.	.	28	.	.	26	1	113
NORTHSTAR/NS 0923RR	.	.	24	.	.	25	1	115
PETERSON/PFS 0408RR	.	.	24	.	.	22	1	115
MUSTANG/M-083RR	.	.	23	.	.	26	1	114
WENSMAN/W 2103RR	.	.	22	.	.	23	1	114
PRAIRIE BR./PB-1043RR	.	.	22	.	.	27	1	114
DAIRYLAND/DSR-075/RR	.	.	22	.	.	23	1	111
KRUGER/091-1RR	.	.	21	.	.	26	1	111
KRUGER/121ARR	.	.	20	.	.	23	1	116

Table 10. Yale, maturity group 0 Roundup Ready™ test results (continued).

Brand / Entry	Yield - bu/a (13% moisture)			2002	2002	Ht. in.	Ldg. Sc.~	----- 2003 -----
	3yr	2yr	2003	Prot. pct+	Oil pct+			Maturity: Days after seeding
	----- Entries tested one year -----							
KRUGER/101RR	.	.	20	.	.	25	1	114
PRAIRIE BR./PB-0923RR	.	.	20	.	.	23	1	113
KRUGER/100RR	.	.	20	.	.	26	1	115
Test average:	34	32	25	34.1	20.0	26	1	114
LSD(5%) value (\$):	NS	NS	6					
Min.top yield value (\$):	33	26	29					
Coef. of variation (#):	9	10	16					

\$/+ See yield / protein and oil sections, respectively.

~ Lodging: 1= all plants erect, 3= some at 45 degrees, 5= all plants flat.

NS - Indicates differences between values within a column are not significant.

Measure of experimental error: values of < 15% are desired.

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Table 11. Yale, maturity group I Roundup Ready™ soybean test results, 2001-2003. Kim Tschetter Farm, seeded May 22.

Brand / Entry	Yield - bu/a (13% moisture)			2002	2002	Ht. in.	Ldg. Sc.~	Maturity: Days after seeding
	3yr	2yr	2003	Prot. pct+	Oil pct+			
	----- 2003 -----							
	----- Maturity: -----							
	----- Days -----							
	----- after -----							
	----- seeding -----							

	Entries tested three years							
DEN BESTEN/DB1902RR	42	37	28	32.0	20.2	23	1	122
KRUGER/223+RR	39	33	23	32.1	20.6	24	1	120
PRAIRIE BR./PB-1620RR	38	34	25	31.6	19.9	28	1	117
MUSTANG/M-151RR	37	32	27	31.9	20.2	32	1	118
PRAIRIE BR./PB-1241RR	36	30	23	34.1	20.5	25	1	114
GOLD COUNTRY/6117RR	36	29	20	32.7	21.1	32	1	121

	Entries tested two years							
PRAIRIE BR./PB-2112RR	.	36	25	33.1	19.2	27	1	122
MUSTANG/M-101RR	.	35	29	32.6	20.3	26	1	116
NORTHSTAR/NS 1407RR	.	33	25	33.9	20.1	26	1	116
MUSTANG/M-163RR	.	32	25	33.6	19.4	27	1	120
KRUGER/155+RR	.	32	27	34.0	20.3	29	1	118
KRUGER/202+RR	.	32	23	31.7	20.5	21	1	121
DYNA-GRO/DG 33M14RR	.	31	21	33.7	20.5	24	1	116
WENSMAN/W 2162RR	.	31	22	34.0	19.3	25	1	120
DEN BESTEN/DB1303RR	.	31	19	33.4	20.5	26	1	115
WENSMAN/W 2145RR	.	30	23	34.0	20.3	27	1	117
DYNA-GRO/DG 38J12RR	.	30	25	34.1	19.3	27	1	116
KRUGER/211+RR	.	30	21	32.7	20.0	25	1	122
DESOY/191RR	.	29	16	32.2	20.0	27	1	123
PRAIRIE BR./PB-1552RR	.	29	16	32.1	20.5	22	1	117
PRAIRIE BR./PB-1452RR	.	29	21	34.0	20.6	24	1	117
MUSTANG/M-153RR	.	29	18	33.1	20.1	23	1	116
DAIRYLAND/DSR-155/RR	.	29	18	33.9	20.3	22	1	117
ASGROW/AG1701	.	28	21	33.3	20.3	24	1	117
KRUGER/166RR	.	27	18	32.2	20.4	23	1	118
TOP FARM/6202RR	.	27	16	33.6	20.8	27	1	119
PRAIRIE BR./PB-1921RR	.	26	15	32.2	20.1	26	1	124

	Entries tested one year							
KRUGER/223RR	.	.	30	.	.	24	1	119
DAIRYLAND/DSR-132/RR	.	.	29	.	.	27	1	117
MUSTANG/M-124RR	.	.	28	.	.	28	1	117
PRAIRIE BR./PB-1943RR	.	.	28	.	.	25	1	120
WENSMAN/W 2186RR	.	.	27	.	.	27	1	122

Table 11. Yale, maturity group I Roundup Ready™ test results (continued).

Brand / Entry	Yield - bu/a (13% moisture)			2002	2002	Ht. in.	Ldg. Sc.~	2003
	3yr	2yr	2003	Prot. pct+	Oil pct+			Maturity: Days after seeding
	----- 2003 -----							
	Entries tested one year							
DEKALB/DKB19-52	.	.	26	.	.	25	1	118
THOMPSON/T-7205RR	.	.	25	.	.	24	1	121
DESOY/161RR/SCN	.	.	25	.	.	22	1	119
NORTHSTAR/NS 1207RR	.	.	22	.	.	25	1	115
THOMPSON/EXP7213RR	.	.	22	.	.	31	1	121
PETERSON/PFS 0410RR	.	.	22	.	.	25	1	115
KRUGER/149RR	.	.	22	.	.	32	1	116
DESOY/194RR	.	.	21	.	.	26	1	120
STINE/S1100-4	.	.	21	.	.	27	1	117
TOP FARM/EXP35260RR	.	.	20	.	.	25	1	122
ASGROW/AG2106	.	.	19	.	.	25	1	119
KRUGER/171RR	.	.	19	.	.	23	1	119
THOMPSON/T-7217RR	.	.	18	.	.	30	1	124
EXCEL/8173RR	.	.	18	.	.	28	1	122
KRUGER/222A	.	.	17	.	.	28	1	121
MUSTANG/M-174RR	.	.	16	.	.	22	1	118
DYNA-GRO/DG 31C15RR	.	.	15	.	.	25	1	116
DYNA-GRO/DG 3190RR	.	.	15	.	.	25	1	124
KRUGER/171ARR	.	.	15	.	.	25	1	118
NORTHSTAR/NS 1624RR	.	.	14	.	.	28	1	118
Test average:	38	31	22	33.1	20.2	27	1	118
LSD(5%) value (\$):	NS	NS	5					
Min.top yield value (\$):	36	26	25					
Coef. of variation (#):	8	11	15					

\$/+ See yield / protein and oil sections, respectively.

~ Lodging: 1= all plants erect, 3= some at 45 degrees, 5= all plants flat.

NS - Indicates differences between values within a column are not significant.

Measure of experimental error: values of < 15% are desired.

Table 12. Yale, maturity group II Roundup Ready™ soybean test results, 2001-2003. Kim Tschetter Farm, seeded May 22.

Brand / Entry	Yield - bu/a (13% moisture)			2002	2002	Ht. in.	Ldg. Sc.~	2003
	3yr	2yr	2003	Prot. pct+	Oil pct+			Maturity: Days after seeding
	----- 2003 -----							
	Entries tested one year							
PRAIRIE BR./PB-2243RR	.	.	32	.	.	24	1	123
MUSTANG/M-203RR	.	.	30	.	.	26	1	120
DEKALB/DKB22-51	.	.	30	.	.	26	1	122
MIDWEST SEED/GR2037	.	.	27	.	.	24	1	118
MUSTANG/M-201RR	.	.	26	.	.	23	1	120
PRAIRIE BR./PB-2343RR	.	.	25	.	.	26	1	124
TOP FARM/EXP321044RR	.	.	24	.	.	25	1	121
DYNA-GRO/DG 3200RR	.	.	24	.	.	23	1	121
STINE/S2116-4	.	.	24	.	.	24	1	120
PRAIRIE BR./PB-2141RR	.	.	22	.	.	25	1	121
MUSTANG/M-234RR	.	.	22	.	.	26	1	121
PRAIRIE BR./PB-2397RR	.	.	21	.	.	29	1	124
PRAIRIE BR./PB-2352RR	.	.	21	.	.	27	1	121
DYNA-GRO/DG 3218RR	.	.	21	.	.	29	1	122
ASGROW/AG2403	.	.	21	.	.	25	1	124
PRAIRIE BR./PB-2421RR	.	.	21	.	.	26	1	123
DEN BESTEN/DB2303RR	.	.	21	.	.	27	1	126
WENSMAN/W 2211RR	.	.	21	.	.	26	1	120
DYNA-GRO/DG 3223RR	.	.	20	.	.	27	1	125
ASGROW/AG2302	.	.	20	.	.	26	1	119
ASGROW/AG2107	.	.	20	.	.	27	1	119
DYNA-GRO/DG 3232RR	.	.	18	.	.	29	1	124
MUSTANG/M-224RR	.	.	15	.	.	24	1	125
Test average:	.	.	23	.	.	27	1	121
LSD(5%) value (\$):	.	.	4					
Min.top yield value (\$):	.	.	28					
Coef. of variation (#):	.	.	11					

\$/+ See yield / protein and oil sections, respectively.

~ Lodging: 1= all plants erect, 3= some at 45 degrees, 5= all plants flat.

Measure of experimental error: values of < 15% are desired..

Table 13. Brookings, maturity group 0 Roundup Ready™ soybean test results, 2001-2003. SDSU Agronomy Farm, seeded May 20.

Brand / Entry	Yield - bu/a (13% moisture)			2002	2002	Ht. in.	Ldg. Sc.~	2003	Maturity: Days after seeding
	3yr	2yr	2003	Prot. pct+	Oil pct+			-----	
----- 2003 -----									
Entries tested three years									
KRUGER/121+RR	46	47	42	37.1	18.5	33	1	116	
NORTHSTAR/NS 0954RR	44	45	44	37.0	18.1	28	1	117	
DEKALB/DKB10-51	43	44	44	37.8	17.7	33	1	119	
KRUGER/099+RR	42	43	41	38.1	18.6	28	1	114	
MUSTANG/M-091RR	42	43	43	38.2	18.4	28	1	114	
DEN BESTEN/DB0900RR	41	41	42	38.8	17.9	28	1	114	
SODAK GENETICS/SD1091R	39	41	37	39.1	17.7	32	1	117	
Entries tested two years									
MUSTANG/M-083RR	.	44	44	38.2	18.5	32	1	118	
PRAIRIE BR./PB-0812RR	.	44	44	38.8	18.0	32	1	117	
SODAK GENETICS/SD1081R	.	44	40	38.5	17.2	32	1	118	
TOP FARM/6102RR	.	42	43	37.6	18.3	31	1	115	
KRUGER/090RR	.	42	43	39.0	18.3	32	1	116	
MUSTANG/M-092RR	.	42	39	38.4	18.1	30	1	116	
BIO GENE/BG091RR	.	39	36	36.9	17.6	32	1	114	
TOP FARM/6072RR	.	36	35	38.7	17.7	27	1	115	
Entries tested one year									
KRUGER/101RR	.	.	46	.	.	29	1	119	
KRUGER/091-1RR	.	.	46	.	.	30	1	118	
LATHAM/EXP-E0710R	.	.	45	.	.	31	1	114	
LATHAM/EXP-E0830R	.	.	45	.	.	29	1	115	
PETERSON/PFS 0408RR	.	.	43	.	.	26	1	116	
WENSMAN/W 2103RR	.	.	43	.	.	29	1	117	
KRUGER/121ARR	.	.	43	.	.	32	1	117	
GARST/0901RR	.	.	43	.	.	33	1	115	
PRAIRIE BR./PB-1043RR	.	.	42	.	.	30	1	117	
KRUGER/091RR	.	.	42	.	.	31	1	117	
DEKALB/DKB07-52	.	.	42	.	.	31	1	111	
PRAIRIE BR./PB-1063RR	.	.	41	.	.	30	1	117	
PRAIRIE BR./PB-0923RR	.	.	41	.	.	30	1	119	
ZILLER/BT 7084R	.	.	41	.	.	28	1	115	
SANDS/SOI 0931RR	.	.	41	.	.	29	1	117	

Table 13. Brookings, maturity group 0 Roundup Ready™ test results (continued).

Brand / Entry	Yield - bu/a (13% moisture)			2002	2002	Ht. in.	Ldg. Sc.~	----- 2003 -----
	3yr	2yr	2003	Prot. pct+	Oil pct+			Maturity: Days after seeding
	----- Entries tested one year -----							
DESOY/090RR	.	.	40	.	.	31	1	117
MUSTANG/M-094RR	.	.	40	.	.	31	1	117
PETERSON/EXP 0307RR	.	.	39	.	.	30	1	114
LATHAM/L0930R	.	.	39	.	.	31	1	117
NORTHSTAR/NS 0923RR	.	.	38	.	.	29	1	115
DAIRYLAND/DSR-075/RR	.	.	38	.	.	28	1	113
SANDS/SOI 1050RR	.	.	38	.	.	31	1	118
KRUGER/100RR	.	.	37	.	.	32	1	118
LATHAM/EXP-E0835R	.	.	37	.	.	28	1	114
Test average:	42	43	41	38.1	18.0	31	1	116
LSD(5%) value (\$):	NS	NS	5					
Min.top yield value (\$):	39	36	41					
Coef. of variation (#):	7	8	7					

\$/+ See yield / protein and oil sections, respectively.

~ Lodging: 1= all plants erect, 3= some at 45 degrees, 5= all plants flat.

NS - Indicates differences between values within a column are not significant.

Measure of experimental error: values of < 15% are desired.

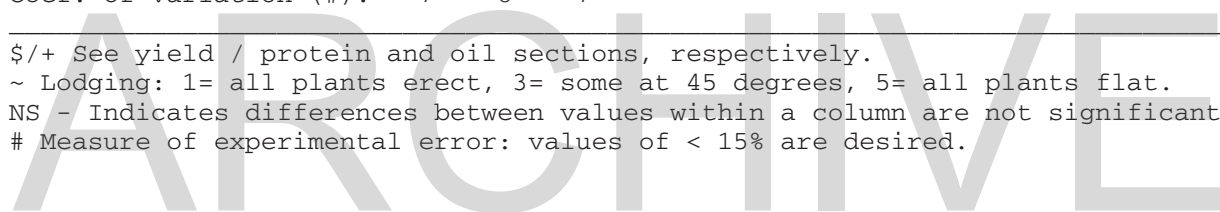


Table 14. Brookings, maturity group I Roundup Ready™ soybean test results, 2001-2003. SDSU Agronomy Farm, seeded May 20.

Brand / Entry	Yield - bu/a (13% moisture)			2002	2002	Ht. in.	Ldg. Sc.~	----- 2003 ----- Maturity: Days after seeding
	3yr	2yr	2003	Prot. pct+	Oil pct+			

	Entries tested three years							
KRUGER/223+RR	52	54	51	34.8	18.7	29	1	129
DEN BESTEN/DB1902RR	50	52	50	34.7	18.2	28	1	127
THOMPSON/T-7205RR	49	52	47	34.7	18.3	30	1	128
THOMPSON/T-7217RR	48	49	43	36.1	18.2	34	1	131
KRUGER/222+RR	46	47	38	37.1	17.5	33	1	128
ZILLER/BT 7150R	46	48	47	34.5	18.3	34	2	123
HY-VIGOR/H-174RR	46	46	42	37.2	16.8	30	1	122
PRAIRIE BR./PB-1620RR	44	45	39	35.4	17.8	33	2	119
NORTHSTAR/NS 1624RR	44	46	42	35.5	17.6	34	1	127
PRAIRIE BR./PB-1241RR	43	43	39	37.2	18.4	29	1	115
SANDS/SOI 1515RR	43	44	40	38.5	17.4	33	1	120
MUSTANG/M-151RR	43	45	40	34.3	17.7	35	1	121
COYOTE/9419RR	40	41	36	37.3	18.0	36	1	127

	Entries tested two years							
DESOY/191+RR	.	52	48	33.8	19.5	29	1	125
STINE/S1918-4	.	51	46	34.9	18.6	29	1	127
KALTENBERG/KB153RR	.	50	51	37.4	17.6	30	1	122
DESOY/191RR	.	50	44	36.0	18.0	34	1	130
KRUGER/202+RR	.	50	47	34.2	18.6	29	1	129
MUSTANG/M-153RR	.	49	43	36.4	17.6	30	1	121
DAIRYLAND/DSR-199/RR	.	49	44	36.7	17.9	34	1	129
EXCEL/8193RR	.	48	45	36.0	18.1	33	1	130
ZILLER/BT 7193R	.	48	44	36.1	17.8	32	1	131
PRAIRIE BR./PB-2112RR	.	48	44	35.3	18.2	30	1	129
MUSTANG/M-163RR	.	47	47	37.7	17.2	34	1	125
PRAIRIE BR./PB-1552RR	.	47	47	35.6	18.2	29	1	123
KRUGER/211+RR	.	47	45	35.0	18.4	30	1	129
DAIRYLAND/DSR-155/RR	.	47	45	37.3	18.1	32	1	122
GOLD COUNTRY/1319RR	.	47	43	36.6	17.9	33	1	130
DYNA-GRO/DG 33M14RR	.	47	46	37.4	18.0	34	1	120
PRAIRIE BR./PB-1921RR	.	47	44	35.8	17.6	32	1	129
PRAIRIE BR./PB-1452RR	.	46	42	37.2	18.5	33	1	118
KALTENBERG/KB172RR	.	46	41	36.2	18.3	32	1	125
ASGROW/AG1701	.	46	43	37.0	17.8	31	1	122

Table 14. Brookings, maturity group I Roundup Ready™ test results (continued).

Brand / Entry	Yield - bu/a (13% moisture)			2002	2002	Ht. in.	Ldg. Sc.~	----- 2003 ----- Maturity: Days after seeding
	3yr	2yr	2003	Prot. pct+	Oil pct+			

	Entries tested two years							
WENSMAN/W 2145RR	.	45	42	37.4	18.4	34	1	117
MUSTANG/M-101RR	.	45	48	37.3	17.9	29	1	119
RENK/RS199RR	.	45	38	34.3	19.4	35	2	127
CROWS/C1630R	.	44	43	35.3	17.5	33	2	125
NORTHSTAR/NS 1407RR	.	44	43	37.7	18.1	33	1	119

KALTENBERG/KB161RR	.	44	38	35.2	18.1	36	1	119
DEN BESTEN/DB1303RR	.	44	46	37.9	17.9	33	1	119
WENSMAN/W 2186RR	.	43	41	36.9	18.1	30	1	127
WENSMAN/W 2162RR	.	43	42	37.7	17.1	27	1	123
RENK/RS172RR	.	41	39	38.0	17.5	31	1	125

	Entries tested one year							
DYNA-GRO/DG 31C15RR	.	.	48	.	.	27	1	123
SABRE/195RR	.	.	48	.	.	32	2	129
PRAIRIE BR./PB-1943RR	.	.	47	.	.	29	1	130
PETERSON/PFS 0410RR	.	.	47	.	.	29	1	121
DESOY/161RR/SCN	.	.	47	.	.	29	1	123

TOP FARM/EXP34043BRR	.	.	46	.	.	35	1	120
THOMPSON/EXP7213RR	.	.	46	.	.	37	1	131
ASGROW/AG2106	.	.	45	.	.	31	1	129
KRUGER/223RR	.	.	45	.	.	29	1	130
SANDS/EXP 1751RR	.	.	45	.	.	28	1	121

MUSTANG/M-124RR	.	.	44	.	.	31	1	117
LATHAM/367RR	.	.	44	.	.	33	1	130
LATHAM/EXP-E1030R	.	.	44	.	.	30	1	121
MUSTANG/M-174RR	.	.	44	.	.	29	1	124
TOP FARM/EXP35260RR	.	.	43	.	.	32	1	126

DYNA-GRO/DG 3190RR	.	.	43	.	.	33	1	132
LATHAM/EXP-E1800R	.	.	43	.	.	34	1	129
KRUGER/222A	.	.	42	.	.	31	1	132
DESOY/194RR	.	.	42	.	.	31	2	130
EXCEL/8173RR	.	.	42	.	.	30	2	132

SANDS/SOI 1441RR	.	.	42	.	.	33	1	119
LATHAM/148RR	.	.	42	.	.	32	1	117
DAIRYLAND/DSR-101/RR	.	.	42	.	.	31	1	119
KRUGER/171RR	.	.	42	.	.	31	1	123
DEKALB/DKB19-52	.	.	41	.	.	31	1	127

Table 14. Brookings, maturity group I Roundup Ready™ test results (continued).

Brand / Entry	Yield - bu/a (13% moisture)			2002 Prot. pct+	2002 Oil pct+	Ht. in.	Ldg. Sc.~	----- 2003 -----
	3yr	2yr	2003					Maturity: Days after seeding
	----- Entries tested one year -----							
ZILLER/BT 7143R	.	.	41	.	.	32	1	119
NORTHSTAR/NS 1207RR	.	.	40	.	.	31	1	117
LATHAM/EXP-E1750R	.	.	40	.	.	30	1	122
MUSTANG/M-194NRR	.	.	40	.	.	32	1	124
KRUGER/171ARR	.	.	40	.	.	29	1	125
DYNA-GRO/DG 38J12RR	.	.	39	.	.	32	1	117
GARST/XR18P04	.	.	38	.	.	32	1	127
PUBLIC/SD00-236R	.	.	37	.	.	34	2	120
HY-VIGOR/199XRR	.	.	36	.	.	36	1	127
SANDS/SOI 1730RR	.	.	34	.	.	31	1	122
Test average:	45	46	43	36.3	18.0	32	1	124
LSD(5%) value (\$):	4	6	7					
Min.top yield value (\$):	48	48	44					
Coef. of variation (#):	10	10	10					

\$/+ See yield / protein and oil sections, respectively.

~ Lodging: 1= all plants erect, 3= some at 45 degrees, 5= all plants flat.

Measure of experimental error: values of < 15% are desired.

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Table 15. Brookings, maturity group II Roundup Ready™ soybean test results, 2001-2003. SDSU Agronomy Farm, seeded May 20.

Brand / Entry	Yield - bu/a (13% moisture)			2002	2002	Ht. in.	Ldg. Sc.~	----- 2003 ----- Maturity: Days after seeding
	3yr	2yr	2003	Prot. pct+	Oil pct+			

Entries tested three years								
MUSTANG/M-201RR	52	54	48	35.0	18.3	31	1	130
KRUGER/262-2RR	51	54	46	35.6	18.8	33	1	132
PRAIRIE BR./PB-2141RR	51	56	49	34.3	18.9	28	1	129
ASGROW/AG2302	50	52	42	36.2	18.4	33	1	127
KRUGER/250RR	49	51	43	36.3	18.3	35	2	133
PRAIRIE BR./PB-2397RR	49	53	46	37.3	17.7	36	2	138
DYNA-GRO/DG 3223RR	46	49	42	36.7	17.9	35	2	132

Entries tested two years								
SANDS/SOI 2143RR	.	57	51	35.3	18.4	31	1	128
LATHAM/L2136R	.	57	48	35.3	18.1	30	1	129
MUSTANG/M-203RR	.	56	51	35.8	18.2	30	1	130
GOLD COUNTRY/6221RR	.	55	46	36.0	17.7	30	1	130
MUSTANG/M-243RR	.	54	48	34.5	18.8	32	1	133
MIDWEST SEED/GR2037	.	54	49	36.5	17.6	31	1	130
CROWS/C2130R	.	54	46	36.0	18.5	31	1	130
PRAIRIE BR./PB-2552RR	.	54	48	37.8	16.6	34	1	134
KRUGER/268RR	.	54	45	34.3	18.9	31	1	132
KRUGER/269RR	.	54	47	37.3	17.2	34	1	135
THOMPSON/T-7225RR	.	54	43	36.9	17.9	34	1	130
KRUGER/211RR	.	53	44	36.0	17.8	31	1	129
DEKALB/DKB22-51	.	53	43	36.0	18.0	31	1	131
LATHAM/678RR	.	52	41	37.0	17.3	33	1	133
PRAIRIE BR./PB-2352RR	.	52	46	33.7	18.6	36	1	129
EXCEL/8200RR	.	51	42	36.1	18.2	33	1	132
RENK/RS212RR	.	51	45	34.6	18.0	33	1	130
DEN BESTEN/DB2303RR	.	50	42	36.6	17.8	32	1	138
PRAIRIE BR./PB-2421RR	.	50	41	35.7	18.2	31	2	132
DYNA-GRO/DG 3200RR	.	48	36	35.6	17.7	30	1	133

Entries tested one year								
SABRE/215RR	.	.	50	.	.	30	1	128
PRAIRIE BR./PB-2343RR	.	.	50	.	.	34	1	134
RENK/RS223RR	.	.	49	.	.	32	1	130
SANDS/SOI 2141ARR	.	.	49	.	.	31	1	130
WENSMAN/W 2211RR	.	.	49	.	.	30	1	130
STINE/S2400-4	.	.	48	.	.	33	1	135
TOP FARM/EXP321044RR	.	.	47	.	.	32	1	130

Table 15. Brookings, maturity group II Roundup Ready™ test results (continued).

Brand / Entry	Yield - bu/a (13% moisture)			2002 Prot. pct+	2002 Oil pct+	Ht. in.	----- 2003 ----- Maturity: Days after seeding	
	3yr	2yr	2003				Ldg. Sc.~	
	----- Entries tested one year -----							
KRUGER/233+RR	.	.	47	.	.	31	1	133
DAIRYLAND/DSR-234/RR	.	.	47	.	.	30	1	133
COYOTE/9524RR	.	.	47	.	.	31	1	132
LATHAM/EXP-E2350R	.	.	46	.	.	34	1	136
MUSTANG/M-234RR	.	.	46	.	.	29	1	133
MUSTANG/M-224RR	.	.	46	.	.	33	2	132
KRUGER/230RR	.	.	46	.	.	33	1	131
JACOBSEN/EXP J733R	.	.	45	.	.	33	1	131
PRAIRIE BR./PB-2243RR	.	.	45	.	.	33	1	130
STINE/S2116-4	.	.	44	.	.	27	1	132
LATHAM/EXP-E2336R	.	.	44	.	.	30	1	132
PRAIRIE BR./PB-2443RR	.	.	44	.	.	30	2	133
THOMPSON/T-7252RR	.	.	43	.	.	32	1	133
JACOBSEN/EXP J730NR	.	.	43	.	.	33	1	128
DYNA-GRO/DG 3218RR	.	.	43	.	.	34	1	135
DESOY/260RR	.	.	43	.	.	35	1	133
DYNA-GRO/DG 3232RR	.	.	43	.	.	34	2	135
KRUGER/270RR	.	.	42	.	.	35	2	138
THOMPSON/EXP7259RR	.	.	42	.	.	33	2	137
THOMPSON/EXP7239RR	.	.	42	.	.	31	1	130
ASGROW/AG2107	.	.	42	.	.	32	1	127
EXCEL/8227RR	.	.	41	.	.	31	1	131
COYOTE/EXP721RR	.	.	40	.	.	31	1	129
THOMPSON/T-7243RR	.	.	40	.	.	35	2	132
KRUGER/252RR	.	.	40	.	.	34	1	134
KRUGER/251RR	.	.	39	.	.	36	1	137
THOMPSON/EXP7221RR	.	.	38	.	.	32	1	127
Test average:	49	52	44	36.0	18.1	33	1	131
LSD(5%) value (\$):	4	5	7					
Min.top yield value (\$):	48	52	44					
Coef. of variation (#):	8	8	10					

\$/+ See yield / protein and oil sections, respectively.

~ Lodging: 1= all plants erect, 3= some at 45 degrees, 5= all plants flat.

Measure of experimental error: values of < 15% are desired.

Table 16. Beresford, maturity group I Roundup Ready™ soybean test results, 2001-2003. S.E. Research Farm, seeded May 21.

Brand / Entry	Yield - bu/a (13% moisture)			2002	2002	Ht. in.	Ldg. Sc.~	Maturity: Days after seeding
	3yr	2yr	2003	Prot. pct+	Oil pct+			
----- 2003 -----								
Entries tested three years								
THOMPSON/T-7205RR	56	55	54	35.3	18.8	31	1	123
DEN BESTEN/DB1902RR	55	55	53	34.6	18.8	30	1	123
KRUGER/199+RR	54	53	50	35.5	18.9	31	1	122
KRUGER/223+RR	54	51	50	35.4	18.9	31	1	124
LATHAM/418RR	52	49	49	36.7	18.5	34	1	122
Entries tested two years								
DESOY/191+RR	.	56	53	33.9	19.4	28	1	120
STINE/S1918-4	.	56	56	36.2	18.4	34	1	123
KRUGER/202+RR	.	55	54	34.6	19.1	30	1	123
THOMPSON/T-7214RR	.	55	51	36.5	18.2	30	1	122
MERSCHMAN/MARS VIIRR	.	53	53	36.6	18.2	31	1	123
KRUGER/211+RR	.	52	52	35.8	18.5	32	1	122
PRAIRIE BR./PB-2112RR	.	51	53	36.0	18.1	32	1	122
KRUGER/191RR	.	50	48	34.6	18.9	33	1	123
KRUGER/222+RR	.	50	48	37.3	18.0	35	1	124
DAIRYLAND/DSR-199/RR	.	50	47	36.1	18.5	33	1	122
ZILLER/BT 7193R	.	48	45	35.9	19.1	33	1	123
MERSCHMAN/VENUS RR	.	47	44	37.2	19.1	34	1	123
Entries tested one year								
KRUGER/223RR	.	.	52	.	.	30	1	122
PRAIRIE BR./PB-1943RR	.	.	51	.	.	30	1	123
LATHAM/EXP-E1800R	.	.	50	.	.	36	2	122
LATHAM/EXP-E1750R	.	.	49	.	.	30	1	122
THOMPSON/EXP7213RR	.	.	49	.	.	36	1	123
BIO GENE/BG1700RR	.	.	47	.	.	31	1	120
DEKALB/DKB19-52	.	.	47	.	.	31	1	118
KRUGER/222A	.	.	45	.	.	36	1	125
DAIRYLAND/DSR-101/RR	.	.	44	.	.	32	1	111
Test average:	54	52	49	35.8	18.7	33	1	121
LSD(5%) value (\$):	NS	5	5					
Min.top yield value (\$):	52	51	51					
Coef. of variation (#):	6	7	6					

\$/+ See yield / protein and oil sections, respectively.

~ Lodging: 1= all plants erect, 3= some at 45 degrees, 5= all plants flat.

NS - Indicates differences between values within a column are not significant.

Measure of experimental error: values of < 15% are desired.

Table 17. Beresford, maturity group II Roundup Ready™ soybean test results, 2001-2003. S.E. Research Farm, seeded May 21.

Brand / Entry	Yield - bu/a (13% moisture)			2002	2002	Ht. in.	Ldg. Sc.~	----- 2003 -----
	3yr	2yr	2003	Prot. pct+	Oil pct+			Maturity: Days after seeding
----- 2003 -----								
Entries tested three years								
PRAIRIE BR./PB-2421RR	54	53	52	36.1	19.0	33	1	123
LATHAM/497RR	54	50	51	35.0	18.9	30	1	123
MUSTANG/M-201RR	53	51	47	35.9	18.7	29	1	123
PRAIRIE BR./PB-2397RR	52	50	45	35.8	18.8	38	1	123
LATHAM/647RR	52	50	49	35.5	19.3	31	1	123
KRUGER/262-2RR	51	49	44	35.6	19.4	31	1	120
SANDS/SOI 226RR	51	49	52	36.3	18.2	38	2	125
PRAIRIE BR./PB-2821RR	51	50	46	36.6	19.1	38	2	127
DEN BESTEN/DB2601RR	51	45	45	36.2	18.1	35	1	126
ASGROW/AG2302	50	48	47	35.9	19.0	34	1	122
DAIRYLAND/DSR-221/RR	49	46	44	35.9	19.0	23	1	123
DEKALB/DKB26-52	49	46	42	37.2	18.7	41	3	127
KRUGER/269RR	49	44	42	37.9	18.0	33	1	126
KRUGER/250RR	49	46	44	36.5	18.5	36	1	125
KALTENBERG/KB261RR	47	45	39	37.4	18.6	41	3	127
COYOTE/9626RR	46	45	44	36.4	17.8	34	1	126
----- 2003 -----								
Entries tested two years								
COYOTE/9524RR	.	54	52	33.7	19.6	35	1	125
MIDWEST SEED/GR2037	.	52	51	35.1	18.9	31	1	122
SANDS/SOI 2143RR	.	52	54	35.0	18.9	32	1	123
KRUGER/211RR	.	51	51	35.8	18.6	30	1	122
KRUGER/270RR	.	51	49	36.6	18.6	35	3	128
PRAIRIE BR./PB-2832RR	.	51	45	36.4	18.6	30	1	130
DEKALB/DKB25-51	.	51	49	34.2	19.5	34	1	124
SANDS/SOI 2642NRR	.	50	48	36.5	18.5	39	3	127
LATHAM/457RR	.	49	44	36.5	19.0	37	1	125
RENK/RS212RR	.	49	47	35.5	18.7	33	1	122
MUSTANG/M-243RR	.	49	46	34.5	18.9	33	1	124
MERSCHMAN/SIOUX IIRR	.	49	46	38.6	17.9	30	1	128
DYNA-GRO/DG 38K28RR	.	49	44	36.3	18.4	38	3	129
SANDS/SOI 2872RR	.	48	45	36.4	18.3	40	2	128
MUSTANG/M-203RR	.	48	51	36.3	18.3	30	1	121

Table 17. Beresford, maturity group II Roundup Ready™ test results (continued).

Brand / Entry	Yield - bu/a (13% moisture)			2002 Prot. pct+	2002 Oil pct+	Ht. in.	Ldg. Sc.~	----- 2003 -----
	3yr	2yr	2003					Maturity: Days after seeding
	Entries tested two years							
PRAIRIE BR./PB-2352RR	.	47	45	35.5	18.7	34	1	123
DYNA-GRO/DG 3200RR	.	47	46	36.2	18.4	28	1	124
MERSCHMAN/APACHE VIIIR	.	46	43	37.1	18.1	33	1	127
PRAIRIE BR./PB-2552RR	.	44	42	36.9	18.0	33	1	126
DEN BESTEN/DB2303RR	.	44	44	36.7	18.3	32	1	127
DEN BESTEN/DB2803RR	.	43	39	35.1	18.8	35	2	127
COYOTE/9728RR	.	43	37	35.1	19.1	36	1	126
DEN BESTEN/DB2503RR	.	43	37	37.1	17.7	33	1	126
MUSTANG/M-273RR	.	39	34	35.4	18.9	38	2	126
	Entries tested one year							
LATHAM/L2136R	.	.	56	.	.	31	1	123
PRAIRIE BR./PB-2243RR	.	.	54	.	.	33	1	122
STINE/S2116-4	.	.	53	.	.	29	1	123
JACOBSEN/EXP J733R	.	.	52	.	.	30	1	123
PRAIRIE BR./PB-2643RR	.	.	51	.	.	36	1	130
SANDS/SOI 2141ARR	.	.	51	.	.	31	1	121
HY-VIGOR/H-223RR	.	.	50	.	.	33	1	124
ASGROW/AG2403	.	.	50	.	.	30	1	125
KRUGER/251RR	.	.	49	.	.	39	3	127
MERSCHMAN/MUNSEE IVRR	.	.	49	.	.	29	1	123
RENK/RS223RR	.	.	49	.	.	31	1	122
RENK/RS253RR	.	.	49	.	.	34	1	129
PRAIRIE BR./PB-2732RR	.	.	48	.	.	32	1	127
SABRE/282RR	.	.	48	.	.	38	4	127
MUSTANG/M-284RR	.	.	48	.	.	32	1	129
SANDS/SOI 2749RR	.	.	48	.	.	31	1	126
LATHAM/EXP-E2300R	.	.	48	.	.	32	1	124
LATHAM/EXP-E2145R	.	.	48	.	.	36	1	125
KALTENBERG/KB275RR	.	.	48	.	.	37	2	127
COYOTE/EXP527RR	.	.	47	.	.	34	2	130
PRAIRIE BR./PB-2343RR	.	.	47	.	.	33	2	125
GARST/2834RR	.	.	46	.	.	33	1	129
KALTENBERG/KB244RR	.	.	46	.	.	34	1	126
JACOBSEN/J828R	.	.	46	.	.	37	2	129
KRUGER/230RR	.	.	46	.	.	32	1	123

Table 17. Beresford, maturity group II Roundup Ready™ test results (continued).

Brand / Entry	Yield - bu/a (13% moisture)			2002 Prot. pct+	2002 Oil pct+	Ht. in.	Ldg. Sc.~	----- 2003 -----
	3yr	2yr	2003					Maturity: Days after seeding

				Entries tested one year				
EXCEL/8236NRR	.	.	46	.	.	31	1	124
DYNA-GRO/DG 3218RR	.	.	46	.	.	36	1	124
KRUGER/289+RR	.	.	46	.	.	36	1	129
THOMPSON/T-7284RR	.	.	46	.	.	38	3	128
DAIRYLAND/DSR-234/RR	.	.	46	.	.	31	1	124
EXCEL/8226RR	.	.	45	.	.	33	1	124
STINE/S2400-4	.	.	45	.	.	32	1	123
THOMPSON/EXP7239RR	.	.	45	.	.	32	1	124
SANDS/SOI 2353RR	.	.	45	.	.	35	1	124
DESOY/270ARR	.	.	45	.	.	39	2	127
GOLD COUNTRY/2424RR	.	.	45	.	.	33	1	123
SABRE/238RR	.	.	45	.	.	36	1	125
HY-VIGOR/2R44	.	.	45	.	.	33	1	127
SANDS/SOI 2541RR	.	.	45	.	.	36	2	127
LATHAM/EXP-E2530R	.	.	45	.	.	38	2	127
DYNA-GRO/DG 3223RR	.	.	45	.	.	32	1	124
MIDWEST SEED/GR2627	.	.	44	.	.	35	1	128
ZILLER/BT 7213R	.	.	44	.	.	32	1	121
DYNA-GRO/DG 3232RR	.	.	44	.	.	35	1	128
COYOTE/EXP625RR	.	.	44	.	.	33	1	128
ASGROW/AG2801	.	.	44	.	.	33	2	130
SANDS/SOI 2501RR	.	.	44	.	.	34	1	124
THOMPSON/T-7293RR	.	.	43	.	.	31	1	128
CROWS/C2506R	.	.	43	.	.	33	1	126
DEKALB/DKB28-52	.	.	43	.	.	36	2	128
MUSTANG/M-234RR	.	.	43	.	.	34	1	123
THOMPSON/T-7252RR	.	.	43	.	.	31	1	126
HY-VIGOR/EXP-2R55	.	.	42	.	.	35	1	128
SANDS/EXP 2856NRR	.	.	42	.	.	37	3	130
THOMPSON/EXP7259RR	.	.	42	.	.	37	3	125
JACOBSEN/EXP J839R	.	.	42	.	.	31	1	128
SANDS/SOI 2858NRR	.	.	42	.	.	36	1	130
DESOY/260RR	.	.	42	.	.	36	1	126
JACOBSEN/J725R	.	.	42	.	.	34	2	126
KRUGER/292RR	.	.	41	.	.	31	1	127

Table 17. Beresford, maturity group II Roundup Ready™ test results (continued).

Brand / Entry	Yield - bu/a (13% moisture)			2002 Prot. pct+	2002 Oil pct+	Ht. in.	----- 2003 -----	
	3yr	2yr	2003				Ldg. Sc.~	Maturity: Days after seeding
	----- Entries tested one year -----							
EXCEL/8237RR	.	.	41	.	.	34	2	124
MUSTANG/M-253RR	.	.	41	.	.	34	1	127
DYNA-GRO/DG 3263RR	.	.	41	.	.	38	1	127
DAIRYLAND/DSR-245/RR	.	.	41	.	.	34	1	127
STINE/S2640-4	.	.	40	.	.	33	1	127
LATHAM/EXP-E2200R	.	.	40	.	.	36	2	124
MERSCHMAN/CHICKASAW 8R	.	.	39	.	.	35	1	130
LATHAM/EXP-E2780R	.	.	39	.	.	35	1	127
MERSCHMAN/MOHAWK RR	.	.	39	.	.	32	1	123
THOMPSON/T-7243RR	.	.	39	.	.	34	2	124
MUSTANG/M-224RR	.	.	39	.	.	33	1	123
EXCEL/8258RR	.	.	38	.	.	36	1	125
THOMPSON/EXP7221RR	.	.	38	.	.	34	1	118
KRUGER/252RR	.	.	37	.	.	44	1	123
GARST/2903RR	.	.	37	.	.	39	1	129
HY-VIGOR/2720NR	.	.	35	.	.	35	1	126
Test average:	50	47	45	36.0	18.7	34	1	125
LSD(5%) value (\$):	5	7	5					
Min.top yield value (\$):	49	47	51					
Coef. of variation (#):	8	8	8					

\$/+ See yield / protein and oil sections, respectively.

~ Lodging: 1= all plants erect, 3= some at 45 degrees, 5= all plants flat.

Measure of experimental error: values of < 15% are desired.

Table 18. Armour, maturity group I Roundup Ready™ soybean test results, 2001-2003. Mark and Cletus Wiechmann farm, seeded May 29.

Brand / Entry	Yield - bu/a (13% moisture)			2002 Prot.	2002 Oil	Ht.	Ldg.	Maturity: Days after seeding
	3yr	2yr	2003	pct+	pct+	in.	Sc.~	
----- 2003 -----								
Entries tested three years								
DEN BESTEN/DB1902RR	38	34	28	34.1	19.8	21	1	117
KRUGER/223+RR	37	31	19	35.4	19.1	21	1	120
Entries tested two years								
KRUGER/191RR	.	35	25	34.5	19.4	24	1	121
PRAIRIE BR./PB-2112RR	.	34	25	35.5	18.4	21	1	117
KRUGER/211+RR	.	32	24	36.0	18.5	22	1	119
KRUGER/222+RR	.	32	17	36.8	18.8	23	1	118
KRUGER/202+RR	.	30	23	34.2	19.6	21	1	117
TOP FARM/6202RR	.	30	19	36.9	18.6	23	1	115
DAIRYLAND/DSR-199/RR	.	29	18	35.9	18.7	25	1	117
Entries tested one year								
DEKALB/DKB19-52	.	.	23	.	.	21	1	120
PRAIRIE BR./PB-1943RR	.	.	22	.	.	22	1	118
KRUGER/222A	.	.	21	.	.	23	1	121
KRUGER/223RR	.	.	19	.	.	20	1	114
TOP FARM/EXP35260RR	.	.	18	.	.	22	1	116
BIO GENE/BG1700RR	.	.	12	.	.	21	1	116
Test average:	38	32	20	35.5	19.0	22	1	117
LSD(5%) value (\$):	NS	NS	4					
Min.top yield value (\$):	37	29	24					
Coef. of variation (#):	15	14	12					

\$/+ See yield / protein and oil sections, respectively.

~ Lodging: 1= all plants erect, 3= some at 45 degrees, 5= all plants flat.

NS - Indicates differences between values within a column are not significant.

Measure of experimental error: values of < 15% are desired.

Table 19. Armour, maturity group II Roundup Ready™ soybean test results, 2001-2003. Mark and Cletus Wiechmann farm, seeded May 29.

Brand / Entry	Yield - bu/a (13% moisture)			2002	2002	Ht. in.	Ldg. Sc.~	----- 2003 ----- Maturity: Days after seeding
	3yr	2yr	2003	Prot. pct+	Oil pct+			

	Entries tested three years							
ASGROW/AG2302	41	40	33	35.4	19.6	27	1	118
PRAIRIE BR./PB-2141RR	40	39	29	35.2	19.4	22	1	122
KRUGER/250RR	40	35	24	35.0	19.2	27	1	119
LATHAM/457RR	39	36	27	34.8	19.8	25	1	120
DEN BESTEN/DB2601RR	39	35	28	32.9	19.9	27	1	123
PRAIRIE BR./PB-2821RR	38	34	27	34.0	19.3	27	1	123
SANDS/SOI 226RR	36	31	24	34.6	19.9	30	1	116
COYOTE/9626RR	36	32	25	34.6	19.0	29	1	123
PRAIRIE BR./PB-2397RR	36	32	28	35.1	19.7	27	1	119
PRAIRIE BR./PB-2421RR	36	30	22	35.1	20.0	23	1	120
KRUGER/262-2RR	33	30	23	34.2	19.8	23	1	119

	Entries tested two years							
DEKALB/DKB25-51	.	40	35	33.7	20.3	27	1	123
MIDWEST SEED/GR2037	.	40	33	35.2	18.7	24	1	119
THOMPSON/T-7254RR	.	39	27	33.9	19.8	26	1	120
KRUGER/211RR	.	39	34	34.4	18.9	23	1	119
KRUGER/268RR	.	38	29	33.4	20.1	23	1	123
KRUGER/270RR	.	37	21	34.2	19.4	28	1	123
KRUGER/269RR	.	37	32	36.0	18.6	27	1	122
SANDS/SOI 2872RR	.	37	27	34.2	19.7	32	1	122
KALTENBERG/KB241RR	.	36	30	35.5	18.5	23	1	121
DEN BESTEN/DB2803RR	.	35	27	33.5	19.7	28	1	124
DEN BESTEN/DB2503RR	.	35	21	35.6	19.3	23	1	123
PRAIRIE BR./PB-2352RR	.	35	26	33.2	19.8	27	1	119
THOMPSON/T-7262RR	.	35	25	33.4	19.7	23	1	122
SANDS/SOI 2541RR	.	33	23	35.3	18.9	30	1	121
MUSTANG/M-203RR	.	33	23	35.7	19.0	23	1	118
SANDS/SOI 2642NRR	.	33	24	35.1	19.5	34	1	121
COYOTE/9524RR	.	32	31	33.0	20.2	26	1	120
PRAIRIE BR./PB-2552RR	.	32	22	34.1	19.4	23	1	121
DEN BESTEN/DB2303RR	.	31	19	35.0	19.3	23	1	123
KALTENBERG/KB261RR	.	30	19	34.5	19.9	29	1	123

Table 19. Armour, maturity group II Roundup Ready™ test results (continued).

Brand / Entry	Yield - bu/a (13% moisture)			2002 Prot. pct+	2002 Oil pct+	Ht. in.	Ldg. Sc.~	----- 2003 -----
	3yr	2yr	2003					Maturity: Days after seeding
	Entries tested two years							
DYNA-GRO/DG 3200RR	.	29	28	35.0	19.2	23	1	120
PUBLIC/SD96-170RR-28L	.	29	23	35.1	20.3	29	1	110
	Entries tested one year							
COYOTE/EXP527RR	.	.	33	.	.	28	1	122
ASGROW/AG2107	.	.	33	.	.	28	1	118
THOMPSON/EXP7239RR	.	.	32	.	.	26	1	121
SANDS/SOI 2501RR	.	.	32	.	.	28	1	122
MUSTANG/M-234RR	.	.	31	.	.	23	1	121
DESOY/270ARR	.	.	31	.	.	33	1	121
KRUGER/233+RR	.	.	31	.	.	24	1	121
LATHAM/L2136R	.	.	31	.	.	23	1	119
SANDS/SOI 2143RR	.	.	31	.	.	25	1	121
PRAIRIE BR./PB-2343RR	.	.	30	.	.	26	1	121
ASGROW/AG2403	.	.	30	.	.	25	1	120
MUSTANG/M-253RR	.	.	30	.	.	24	1	121
PRAIRIE BR./PB-2643RR	.	.	30	.	.	24	1	123
SANDS/SOI 2353RR	.	.	30	.	.	26	1	123
DAIRYLAND/DSR-234/RR	.	.	30	.	.	24	1	122
HY-VIGOR/2R44	.	.	30	.	.	26	1	121
DYNA-GRO/DG 3218RR	.	.	29	.	.	30	1	120
SANDS/SOI 2141ARR	.	.	29	.	.	24	1	119
THOMPSON/T-7252RR	.	.	29	.	.	25	1	122
COYOTE/EXP721RR	.	.	28	.	.	27	1	119
KRUGER/230RR	.	.	28	.	.	25	1	120
KALTENBERG/KB275RR	.	.	28	.	.	25	1	125
STINE/S2640-4	.	.	27	.	.	25	1	122
RENK/RS253RR	.	.	27	.	.	26	1	122
DESOY/260RR	.	.	27	.	.	29	1	123
THOMPSON/T-7284RR	.	.	27	.	.	28	1	123
MIDWEST SEED/GR2627	.	.	27	.	.	24	1	122
CROWS/C2130R	.	.	26	.	.	24	1	120
KRUGER/252RR	.	.	26	.	.	25	1	123
PRAIRIE BR./PB-2732RR	.	.	26	.	.	24	1	124
DYNA-GRO/DG 38K28RR	.	.	26	.	.	26	1	123
KRUGER/251RR	.	.	26	.	.	31	1	123
DYNA-GRO/DG 3232RR	.	.	26	.	.	28	1	120

Table 19. Armour, maturity group II Roundup Ready™ test results (continued).

Brand / Entry	Yield - bu/a (13% moisture)			2002 Prot. pct+	2002 Oil pct+	Ht. in.	----- 2003 -----	
	3yr	2yr	2003				Ldg. Sc.~	Maturity: Days after seeding
	----- 2003 -----							
	Entries tested one year							
JACOBSEN/EXP J839R	.	.	25	.	.	21	1	126
COYOTE/EXP625RR	.	.	25	.	.	24	1	124
MUSTANG/M-273RR	.	.	25	.	.	27	1	123
PRAIRIE BR./PB-2243RR	.	.	25	.	.	23	1	119
SANDS/SOI 2749RR	.	.	24	.	.	23	1	123
MUSTANG/M-222RR	.	.	24	.	.	26	1	119
RENK/RS223RR	.	.	24	.	.	21	1	118
HY-VIGOR/EXP-2R12	.	.	24	.	.	28	1	119
DAIRYLAND/DSR-245/RR	.	.	24	.	.	26	1	122
HY-VIGOR/EXP-2R55	.	.	24	.	.	24	1	122
JACOBSEN/J828R	.	.	23	.	.	28	1	123
DEKALB/DKB28-52	.	.	23	.	.	28	1	121
CROWS/C2506R	.	.	23	.	.	24	1	122
THOMPSON/T-7293RR	.	.	23	.	.	22	1	126
SANDS/EXP 2856NRR	.	.	23	.	.	27	1	122
SANDS/SOI 2858NRR	.	.	22	.	.	28	1	123
MUSTANG/M-224RR	.	.	22	.	.	23	1	123
STINE/S2400-4	.	.	22	.	.	25	1	120
MUSTANG/M-284RR	.	.	22	.	.	22	1	127
THOMPSON/T-7243RR	.	.	20	.	.	25	1	123
DYNA-GRO/DG 3263RR	.	.	20	.	.	24	1	124
ASGROW/AG2801	.	.	20	.	.	27	1	126
DYNA-GRO/DG 3223RR	.	.	19	.	.	26	1	120
JACOBSEN/J725R	.	.	19	.	.	25	1	121
Test average:	37	34	26	34.0	19.6	26	1	121
LSD(5%) value (\$):	6	NS	5					
Min.top yield value (\$):	35	34	30					
Coef. of variation (#):	16	17	12					

\$/+ See yield / protein and oil sections, respectively.

~ Lodging: 1= all plants erect, 3= some at 45 degrees, 5= all plants flat.

NS - Indicates differences between values within a column are not significant.

Measure of experimental error: values of < 15% are desired.

Table E. Mailing addresses of seed companies entered in the 2003 soybean trials.

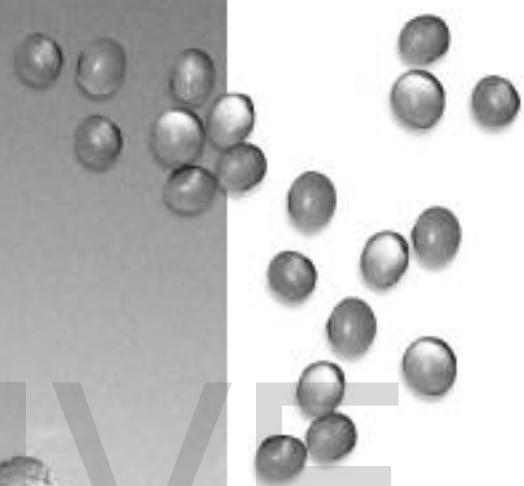
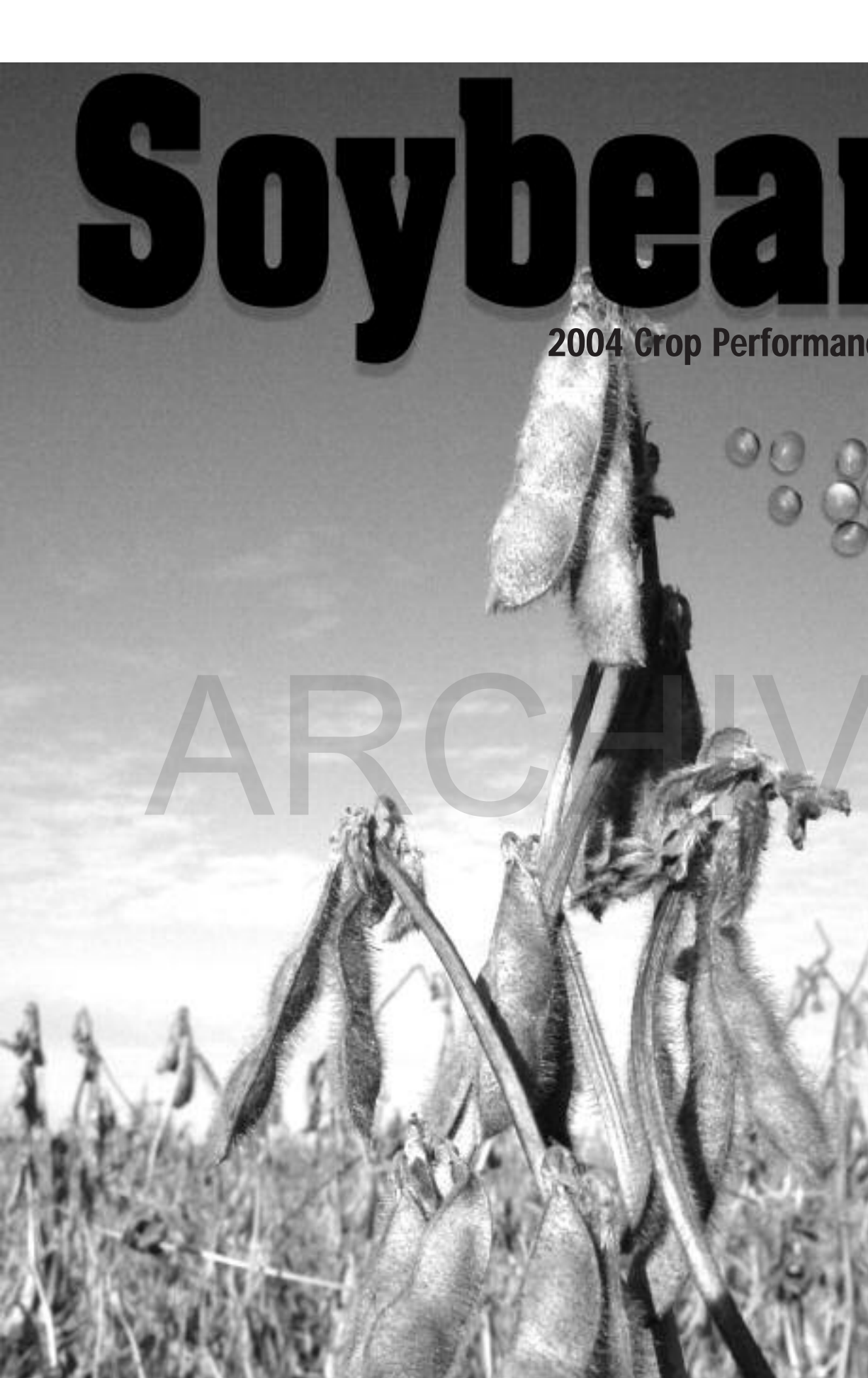
Company name (brand name)
Monsanto (Asgrow & Dekalb), 3100 Sycamore Rd, Dekalb, IA 60115
Bio Gene Seeds (BioGene Brand), 5491 Tri-County Hwy, Sardinia, OH 45171
Coyote Seed Mills (Coyote Brand), Inc., PO Box 16 , Bridgewater, SD 57319-0016
Crows Hybrid Corn Co. (Crows Hybrid Corn Co. Brand), 14575 University, Waukee, IA 50263
Dairyland Seed Co., Inc. (Dairyland Brand), PO Box 958 , West Bend, WI 53095
Den Besten Seed Co., LLC (Den Besten Brand), Box 896 , Platte, SD 57369
Desoy (Desoy Brand), 6131 North Fork Rd. Ames, IA 50010
Dyna-Gro (Dyna-Gro Brand), 104 Harrison, Emmetsburg, IA 50536
Excel Brand (Excel Brand), 116 E. State, Camp Point, IL 62320
Gold Country Seed Inc. (Gold Country Brand), PO Box 604 , Hutchinson, MN 55350
Hy-Vigor Seeds Inc. (Hy-Vigor Brand), 4970 Redwood Ave, Paullina, IA 51046
Garst Seed Co. (Garst Brand), 1010 Christine Ave., Brookings, SD 57006
Kaltenberg Seeds (Kaltenberg Brand), PO Box 278 , Waunakee, WI 53597
Kruger Seed Co. (Kruger Brand), Hwy 20 E Box A, Dike, IA 50624
Latham Seed Co. (Latham Brand), 131 180th St, Alexander, IA 50420-8028
Jacobsen Hybrid Corn Co., Inc. (Jacobsen Brand), 129 9th St., Lake View, IA 51450
Merschman Seeds, Inc. (Merschman Brand), 103 Ave. D, West Point, IA 52656
Midwest Seed Genetics (Midwest Brand), 14475 University Ave, Waukee, IA 50263
Mustang Seeds (Mustang Brand), PO Box 466 , Madison, SD 57042
Northstar Genetics (Northstar Genetics Brand), Box 40 , Wanamingo, MN 55983
Peterson Farms Seed (Peterson Brand), 3104 164th Ave. SE, Harwood, ND 58042
Prairie Brand Seed Co. (Prairie Brand), 15 X Ave., Story City, IA 50248
Renk Seed Co. (Renk Brand), 6800 Wilburn Rd., Sun Prairie, WI 53590
Sabre Initiatives, LLC (Sabre Brand), 2508 Trott Ave. SW, Willmar, MN 56201
Sand Seed Service, Inc. (Sands Brand), Box 648 , Marcus, IA 51035
Foundation Seed Stocks (Sodak Genetics Brand), Box 2207A, SDSU, Brookings, SD 57007
Stine Seed Co. (Stine Brand), 2225 Laredo Trail, Adel, IA 50003
Thompson Seeds Inc. (Thompson Brand), 40321 130th Ave., Leland, IA 50453
Top Farm Hybrids (Top Farm Hybrids Brand), PO Box 850 , Cokato, MN 55321
Wensman Seed Co. (Wensman Brand), PO Box 190 , Wadena, MN 56482
Ziller Seed Co. Inc. (Ziller Brand), 76374 380th St., Bird Island, MN 55310

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Soybeans

2004 Crop Performance Results



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Tables for the 2004 Soybean Performance Trials

A	Traits of some public soybean varieties	7
B	Genes for race resistance to <i>Phytophthora</i> root rot	7
C	Roundup Ready™ soybean entries by brand/variety, yield table number(s), and <i>Phytophthora</i> root rot race resistance	8
D	Conventional soybean entries by brand/variety, yield table number(s), and <i>Phytophthora</i> root rot race resistance	58
E	Mailing addresses of seed companies entered in the 2004 soybean trials	70

Roundup Ready™ trial results

1a	Maturity group-0 soybean variety yield averages— northern South Dakota locations, 2003–2004	16
1b	Maturity group-0 soybean variety protein, oil, and lodging score averages— northern South Dakota locations, 2004	19
2a	Maturity group-I soybean variety yield averages— northern South Dakota locations, 2003–2004	22
2b	Maturity group-I soybean variety protein, oil, and lodging score averages— northern South Dakota locations, 2004	26
3a	Maturity group-0 soybean variety yield averages— central South Dakota locations, 2003–2004	30
3b	Maturity group-0 soybean variety protein, oil, and lodging score averages— central South Dakota locations, 2004	32
4a	Maturity group-I soybean variety yield averages— central South Dakota locations, 2003–2004	34
4b	Maturity group-I soybean variety protein, oil, and lodging score averages— central South Dakota locations, 2004	38
5a	Maturity group-II soybean variety yield averages— central South Dakota locations, 2003–2004	42
5b	Maturity group-II soybean variety protein, oil, and lodging score averages— central South Dakota locations, 2004	44
6a	Maturity group-I soybean variety yield averages— southern South Dakota locations, 2003–2004	46
6b	Maturity group-I soybean variety protein, oil, and lodging score averages— southern South Dakota locations, 2004	48
7a	Maturity group-II soybean variety yield averages— southern South Dakota locations, 2003–2004	50
7b	Maturity group-II soybean variety protein, oil, and lodging score averages— southern South Dakota locations, 2004	54

Conventional trial results

8a	Maturity group -0 and -I soybean variety yield averages— South Shore, South Dakota, 2003–2004	60
8b	Maturity group-0 and -I soybean variety protein, oil, and lodging score averages— South Shore, South Dakota, 2004	61
9a	Maturity group-0, -I & -II soybean variety averages— Brookings, South Dakota, 2003–2004	62
9b	Maturity group-0, -I & -II soybean variety protein, oil, and lodging score averages— Brookings, South Dakota, 2004	64
10a	Maturity group-I & -II soybean variety yield averages— Beresford, South Dakota, 2003–2004	66
10b	Maturity group-I & -II soybean variety protein, oil, and lodging score averages— South Shore, South Dakota, 2004	68

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Soybeans

2004 South Dakota Precision Planted Soybean Variety Performance Trials

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Table A – Traits of some public soybean varieties.

Table B – Gene race resistance to *Phytophthora* root rot.

Table C – Roundup Ready™ entries with yield table numbers.

Table D – Non-Roundup Ready™ entries with yield table numbers.

Table E – Seed company (brand name), mailing addresses (after yield tables).

Successful soybean production is greatly affected by variety selection for a given growing area. This publication reports the agronomic performance of entries in the 2004 South Dakota performance trials for conventional or non-Roundup Ready™ and Roundup Ready™ soybean varieties. Important factors in variety selection include yield, maturity, plant height, lodging resistance, and *Phytophthora* root rot resistance. In the case of public varieties, additional information including emergence, shattering, and iron chlorosis scores (Table A) are available.

Soybean varieties are classified according to maturity groups that in turn are adapted to maturity zones. Maturity zones are based on day length and are therefore greatly impacted by latitude. Consequently, maturity group-00 varieties are best suited to Canada and bordering regions of the U.S., while maturity group-0, group-I, and group-II varieties are suited to South Dakota. Groups III through VIII are suited to Iowa and Nebraska and southward into Texas.

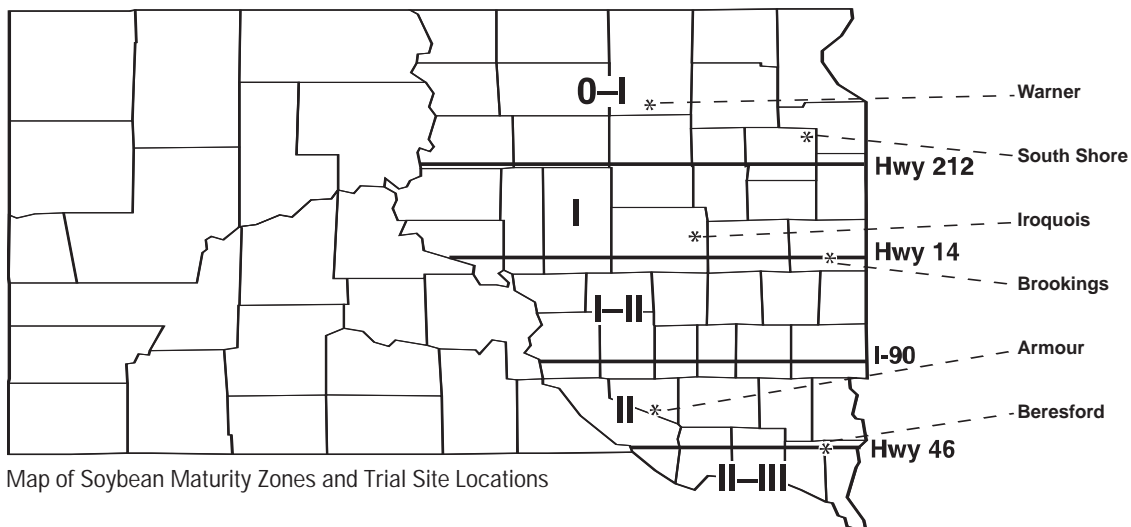
These soybean performance trial results are reported according to the prevalent maturity zones in South Dakota (see map). The Roundup-Ready™ soybean variety trials are conducted in the following test zones at these locations: Northern test zone: Maturity group-0 and -I trials at South Shore and Warner; Central test zone: Maturity group-0, -I,

and -II trials at Brookings and Iroquois; Southern test zone: Maturity group-I and -II trials at Beresford and Armour.

Conventional soybean variety trials are only conducted on the following SDSU-affiliated research farms and locations: NE Research Farm, South Shore, Maturity group-0 and -I trials; Plant Science Research Farm, Brookings, Maturity group-0, -I, -II trials; and the South Dakota Agricultural Experiment Station (SDAES) Farm, Beresford, Maturity group -I and -II trials.

Note there are transition areas where varieties of two maturity groups may perform similarly. In such cases other mitigating factors like rainfall and/or elevation may moderate the effect of latitude on maturity. In most cases, an earlier maturity group may be seeded in a zone suited to a later maturity group. Generally, this is only practical if seeding is delayed, when reseeding follows hail, or if double cropping.

Phytophthora root rot (PRR) is an important soybean disease in South Dakota and is often controlled or managed with the use of resistant varieties. However, the resistance to *Phytophthora* root rot is fungus-race specific. This means resistance to one race does not necessarily impart resistance to other races. Knowledge of the races of PRR fungus prevalent in your area is helpful. If you suspect a field has PRR and the specific race(s) involved is unknown, then select varieties



having genes that impart a wide range of race resistance (Table B). Specific race resistance to PRR for a given variety, as reported by the entering seed company, is indicated in Table C.

An alternative method of control is the use of "tolerant varieties." Tolerant varieties are not resistant to PRR in the seedling stage. Therefore, a *Phytophthora*-specific fungicide must be applied to protect them. Presently, we have no information on the field tolerance of varieties adapted to this region. Therefore, field tolerance ratings are not given in this publication.

Certified seed is the best source of seed and the only way to be assured of the genetic purity of the variety seeded. In addition, inoculation of seed with the appropriate nitrogen-fixing bacterium is a good fundamental practice. Inoculation must be practiced if soybeans are seeded in soils not previously cropped with soybeans. Even on soils previously cropped to soybeans, there is no guarantee that beneficial bacteria will be present to naturally inoculate planted seed. Therefore, inoculation of seed at planting is an inexpensive means of increasing the percentage of plants that will fix nitrogen in the current crop year.

Yield

Yields are obtained from the South Dakota Crop Performance Testing Program (CPT). Current-year yields are included for each entry tested at a given location. In addition, 2-year averages are included where varieties have been tested for 2 years. Yields, test averages, and least significant difference (Lsd) values are printed at the bottom of each yield column for each location and are rounded off to the nearest bushel.

The Lsd value can be used to determine whether varieties differ in yield potential. For example, assume variety A yields 30 bushels, variety B yields 25 bushels, and the calculated Lsd value is 4 bushels. The yield difference between varieties A and B is 5 bushels per acre. Since the yield difference of 5 bushels is greater than the test Lsd value of 4 bushels, the yield of variety A (30 bushels) is significantly higher than the yield of variety B (25 bushels). In contrast, if variety A yielded 28 bushels and variety B yielded 25 bushels, the yield difference would be 3 bushels per acre. In this case, both varieties would have a similar yield because their yield difference of 3 bushels is less than the test Lsd value of 4 bushels per acre.

Use Lsd values to identify the best-yielding varieties. The Lsd value indicated at the bottom of each yield column is used to calculate the **minimum top yield value**. For example, if the highest yield within a column is 50 bushels and the LSD value for that yield column is 5 bushels, then the minimum top yield value equals 45 bushels ($50 - 5 = 45$). Within a yield column, varieties with yields equal to or higher than this minimum top-yield value are the best yielding varieties. Entries in all tables are sorted from highest to lowest values according to the variable(s) listed in the Brand/Variety column of each performance table. **Note: Entries tested for 2 years may also have a top yield group value in the 2004 yield column.**

Participating companies pick the locations where their entries are tested. Entries are placed into either maturity group-0, -I, or -II test trials, and the company selects the appropriate maturity group trial for its entries at each location. Generally, each company has one or more maturity group checks for the varieties it markets. However, there are no standard regional or national check varieties for maturity. Consequently, a late group-I variety from one company may be similar in maturity to an early group-I variety from another company because they use different check varieties for maturity.

As a result, **this testing program can not guarantee that all entries are placed in the proper maturity trial**. In some trials, borderline entries with maturity group ratings at or near the arbitrary breaks between the late group-0s and early group-Is and between the late group-Is and early-group-IIs may crossover at a given location.

When evaluating the performance of any entry in a given trial it is strongly suggested that you also note the reported maturity of the entry. Since all entries at a given location are seeded the same day, you can compare the relative difference in maturity (days after maturity) between varieties. If the maturity rating for an entry in a group-I test is similar to the rating for a variety in the group-II test at the same test location, then you might conclude they are similar in maturity regardless of their company maturity rating.

Use caution when comparing the maturity rating of a given variety from one location to the rating obtained at other locations. Should early-season soil moisture and soil temperature values differ greatly, then maturity ratings may differ between locations; therefore, maturity comparisons of a variety over many locations may be misleading.

The efforts of G. Piechowski, Brookings, J. Smolik and A. Heuer, NE Research Farm, South Shore, and R. Berg and staff, SE Research Farm, Beresford, in obtaining the data are gratefully acknowledged. The comments regarding *Phytophthora* root rot race resistance and tolerance by Marty Draper, Extension plant pathologist, are appreciated.

The assistance and cooperation of our farmer co-operators Allen and Inel Ryckman, Warner, Mark and Cletus Wiechmann, Armour, and S.D. and Kirk Aughenbaugh, Iroquois, are especially acknowledged.

Protein and Oil Content

The protein and oil values reported are for the 2004 cropping season. At all locations, one sub-sample from each replication (3 sub-samples total) of every variety in each trial was combined and a sample was then tested for protein and oil. The analysis was conducted using a FOSS TECATOR Model Infratec 1229 grain analyzer calibrated using company software. Samples of known protein and oil that had been tested by the SDSU Agricultural Experiment Station Biochemistry Laboratory were then used to verify the software calibration. All protein and oil values are adjusted to a 13% moisture basis.

General Test Procedures

The general test procedures outlined below apply to both conventional non-Roundup Ready™ and Roundup Ready™ soybean entries with one exception: Weed control in the Roundup Ready™ test consisted of an application of Roundup Ultra™ (32 oz/A) when weeds were 4-5 inches tall followed by the same application again 21 days later. In non-Roundup Ready™ test trials, pre-emergence herbicides consisted of banded Lasso II™ at South Shore and Brookings; and no pre-emergence herbicide at Beresford. In addition, a post-emergence tank mix of Pursuit/Flexstar™ for broadleaves and Select™ for grasses was applied at Beresford. At South Shore and Brookings post-emergence control consisted of a light cultivation. Chemicals were applied according to label instructions.

Test procedures: A row spacing of 30 inches was used at all locations. The seeding rate was 165,000 seeds per acre for all varieties and locations.

Test plots were 4-row plots, 20 feet long, with three replications at all locations. Soybean inoculation was accomplished by applying Nitragin™ brand Soybean Soil Implant down the seed tube, according to label instructions and rates, during seeding. Seeding at all locations was accomplished using a Monosem precision row crop planter. The use of this planter this year resulted in very uniform seed spacing within the seed row. The center two rows of each plot were harvested for yield.

Yield: Plots were harvested at 15% seed moisture or less. Yields were calculated on a 13% moisture content basis and expressed in bushels per acre. Harvest was accomplished using a Massey Ferguson 8XP small plot combine.

Reporting variety maturity: Variety maturity is reported as “days to maturity” or DTM. Entries are mature when 95% of the pods have turned brown. Each maturity value is obtained by determining the average number of days from seeding to maturity for two replicates and expressing as DTM. If the DTM value is missing the entry did not reach maturity before the first killing frost and no value is given.

Height: Measured from the soil surface to the top node of the main stem.

Lodging score: Scores at maturity are based on average erectness of the main stem of plants within each variety. 1 = all plants erect, 2 = slight lodging, 3 = lodging at a 45 degree angle, 4 = severe lodging, and 5 = all plants flat.

Phytophthora: The gene resistance traits of entries to the many *Phytophthora* races was supplied by the participating seed company (proprietary entries) or obtained from the USDA, Uniform Soybean Tests, Northern States (public entries). A key to *Phytophthora* gene resistance and the race resistance of each gene is indicated in Table B. The race resistances of entries are listed either in Table C (Roundup Ready™) or Table D (non-Roundup Ready™). Presently, races 1, 3, and 4 are the most common races in South Dakota.

Soybean Traits of Public Entries

Evaluations of public soybean variety characteristics conducted by regional universities and USDA are reported in Table A. Evaluations and locations include emergence (Ames, Iowa), shattering (Manhattan, Kan.), and iron chlorosis (Rosemount, Minn. - Group 0, Waseca, Minn. - Groups I and II). A discussion of these evaluations follows:

Emergence: Scores are related to hypocotyl elongation and are measured following emergence after 12 days from a 4 1/2-inch depth in sand maintained at 77° F (a critical temperature for differentiating strains). Scores include 1 = 95% or more emerged, 2 = 91-94% emerged, 3 = 85-90% emerged, 4 = 76-84% emerged, and 5 = less than 76% emerged.

A score of 4 or 5 indicates the variety exhibits slow emergence. It does not mean the variety is inferior.

Shattering: Indicates percentage of pods that had opened and shattered 2 weeks after maturity. Scores include 1 = no shattering, 2 = 1-10% shattered, 3 = 11-25% shattered, 4 = 26-50% shattered, and 5 = over 50% shattered.

Iron chlorosis: Varieties are evaluated on high pH soils, and scores range from 1 = little or no yellowing, 3 = moderate yellowing, to 5 = severe yellowing.

ROUNDUP READY™ SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS

Note: Yields are reported as 2004 averages or 2-yr averages (2003-04).

NORTHERN TEST ZONE

SOUTH SHORE- Northeast Research Farm
WARNER- No-till, Allen & Inel Ryckman Farm
(cooperators)

South Shore, Group-0 (Tables 1a & 1b): The 2004 and 2-year test yield averages were **39 and 30 bushels** per acre, respectively (Table 1a). Varieties had to average 39 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 30 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 6 bushels in 2004 and 4 bushels for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **33.5%, 16.7%, and 1**, respectively (Table 1b).

Lodging score averages among the varieties were not significantly different from one another.

Warner, Group-0 (Tables 1a & 1b): The 2004 and 2-year test yield averages were **46 and 47 bushels** per acre, respectively (Table 1a). Varieties had to average 48 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 45 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 4 bushels in 2004 and 5 bushels for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **34.1%, 17.3%, and 1**, respectively (Table 1b). Lodging score averages among the varieties were not significantly different from one another.

Northern test zone, Group-0 (Tables 1a & 1b): The 2004 and 2-year test yield averages in the Northern zone were **43 (57 entries) and 39 (19 entries) bushels** per acre, respectively (Table 1a). Varieties had to average 45 bushels or higher to be in the top yield group for 2004. Variety yield averages had to differ by 4 bushels in 2004 to be significantly different. The 2004 protein, oil, and lodging score test averages were **33.9%, 17.0%, and 1**, respectively (Table 1b). Lodging score averages among the varieties were not significantly different from one another.

South Shore, Group-I (Tables 2a & 2b): The 2004 and 2-year test yield averages were **41 and 30 bushels** per acre, respectively (Table 2a). Varieties had to average 43 bushels or higher to be in the top yield group for 2004. The 2-year yield averages among varieties did not differ significantly. Therefore, the variety with the lowest 2-year yield of 29 bushels was still in the top yield group for 2 years. Variety yield averages had to differ by 5 bushels in 2004 to be significantly different, while for 2 years there was no yield difference among the varieties. The 2004 protein, oil, and lodging score test averages were **32.2, 17.2%, and 1**, respectively (Table 2b). Although lodging score averages among the varieties were significant they were almost negligible because the Lsd value was almost zero. Lodging score averages had to be 1 to qualify for the top performance group.

Warner, Group-I (Tables 2a & 2b): The 2004 and 2-year test yield averages were **47 and 44 bushels** per acre, respectively (Table 2a). Varieties had to average 49 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 43 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 6 bushels in 2004 for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **32.5%, 17.7%, and 1**, respectively (Table 2b). Lodging score averages among the varieties were not significantly different from one another.

Northern test zone, Group-I (Tables 2a & 2b): The 2004 and 2-year test yield averages in the Northern zone were **45 (70 entries) and 38 (14 entries) bushels** per acre, respectively (Table 2a). Varieties had to average 47 bushels or higher to be in the top yield group for 2004. Variety yield averages had to differ by 4 bushels in 2004 to be significantly different. The 2004 protein, oil, and lodging score test averages were **32.3%, 17.5%, and 1**, respectively (Table 1b). Lodging score averages among the varieties were not significantly different from one another.

CENTRAL TEST ZONE

BROOKINGS– Plant Science Research Farm
IROQUOIS– No-till, Augenbaugh Farm (cooperator)

Note: Test trials for maturity groups-0, -I, and -II were seeded at both Brookings and Iroquois. However, a custom

combine operator mistakenly harvested all three test trials at Iroquois and took them to the elevator. Therefore, these Central test zone results only include the Brookings trials.

Brookings, Group-0 (Tables 3a & 3b): The 2004 and 2-year test yield averages were **46 and 43 bushels** per acre, respectively (Table 3a). Varieties had to average 47 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 44 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 4 bushels in 2004 and for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **35.9%, 16.4%, and 2**, respectively (Table 3b). Lodging score averages had to be 2 or less to be in the top performance group.

Iroquois, Group-0 (Tables 3a & 3b): Plots not harvested in 2004.

Central test zone, Group-0 (Tables 3a & 3b): Results not reported because only one location in the test zone was harvested.

Brookings, Group-I (Tables 4a & 4b): The 2004 and 2-year test yield averages were **46 and 45 bushels** per acre, respectively (Table 4a). Varieties had to average 49 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 45 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 4 bushels in 2004 and 5 bushels for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **35.3%, 16.5%, and 2**, respectively (Table 4b). Lodging score averages had to be 2 or less to be in the top performance group. In addition, lodging scores had to differ by 1 in order to be significantly different from one another.

Iroquois, Group-I (Tables 4a & 4b): Plots not harvested in 2004.

Central test zone, Group-I (Tables 4a & 4b): Results not reported because only one location in the test zone was harvested.

Brookings, Group-II (Tables 5a & 5b): The 2004 and 2-year test yield averages were **47 and 48 bushels** per acre, respectively (Table 4a). Varieties had to average 52 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 46 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 3 bushels in 2004 and 6 bushels for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **35.3%, 16.5%, and 3**, respectively (Table 5b). Lodging score averages had to be 2 or less to be in the top performance group. In addition, lodging scores had to differ by 1 in order to be significantly different from one another.

Iroquois, Group-II (Tables 4a & 4b): Plots not harvested in 2004.

Central test zone, Group-II (Tables 4a & 4b): Results not reported because only one location in the test zone was harvested.

SOUTHERN TEST ZONE

BERESFORD– South Dakota Agricultural Experiment Station Farm
ARMOUR- No-till, Mark & Cletus Wiechmann Farm (cooperator)

Beresford, Group-I (Tables 6a & 6b): The 2004 and 2-year test yield averages were **61 and 56 bushels** per acre, respectively (Table 6a). Varieties had to average 67 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 55 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 5 bushels in 2004 and 6 bushels for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **32.2%, 17.8%, and 2**, respectively (Table 6b). Lodging score averages had to be 2 or less to be in the top performance group. In addition, lodging scores had to differ by 1 in order to be significantly different from one another.

Armour, Group-I (Tables 6a & 6b): The 2004 and 2-year test yield averages were **37 and 29 bushels** per acre, respectively (Table 6a). Varieties had to average 37 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 28 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 5 bushels in 2004 and 4 bushels for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **31.7%, 19.6%, and 1**, respectively (Table 6b). There was no lodging observed in this trial for 2004.

Southern test zone, Group-I (Tables 6a & 6b): The 2004 and 2-year test yield averages in the Southern zone were **50 (22 entries) and 42 (6 entries) bushels** per acre, respectively (Table 6a). Varieties had to average 52 bushels or higher to be in the top yield group for 2004. Variety yield averages had to differ by 4 bushels in 2004 to be significantly different. The 2004 protein, oil, and lodging score test averages were **31.7%, 18.7%, and 1**, respectively (Table 6b). Although lodging

score averages among the varieties were significant, they were almost negligible because the Lsd value was almost zero. Lodging score averages had to be 1 to qualify for the top performance group.

Beresford, Group-II (Tables 7a & 7b): The 2004 and 2-year test yield averages were **64 and 57 bushels** per acre, respectively (Table 7a). Varieties had to average 68 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 54 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 5 bushels in 2004 and 8 bushels for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **32.9%, 17.2%, and 2**, respectively (Table 7b). Lodging score averages had to be 2 or less to be in the top performance group. In addition, lodging scores had to differ by 1 in order to be significantly different from one another.

Armour, Group-II (Tables 7a & 7b): The 2004 and 2-year test yield averages were **39 and 34 bushels** per acre, respectively (Table 7a). Varieties had to average 40 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 33 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 6 bushels in 2004 and 4 bushels for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **30.7%, 20.0%, and 1**, respectively (Table 7b). Lodging score averages had to be 2 or less to be in the top performance group. There was no lodging observed in this trial for 2004.

Southern test zone, Group-II (Tables 7a & 7b): The 2004 and 2-year test yield averages in the Southern zone were **53 (72 entries) and 46 (20 entries) bushels** per acre, respectively (Table 7a). Varieties had to average 54 bushels or higher to be in the top yield group for 2004. Variety yield averages had to differ by 4 bushels in 2004 to be significantly different. The 2004 protein, oil, and lodging score test averages (72 entries) were **31.8%, 18.6%, and 1**, respectively (Table 7b). Although lodging score averages among the varieties were significant they were almost negligible because the Lsd value was almost zero. Lodging score averages had to be 1 to qualify for the top performance group; therefore, varieties with lodging score averages of 2 or higher were significantly more prone to lodge.

NON-ROUNDUP READY™ SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS

Note: Yields are reported as 2004 averages or 2-year averages (2003-04).

SOUTH SHORE– Northeast Research Farm
BROOKINGS– Plant Science Research Farm
BERESFORD– South Dakota Agricultural Experiment Station Farm

South Shore, Group-0 (Tables 8a & 8b): The 2004 and 2-year test yield averages were **25 and 24 bushels** per acre, respectively (Table 8a). Varieties had to average 25 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 24 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 3 bushels in 2004 and for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **35.1%, 16.2%, and 1**, respectively (Table 8b). Lodging score averages among the varieties were not significantly different from one another.

South Shore, Group-I (Tables 8a & 8b): The 2004 and 2-year test yield averages were **29 and 25 bushels** per acre, respectively (Table 8a). Varieties had to average 34 bushels or higher to be in the top yield group for 2004. In this trial, only two varieties have been tested for 2 years and they were not significantly different in yield. Variety yield averages had to differ by 3 bushels or more in 2004 to be significantly different. The 2004 protein, oil, and lodging score test averages were **34.4%, 16.7%, and 1**, respectively (Table 8b). Lodging score averages among the varieties tested were not significantly different from one another.

Brookings, Group-0 (Tables 9a & 9b): The 2004 and 2-year test yield averages were **44 and 39 bushels** per acre, respectively (Table 9a). Varieties had to average 43 bushels or higher to be in the top yield group for 2004. There was no significant difference in yield among the six entries tested in 2004. Variety yield averages had to differ by 7 bushels in 2004 to be significantly different. The 2004 protein, oil, and lodging score test averages were **36.4%, 15.9%, and 1**, respectively (Table 9b). Lodging score averages among the varieties were not significantly different from one another.

Brookings, Group-I (Tables 9a & 9b): The 2004 and 2-year test yield averages were **49 and 42 bushels** per acre, respectively (Table 9a). Varieties had to average 53 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 41 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 4 bushels in 2004 and 6 bushels for 2 years to be significantly

different. The 2004 protein, oil, and lodging score test averages were **35.8%, 16.4%, and 1**, respectively (Table 9b). Lodging score averages among the varieties were not significantly different from one another.

Brookings, Group-II (Tables 9a & 9b): The 2004 and 2-year test yield averages were **47 and 42 bushels** per acre, respectively (Table 9a). Varieties had to average 49 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 40 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 4 bushels in 2004 and 5 bushels for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **36.4%, 15.9%, and 1**, respectively (Table 9b). Although lodging score averages among the varieties were significant they were almost negligible because the Lsd value was almost zero. Lodging score averages had to be 1 to qualify for the top performance group.

Beresford, Group-I (Tables 10a & 10b): The 2004 and 2-year test yield averages were **59 and 55 bushels** per acre, respectively (Table 10a). Varieties had to average 64 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 52 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 5 bushels in 2004 and 9 bushels for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **33.1%, 17.1%, and 2**, respectively (Table 10b). Lodging score averages had to be 2 or lower to qualify for the top performance group; therefore, varieties with lodging score averages of 3 or higher were significantly more prone to lodge.

Beresford, Group-II (Tables 10a & 10b): The 2004 and 2-year test yield averages were **62 and 55 bushels** per acre, respectively (Table 10a). Varieties had to average 63 bushels or higher to be in the top yield group for 2004. Likewise, varieties had to average 52 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 7 bushels in 2004 and 8 bushels for 2 years to be significantly different. The 2004 protein, oil, and lodging score test averages were **32.9%, 17.1%, and 3**, respectively (Table 10b). Lodging score averages had to be 2 or lower to qualify for the top performance group; therefore, varieties with lodging score averages of 3 or higher were significantly more prone to lodge.

Table A. Traits of some public soybean varieties.

Variety	Emergence	Shattering	Iron Chlorosis
Hendricks	1	1	1.7
MN0901	3	2	3.7
Spink	1	1	2.4
Stride	1	1	3.7
Surge	1	1	2.7
Turner SCN	1	2	3.0
SDG 1081RR*	1	1	2.5
SDG 1091RR*	1	1	2.7

* Indicates Roundup Ready variety.

Emergence: 1=> 95%, 2= 91-94%, 3= 85-90%, 4= 76-84%, and 5=< 75%.

Shattering: 1= none, 2= 1-10%, 3= 11-25%, 4= 26-50%, and 5> 50%.

Iron Chlorosis: 1= little or no yellowing, 3= moderate yellowing, and 5= severe yellowing.

See additional comments in evaluation methods.

Table B. Genes for race resistance to *Phytophthora* root rot.

Source	Gene	Race resistance
Williams	rps1	None
Mukden	Rps1 (Rps1a)	1-2, 10-11, 13, 15-18, 24
Sanga	Rps1b	1, 3-9, 13-15, 18, 21-22
Mack	Rps1c	1-3, 6-11, 13, 15, 17, 21, 23-24
Kingwa	Rps1k	1-11, 13-15, 17-18, 21-22, 24
CNS2	Rps2	1-5, 9-20
PI171442	Rps3	1-5, 8-9, 11, 13-14, 16, 18, 23, 25
PI86050	Rps4	1-4, 10, 12-16, 18-21, 25
PI91160	Rps5	1-5, 8-9, 11-14, 18, 20, 25
Altona	Rps6	1-4, 10, 12, 14-16, 18-21, 25
Harosoy	Rps7	16, 18, 19
Archer	Rps1k, Rps6	1-22, 24-25
Keller	Rps1c, Rps3	1-10, 13-18, 22-25
Winchester	Rps1b, Rps3	1-9, 13-16, 18, 21-23, 25
	Unknown	Unknown
	Not reported	Not reported by seed source

Table C. 2004 Roundup Ready soybean entries by brand/variety, yield table number(s), and Phytophthora root rot race resistance.

Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
ASGROW/AG0801	1,3	0	Not Reported
ASGROW/AG1001	1,3	0	Not Reported
ASGROW/AG1401	2,4	I	Not Reported
ASGROW/AG1603	2,4,6	I	Not Reported
ASGROW/AG1903	2,4,6	I	Not Reported
ASGROW/AG2107	7	II	Not Reported
ASGROW/AG2203	5,7	II	Not Reported
ASGROW/AG2302	7	II	Not Reported
ASGROW/AG2403	5,7	II	Not Reported
ASGROW/AG2801	7	II	Not Reported
BIO GENE/BG0913RR	1,3	0	Not Reported
BIO GENE/BG100RR	1,3	0	Not Reported
BIO GENE/BG150RR	2,4	I	1-3,6-11,13,15,17,21,23-24
COYOTE/4523RR	5,7	II	1-11,13-15,17-18,21-22,24
COYOTE/4527RR	7	II	1-11,13-15,17-18,21-22,24
COYOTE/4719RR	4,6	I	1-11,13-15,17-18,21-22,24
COYOTE/9524RR	7	II	1-11,13-15,17-18,21-22,24
COYOTE/EX325RR	7	II	No Resistance
DAIRYLAND/DSR-040/RR	1	0	No Resistance
DAIRYLAND/DSR-050/RR	1,3	0	No Resistance
DAIRYLAND/DSR-091/RR	1	0	No Resistance
DAIRYLAND/DSR-130/RR	2	I	No Resistance
DAIRYLAND/DSR-155/RR	4	I	1-11,13-15,17-18,21-22,24
DAIRYLAND/DSR-184/RR	4	I	1-11,13-15,17-18,21-22,24
DAIRYLAND/DSR-199/RR	4	I	1-11,13-15,17-18,21-22,24
DAIRYLAND/DSR-234/RR	5,7	II	1-11,13-15,17-18,21-22,24
DAIRYLAND/DSR-2500/RR	7	II	1-11,13-15,17-18,21-22,24
DAIRYLAND/DSR-277/RR	7	II	1-11,13-15,17-18,21-22,24
DAIRYLAND/DST08-000/RR	1,3	0	No Resistance
DAIRYLAND/DST13-000/RR	2,4	I	No Resistance
DAIRYLAND/DST15-000/RR	2,4	I	No Resistance
DAIRYLAND/DST20-000/RR	5	II	1-11,13-15,17-18,21-22,24
DEKALB/DKB07-52	1,3	0	Not Reported
DEKALB/DKB19-52	2,4,6	I	Not Reported
DEKALB/DKB22-52	5,7	II	Not Reported
DEKALB/DKB25-51	7	II	Not Reported
DYNA-GRO/DG 31B08	1,3	0	1-11,13-15,17-18,21-22,24
DYNA-GRO/DG 31C15	2,4	I	No Resistance
DYNA-GRO/DG 32F12	2,4	I	No Resistance
DYNA-GRO/DG 32Y09	1,3	0	1-3,6-11,13,15,17,21,23-24
DYNA-GRO/DG 33R09	1,3	0	1-11,13-15,17-18,21-22,24
DYNA-GRO/DG 34R12	2,4	I	No Resistance
DYNA-GRO/DG 37A10	1,3	0	1-11,13-15,17-18,21-22,24

Table C. 2004 Roundup Ready soybean entries (Continued).

Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
EXCEL/8020RR	1	0	Not Reported
EXCEL/8055RR	1	0	Not Reported
EXCEL/8151RR	2,4	I	Not Reported
EXCEL/8160RR	2,4	I	Not Reported
EXCEL/8192RR	4	I	1-11,13-15,17-18,21-22,24
EXCEL/8194RR	4	I	Not Reported
EXCEL/8211NRR	5	II	Not Reported
EXCEL/8236NRR	7	II	1-11,13-15,17-18,21-22,24
FARM ADVANTAGE/7192	4	I	No Resistance
FARM ADVANTAGE/7205	5	II	1-2,10-11,13,15-18,24
FARM ADVANTAGE/7254N	7	II	1-2,10-11,13,15-18,24
FARM ADVANTAGE/7264	7	II	1-11,13-15,17-18,21-22,24
GOLD COUNTRY/2509RR	1	0	No Resistance
GOLD COUNTRY/3512RR	2,4	I	1-3,6-11,13,15,17,21,23-24
GOLD COUNTRY/6016RR	2,4	I	1-3,6-11,13,15,17,21,23-24
GOLD COUNTRY/6117RR	2,4	I	No Resistance
GOLD COUNTRY/6221RR	5,7	II	1-11,13-15,17-18,21-22,24
GOLD COUNTRY/EXP-318RR	4,6	I	No Resistance
GOLD COUNTRY/EXP-325RR	7	II	No Resistance
JACOBSEN/J642R	2	I	Not Reported
JACOBSEN/J647R	2	I	Not Reported
JACOBSEN/J730NR	5,7	II	Not Reported
JACOBSEN/J733R	5,7	II	Not Reported
JACOBSEN/J744NR	7	II	Not Reported
JACOBSEN/J828R	7	II	Not Reported
KALTENBERG/KB153RR	6,6	I	No Resistance
KALTENBERG/KB203RR	7	II	No Resistance
KALTENBERG/KB245RR	7	II	1-2,10-11,13,15-18,24
KALTENBERG/KB275RR	7	II	1-3,6-11,13,15,17,21,23-24
KELTGEN AGVENTURE/AV 10J8RR	2	I	Not Reported
KRUGER/090RR	1,3	0	Not Reported
KRUGER/098RR	1,3	0	No Resistance
KRUGER/099+RR	1,3	0	No Resistance
KRUGER/101RR	1,3	0	1-11,13-15,17-18,21-22,24
KRUGER/125RR	2,4	I	1-11,13-15,17-18,21-22,24
KRUGER/149+RR	2,4	I	1-11,13-15,17-18,21-22,24
KRUGER/155+RR	4,6	I	No Resistance
KRUGER/191RR	2,4,6	I	1-11,13-15,17-18,21-22,24
KRUGER/192RR	2,4,6	I	No Resistance
KRUGER/195+RR/SCN	2	I	1-11,13-15,17-18,21-22,24
KRUGER/200RR	5,7	II	1-2,10-11,13,15-18,24
KRUGER/211+RR	2,4,6	I	1-11,13-15,17-18,21-22,24
KRUGER/223+RR	2,4,6	I	1-11,13-15,17-18,21-22,24
KRUGER/223RR	2,4,6	I	1-11,13-15,17-18,21-22,24

Table C. 2004 Roundup Ready soybean entries (Continued).

Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
KRUGER/233+RR	5,7	II	1-11,13-15,17-18,21-22,24
KRUGER/252RR	5,7	II	1-11,13-15,17-18,21-22,24
KRUGER/268+RR	5,7	II	No Resistance
KRUGER/270RR	7	II	No Resistance
KRUGER/273RR	7	II	1-3,6-11,13,15,17,21,23-24
KRUGER/277+RR/SCN	7	II	Not Reported
KRUGER/289+RR	7	II	1-11,13-15,17-18,21-22,24
KRUGER/EXP089RR	1,3	0	Unknown
KRUGER/EXP152RR	2	I	No Resistance
KRUGER/EXP167RR	2,4	I	Unknown
KRUGER/EXP234RR	5,7	II	1-11,13-15,17-18,21-22,24
KRUGER/EXP257RR	5,7	II	1-11,13-15,17-18,21-22,24
KRUGER/EXP268RR	5,7	II	1-11,13-15,17-18,21-22,24
KRUGER/EXP287RR	7	II	1-11,13-15,17-18,21-22,24
LATHAM/497RR	7	II	1-5,9-20
LATHAM/738RR	7	II	1-11,13-15,17-18,21-22,24
LATHAM/EXP-E1230R	2	I	No Resistance
LATHAM/EXP-E1330R	2	I	No Resistance
LATHAM/EXP-E1635R	4	I	1-11,13-15,17-18,21-22,24
LATHAM/EXP-E1936R	4,6	I	No Resistance
LATHAM/EXP-E2450R	7	II	1-11,13-15,17-18,21-22,24
LATHAM/EXP-E2635R	7	II	1-3,6-11,13,15,17,21,23-24
LATHAM/EXP-E2646R	7	II	No Resistance
LATHAM/L2136R	5,7	II	No Resistance
LATHAM/L2857R	7	II	1-11,13-15,17-18,21-22,24
LATHAM/L2900R	7	II	No Resistance
MALLARD/EXP RR0914	1	0	1-11,13-15,17-18,21-22,24
MALLARD/EXP RR1111	2	I	No Resistance
MALLARD/EXP RR1314	2	I	1-3,6-11,13,15,17,21,23-24
MALLARD/EXP RR1512	2	I	1-11,13-15,17-18,21-22,24
MALLARD/EXP RR2411	7	II	No Resistance
MUSTANG/E-1852NRR	4	I	1-2,10-11,13,15-18,24
MUSTANG/M-053RR	1	0	No Resistance
MUSTANG/M-055RR	1	0	No Resistance
MUSTANG/M-075RR	1	0	1-2,10-11,13,15-18,24
MUSTANG/M-083RR	1,3	0	No Resistance
MUSTANG/M-092RR	1	0	No Resistance
MUSTANG/M-094RR	1,3	0	No Resistance
MUSTANG/M-095RR	1,3	0	No Resistance
MUSTANG/M-115RR	2,4	I	1-3,6-11,13,15,17,21,23-24
MUSTANG/M-124RR	2,4	I	No Resistance
MUSTANG/M-151RR	2,4	I	1-3,6-11,13,15,17,21,23-24
MUSTANG/M-153RR	2,4	I	No Resistance
MUSTANG/M-155RR	2,4	I	1-11,13-15,17-18,21-22,24
MUSTANG/M-174RR	2,4	I	1-11,13-15,17-18,21-22,24
MUSTANG/M-194NRR	4	I	1-11,13-15,17-18,21-22,24
MUSTANG/M-201RR	5,7	II	1-11,13-15,17-18,21-22,24

Table C. 2004 Roundup Ready soybean entries (Continued).

Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
MUSTANG/M-203RR	5,7	II	No Resistance
MUSTANG/M-223RR	5,7	II	No Resistance
MUSTANG/M-243RR	7	II	1-11,13-15,17-18,21-22,24
MUSTANG/M-255RR	7	II	No Resistance
MUSTANG/M-264RR	7	II	1-11,13-15,17-18,21-22,24
MUSTANG/M-284RR	7	II	1-11,13-15,17-18,21-22,24
NK BRAND/S14-A7	2,4	I	1-3,6-11,13,15,17,21,23-24
NK BRAND/S17-P9	2,4	I	1-3,6-11,13,15,17,21,23-24
NK BRAND/S19-R5	4,6	I	1-2,10-11,13,15-18,24
NK BRAND/S27-T7	7	II	No Resistance
NORTHSTAR/NS 0509RR	1	0	1-11,13-15,17-18,21-22,24
NORTHSTAR/NS 0517RR	1	0	No Resistance
NORTHSTAR/NS 0609RR	1	0	1-3,6-11,13,15,17,21,23-24
NORTHSTAR/NS 0805RR	1	0	1-11,13-15,17-18,21-22,24
NORTHSTAR/NS 0923RR	3	0	No Resistance
NORTHSTAR/NS 0954RR	1,3	0	No Resistance
NORTHSTAR/NS 1019RR	2,4	I	1-11,13-15,17-18,21-22,24
NORTHSTAR/NS 1407RR	2,4	I	No Resistance
NORTHSTAR/NS 1409RR	2,4	I	1-11,13-15,17-18,21-22,24
NORTHSTAR/NS 1624RR	4	I	1-3,6-11,13,15,17,21,23-24
NORTHSTAR/NS 1710RR	4	I	Unknown
NORTHSTAR/NS 2009RR	5	II	1-11,13-15,17-18,21-22,24
NUTECH/NT-0606RR	1	0	No Resistance
NUTECH/NT-0676+RR	1	0	1-2,10-11,13,15-18,24
NUTECH/NT-0711ARR	1	0	Not Reported
NUTECH/NT-0811RR	3	0	No Resistance
NUTECH/NT-0848RR	1,3	0	Not Reported
NUTECH/NT-0889RR	1,3	0	No Resistance
NUTECH/NT-0999RR	1,3	0	1-11,13-15,17-18,21-22,24
NUTECH/NT-1010RR	2,4	I	1-2,10-11,13,15-18,24
NUTECH/NT-1901RR	6	I	Not Reported
NUTECH/NT-1909RR	2,4,6	I	No Resistance
NUTECH/NT-2002RR	2,4,6	I	1-11,13-15,17-18,21-22,24
NUTECH/NT-2202RR	2,4,6	I	1-11,13-15,17-18,21-22,24
NUTECH/NT-2404RR	5,7	II	1-11,13-15,17-18,21-22,24
NUTECH/NT-2505RR	7	II	No Resistance
NUTECH/NT-2550RR	7	II	1-11,13-15,17-18,21-22,24
NUTECH/NT-2707RR	7	II	1-3,6-11,13,15,17,21,23-24
NUTECH/NT-2790+RR	7	II	1-2,10-11,13,15-18,24
PETERSON/EXP 1.2RR	2,4	I	No Resistance
PETERSON/PFS 0410RR	2,4	I	1-11,13-15,17-18,21-22,24
PETERSON/PFS 0415RR	2,4	I	No Resistance
PETERSON/PFS 0511RR	2,4	I	No Resistance
PRAIRIE BR./PB-0812RR	1	0	Not Reported
PRAIRIE BR./PB-0923RR	1,3	0	1-11,13-15,17-18,21-22,24

Table C. 2004 Roundup Ready soybean entries (Continued).

Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
PRAIRIE BR./PB-0954RR	1,3	0	Not Reported
PRAIRIE BR./PB-1043RR	1	0	Not Reported
PRAIRIE BR./PB-1063RR	1	0	Not Reported
PRAIRIE BR./PB-1254RR	2	I	Not Reported
PRAIRIE BR./PB-1294RR	2,4	I	1-3,6-11,13,15,17,21,23-24
PRAIRIE BR./PB-1354RR	2	I	Not Reported
PRAIRIE BR./PB-1552RR	2,4	I	Not Reported
PRAIRIE BR./PB-1620RR	2,4	I	1-3,6-11,13,15,17,21,23-24
PRAIRIE BR./PB-1634RR	2,4	I	1-11,13-15,17-18,21-22,24
PRAIRIE BR./PB-1754RR	2,4,6	I	Not Reported
PRAIRIE BR./PB-1914RR	2,4,6	I	Not Reported
PRAIRIE BR./PB-1921RR	4	I	1-11,13-15,17-18,21-22,24
PRAIRIE BR./PB-1954RR	2,4,6	I	Not Reported
PRAIRIE BR./PB-2112RR	4,6	I	Not Reported
PRAIRIE BR./PB-2141RR	5,7	II	1-11,13-15,17-18,21-22,24
PRAIRIE BR./PB-2243RR	5,7	II	1-11,13-15,17-18,21-22,24
PRAIRIE BR./PB-2343RR	5,7	II	Not Reported
PRAIRIE BR./PB-2374RR	5,7	II	Not Reported
PRAIRIE BR./PB-2421RR	5,7	II	1-11,13-15,17-18,21-22,24
PRAIRIE BR./PB-2443RR	7	II	1-11,13-15,17-18,21-22,24
PRAIRIE BR./PB-2474RR	5,7	II	1-11,13-15,17-18,21-22,24
PRAIRIE BR./PB-2534RR	5,7	II	Not Reported
PRAIRIE BR./PB-2643RR	7	II	1-11,13-15,17-18,21-22,24
PRAIRIE BR./PB-2934RR	7	II	1-3,6-11,13,15,17,21,23-24
PUBLIC/MN-0904RR	1,3	0	1-11,13-15,17-18,21-22,24
PUBLIC/MN-1803RR	2,4,6	I	Not Reported
PUBLIC/SD00-1018R	2,6	I	Not Reported
PUBLIC/SD00-1037R	1,3	0	Not Reported
PUBLIC/SD00-1251R	1,3	0	Not Reported
PUBLIC/SD00-1258R	1,3	0	Not Reported
PUBLIC/SD00-236R	2,4,6	I	Not Reported
PUBLIC/SD01-1071R	3	0	Not Reported
PUBLIC/SD01-1075R	2,4,6	I	Not Reported
PUBLIC/SD01-1094R	2,4,6	I	Not Reported
PUBLIC/SD01-1120R	4,6	I	Not Reported
PUBLIC/SD01-1135R	5,7	II	Not Reported
PUBLIC/SD01-1200R	3	0	Not Reported
PUBLIC/SD01-1253R	1	0	Not Reported
PUBLIC/SD01-1780R	1	0	Not Reported
PUBLIC/SD01-1792R	2,4,6	I	Not Reported
PUBLIC/SD01-187R	1,3	0	Not Reported
PUBLIC/SD01-2469R	5,7	II	Not Reported
PUBLIC/SD01-2475R	1,3	0	Not Reported
PUBLIC/SD01-2493R	5,7	II	Not Reported
PUBLIC/SD01-2509R	5,7	II	Not Reported
PUBLIC/SD01-2736R	1,3	0	Not Reported
PUBLIC/SD01-2961R	5,7	II	Not Reported
PUBLIC/SD01-3219R	2,4,6	I	Not Reported
PUBLIC/SD01-3387R	4,6,6	I	Not Reported

Table C. 2004 Roundup Ready soybean entries (Continued).

Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
PUBLIC/SD01-3402R	2,6	I	Not Reported
PUBLIC/SD01-3603R	5,7	II	Not Reported
PUBLIC/SD01-5R	5,7	II	Not Reported
PUBLIC/SD01-67R	2,4,6	I	Not Reported
PUBLIC/SD01-76R	5,7	II	Not Reported
PUBLIC/SD1091RR-4	1,3	0	Not Reported
PUBLIC/SD93-1233T	1,3	0	Not Reported
PUBLIC/SD93-828R	5,7	II	Not Reported
PUBLIC/SD96-170RR-28L	2,4,6	I	Not Reported
PUBLIC/SDX00-022R-23	2,4,6	I	Not Reported
PUBLIC/SDX00-022R-53	2,4	I	Not Reported
PUBLIC/SDX00-024R-14	2,4,6	I	Not Reported
PUBLIC/SDX00-051R-23	5,7	II	Not Reported
PUBLIC/SDX00-053R-46	2,4,6	I	Not Reported
PUBLIC/SDX00R-014-50	5,7	II	Not Reported
PUBLIC/SDX00R-015-4	5,7	II	Not Reported
PUBLIC/SDX00R-022-66	4,6	I	Not Reported
PUBLIC/SDX00R-029-3	2,6	I	Not Reported
PUBLIC/SDX00R-030-16	5,7	II	Not Reported
PUBLIC/SDX00R-035-12	2,4	I	Not Reported
PUBLIC/SDX00R-035-24	3	0	Not Reported
PUBLIC/SDX00R-035-39	1,3	0	Not Reported
PUBLIC/SDX00R-035-42	4,6	I	Not Reported
PUBLIC/SDX00R-035-59	2,4,6	I	Not Reported
PUBLIC/SDX00R-039-42	5,7	II	Not Reported
RENK/RS159RR	4	I	1-3,6-11,13,15,17,21,23-24
RENK/RS199RR	4	I	1-11,13-15,17-18,21-22,24
RENK/RS223RR	5,7	II	1-11,13-15,17-18,21-22,24
RENK/RS234RR	7	II	Not Reported
RENK/RS244NRR	7	II	1-2,10-11,13,15-18,24
RENK/RS253RR	7	II	Not Reported
SANDS/EXP 0969RR	1,3	0	1-11,13-15,17-18,21-22,24
SANDS/EXP 1766RR	2,4	I	1-2,10-11,13,15-18,24
SANDS/EXP 2669RR	7	II	1-3,6-11,13,15,17,21,23-24
SANDS/SOI 0661RR	1,3	0	No Resistance
SANDS/SOI 0931RR	1,3	0	1-2,10-11,13,15-18,24
SANDS/SOI 1261RR	2,4	I	1-3,6-11,13,15,17,21,23-24
SANDS/SOI 1540RR	2,4	I	No Resistance
SANDS/SOI 2143RR	5,7	II	1-11,13-15,17-18,21-22,24
SANDS/SOI 2151NRR	7	II	1-11,13-15,17-18,21-22,24
SANDS/SOI 2169RR	5,7	II	1-2,10-11,13,15-18,24
SANDS/SOI 226RR	7	II	No Resistance
SANDS/SOI 2642NRR	7	II	1-2,10-11,13,15-18,24
SANDS/SOI 2754RR	7	II	1-11,13-15,17-18,21-22,24
SANDS/SOI 2872RR	7	II	1-3,6-11,13,15,17,21,23-24
SEEDS 2000/2090RR	1	0	No Resistance
SEEDS 2000/2130RR	2	I	Unknown

Table C. 2004 Roundup Ready soybean entries (Continued).

Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
SODAK GENETICS/SD1081RR	1,3	0	1-2,10-11,13,15-18,24
SODAK GENETICS/SD1091RR	1,3	0	1-2,10-11,13,15-18,24
SODAK GENETICS/SD1151RR	2,4,6	I	Not Reported
STINE/S0504-4	1	0	1-2,10-11,13,15-18,24
STINE/S0900-4	1	0	No Resistance
STINE/S0906-4	1,3	0	1-11,13-15,17-18,21-22,24
STINE/S0943-4	2,4	I	1-11,13-15,17-18,21-22,24
STINE/S0992-4	2	I	No Resistance
STINE/S1300-4	2,4	I	No Resistance
STINE/S1586-4	2,4	I	1-2,10-11,13,15-18,24
STINE/S1918-4	2,4,6	I	No Resistance
STINE/S2103-4	7	II	1-11,13-15,17-18,21-22,24
STINE/S2116-4	5,7	II	1-11,13-15,17-18,21-22,24
STINE/S2403-4	7	II	1-11,13-15,17-18,21-22,24
STINE/S2404-4	7	II	No Resistance
STINE/S2783-4	7	II	1-11,13-15,17-18,21-22,24
TECH. DIRECT/TD-055RR	1	0	No Resistance
TECH. DIRECT/TD-077RR	1	0	1-2,10-11,13,15-18,24
TECH. DIRECT/TD-099RR	1,3	0	No Resistance
TECH. DIRECT/TD-199RR	2,4,6	I	1-11,13-15,17-18,21-22,24
TECH. DIRECT/TD-202RR	2,4,6	I	1-11,13-15,17-18,21-22,24
TECH. DIRECT/TD-233RR	7	II	1-11,13-15,17-18,21-22,24
TECH. DIRECT/TD-255RR	7	II	No Resistance
TECH. DIRECT/TD-262RR	7	II	1-3,6-11,13,15,17,21,23-24
TECH. DIRECT/TD-266RR	7	II	1-2,10-11,13,15-18,24
THOMPSON/T-0889+RR	1,3	0	No Resistance
THOMPSON/T-1212RR/SCN	4	I	1-3,6-11,13,15,17,21,23-24
THOMPSON/T-1444RR	2	I	1-3,6-11,13,15,17,21,23-24
THOMPSON/T-1577RR	2	I	No Resistance
THOMPSON/T-1818RR/SCN	2,4	I	1-2,10-11,13,15-18,24
THOMPSON/T-1901RR	2,4	I	Not Reported
THOMPSON/T-2121RR/SCN	7	II	1-3,6-11,13,15,17,21,23-24
THOMPSON/T-2121RR/SCN	2	I	1-3,6-11,13,15,17,21,23-24
THOMPSON/T-2343RR	5,7	II	1-11,13-15,17-18,21-22,24
THOMPSON/T-2404+RR	7	II	1-11,13-15,17-18,21-22,24
THOMPSON/T-2422RR	7	II	1-11,13-15,17-18,21-22,24
THOMPSON/T-2505+RR	7	II	No Resistance
THOMPSON/T-2707+RR	7	II	1-3,6-11,13,15,17,21,23-24
THOMPSON/T-2790+RR	7	II	1-2,10-11,13,15-18,24
THOMPSON/T-7193RR/SCN	2,4	I	1-11,13-15,17-18,21-22,24
THOMPSON/T-7205RR	2,4,6	I	1-11,13-15,17-18,21-22,24
THOMPSON/T-7214RR	4,6	I	No Resistance
THOMPSON/T-7234ARR	5,7	II	1-11,13-15,17-18,21-22,24
THOMPSON/T-7234RR	2,4,6	I	1-11,13-15,17-18,21-22,24
THUNDER/2209RR	1	0	1-11,13-15,17-18,21-22,24
THUNDER/2413NRR	4	I	1-11,13-15,17-18,21-22,24

Table C. 2004 Roundup Ready soybean entries (Continued).

Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
TOP FARM/6102RR	1,3	0	Not Reported
TOP FARM/6144RR	4	I	Not Reported
TOP FARM/6174RR	4	I	Not Reported
TOP FARM/E34104RR	5,5,7	II	Not Reported
TOP FARM/E34412RR	5,7	II	Not Reported
TOP FARM/E34514RR	4	I	Not Reported
TOP FARM/E34520RR	5,7	II	Not Reported
TOP FARM/E34714RR	4,6	I	Not Reported
TOP FARM/E34904RR	4,6	I	Not Reported
TOP FARM/E3M245RR	5,7	II	Not Reported
TOP FARM/E3M278RR	5,7	II	Not Reported
TOP FARM/E3M321RR	4,6	I	Not Reported
WENSMAN/W 2062RR	1	0	Not Reported
WENSMAN/W 2090RR	1	0	Not Reported
WENSMAN/W 2103RR	1	0	1-11,13-15,17-18,21-22,24
WENSMAN/W 2121RR	2	I	1-3,6-11,13,15,17,21,23-24
WENSMAN/W 2144RR	2,4	I	1-11,13-15,17-18,21-22,24
WENSMAN/W 2163RR	4	I	1-2,10-11,13,15-18,24
WENSMAN/W 2211RR	5	II	1-11,13-15,17-18,21-22,24
WENSMAN/W 2400RR	5	II	1-11,13-15,17-18,21-22,24
ZILLER/BT 7145R	2,4	I	1-2,10-11,13,15-18,24
ZILLER/BT 7150R	4	I	1-3,6-11,13,15,17,21,23-24
ZILLER/BT 7193R	4,6	I	1-2,10-11,13,15-18,24
ZILLER/BT 7215R	7	II	1-11,13-15,17-18,21-22,24
ZILLER/EXP33513R	2	I	1-2,10-11,13,15-18,24
ZILLER/EXP44310R	2	I	1-2,10-11,13,15-18,24

Table 1a. Roundup Ready maturity group-0 soybean variety yield averages- northern South Dakota locations, 2003-2004.

Brand/Variety (By zone 2004 yield)	DTM*	----- Northern Locations ----- 2003-04 Yield Averages				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2004	Bu/Acre 2-Yr
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr		
NUTECH/NT-0999RR	126	45	.	52	.	49	.
PRAIRIE BR./PB-0954RR	128	44	.	51	.	48	.
KRUGER/101RR	128	42	31	51	49	47	40
GOLD COUNTRY/2509RR	126	43	.	50	.	47	.
DYNA-GRO/DG 33R09	126	44	.	49	.	47	.
WENSMAN/W 2103RR	126	44	32	49	47	47	40
MUSTANG/M-094RR	127	44	33	48	49	46	41
MUSTANG/M-095RR	127	43	.	48	.	46	.
KRUGER/098RR	126	42	30	50	50	46	40
KRUGER/090RR	126	42	.	49	.	46	.
PRAIRIE BR./PB-0923RR	126	40	30	51	50	46	40
DYNA-GRO/DG 37A10	126	41	.	51	.	46	.
NORTHSTAR/NS 0954RR	127	45	34	46	45	46	40
NUTECH/NT-0889RR	126	43	.	47	.	45	.
TECH. DIRECT/TD-099RR	127	43	.	46	.	45	.
THOMPSON/T-0889+RR	126	42	.	47	.	45	.
MUSTANG/M-092RR	127	39	31	48	46	44	39
MALLARD/EXP RR0914	125	40	.	47	.	44	.
NUTECH/NT-0676+RR	125	41	.	46	.	44	.
NUTECH/NT-0711ARR	129	42	.	45	.	44	.
KRUGER/EXP089RR	126	44	.	43	.	44	.
PRAIRIE BR./PB-1063RR	126	38	29	49	48	44	39
SEEDS 2000/2090RR	127	40	.	48	.	44	.
BIO GENE/BG0913RR	127	40	.	48	.	44	.
MUSTANG/M-075RR	124	40	.	45	.	43	.
NUTECH/NT-0606RR	122	41	.	45	.	43	.
TECH. DIRECT/TD-077RR	124	41	.	45	.	43	.
STINE/S0900-4	127	41	.	45	.	43	.
PRAIRIE BR./PB-1043RR	130	40	30	46	46	43	38
DYNA-GRO/DG 32Y09	123	39	.	46	.	43	.

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

Table 1a. Roundup Ready maturity group-0 soybean variety yield averages- northern South Dakota locations, 2003-2004 (continued).

Brand/Variety (By zone 2004 yield)	DTM*	----- Northern Locations ----- 2003-04 Yield Averages				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2004	Bu/Acre 2-Yr
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr		
WENSMAN/W 2090RR	126	36	.	49	.	43	.
NORTHSTAR/NS 0609RR	125	41	.	44	.	43	.
ASGROW/AG0801	124	38	29	45	47	42	38
ASGROW/AG1001	125	39	.	44	.	42	.
MUSTANG/M-083RR	125	38	31	46	46	42	39
DEKALB/DKB07-52	121	38	30	45	46	42	38
NUTECH/NT-0848RR	126	42	.	42	.	42	.
KRUGER/099+RR	126	40	32	44	48	42	40
PRAIRIE BR./PB-0812RR	126	39	30	45	45	42	38
NORTHSTAR/NS 0517RR	122	40	.	44	.	42	.
SODAK GENETICS/SD1091RR	126	38	28	45	46	42	37
MUSTANG/M-055RR	124	37	.	45	.	41	.
TECH. DIRECT/TD-055RR	122	40	.	42	.	41	.
WENSMAN/W 2062RR	122	37	29	44	47	41	38
PUBLIC/SD01-1253R	123	37	.	45	.	41	.
PUBLIC/SD1091RR-4	129	37	.	44	.	41	.
PUBLIC/MN-0904RR	126	36	28	45	47	41	38
MUSTANG/M-053RR	121	37	31	42	45	40	38
PUBLIC/SDX00R-035-39	127	39	.	41	.	40	.
DYNA-GRO/DG 31B08	123	33	.	45	.	39	.
BIO GENE/BG100RR	128	38	.	39	.	39	.
PUBLIC/SD01-187R	128	34	.	43	.	39	.
THUNDER/2209RR	126	35	.	41	.	38	.
STINE/S0906-4	128	34	.	41	.	38	.
SODAK GENETICS/SD1081RR	126	36	28	39	43	38	36
PUBLIC/SD01-2736R	126	35	.	41	.	38	.
PUBLIC/SD01-1780R	127	33	.	35	.	34	.
SANDS/SOI 0931RR	126	40	31	.	.	.	.
SANDS/EXP 0969RR	129	44	.	.	.	.	.
SANDS/SOI 0661RR	126	35	.	.	.	.	.

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

Table 1a. Roundup Ready maturity group-0 soybean variety yield averages- northern South Dakota locations, 2003-2004 (continued).

Brand/Variety (By zone 2004 yield)	DTM*	----- Northern Locations ----- 2003-04 Yield Averages				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2004	Bu/Acre 2-Yr
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr		
DAIRYLAND/DSR-040/RR	126	39	30	.	.	.	.
DAIRYLAND/DSR-050/RR	122	.	.	48	49	.	.
DAIRYLAND/DST08-000/RR	130	36	.	.	.	.	.
DAIRYLAND/DSR-091/RR	124	.	.	42	.	.	.
TOP FARM/6102RR	126	36	29	.	.	.	.
STINE/S0504-4	123	.	.	44	.	.	.
NORTHSTAR/NS 0509RR	123	34	.	.	.	.	.
NORTHSTAR/NS 0805RR	127	34	.	.	.	.	.
EXCEL/8055RR	122	.	.	48	49	.	.
EXCEL/8020RR	118	.	.	42	.	.	.
PUBLIC/SD01-2475R	131	41	.	.	.	.	.
PUBLIC/SD00-1037R	131	36	30	.	.	.	.
PUBLIC/SD00-1251R	130	35	27	.	.	.	.
PUBLIC/SD00-1258R	133	37	27	.	.	.	.
PUBLIC/SD93-1233T	130	38	30	.	.	.	.
Test avg.:	126	39	30	46	47	43	39
High value:	133	45	34	52	50	49	41
# Lsd (.05):		6	4	4	5	4	.
## TPG-value:		39	30	48	45	45	.
@ Coef. Var.:		9	10	6	7	8	.
No. Entries:		70	26	62	21	57	.

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.
 # Lsd,(.05)= amount values in a column must differ to be significantly different.
 ## TPG-value= minimum value to qualify for top performance group.
 @ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 1b. Roundup Ready maturity group-0 soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2004.

Brand/Variety (By zone protein)	DTM*	----- Northern Locations ----- 2004 Protein, Oil, & Lodging Averages						Northern Zone Averages		
		South Shore			Warner			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
SODAK GENETICS/SD1091RR	126	36.3	16.0	1	36.8	16.9	1	36.6	16.5	1
NORTHSTAR/NS 0609RR	125	35.4	15.9	1	36.2	16.3	1	35.8	16.1	1
PUBLIC/SD01-1253R	123	35.9	15.2	1	35.2	16.5	1	35.6	15.9	1
PUBLIC/SD01-1780R	127	35.4	15.7	1	35.1	16.7	1	35.3	16.2	1
MUSTANG/M-094RR	127	34.9	16.0	1	35.2	16.6	1	35.1	16.3	1
KRUGER/O99+RR	126	34.6	17.0	1	35.5	16.9	1	35.1	17.0	1
PUBLIC/SD1091RR-4	129	34.8	16.2	2	35.3	17.0	1	35.1	16.6	1
NORTHSTAR/NS 0954RR	127	34.4	17.0	1	35.5	17.0	1	35.0	17.0	1
SEEDS 2000/2090RR	127	34.6	16.4	1	35.2	16.7	1	34.9	16.6	1
BIO GENE/BG0913RR	127	34.3	16.6	1	35.3	16.5	1	34.8	16.6	1
DEKALB/DKB07-52	121	34.3	16.3	1	35.2	17.1	1	34.8	16.7	1
PRAIRIE BR./PB-1063RR	126	34.4	16.3	1	35.0	16.9	1	34.7	16.6	1
NUTECH/NT-0606RR	122	34.3	16.4	1	35.0	17.0	1	34.7	16.7	1
PUBLIC/MN-0904RR	126	34.3	16.9	1	35.0	17.3	1	34.7	17.1	1
MUSTANG/M-083RR	125	34.3	17.0	1	34.9	17.5	1	34.6	17.3	1
MUSTANG/M-092RR	127	34.4	16.3	1	34.8	17.3	1	34.6	16.8	1
KRUGER/O90RR	126	34.4	16.0	1	34.7	16.6	1	34.6	16.3	1
WENSMAN/W 2062RR	122	34.6	16.2	1	34.4	17.0	1	34.5	16.6	1
NORTHSTAR/NS 0517RR	122	34.3	16.4	1	34.7	17.2	1	34.5	16.8	1
PUBLIC/SD01-187R	128	33.6	17.0	1	35.1	17.3	1	34.4	17.2	1
NUTECH/NT-0848RR	126	33.8	16.8	1	34.9	17.3	1	34.3	17.1	1
MUSTANG/M-053RR	121	33.6	16.9	1	35.0	17.2	1	34.3	17.1	1
PRAIRIE BR./PB-0812RR	126	33.8	16.9	1	34.8	17.6	1	34.3	17.3	1
TECH. DIRECT/TD-055RR	122	34.0	16.7	1	34.3	17.1	1	34.2	16.9	1
KRUGER/EXP089RR	126	33.9	16.6	1	34.3	17.1	1	34.1	16.9	1
STINE/S0906-4	128	33.4	16.9	1	34.7	17.4	1	34.1	17.2	1
THUNDER/2209RR	126	34.0	17.1	1	33.9	17.5	1	34.0	17.3	1
NUTECH/NT-0711ARR	129	33.6	16.4	1	34.2	16.9	1	33.9	16.7	1
TECH. DIRECT/TD-077RR	124	33.9	16.2	1	33.8	17.1	1	33.8	16.7	1
MUSTANG/M-075RR	124	33.9	16.2	1	33.7	17.3	1	33.8	16.8	1

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 1b. Roundup Ready maturity group-0 soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2004 (continued).

Brand/Variety (By zone protein)	DTM*	----- Northern Locations ----- 2004 Protein, Oil, & Lodging Averages						Northern Zone Averages		
		South Shore			Warner			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
MUSTANG/M-055RR	124	33.3	16.5	1	34.1	17.0	1	33.7	16.8	1
WENSMAN/W 2103RR	126	33.2	16.8	1	34.0	17.2	1	33.6	17.0	1
NUTECH/NT-0676+RR	125	33.8	16.2	1	33.4	17.1	1	33.6	16.7	1
PRAIRIE BR./PB-0923RR	126	32.6	17.0	1	34.2	17.3	1	33.4	17.2	1
PRAIRIE BR./PB-1043RR	130	33.0	17.6	1	33.7	18.0	1	33.4	17.8	1
NUTECH/NT-0999RR	126	32.9	16.9	1	33.8	17.2	1	33.3	17.1	1
KRUGER/101RR	128	32.9	17.0	1	33.8	17.2	1	33.3	17.1	1
ASGROW/AG1001	125	33.2	16.8	1	33.2	17.7	1	33.2	17.3	1
DYNA-GRO/DG 37A10	126	32.8	16.9	1	33.6	17.3	1	33.2	17.1	1
PRAIRIE BR./PB-0954RR	128	32.7	17.4	1	33.6	17.8	1	33.2	17.6	1
GOLD COUNTRY/2509RR	126	32.8	17.3	1	33.5	17.8	1	33.2	17.6	1
BIO GENE/BG100RR	128	33.0	17.0	1	33.2	17.6	1	33.1	17.3	1
KRUGER/098RR	126	32.8	17.1	1	33.3	17.8	1	33.1	17.5	1
PUBLIC/SD01-2736R	126	33.4	17.2	1	32.6	18.5	1	33.0	17.9	1
SODAK GENETICS/SD1081RR	126	32.7	17.2	1	33.1	18.2	1	32.9	17.7	1
NUTECH/NT-0889RR	126	32.8	17.5	1	33.0	17.8	1	32.9	17.7	1
MUSTANG/M-095RR	127	32.5	17.2	1	33.2	17.7	1	32.9	17.5	1
TECH. DIRECT/TD-099RR	127	32.5	17.1	1	33.2	18.0	1	32.9	17.6	1
MALLARD/EXP RR0914	125	32.3	16.3	1	33.4	17.2	1	32.8	16.8	1
STINE/S0900-4	127	32.5	17.7	1	33.1	18.0	1	32.8	17.9	1
THOMPSON/T-0889+RR	126	32.4	17.4	1	33.2	18.0	1	32.8	17.7	1
WENSMAN/W 2090RR	126	32.3	17.2	1	33.2	17.8	1	32.8	17.5	1
DYNA-GRO/DG 33R09	126	32.9	16.3	1	32.5	16.8	1	32.7	16.6	1
DYNA-GRO/DG 32Y09	123	32.5	17.1	1	32.7	18.0	1	32.6	17.6	1
DYNA-GRO/DG 31B08	123	32.1	17.4	1	32.9	17.7	1	32.5	17.6	1
PUBLIC/SDX00R-035-39	127	31.9	17.6	1	31.9	18.8	1	31.9	18.2	1
ASGROW/AG0801	124	32.5	16.4	1	31.1	17.5	1	31.8	17.0	1
SANDS/SOI 0931RR	126	33.2	16.8	1	.	.	.	.	.	.
SANDS/EXP 0969RR	129	32.1	16.7	1	.	.	.	.	.	.
SANDS/SOI 0661RR	126	35.3	16.2	1	.	.	.	.	.	.

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 1b. Roundup Ready maturity group-0 soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2004 (continued).

Brand/Variety (By zone protein)	DTM*	----- Northern Locations ----- 2004 Protein, Oil, & Lodging Averages						Northern Zone Averages		
		South Shore			Warner					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
DAIRYLAND/DSR-040/RR	126	33.3	17.0	1	.	.	.	.	.	.
DAIRYLAND/DSR-050/RR	122	.	.	.	33.3	17.5	1	.	.	.
DAIRYLAND/DST08-000/RR	130	33.0	17.1	1	.	.	.	.	.	.
DAIRYLAND/DSR-091/RR	124	.	.	.	34.9	17.1	1	.	.	.
TOP FARM/6102RR	126	33.7	16.9	1	.	.	.	.	.	.
STINE/S0504-4	123	.	.	.	33.3	17.0	1	.	.	.
NORTHSTAR/NS 0509RR	123	33.7	17.0	1	.	.	.	.	.	.
NORTHSTAR/NS 0805RR	127	31.9	17.3	1	.	.	.	.	.	.
EXCEL/8055RR	122	.	.	.	33.3	17.5	1	.	.	.
EXCEL/8020RR	118	.	.	.	34.1	16.9	1	.	.	.
PUBLIC/SD01-2475R	131	31.8	17.2	1	.	.	.	.	.	.
PUBLIC/SD00-1037R	131	31.6	17.0	1	.	.	.	.	.	.
PUBLIC/SD00-1251R	130	34.3	16.7	1	.	.	.	.	.	.
PUBLIC/SD00-1258R	133	34.1	16.2	1	.	.	.	.	.	.
PUBLIC/SD93-1233T	130	34.7	16.2	1	.	.	.	.	.	.
Test avg.:	126	33.5	16.7	1	34.1	17.3	1	33.9	17.0	1
High value:	133	36.3	17.7	2	36.8	18.8	1	36.6	18.2	1
# Lsd(.05):				NS			NS			NS
## TPG-value:				1			1			1
@ Coef. Var.:				19			0			7
No. Entries:		70	70	70	62	62	62	57	57	57

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Lsd(.05)= amount values in a column must differ to be significantly different.

If differences among values within a column are non-significant(NS), NS is indicated.

TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. Var.= measure of trial experimental error, 15% or less is best.

Table 2a. Roundup Ready maturity group-I soybean variety yield averages- northern South Dakota locations, 2003-2004.

Brand/Variety (By zone 2004 yield)	DTM*	----- Northern Locations ----- 2003-04 Yield Averages				Northern Zone Averages	
		South Shore		Warner			
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
KRUGER/223RR	132	46	32	55	49	51	41
KRUGER/223+RR	.	47	34	52	49	50	42
NUTECH/NT-2202RR	.	44	.	53	.	49	.
KRUGER/192RR	131	45	.	53	.	49	.
STINE/S1918-4	132	46	.	52	.	49	.
STINE/S1300-4	130	46	.	51	.	49	.
PRAIRIE BR./PB-1754RR	131	44	.	53	.	49	.
ASGROW/AG1903	.	45	.	50	.	48	.
NUTECH/NT-1909RR	130	46	.	49	.	48	.
TECH. DIRECT/TD-202RR	.	44	.	52	.	48	.
KRUGER/191RR	.	48	.	48	.	48	.
KRUGER/211+RR	135	43	32	52	48	48	40
KRUGER/195+RR/SCN	130	43	.	52	.	48	.
PRAIRIE BR./PB-1954RR	130	45	.	51	.	48	.
THOMPSON/T-7234RR	131	45	.	51	.	48	.
NUTECH/NT-2002RR	.	47	.	46	.	47	.
STINE/S0943-4	127	43	31	51	46	47	39
PRAIRIE BR./PB-1914RR	130	44	.	50	.	47	.
PETERSON/PFS 0410RR	127	43	31	50	48	47	40
MUSTANG/M-151RR	129	41	30	50	45	46	38
NUTECH/NT-1010RR	126	45	.	46	.	46	.
THOMPSON/T-7205RR	129	44	.	47	.	46	.
THOMPSON/T-7193RR/SCN	.	40	.	51	.	46	.
NORTHSTAR/NS 1019RR	126	43	.	49	.	46	.
PETERSON/PFS 0511RR	129	44	.	48	.	46	.
MUSTANG/M-153RR	131	42	30	47	45	45	38
MUSTANG/M-124RR	128	40	29	49	43	45	36
MUSTANG/M-115RR	127	42	.	48	.	45	.
NK BRAND/S17-P9	133	40	.	50	.	45	.
MALLARD/EXP RR1314	128	41	.	49	.	45	.

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

Table 2a. Roundup Ready maturity group-I soybean variety yield averages- northern South Dakota locations, 2003-2004 (continued).

Brand/Variety (By zone 2004 yield)	DTM*	----- Northern Locations ----- 2003-04 Yield Averages				Northern Zone Averages	
		South Shore		Warner			
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
MALLARD/EXP RR1512	134	42	.	47	.	45	.
TECH. DIRECT/TD-199RR	132	41	.	49	.	45	.
KRUGER/EXP167RR	131	42	.	48	.	45	.
PRAIRIE BR./PB-1620RR	130	42	32	47	47	45	40
PRAIRIE BR./PB-1294RR	129	41	.	48	.	45	.
WENSMAN/W 2121RR	129	41	.	48	.	45	.
THOMPSON/T-1444RR	126	41	.	48	.	45	.
SEEDS 2000/2130RR	128	41	.	48	.	45	.
ASGROW/AG1401	127	41	31	46	.	44	.
ASGROW/AG1603	129	42	.	45	.	44	.
MUSTANG/M-155RR	130	41	.	46	.	44	.
KRUGER/149+RR	132	41	.	46	.	44	.
GOLD COUNTRY/3512RR	129	39	.	48	.	44	.
PRAIRIE BR./PB-1552RR	131	42	30	45	44	44	37
DYNA-GRO/DG 34R12	133	43	.	45	.	44	.
THOMPSON/T-1901RR	.	37	.	50	.	44	.
PETERSON/PFS 0415RR	129	39	.	49	.	44	.
NK BRAND/S14-A7	126	39	.	47	.	43	.
KRUGER/EXP152RR	129	38	.	47	.	43	.
DAIRYLAND/DST13-000/RR	128	37	.	48	.	43	.
STINE/S1586-4	132	42	.	43	.	43	.
PRAIRIE BR./PB-1254RR	127	38	.	47	.	43	.
JACOBSEN/J642R	127	41	.	45	.	43	.
WENSMAN/W 2144RR	131	36	.	49	.	43	.
THOMPSON/T-1577RR	130	38	.	48	.	43	.
SODAK GENETICS/SD1151RR	127	41	30	45	43	43	37
KRUGER/125RR	125	40	.	44	.	42	.
STINE/S0992-4	126	39	.	45	.	42	.
DYNA-GRO/DG 31C15RR	133	39	28	45	44	42	36
PETERSON/EXP 1.2RR	125	39	.	44	.	42	.

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

Table 2a. Roundup Ready maturity group-I soybean variety yield averages- northern South Dakota locations, 2003-2004 (continued).

Brand/Variety (By zone 2004 yield)	DTM*	----- Northern Locations ----- 2003-04 Yield Averages				Northern Zone Averages	
		South Shore		Warner			
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
MALLARD/EXP RR1111	126	37	.	44	.	41	.
GOLD COUNTRY/6016RR	128	37	29	45	41	41	35
DAIRYLAND/DST15-000/RR	129	37	.	45	.	41	.
KELTGEN AGVENTURE/AV 10	126	36	.	44	.	40	.
PRAIRIE BR./PB-1354RR	129	38	.	41	.	40	.
PRAIRIE BR./PB-1634RR	131	34	.	45	.	40	.
DYNA-GRO/DG 32F12	127	37	.	43	.	40	.
THOMPSON/T-1818RR/SCN	.	36	.	44	.	40	.
THOMPSON/T-2121RR/SCN	.	37	.	43	.	40	.
PUBLIC/MN-1803RR	135	38	28	42	39	40	34
MUSTANG/M-174RR	.	37	29	.	.	.	.
DEKALB/DKB19-52	.	.	.	44	43	.	.
SANDS/SOI 1540RR	134	43	.	.	.	.	.
SANDS/SOI 1261RR	134	44	.	.	.	.	.
SANDS/EXP 1766RR	.	43	.	.	.	.	.
PUBLIC/SDX00-022R-23	130	35	.	.	.	.	.
PUBLIC/SDX00-022R-53	132	43	.	.	.	.	.
PUBLIC/SDX00-024R-14	.	.	.	40	.	.	.
LATHAM/EXP-E1230R	132	36	.	.	.	.	.
LATHAM/EXP-E1330R	134	41	.	.	.	.	.
GOLD COUNTRY/6117RR	.	25	.	.	.	.	.
DAIRYLAND/DSR-130/RR	128	.	.	46	.	.	.
PUBLIC/SDX00-053R-46	134	39	.	.	.	.	.
ZILLER/EXP44310R	130	38	.	.	.	.	.
ZILLER/EXP33513R	134	42	.	.	.	.	.
ZILLER/BT 7145R	131	41	.	.	.	.	.
JACOBSEN/J647R	133	39	.	.	.	.	.
NORTHSTAR/NS 1407RR	126	.	.	44	42	.	.
NORTHSTAR/NS 1409RR	132	39	.	.	.	.	.
BIO GENE/BG150RR	134	41	.	.	.	.	.

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

Table 2a. Roundup Ready maturity group-I soybean variety yield averages- northern South Dakota locations, 2003-2004 (continued).

Brand/Variety (By zone 2004 yield)	DTM*	----- Northern Locations ----- 2003-04 Yield Averages				Northern Zone Averages	
		South Shore		Warner			
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
EXCEL/8151RR	132	39	.	.	.	.	.
EXCEL/8160RR	135	38	.	.	.	.	.
PUBLIC/SDX00R-035-12	.	30	.	.	.	.	.
PUBLIC/SDX00R-035-59	134	37	.	.	.	.	.
PUBLIC/SD01-3219R	127	.	.	42	.	.	.
PUBLIC/SD01-67R	132	.	.	44	.	.	.
PUBLIC/SD96-170RR-28L	124	.	.	48	.	.	.
PUBLIC/SD01-1075R	127	.	.	44	.	.	.
PUBLIC/SD01-1094R	.	.	.	42	.	.	.
PUBLIC/SD01-1792R	130	36	.	.	.	.	.
PUBLIC/SD01-3402R	124	.	.	41	.	.	.
PUBLIC/SD00-1018R	122	.	.	41	38	.	.
PUBLIC/SD00-236R	130	39	29	.	.	.	.
PUBLIC/SDX00R-029-3	.	.	.	43	.	.	.
Test avg.:	130	41	30	47	44	45	38
High value:	135	48	34	55	49	51	42
# Lsd (.05):		5	NS	6	6	4	.
## TPG-value:		43	29	49	43	47	.
@ Coef. Var.:		8	10	7	9	6	.
No. Entries:		92	17	82	17	70	.

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.
Lsd,(.05)= amount values in a column must differ to be significantly different.
If differences among values within a column are non-significant(NS), NS is indicated.
TPG-value= minimum value to qualify for top performance group.
@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 2b. Roundup Ready maturity group-I soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2004.

Brand/Variety (By zone protein)	DTM*	----- Northern Locations ----- 2004 Protein, Oil, & Lodging Averages						Northern Zone Averages		
		South Shore			Warner					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
THOMPSON/T-1818RR/SCN	.	33.9	16.8	1	35.3	16.9	1	34.6	16.9	1
KRUGER/125RR	125	34.5	16.7	1	33.8	17.6	1	34.2	17.2	1
PRAIRIE BR./PB-1354RR	129	34.3	16.8	1	34.0	17.1	1	34.2	17.0	1
MALLARD/EXP RR1111	126	34.1	17.1	1	33.9	17.6	1	34.0	17.4	1
DYNA-GRO/DG 32F12	127	34.1	16.7	1	33.8	17.5	1	34.0	17.1	1
KELTGEN AGVENTURE/AV 10	126	33.3	17.4	1	34.2	17.1	1	33.8	17.3	1
JACOBSEN/J642R	127	33.6	16.9	1	33.9	17.1	1	33.8	17.0	1
THOMPSON/T-1901RR	.	34.0	16.6	1	33.5	17.1	1	33.8	16.9	1
PETERSON/EXP 1.2RR	125	33.5	17.1	1	33.7	17.5	1	33.6	17.3	1
MUSTANG/M-155RR	130	33.5	16.6	2	33.6	17.5	1	33.6	17.1	1
MALLARD/EXP RR1512	134	33.3	16.9	1	33.8	17.5	1	33.6	17.2	1
PRAIRIE BR./PB-1754RR	131	33.3	16.9	1	33.8	17.0	1	33.6	17.0	1
SODAK GENETICS/SD1151RR	127	34.0	16.8	1	33.0	17.3	1	33.5	17.1	1
KRUGER/149+RR	132	33.2	16.9	1	33.6	17.3	1	33.4	17.1	1
THOMPSON/T-2121RR/SCN	.	33.3	17.0	1	33.4	17.8	1	33.3	17.4	1
DAIRYLAND/DST15-000/RR	129	33.0	17.2	1	33.6	17.2	1	33.3	17.2	1
PETERSON/PFS 0410RR	127	32.9	16.8	1	33.5	17.4	1	33.2	17.1	1
PRAIRIE BR./PB-1634RR	131	32.1	17.4	1	34.1	17.4	1	33.1	17.4	1
WENSMAN/W 2144RR	131	32.6	17.2	1	33.6	17.4	1	33.1	17.3	1
KRUGER/EXP152RR	129	33.0	17.1	1	33.0	17.7	1	33.0	17.4	1
ASGROW/AG1603	129	32.4	17.5	1	33.5	17.6	1	33.0	17.6	1
STINE/S0992-4	126	32.7	17.3	1	33.2	18.0	1	33.0	17.7	1
THOMPSON/T-1577RR	130	32.7	17.1	1	33.2	17.6	1	33.0	17.4	1
MUSTANG/M-124RR	128	32.6	18.0	1	33.2	17.7	1	32.9	17.9	1
DYNA-GRO/DG 34R12	133	32.5	17.4	1	33.3	17.9	1	32.9	17.7	1
STINE/S0943-4	127	32.4	16.9	1	33.3	17.3	1	32.8	17.1	1
ASGROW/AG1903	.	33.3	16.3	1	32.3	17.2	1	32.8	16.8	1
PUBLIC/MN-1803RR	135	32.6	17.1	2	32.8	17.9	1	32.7	17.5	1
DAIRYLAND/DST13-000/RR	128	32.2	17.6	1	33.0	17.7	1	32.6	17.7	1
STINE/S1300-4	130	32.2	17.5	1	32.7	18.0	1	32.5	17.8	1

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 2b. Roundup Ready maturity group-I soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2004 (continued).

Brand/Variety (By zone protein)	DTM*	----- Northern Locations ----- 2004 Protein, Oil, & Lodging Averages						Northern Zone Averages		
		South Shore			Warner					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
NORTHSTAR/NS 1019RR	126	31.9	16.8	1	33.0	17.2	1	32.5	17.0	1
TECH. DIRECT/TD-202RR	.	32.1	17.6	2	32.7	17.9	1	32.4	17.8	1
KRUGER/192RR	131	32.2	17.4	1	32.5	18.1	1	32.4	17.8	1
THOMPSON/T-1444RR	126	32.5	16.8	1	32.2	17.0	1	32.4	16.9	1
NUTECH/NT-1010RR	126	32.2	17.8	1	32.4	17.9	1	32.3	17.9	1
STINE/S1918-4	132	32.2	17.6	1	32.3	17.9	1	32.3	17.8	1
PRAIRIE BR./PB-1954RR	130	32.6	17.0	1	31.9	17.8	1	32.3	17.4	1
NK BRAND/S14-A7	126	32.2	17.3	1	32.2	17.8	1	32.2	17.6	1
NUTECH/NT-2202RR	.	31.8	17.6	1	32.3	18.2	1	32.1	17.9	1
ASGROW/AG1401	127	32.1	17.5	1	31.9	18.1	1	32.0	17.8	1
PRAIRIE BR./PB-1254RR	127	31.2	18.0	1	32.8	18.0	1	32.0	18.0	1
THOMPSON/T-7234RR	131	32.0	17.7	1	32.0	18.2	1	32.0	18.0	1
NUTECH/NT-1909RR	130	32.1	17.7	1	31.8	18.4	1	32.0	18.1	1
KRUGER/211+RR	135	31.7	17.7	1	32.2	18.1	1	32.0	17.9	1
PRAIRIE BR./PB-1914RR	130	31.5	17.8	1	32.4	18.3	1	32.0	18.1	1
MUSTANG/M-153RR	131	31.0	17.5	1	32.6	17.2	1	31.8	17.4	1
NUTECH/NT-2002RR	.	31.8	17.6	1	31.5	18.5	1	31.7	18.1	1
KRUGER/191RR	.	32.0	17.3	1	31.3	18.1	1	31.7	17.7	1
STINE/S1586-4	132	31.6	16.9	1	31.5	17.7	1	31.6	17.3	1
PRAIRIE BR./PB-1552RR	131	31.0	16.9	1	32.0	17.7	1	31.5	17.3	1
KRUGER/223RR	132	31.4	17.8	1	31.5	18.6	1	31.5	18.2	1
KRUGER/223+RR	.	31.3	17.5	1	31.5	18.4	1	31.4	18.0	1
DYNA-GRO/DG 31C15RR	133	30.8	17.3	1	32.0	17.5	1	31.4	17.4	1
SEEDS 2000/2130RR	128	30.5	17.4	1	32.3	17.6	1	31.4	17.5	1
KRUGER/EXP167RR	131	30.8	17.4	1	31.8	18.0	1	31.3	17.7	1
THOMPSON/T-7193RR/SCN	.	31.1	18.5	1	31.5	18.7	1	31.3	18.6	1
THOMPSON/T-7205RR	129	30.8	18.0	1	31.6	18.4	1	31.2	18.2	1
KRUGER/195+RR/SCN	130	30.9	18.3	1	31.5	18.7	1	31.2	18.5	1
TECH. DIRECT/TD-199RR	132	30.7	17.3	1	31.6	18.2	1	31.2	17.8	1
PRAIRIE BR./PB-1620RR	130	30.9	17.1	1	31.2	17.5	1	31.1	17.3	1

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 2b. Roundup Ready maturity group-I soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2004 (continued).

Brand/Variety (By zone protein)	DTM*	----- Northern Locations ----- 2004 Protein, Oil, & Lodging Averages						Northern Zone Averages		
		South Shore			Warner					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
NK BRAND/S17-P9	133	30.9	16.9	1	31.0	17.5	1	31.0	17.2	1
MUSTANG/M-151RR	129	30.6	17.0	1	31.2	17.4	1	30.9	17.2	1
WENSMAN/W 2121RR	129	30.6	17.0	1	31.1	17.3	1	30.9	17.2	1
PETERSON/PFS 0415RR	129	30.5	17.3	1	31.2	17.2	1	30.9	17.3	1
PETERSON/PFS 0511RR	129	31.1	16.9	1	30.5	17.7	1	30.8	17.3	1
MALLARD/EXP RR1314	128	30.6	16.7	1	30.9	17.4	1	30.8	17.1	1
MUSTANG/M-115RR	127	30.5	17.1	1	30.6	17.6	1	30.6	17.4	1
GOLD COUNTRY/6016RR	128	30.4	17.2	1	30.7	17.7	1	30.6	17.5	1
PRAIRIE BR./PB-1294RR	129	29.7	17.3	1	31.0	17.5	1	30.4	17.4	1
GOLD COUNTRY/3512RR	129	30.2	17.4	1	30.4	17.8	1	30.3	17.6	1
MUSTANG/M-174RR	.	33.3	16.6	1	.	.	.	.	.	.
DEKALB/DKB19-52	.	.	.	.	31.6	18.3	1	.	.	.
SANDS/SOI 1540RR	134	32.4	16.8	1	.	.	.	.	.	.
SANDS/SOI 1261RR	134	32.1	16.2	1	.	.	.	.	.	.
SANDS/EXP 1766RR	.	33.7	16.6	1	.	.	.	.	.	.
PUBLIC/SDX00-022R-23	130	33.5	16.8	1	.	.	.	.	.	.
PUBLIC/SDX00-022R-53	132	33.1	17.2	1	.	.	.	.	.	.
PUBLIC/SDX00-024R-14	.	.	.	.	32.2	17.6	1	.	.	.
LATHAM/EXP-E1230R	132	33.6	17.1	1	.	.	.	.	.	.
LATHAM/EXP-E1330R	134	30.5	17.1	1	.	.	.	.	.	.
GOLD COUNTRY/6117RR	.	35.5	16.1	1	.	.	.	.	.	.
DAIRYLAND/DSR-130/RR	128	.	.	.	33.0	17.0	1	.	.	.
PUBLIC/SDX00-053R-46	134	31.8	17.6	2	.	.	.	.	.	.
ZILLER/EXP44310R	130	33.7	17.0	1	.	.	.	.	.	.
ZILLER/EXP33513R	134	30.2	17.1	1	.	.	.	.	.	.
ZILLER/BT 7145R	131	32.2	17.5	1	.	.	.	.	.	.
JACOBSEN/J647R	133	31.6	17.4	1	.	.	.	.	.	.
NORTHSTAR/NS 1407RR	126	.	.	.	32.6	17.8	1	.	.	.
NORTHSTAR/NS 1409RR	132	32.2	17.0	1	.	.	.	.	.	.
BIO GENE/BG150RR	134	30.5	16.9	1	.	.	.	.	.	.

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 2b. Roundup Ready maturity group-I soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2004 (continued).

Brand/Variety (By zone protein)	DTM*	----- Northern Locations ----- 2004 Protein, Oil, & Lodging Averages						Northern Zone Averages		
		South Shore			Warner					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
EXCEL/8151RR	132	33.9	16.7	1	.	.	.	.	.	.
EXCEL/8160RR	135	31.7	17.2	1	.	.	.	.	.	.
PUBLIC/SDX00R-035-12	.	31.8	16.6	2	.	.	.	.	.	.
PUBLIC/SDX00R-035-59	134	33.5	16.9	1	.	.	.	.	.	.
PUBLIC/SD01-3219R	127	.	.	.	31.8	17.3	1	.	.	.
PUBLIC/SD01-67R	132	.	.	.	35.1	18.1	1	.	.	.
PUBLIC/SD96-170RR-28L	124	.	.	.	32.8	17.9	1	.	.	.
PUBLIC/SD01-1075R	127	.	.	.	32.9	18.3	1	.	.	.
PUBLIC/SD01-1094R	.	.	.	.	32.6	18.4	1	.	.	.
PUBLIC/SD01-1792R	130	34.2	16.4	1	.	.	.	.	.	.
PUBLIC/SD01-3402R	124	.	.	.	36.4	16.0	1	.	.	.
PUBLIC/SD00-1018R	122	.	.	.	31.3	18.2	1	.	.	.
PUBLIC/SD00-236R	130	34.6	16.9	1	.	.	.	.	.	.
PUBLIC/SDX00R-029-3	.	.	.	.	32.5	18.4	1	.	.	.
Test avg.:	130	32.2	17.2	1	32.5	17.7	1	32.3	17.5	1
High value:	135	35.5	18.5	2	36.4	18.7	1	34.6	18.6	1
# Lsd(.05):				0			NS			NS
## TPG-value:				1			1			1
@ Coef.Var.:				28			11			20
No. Entries:		92	92	92	82	82	82	70	70	70

* DTM= days from seeding (South Shore- May 21, Warner- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Lsd(.05)= amount values in a column must differ to be significantly different.

If differences among values within a column are non-significant (NS), NS is indicated.

TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. Var.= measure of trial experimental error, 15% or less is best.

Table 3a. Roundup Ready maturity group-0 soybean variety yield averages- central South Dakota locations, 2003-2004.

Brand/Variety (By zone 2004 yield)	DTM*	Central Location 2003-04 Yield Averages	
		Brookings	
		Bu/Acre 2004	Bu/Acre 2-Yr
MUSTANG/M-094RR	121	51	46
NUTECH/NT-0999RR	120	51	.
KRUGER/090RR	118	51	.
NORTHSTAR/NS 0954RR	118	51	47
KRUGER/101RR	119	50	48
THOMPSON/T-0889+RR	118	50	.
MUSTANG/M-083RR	119	49	46
TECH. DIRECT/TD-099RR	122	49	.
DYNA-GRO/DG 37A10	118	49	.
MUSTANG/M-095RR	119	48	.
NUTECH/NT-0889RR	118	48	.
BIO GENE/BG0913RR	119	48	.
ASGROW/AG1001	120	47	.
SANDS/EXP 0969RR	118	47	.
NUTECH/NT-0811RR	119	47	.
KRUGER/098RR	119	47	45
PUBLIC/SDX00R-035-24	119	47	.
DEKALB/DKB07-52	112	46	44
KRUGER/099+RR	117	46	43
TOP FARM/6102RR	116	46	44
DYNA-GRO/DG 33R09	115	46	.
PUBLIC/SD01-2475R	120	46	.
SANDS/SOI 0931RR	117	45	43
NUTECH/NT-0848RR	117	45	.
DYNA-GRO/DG 32Y09	115	45	.
BIO GENE/BG100RR	118	45	.
PUBLIC/MN-0904RR	117	45	42
ASGROW/AG0801	114	44	.
DYNA-GRO/DG 31B08	115	44	.
PUBLIC/SDX00R-035-39	119	43	.

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

Table 3a. Roundup Ready maturity group-0 soybean variety yield averages- central South Dakota locations, 2003-2004 (continued).

Brand/Variety (By zone 2004 yield)	DTM*	Central Location 2003-04 Yield Averages	
		Brookings	
		Bu/Acre 2004	Bu/Acre 2-Yr
PUBLIC/SD01-1200R	117	43	.
PUBLIC/SD00-1258R	121	43	39
DAIRYLAND/DST08-000/RR	118	42	.
SODAK GENETICS/SD1081RR	117	42	41
SODAK GENETICS/SD1091RR	115	42	39
PUBLIC/SD93-1233T	116	42	40
PUBLIC/SD01-1071R	118	41	.
PUBLIC/SD1091RR-4	121	40	.
PUBLIC/SD00-1251R	119	40	38
PUBLIC/SD00-1037R	120	38	37
SANDS/SOI 0661RR	116	37	.
Test avg.:	118	46	43
High value:	122	51	48
# Lsd (.05):		4	4
## TPG-value:		47	44
@ Coef. Var.:		5	6
No. Entries:		42	16

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.
 # Lsd,(.05)= amount values in a column must differ to be significantly different.
 ## TPG-value= minimum value to qualify for top performance group.
 @ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 3b. Roundup Ready maturity group-0 soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2004.

Brand/Variety (By protein)	DTM*	---- Central Location ---- 2004 Protein, Oil, & Lodging Averages		
		Brookings		
		Protein (%)	Oil (%)	Lodging (1-5)*
PUBLIC/SD00-1251R	119	38.5	15.4	3
PUBLIC/SD93-1233T	116	38.2	15.3	2
SODAK GENETICS/SD1091RR	115	38.1	15.8	2
PUBLIC/SD01-1071R	118	38.0	15.3	2
PUBLIC/SD1091RR-4	121	37.3	15.9	3
MUSTANG/M-094RR	121	37.1	15.7	2
KRUGER/099+RR	117	37.1	16.3	2
NUTECH/NT-0811RR	119	37.0	16.2	2
SANDS/SOI 0661RR	116	36.9	16.4	2
BIO GENE/BG0913RR	119	36.9	15.6	2
PUBLIC/MN-0904RR	117	36.8	16.4	2
MUSTANG/M-083RR	119	36.7	16.5	2
KRUGER/090RR	118	36.7	15.5	1
NORTHSTAR/NS 0954RR	118	36.7	16.4	2
PUBLIC/SD00-1258R	121	36.7	15.7	2
SANDS/SOI 0931RR	117	36.1	16.3	2
DEKALB/DKB07-52	112	35.8	16.5	2
NUTECH/NT-0999RR	120	35.7	16.3	2
PUBLIC/SD01-1200R	117	35.7	16.7	2
TOP FARM/6102RR	116	35.6	16.5	1
THOMPSON/T-0889+RR	118	35.6	16.7	3
NUTECH/NT-0848RR	117	35.5	16.6	2
TECH. DIRECT/TD-099RR	122	35.5	16.9	3
KRUGER/101RR	119	35.5	16.5	2
DYNA-GRO/DG 37A10	118	35.4	16.6	2
MUSTANG/M-095RR	119	35.2	17.0	3
NUTECH/NT-0889RR	118	35.2	16.6	2
KRUGER/098RR	119	35.2	16.7	2
DYNA-GRO/DG 32Y09	115	35.2	16.5	2
BIO GENE/BG100RR	118	35.1	16.6	3

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 3b. Roundup Ready maturity group-0 soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2004 (continued).

Brand/Variety (By protein)	DTM*	---- Central Location ---- 2004 Protein, Oil, & Lodging Averages		
		Brookings		
		Protein (%)	Oil (%)	Lodging (1-5)*
ASGROW/AG1001	120	34.9	16.4	2
DYNA-GRO/DG 31B08	115	34.9	17.1	2
SODAK GENETICS/SD1081RR	117	34.9	17.0	1
PUBLIC/SD00-1037R	120	34.8	16.5	3
SANDS/EXP 0969RR	118	34.7	16.5	2
DAIRYLAND/DST08-000/RR	118	34.7	17.1	2
PUBLIC/SDX00R-035-24	119	34.7	16.3	3
PUBLIC/SD01-2475R	120	34.6	16.5	3
ASGROW/AG0801	114	34.5	16.2	2
DYNA-GRO/DG 33R09	115	34.5	16.2	2
PUBLIC/SDX00R-035-39	119	33.7	17.2	2
Test avg.:	118	35.9	16.4	2
High value:	122	38.5	17.2	3
* Lsd(.05):				1
## TPG-value:				2
### Coef.Var.:				24
No. Entries:		41	41	41

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Lsd,(.05)= amount values in a column must differ to be significantly different.

If differences among values within a column are non-significant (NS), NS is indicated.

TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. Var.= measure of trial experimental error, 15% or less is best.

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Table 4a. Roundup Ready maturity group-I soybean variety yield averages- central South Dakota locations, 2003-2004.

Brand/Variety (By 2004 yield)	DTM*	Central Location 2003-04 Yield Averages	
		Brookings	
		Bu/Acre 2004	Bu/Acre 2-Yr
NK BRAND/S19-R5	.	53	.
NORTHSTAR/NS 1019RR	120	53	.
SANDS/EXP 1766RR	.	52	.
KRUGER/191RR	.	51	.
KRUGER/192RR	.	51	.
LATHAM/EXP-E1936R	.	51	.
TOP FARM/E34904RR	.	51	.
PETERSON/PFS 0410RR	119	51	49
MUSTANG/M-153RR	123	50	46
MUSTANG/M-124RR	120	50	47
KRUGER/223+RR	.	50	50
KRUGER/223RR	.	50	48
TOP FARM/E34714RR	.	50	.
PRAIRIE BR./PB-1914RR	.	50	.
THOMPSON/T-7214RR	.	50	.
THOMPSON/T-7193RR/SCN	.	50	.
COYOTE/4719RR	.	49	.
MUSTANG/M-194NRR	.	49	44
NK BRAND/S14-A7	118	49	.
FARM ADVANTAGE/7192	.	49	.
THUNDER/2413NRR	120	49	.
TECH. DIRECT/TD-199RR	.	49	.
PRAIRIE BR./PB-1754RR	.	49	.
PRAIRIE BR./PB-1954RR	.	49	.
NORTHSTAR/NS 1407RR	.	49	46
ASGROW/AG1903	122	48	.
SANDS/SOI 1540RR	.	48	.
NUTECH/NT-2002RR	.	48	.
TOP FARM/6174RR	.	48	.
PRAIRIE BR./PB-1552RR	.	48	48

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

Table 4a. Roundup Ready maturity group-I soybean variety yield averages- central South Dakota locations, 2003-2004 (continued).

Brand/Variety (By 2004 yield)	DTM*	Central Location 2003-04 Yield Averages	
		Brookings	
		Bu/Acre 2004	Bu/Acre 2-Yr
PRAIRIE BR./PB-2112RR	.	48	46
WENSMAN/W 2163RR	.	48	.
ASGROW/AG1603	.	47	.
MUSTANG/M-115RR	123	47	.
NUTECH/NT-1909RR	.	47	.
KRUGER/155+RR	122	47	.
KRUGER/EXP167RR	.	47	.
STINE/S1918-4	.	47	47
PRAIRIE BR./PB-1921RR	.	47	46
DYNA-GRO/DG 31C15RR	.	47	47
DYNA-GRO/DG 34R12	.	47	.
ZILLER/BT 7145R	123	47	.
THOMPSON/T-7234RR	.	47	.
PETERSON/EXP 1.2RR	119	47	.
ASGROW/AG1401	.	46	.
NUTECH/NT-1010RR	118	46	.
NUTECH/NT-2202RR	.	46	.
TECH. DIRECT/TD-202RR	.	46	.
KRUGER/211+RR	.	46	46
DAIRYLAND/DST13-000/RR	119	46	.
TOP FARM/E3M321RR	.	46	.
NORTHSTAR/NS 1710RR	123	46	.
PETERSON/PFS 0415RR	.	46	.
PUBLIC/SD96-170RR-28L	121	46	.
NK BRAND/S17-P9	.	45	.
KRUGER/125RR	120	45	.
TOP FARM/6144RR	121	45	.
WENSMAN/W 2144RR	.	45	.
THOMPSON/T-7205RR	.	45	46
THOMPSON/T-1212RR/SCN	.	45	.

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

Table 4a. Roundup Ready maturity group-I soybean variety yield averages- central South Dakota locations, 2003-2004 (continued).

Brand/Variety (By 2004 yield)	DTM*	Central Location 2003-04 Yield Averages	
		Brookings	
		Bu/Acre 2004	Bu/Acre 2-Yr
THOMPSON/T-1901RR	.	45	.
NORTHSTAR/NS 1409RR	121	45	.
SODAK GENETICS/SD1151RR	121	45	42
MUSTANG/M-174RR	.	44	44
MUSTANG/E-1852NRR	.	44	.
SANDS/SOI 1261RR	122	44	.
LATHAM/EXP-E1635R	.	44	.
DAIRYLAND/DSR-155/RR	122	44	44
DAIRYLAND/DSR-199/RR	.	44	44
DAIRYLAND/DST15-000/RR	.	44	.
TOP FARM/E34514RR	.	44	.
DYNA-GRO/DG 32F12	120	44	.
EXCEL/8160RR	.	44	.
PUBLIC/SDX00R-035-59	123	44	.
PUBLIC/MN-1803RR	.	44	41
MUSTANG/M-151RR	122	43	42
MUSTANG/M-155RR	.	43	.
DAIRYLAND/DSR-184/RR	.	43	.
PUBLIC/SDX00-053R-46	.	43	.
BIO GENE/BG150RR	120	43	.
EXCEL/8192RR	.	43	.
EXCEL/8194RR	.	43	.
PRAIRIE BR./PB-1294RR	.	42	.
PRAIRIE BR./PB-1634RR	120	42	.
ZILLER/BT 7150R	.	42	45
ZILLER/BT 7193R	.	42	43
RENK/RS199RR	.	42	40
EXCEL/8151RR	.	42	.
PETERSON/PFS 0511RR	.	42	.
PUBLIC/SDX00R-022-66	119	42	.

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

Table 4a. Roundup Ready maturity group-I soybean variety yield averages- central South Dakota locations, 2003-2004 (continued).

Brand/Variety (By 2004 yield)	Central Location 2003-04 Yield Averages		
	Brookings		
	DTM*	Bu/Acre 2004	Bu/Acre 2-Yr
PRAIRIE BR./PB-1620RR	.	41	40
RENK/RS159RR	.	41	.
PUBLIC/SD00-236R	122	41	39
THOMPSON/T-1818RR/SCN	.	40	.
PUBLIC/SD01-1120R	.	40	.
PUBLIC/SDX00-022R-53	119	39	.
PUBLIC/SD01-1792R	119	39	.
PUBLIC/SDX00-022R-23	119	38	.
PUBLIC/SD01-3387R	120	38	.
Test avg.:	121	46	45
High value:	123	53	50
# Lsd (.05):		4	5
## TPG-value:		49	45
### Coef.Var.:		6	7
No. Entries:		99	25

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different.

TPG-value= minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 4b. Roundup Ready maturity group-I soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2004.

Brand/Variety (By protein)	DTM*	--- Central Location --- 2004 Protein, Oil, & Lodging Averages		
		Brookings		
		Protein (%)	Oil (%)	Lodging (1-5)*
THOMPSON/T-1818RR/SCN	.	38.0	15.5	3
DAIRYLAND/DSR-155/RR	122	37.7	16.6	3
MUSTANG/E-1852NRR	.	37.6	15.9	3
DAIRYLAND/DSR-199/RR	.	37.6	15.9	3
ZILLER/BT 7193R	.	37.5	16.2	3
PUBLIC/MN-1803RR	.	37.5	15.6	3
PUBLIC/SD01-1792R	119	37.4	15.7	2
PUBLIC/SD00-236R	122	37.4	16.3	3
KRUGER/125RR	120	37.1	16.1	2
PRAIRIE BR./PB-1634RR	120	37.1	16.0	2
PETERSON/EXP 1.2RR	119	36.9	16.4	3
SODAK GENETICS/SD1151RR	121	36.9	16.0	3
PUBLIC/SDX00-022R-23	119	36.8	16.1	2
PRAIRIE BR./PB-1754RR	.	36.8	15.8	2
PUBLIC/SD01-3387R	120	36.8	15.9	2
DYNA-GRO/DG 32F12	120	36.7	16.2	2
TOP FARM/E34514RR	.	36.6	16.3	3
RENK/RS199RR	.	36.6	16.3	3
MUSTANG/M-124RR	120	36.5	16.5	2
MUSTANG/M-174RR	.	36.5	15.8	2
SANDS/EXP 1766RR	.	36.5	16.0	2
LATHAM/EXP-E1635R	.	36.5	16.3	3
WENSMAN/W 2144RR	.	36.5	16.1	2
WENSMAN/W 2163RR	.	36.5	15.7	2
ASGROW/AG1603	.	36.4	16.0	2
EXCEL/8151RR	.	36.4	16.0	1
PUBLIC/SDX00R-035-59	123	36.4	16.1	3
THOMPSON/T-1901RR	.	36.3	16.0	3
MUSTANG/M-155RR	.	36.2	16.0	3
DAIRYLAND/DST13-000/RR	119	36.0	16.6	2

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 4b. Roundup Ready maturity group-I soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2004 (continued).

Brand/Variety (By protein)	DTM*	--- Central Location --- 2004 Protein, Oil, & Lodging Averages		
		Brookings		
		Protein (%)	Oil (%)	Lodging (1-5)*
EXCEL/8192RR	.	36.0	16.0	2
EXCEL/8194RR	.	35.9	16.9	2
PUBLIC/SDX00-022R-53	119	35.8	16.1	3
DYNA-GRO/DG 34R12	.	35.8	16.9	2
EXCEL/8160RR	.	35.8	16.5	3
PETERSON/PFS 0410RR	119	35.7	16.5	2
NORTHSTAR/NS 1409RR	121	35.6	16.3	2
TOP FARM/E34714RR	.	35.5	16.8	2
NORTHSTAR/NS 1019RR	120	35.4	16.7	2
PUBLIC/SD96-170RR-28L	121	35.4	16.5	3
KRUGER/155+RR	122	35.3	16.7	1
TOP FARM/6144RR	121	35.3	16.6	2
PUBLIC/SD01-1120R	.	35.3	17.2	3
PUBLIC/SDX00R-022-66	119	35.0	16.7	3
MUSTANG/M-151RR	122	34.9	15.9	3
NUTECH/NT-1010RR	118	34.9	17.2	2
NUTECH/NT-2202RR	.	34.9	16.8	2
KRUGER/211+RR	.	34.9	16.9	2
KRUGER/223RR	.	34.9	16.3	1
TOP FARM/E3M321RR	.	34.9	17.3	2
THOMPSON/T-7234RR	.	34.9	17.3	1
NORTHSTAR/NS 1407RR	.	34.9	16.9	2
NORTHSTAR/NS 1710RR	123	34.9	16.3	3
NK BRAND/S14-A7	118	34.8	16.8	1
SANDS/SOI 1540RR	.	34.8	16.2	2
THUNDER/2413NRR	120	34.8	16.5	2
TOP FARM/E34904RR	.	34.8	17.0	2
PRAIRIE BR./PB-1552RR	.	34.8	16.2	1
PRAIRIE BR./PB-2112RR	.	34.8	16.9	2
PRAIRIE BR./PB-1954RR	.	34.8	16.7	2

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 4b. Roundup Ready maturity group-I soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2004 (continued).

Brand/Variety (By protein)	DTM*	--- Central Location --- 2004 Protein, Oil, & Lodging Averages		
		Brookings		
		Protein (%)	Oil (%)	Lodging (1-5)*
ZILLER/BT 7145R	123	34.8	17.0	1
LATHAM/EXP-E1936R	.	34.7	17.3	2
DAIRYLAND/DSR-184/RR	.	34.7	17.0	2
PUBLIC/SDX00-053R-46	.	34.7	16.7	4
NK BRAND/S19-R5	.	34.6	16.4	2
KRUGER/192RR	.	34.6	17.0	2
DAIRYLAND/DST15-000/RR	.	34.6	16.8	2
PRAIRIE BR./PB-1914RR	.	34.6	17.2	1
DYNA-GRO/DG 31C15RR	.	34.6	16.1	1
TECH. DIRECT/TD-202RR	.	34.5	17.2	1
MUSTANG/M-153RR	123	34.4	16.5	2
RENK/RS159RR	.	34.4	15.8	3
BIO GENE/BG150RR	120	34.4	15.6	2
NK BRAND/S17-P9	.	34.3	16.2	2
NUTECH/NT-1909RR	.	34.3	17.3	1
KRUGER/EXP167RR	.	34.3	17.1	1
TOP FARM/6174RR	.	34.3	17.4	1
THOMPSON/T-7214RR	.	34.3	17.3	2
NUTECH/NT-2002RR	.	34.2	17.0	2
TECH. DIRECT/TD-199RR	.	34.2	17.1	1
STINE/S1918-4	.	34.2	17.0	2
ZILLER/BT 7150R	.	34.2	16.1	2
THOMPSON/T-7205RR	.	34.2	17.4	1
PETERSON/PFS 0511RR	.	34.2	15.9	3
PETERSON/PFS 0415RR	.	34.2	16.3	3
ASGROW/AG1401	.	34.1	16.8	2
PRAIRIE BR./PB-1620RR	.	34.1	16.4	3
ASGROW/AG1903	122	34.0	16.4	2
FARM ADVANTAGE/7192	.	34.0	17.1	1
SANDS/SOI 1261RR	122	34.0	16.3	3

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 4b. Roundup Ready maturity group-I soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2004 (continued).

Brand/Variety (By protein)	DTM*	--- Central Location --- 2004 Protein, Oil, & Lodging Averages		
		Brookings		
		Protein (%)	Oil (%)	Lodging (1-5)*
MUSTANG/M-194NRR	.	33.9	17.7	2
PRAIRIE BR./PB-1294RR	.	33.9	16.1	2
COYOTE/4719RR	.	33.8	17.2	2
THOMPSON/T-7193RR/SCN	.	33.8	17.5	2
PRAIRIE BR./PB-1921RR	.	33.7	17.0	1
MUSTANG/M-115RR	123	33.5	16.3	2
KRUGER/223+RR	.	33.5	17.2	1
KRUGER/191RR	.	33.5	17.4	2
THOMPSON/T-1212RR/SCN	.	33.4	16.5	2
Test avg.:	121	35.3	16.5	2
High value:	123	38.0	17.7	4
* Lsd(.05):				1
## TPG-value:				2
@ Coef. Var.:				28
No. Entries:		99	99	99

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Lsd,(.05)= amount values in a column must differ to be significantly different.

If differences among values within a column are non-significant (NS), NS is indicated.

TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. Var.= measure of trial experimental error, 15% or less is best.

Table 5a. Roundup Ready maturity group-II soybean variety yield averages- central South Dakota locations, 2003-2004.

Brand/Variety (By 2004 yield)	DTM*	Central Location 2003-04 Yield Averages	
		Brookings	
		Bu/Acre 2004	Bu/Acre 2-Yr
FARM ADVANTAGE/7205	.	55	.
SANDS/SOI 2143RR	.	54	52
SANDS/SOI 2169RR	.	54	.
MUSTANG/M-203RR	.	53	52
KRUGER/200RR	.	53	.
LATHAM/L2136R	.	53	50
GOLD COUNTRY/6221RR	.	53	49
THOMPSON/T-7243RR	.	53	47
NORTHSTAR/NS 2009RR	.	53	.
ASGROW/AG2403	.	52	.
DEKALB/DKB22-52	.	52	.
PRAIRIE BR./PB-2243RR	.	52	48
JACOBSEN/J730NR	.	52	48
MUSTANG/M-201RR	.	51	49
TOP FARM/E34412RR	.	51	.
PRAIRIE BR./PB-2141RR	.	51	50
RENK/RS223RR	.	51	50
TOP FARM/E34104RR	.	50	.
PRAIRIE BR./PB-2343RR	.	50	50
JACOBSEN/J733R	.	50	48
WENSMAN/W 2211RR	.	50	49
MUSTANG/M-223RR	.	49	.
DAIRYLAND/DSR-234/RR	.	48	47
STINE/S2116-4	.	48	46
KRUGER/233+RR	.	47	47
TOP FARM/E34520RR	.	47	.
PUBLIC/SDX00R-014-50	.	47	.
PUBLIC/SD01-76R	.	47	.
DAIRYLAND/DST20-000/RR	.	46	.
PRAIRIE BR./PB-2421RR	.	46	43

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

Table 5a. Roundup Ready maturity group-II soybean variety yield averages- central South Dakota locations, 2003-2004 (continued).

Brand/Variety (By 2004 yield)	DTM*	Central Location 2003-04 Yield Averages	
		Brookings	
		Bu/Acre 2004	Bu/Acre 2-Yr
PRAIRIE BR./PB-2374RR	.	46	.
THOMPSON/T-2343RR	.	46	.
PUBLIC/SDX00R-039-42	.	46	.
PUBLIC/SD01-5R	.	46	.
PUBLIC/SD93-828R	.	46	40
COYOTE/4523RR	.	45	.
KRUGER/EXP234RR	.	45	.
PRAIRIE BR./PB-2534RR	.	45	.
EXCEL/8211NRR	.	45	.
PUBLIC/SD01-2493R	.	45	.
PUBLIC/SD01-2509R	.	45	.
ASGROW/AG2203	.	44	.
KRUGER/EXP268RR	.	43	44
KRUGER/EXP257RR	.	43	.
KRUGER/268+RR	.	43	.
TOP FARM/E3M278RR	.	43	.
PUBLIC/SDX00R-030-16	.	40	.
TOP FARM/E3M245RR	.	39	.
NUTECH/NT-2404RR	.	35	.
PRAIRIE BR./PB-2474RR	.	35	.
PUBLIC/SD01-3603R	.	35	.
KRUGER/252RR	.	34	.
WENSMAN/W 2400RR	.	34	.
Test avg.:	.	47	48
High value:	.	55	52
# Lsd (.05):	.	3	6
## TPG-value:	.	52	46
@ Coef. Var.:	.	4	7
No. Entries:	.	53	19

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.
 # Lsd, (.05)= amount values in a column must differ to be significantly different.
 ## TPG-value= minimum value to qualify for top performance group.
 @ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 5b. Roundup Ready maturity group-II soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2004.

Brand/Variety (By protein)	DTM*	--- Central Locations --- 2004 Protein, Oil, & Lodging Averages		
		Brookings		
		Protein (%)	Oil (%)	Lodging (1-5)*
PUBLIC/SDX00R-030-16	.	41.1	14.9	3
TOP FARM/E34520RR	.	38.4	15.9	3
KRUGER/268+RR	.	38.3	16.0	2
PRAIRIE BR./PB-2534RR	.	38.3	15.9	3
TOP FARM/E3M245RR	.	38.0	15.1	4
WENSMAN/W 2400RR	.	38.0	15.2	3
PRAIRIE BR./PB-2474RR	.	37.5	15.5	3
NUTECH/NT-2404RR	.	37.3	15.4	3
KRUGER/EXP234RR	.	37.2	16.5	3
THOMPSON/T-2343RR	.	37.2	16.2	3
PUBLIC/SD93-828R	.	37.0	16.3	2
DAIRYLAND/DST20-000/RR	.	36.9	15.9	3
KRUGER/252RR	.	36.8	16.5	3
COYOTE/4523RR	.	36.6	16.6	2
PRAIRIE BR./PB-2343RR	.	36.3	16.1	2
RENK/RS223RR	.	36.3	16.1	2
EXCEL/8211NRR	.	36.2	16.1	4
PRAIRIE BR./PB-2374RR	.	36.0	15.8	4
PRAIRIE BR./PB-2421RR	.	35.9	15.8	3
PUBLIC/SDX00R-014-50	.	35.8	17.2	3
KRUGER/EXP257RR	.	35.2	17.1	3
PUBLIC/SD01-2493R	.	35.1	16.4	2
KRUGER/233+RR	.	34.8	16.4	3
PUBLIC/SD01-5R	.	34.8	15.9	3
PUBLIC/SD01-76R	.	34.8	16.5	3
PUBLIC/SD01-3603R	.	34.8	16.6	4
LATHAM/L2136R	.	34.7	17.0	2
TOP FARM/E34412RR	.	34.7	16.9	2
WENSMAN/W 2211RR	.	34.7	16.7	2
MUSTANG/M-203RR	.	34.6	16.9	2

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 5b. Roundup Ready maturity group-II soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2004 (continued).

Brand/Variety (By protein)	DTM*	--- Central Locations --- 2004 Protein, Oil, & Lodging Averages		
		Brookings		
		Protein (%)	Oil (%)	Lodging (1-5)*
TOP FARM/E34104RR	.	34.5	17.1	2
FARM ADVANTAGE/7205	.	34.4	16.8	4
DAIRYLAND/DSR-234/RR	.	34.4	15.7	3
PUBLIC/SD01-2509R	.	34.4	15.7	3
MUSTANG/M-223RR	.	34.3	17.0	1
DEKALB/DKB22-52	.	34.3	17.0	1
KRUGER/200RR	.	34.3	16.9	3
STINE/S2116-4	.	34.2	16.8	2
THOMPSON/T-7243RR	.	34.2	17.0	2
PRAIRIE BR./PB-2243RR	.	34.1	17.0	1
JACOBSEN/J733R	.	33.9	17.1	2
ASGROW/AG2403	.	33.8	17.0	1
SANDS/SOI 2169RR	.	33.8	16.8	3
ASGROW/AG2203	.	33.7	17.7	3
MUSTANG/M-201RR	.	33.7	17.2	1
KRUGER/EXP268RR	.	33.7	17.1	3
TOP FARM/E3M278RR	.	33.7	17.0	3
JACOBSEN/J730NR	.	33.7	17.7	2
PRAIRIE BR./PB-2141RR	.	33.6	17.4	1
SANDS/SOI 2143RR	.	33.5	17.1	1
NORTHSTAR/NS 2009RR	.	33.1	17.9	2
GOLD COUNTRY/6221RR	.	33.0	17.7	1
PUBLIC/SDX00R-039-42	.	32.7	17.0	3
Test avg.:	.	35.3	16.5	3
High value:	.	41.1	17.9	4
* Lsd(.05):				1
## TPG-value:				2
### Coef.Var.:				19
No. Entries:		53	53	53

* DTM= days from seeding (Brookings- June 3, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Lsd,(.05)= amount values in a column must differ to be significantly different.

TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. Var.= measure of trial experimental error, 15% or less is best.

Table 6a. Roundup Ready maturity group-I soybean variety yield averages- southern South Dakota locations, 2003-2004.

Brand/Variety (By zone 2004 yield)	DTM*	----- Southern Locations ----- 2003-04 Yield Averages				Southern Zone Averages	
		Beresford		Armour		Bu/Acre 2004	Bu/Acre 2-Yr
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr		
ASGROW/AG1903	122	68	.	44	.	56	.
TECH. DIRECT/TD-199RR	122	68	.	43	.	56	.
THOMPSON/T-7214RR	121	65	58	44	.	55	.
NUTECH/NT-1909RR	123	67	.	41	.	54	.
NUTECH/NT-2002RR	123	67	.	41	.	54	.
KRUGER/211+RR	121	65	59	41	33	53	46
PRAIRIE BR./PB-1954RR	118	67	.	38	.	53	.
TECH. DIRECT/TD-202RR	122	64	.	39	.	52	.
KRUGER/223+RR	118	67	59	37	28	52	44
KRUGER/191RR	121	65	56	38	32	52	44
KRUGER/223RR	118	63	57	40	29	52	43
KRUGER/192RR	121	64	.	39	.	52	.
THOMPSON/T-7205RR	120	67	61	36	.	52	.
NUTECH/NT-2202RR	122	62	.	39	.	51	.
STINE/S1918-4	121	65	60	36	.	51	.
THOMPSON/T-7234RR	119	65	.	35	.	50	.
NK BRAND/S19-R5	117	66	.	32	.	49	.
KRUGER/155+RR	115	59	.	33	.	46	.
KALTENBERG/KB153RR	117	61	.	31	.	46	.
PUBLIC/MN-1803RR	122	53	46	37	28	45	37
PUBLIC/SD01-3387R	114	51	.	30	.	41	.
SODAK GENETICS/SD1151RR	116	51	48	29	21	40	35
ASGROW/AG1603	112	.	.	34	.	.	.
COYOTE/4719RR	112	.	.	34	.	.	.
DEKALB/DKB19-52	111	.	.	35	29	.	.
NUTECH/NT-1901RR	127	63	.	.	.	.	.
PUBLIC/SDX00-022R-23	116	45	.	.	.	.	.
PUBLIC/SDX00-024R-14	111	.	.	30	.	.	.
LATHAM/EXP-E1936R	125	64	.	.	.	.	.
GOLD COUNTRY/EXP-318RR	113	.	.	38	.	.	.

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.

Table 6a. Roundup Ready maturity group-I soybean variety yield averages- southern South Dakota locations, 2003-2004 (continued).

Brand/Variety (By zone 2004 yield)	DTM*	----- Southern Locations ----- 2003-04 Yield Averages				Southern Zone Averages	
		Beresford		Armour		Bu/Acre 2004	Bu/Acre 2-Yr
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr		
TOP FARM/E34904RR	126	65	.	.	.	.	.
TOP FARM/E3M321RR	126	72	.	.	.	.	.
TOP FARM/E34714RR	120	58	.	.	.	.	.
PRAIRIE BR./PB-2112RR	118	.	.	39	32	.	.
PRAIRIE BR./PB-1754RR	112	.	.	38	.	.	.
PRAIRIE BR./PB-1914RR	118	.	.	40	.	.	.
PUBLIC/SDX00-053R-46	128	55	.	.	.	.	.
ZILLER/BT 7193R	127	63	54	.	.	.	.
PUBLIC/SDX00R-022-66	119	50	.	.	.	.	.
PUBLIC/SDX00R-035-42	111	.	.	37	.	.	.
PUBLIC/SDX00R-035-59	121	52	.	.	.	.	.
PUBLIC/SD01-3219R	112	.	.	34	.	.	.
PUBLIC/SD01-67R	116	.	.	34	.	.	.
PUBLIC/SD96-170RR-28L	117	58	.	.	.	.	.
PUBLIC/SD01-1075R	119	.	.	35	.	.	.
PUBLIC/SD01-1094R	121	.	.	36	.	.	.
PUBLIC/SD01-1120R	128	57	.	.	.	.	.
PUBLIC/SD01-1792R	119	46	.	.	.	.	.
PUBLIC/SD01-3402R	122	51	.	.	.	.	.
PUBLIC/SD00-1018R	111	.	.	37	.	.	.
PUBLIC/SD00-236R	118	50	.	.	.	.	.
PUBLIC/SDX00R-029-3	117	.	.	33	.	.	.
Test avg.:	119	61	56	37	29	50	42
High value:	128	72	61	44	33	56	46
# Lsd (.05):		5	6	7	5	4	.
## TPG-value:		67	55	37	28	52	.
@ Coef. Var.:		5	6	12	10	7	.
No. Entries:		37	10	37	8	22	.

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.
Lsd,(.05)= amount values in a column must differ to be significantly different.
TPG-value= minimum value to qualify for top performance group.
@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 6b. Roundup Ready maturity group-I soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2004.

Brand/Variety (By zone protein)	DTM*	----- Southern Locations ----- 2004 Protein, Oil, & Lodging Averages						Southern Zone Averages		
		Beresford			Armour					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
SODAK GENETICS/SD1151RR	116	32.8	17.6	3	33.3	18.7	1	33.1	18.2	2
PUBLIC/SD01-3387R	114	32.6	17.3	2	33.3	19.3	1	33.0	18.3	2
PUBLIC/MN-1803RR	122	33.5	17.4	4	32.4	19.7	1	33.0	18.6	2
NK BRAND/S19-R5	117	31.9	17.6	1	33.3	18.3	1	32.6	18.0	1
KRUGER/155+RR	115	31.7	17.7	1	33.3	19.5	1	32.5	18.6	1
NUTECH/NT-1909RR	123	32.2	18.1	2	32.3	19.7	1	32.3	18.9	1
NUTECH/NT-2202RR	122	32.5	17.9	1	32.0	19.4	1	32.3	18.7	1
TECH. DIRECT/TD-202RR	122	32.5	17.8	1	31.9	19.6	1	32.2	18.7	1
KRUGER/211+RR	121	32.5	17.9	1	31.9	19.1	1	32.2	18.5	1
PRAIRIE BR./PB-1954RR	118	32.0	17.7	2	32.0	19.5	1	32.0	18.6	2
THOMPSON/T-7234RR	119	32.0	17.9	1	31.9	19.3	1	32.0	18.6	1
KRUGER/192RR	121	31.5	18.2	1	32.0	19.6	1	31.8	18.9	1
KRUGER/223RR	118	32.1	18.0	1	30.9	20.1	1	31.5	19.1	1
KALTENBERG/KB153RR	117	30.6	17.8	1	32.4	18.9	1	31.5	18.4	1
THOMPSON/T-7214RR	121	31.9	18.0	1	31.1	20.2	1	31.5	19.1	1
STINE/S1918-4	121	31.4	18.1	1	31.5	19.6	1	31.5	18.9	1
NUTECH/NT-2002RR	123	31.7	18.1	1	31.0	20.4	1	31.4	19.3	1
THOMPSON/T-7205RR	120	31.7	18.0	1	31.0	20.0	1	31.4	19.0	1
ASGROW/AG1903	122	31.6	17.4	1	30.9	19.5	1	31.3	18.5	1
KRUGER/223+RR	118	31.5	18.1	1	30.9	19.8	1	31.2	19.0	1
KRUGER/191RR	121	31.2	18.0	1	31.1	19.8	1	31.2	18.9	1
TECH. DIRECT/TD-199RR	122	32.1	17.7	1	21.5	20.1	1	26.8	18.9	1
ASGROW/AG1603	112	.	.	.	32.2	19.5	1	.	.	.
COYOTE/4719RR	112	.	.	.	31.5	19.8	1	.	.	.
DEKALB/DKB19-52	111	.	.	.	31.8	20.2	1	.	.	.
NUTECH/NT-1901RR	127	33.0	17.0	2	.	.	.	.	.	.
PUBLIC/SDX00-022R-23	116	31.4	18.6	3	.	.	.	.	.	.
PUBLIC/SDX00-024R-14	111	.	.	.	31.8	19.2	1	.	.	.
LATHAM/EXP-E1936R	125	32.1	18.0	1	.	.	.	.	.	.
GOLD COUNTRY/EXP-318RR	113	.	.	.	31.7	19.3	1	.	.	.

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 6b. Roundup Ready maturity group-I soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2004 (continued).

Brand/Variety (By zone protein)	DTM*	----- Southern Locations ----- 2004 Protein, Oil, & Lodging Averages						Southern Zone Averages		
		Beresford			Armour					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
TOP FARM/E34904RR	126	32.0	18.1	1	.	.	.	.	.	.
TOP FARM/E3M321RR	126	32.2	17.9	1	.	.	.	.	.	.
TOP FARM/E34714RR	120	32.2	17.5	1	.	.	.	.	.	.
PRAIRIE BR./PB-2112RR	118	.	.	.	31.9	20.0	1	.	.	.
PRAIRIE BR./PB-1754RR	112	.	.	.	33.1	18.7	1	.	.	.
PRAIRIE BR./PB-1914RR	118	.	.	.	32.1	19.5	1	.	.	.
PUBLIC/SDX00-053R-46	128	31.6	18.0	4	.	.	.	.	.	.
ZILLER/BT 7193R	127	34.0	17.3	2	.	.	.	.	.	.
PUBLIC/SDX00R-022-66	119	31.0	18.6	4	.	.	.	.	.	.
PUBLIC/SDX00R-035-42	111	.	.	.	33.2	19.7	1	.	.	.
PUBLIC/SDX00R-035-59	121	32.9	17.5	1	.	.	.	.	.	.
PUBLIC/SD01-3219R	112	.	.	.	32.4	19.1	1	.	.	.
PUBLIC/SD01-67R	116	.	.	.	31.9	20.1	1	.	.	.
PUBLIC/SD96-170RR-28L	117	30.8	18.3	2	.	.	.	.	.	.
PUBLIC/SD01-1075R	119	.	.	.	32.7	19.4	1	.	.	.
PUBLIC/SD01-1094R	121	.	.	.	32.3	19.4	1	.	.	.
PUBLIC/SD01-1120R	128	32.2	18.3	3	.	.	.	.	.	.
PUBLIC/SD01-1792R	119	32.9	17.3	2	.	.	.	.	.	.
PUBLIC/SD01-3402R	122	36.1	16.1	3	.	.	.	.	.	.
PUBLIC/SD00-1018R	111	.	.	.	31.1	20.0	1	.	.	.
PUBLIC/SD00-236R	118	33.6	17.7	3	.	.	.	.	.	.
PUBLIC/SDX00R-029-3	117	.	.	.	31.8	19.9	1	.	.	.
Test avg.:	119	32.2	17.8	2	31.7	19.6	1	31.7	18.7	1
High value:	128	36.1	18.6	4	33.3	20.4	1	33.1	19.3	2
* Lsd(.05):				1			1			0
## TPG-value:				2			1			1
@ Coef. Var.:				28			0			25
No. Entries:		37	37	37	37	37	37	22	22	22

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Lsd,(.05)= amount values in a column must differ to be significantly different.

If differences among values within a column are non-significant (NS), NS is indicated.

TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. Var.= measure of trial experimental error, 15% or less is best.

Table 7a. Roundup Ready maturity group-II soybean variety yield averages- southern South Dakota locations, 2003-2004.

Brand/Variety (By zone 2004 yield)	DTM*	----- Southern Locations ----- 2003-2004 Yield Averages				Southern Zone Averages	
		Beresford		Armour			
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
SANDS/SOI 2754RR	128	72	.	43	.	58	.
MUSTANG/M-201RR	122	73	60	41	.	57	.
MUSTANG/M-284RR	129	73	60	40	31	57	46
FARM ADVANTAGE/7264	127	69	.	44	.	57	.
DEKALB/DKB25-51	125	70	60	44	39	57	50
KRUGER/EXP268RR	125	68	.	45	37	57	.
PRAIRIE BR./PB-2141RR	124	71	.	42	36	57	.
ASGROW/AG2403	124	69	60	42	36	56	48
MUSTANG/M-243RR	126	71	59	40	.	56	.
MUSTANG/M-264RR	127	66	.	45	.	56	.
STINE/S2103-4	122	72	.	40	.	56	.
PRAIRIE BR./PB-2421RR	126	70	61	42	32	56	47
PRAIRIE BR./PB-2643RR	127	67	59	44	37	56	48
COYOTE/9524RR	125	68	60	41	36	55	48
COYOTE/4527RR	127	69	.	41	.	55	.
SANDS/SOI 2143RR	122	70	62	39	35	55	49
PRAIRIE BR./PB-2343RR	120	71	59	39	35	55	47
MUSTANG/M-203RR	124	65	58	42	32	54	45
SANDS/EXP 2669RR	125	65	.	42	.	54	.
TECH. DIRECT/TD-266RR	129	63	.	44	.	54	.
KRUGER/289+RR	129	64	.	44	.	54	.
DAIRYLAND/DSR-234/RR	122	67	56	40	35	54	46
DAIRYLAND/DSR-2500/RR	125	70	.	38	.	54	.
RENK/RS253RR	126	66	57	41	34	54	46
ASGROW/AG2203	122	61	.	44	.	53	.
COYOTE/EX325RR	125	68	.	37	.	53	.
MUSTANG/M-255RR	125	65	.	40	.	53	.
MALLARD/EXP RR2411	125	66	.	39	.	53	.
NUTECH/NT-2790+RR	127	65	.	41	.	53	.
KRUGER/233+RR	124	68	.	38	34	53	.

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.

Table 7a. Roundup Ready maturity group-II soybean variety yield averages- southern South Dakota locations, 2003-2004 (continued).

Brand/Variety (By zone 2004 yield)	DTM*	----- Southern Locations ----- 2003-2004 Yield Averages				Southern Zone Averages	
		Beresford		Armour			
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
KRUGER/EXP257RR	126	65	.	40	.	53	.
KRUGER/200RR	121	67	.	39	.	53	.
KRUGER/252RR	127	63	.	42	.	53	.
STINE/S2116-4	123	65	59	41	.	53	.
PRAIRIE BR./PB-2443RR	122	66	.	40	.	53	.
THOMPSON/T-7243RR	119	67	53	39	30	53	42
THOMPSON/T-2404+RR	126	66	.	40	.	53	.
THOMPSON/T-2707+RR	125	68	.	38	.	53	.
MUSTANG/M-223RR	123	62	.	41	.	52	.
NK BRAND/S27-T7	126	67	.	37	.	52	.
NUTECH/NT-2404RR	126	64	.	39	.	52	.
NUTECH/NT-2707RR	125	62	.	41	.	52	.
TECH. DIRECT/TD-233RR	128	64	.	40	.	52	.
KRUGER/268+RR	125	63	.	40	.	52	.
GOLD COUNTRY/EXP-325RR	124	62	.	42	.	52	.
PRAIRIE BR./PB-2243RR	123	67	60	36	31	52	46
PRAIRIE BR./PB-2374RR	124	64	.	39	.	52	.
SANDS/SOI 2169RR	119	66	.	36	.	51	.
TECH. DIRECT/TD-255RR	124	68	.	34	.	51	.
TECH. DIRECT/TD-262RR	126	62	.	40	.	51	.
KRUGER/270RR	128	61	55	41	31	51	43
KRUGER/273RR	126	62	.	40	.	51	.
KALTENBERG/KB275RR	127	60	54	41	34	51	44
STINE/S2783-4	127	63	.	38	.	51	.
PRAIRIE BR./PB-2534RR	125	65	.	37	.	51	.
JACOBSEN/J828R	128	62	54	40	32	51	43
THOMPSON/T-2790+RR	127	62	.	40	.	51	.
RENK/RS223RR	120	62	55	39	32	51	44
COYOTE/4523RR	125	64	.	35	.	50	.
SANDS/SOI 226RR	123	62	57	38	31	50	44

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.

Table 7a. Roundup Ready maturity group-II soybean variety yield averages- southern South Dakota locations, 2003-2004 (continued).

Brand/Variety (By zone 2004 yield)	DTM*	----- Southern Locations ----- 2003-2004 Yield Averages				Southern Zone Averages	
		Beresford		Armour			
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
SANDS/SOI 2872RR	128	58	51	42	35	50	43
PRAIRIE BR./PB-2474RR	126	62	.	38	.	50	.
NUTECH/NT-2505RR	125	62	.	36	.	49	.
THOMPSON/T-2505+RR	124	61	.	37	.	49	.
PUBLIC/SDX00R-039-42	126	60	.	37	.	49	.
KALTENBERG/KB245RR	126	54	.	41	.	48	.
PRAIRIE BR./PB-2934RR	130	59	.	36	.	48	.
PUBLIC/SD01-5R	120	60	.	36	.	48	.
FARM ADVANTAGE/7254N	126	54	.	39	.	47	.
KRUGER/277+RR/SCN	127	58	.	36	.	47	.
SANDS/SOI 2642NRR	126	53	50	38	31	46	41
PUBLIC/SD01-3603R	131	54	.	38	.	46	.
ASGROW/AG2302	119	.	.	41	37	.	.
ASGROW/AG2107	115	.	.	40	37	.	.
ASGROW/AG2801	130	60	52	.	.	.	.
DEKALB/DKB22-52	126	66	.	.	.	.	.
SANDS/SOI 2151NRR	126	67	.	.	.	.	.
NUTECH/NT-2550RR	127	66	.	.	.	.	.
KRUGER/EXP234RR	122	.	.	41	.	.	.
KRUGER/EXP287RR	128	60	.	.	.	.	.
LATHAM/497RR	126	71	61	.	.	.	.
LATHAM/L2136R	126	66	61	.	.	.	.
LATHAM/EXP-E2450R	129	61	.	.	.	.	.
LATHAM/738RR	129	66	.	.	.	.	.
LATHAM/EXP-E2635R	128	62	.	.	.	.	.
LATHAM/EXP-E2646R	129	62	.	.	.	.	.
LATHAM/L2857R	132	60	.	.	.	.	.
LATHAM/L2900R	133	67	.	.	.	.	.
GOLD COUNTRY/6221RR	121	.	.	39	.	.	.
DAIRYLAND/DSR-277/RR	124	.	.	44	.	.	.
TOP FARM/E34412RR	125	62	.	.	.	.	.
TOP FARM/E34520RR	130	67	.	.	.	.	.
TOP FARM/E34104RR	127	69	.	.	.	.	.

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.

Table 7a. Roundup Ready maturity group-II soybean variety yield averages- southern South Dakota locations, 2003-2004 (continued).

Brand/Variety (By zone 2004 yield)	DTM*	----- Southern Locations ----- 2003-2004 Yield Averages				Southern Zone Averages	
		Beresford		Armour			
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
TOP FARM/E3M278RR	132	68	.	.	.	.	.
TOP FARM/E3M245RR	128	55	.	.	.	.	.
KALTENBERG/KB203RR	127	66	.	.	.	.	.
STINE/S2404-4	129	64	.	.	.	.	.
STINE/S2403-4	130	64	.	.	.	.	.
PUBLIC/SDX00-051R-23	111	.	.	22	.	.	.
ZILLER/BT 7215R	127	73	.	.	.	.	.
JACOBSEN/J730NR	124	69	.	.	.	.	.
JACOBSEN/J733R	126	64	58	.	.	.	.
JACOBSEN/J744NR	125	62	.	.	.	.	.
THOMPSON/T-7293RR	122	.	.	36	29	.	.
THOMPSON/T-2343RR	127	63	.	.	.	.	.
THOMPSON/T-2422RR	127	67	.	.	.	.	.
RENK/RS234RR	127	68	.	.	.	.	.
RENK/RS244NRR	129	56	.	.	.	.	.
EXCEL/8236NRR	127	68	57	.	.	.	.
PUBLIC/SDX00R-014-50	124	58	.	.	.	.	.
PUBLIC/SDX00R-030-16	126	.	.	30	.	.	.
PUBLIC/SD01-76R	124	57	.	.	.	.	.
PUBLIC/SD01-1135R	117	.	.	38	.	.	.
PUBLIC/SD01-2469R	116	.	.	33	.	.	.
PUBLIC/SD01-2493R	117	.	.	33	.	.	.
PUBLIC/SD01-2509R	129	67	.	.	.	.	.
PUBLIC/SD01-2961R	131	53	.	.	.	.	.
PUBLIC/SD93-828R	118	55	47	.	.	.	.
PUBLIC/SDX00R-015-4	111	.	.	26	.	.	.
Test avg.:	125	64	57	39	34	53	46
High value:	133	73	62	45	39	58	50
# Lsd (.05):		5	8	5	6	4	.
## TPG-value:		68	54	40	33	54	.
@ Coef. Var.:		5	6	8	11	6	.
No. Entries:		107	29	84	26	72	.

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.
Lsd,(.05)= amount values in a column must differ to be significantly different.
TPG-value= minimum value to qualify for top performance group.
@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 7b. Roundup Ready maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2004.

Brand/Variety (By zone protein)	DTM*	----- Southern Locations ----- 2004 Protein, Oil, & Lodging Averages						Southern Zone Averages		
		Beresford			Armour					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
NUTECH/NT-2505RR	125	34.4	16.6	1	33.5	18.4	1	34.0	17.5	1
MUSTANG/M-255RR	125	35.3	16.4	1	32.5	19.1	1	33.9	17.8	1
COYOTE/EX325RR	125	35.0	16.6	2	32.7	18.9	1	33.9	17.8	1
KRUGER/277+RR/SCN	127	34.6	16.9	1	32.7	19.7	1	33.7	18.3	1
PRAIRIE BR./PB-2534RR	125	34.3	16.6	1	33.0	19.0	1	33.7	17.8	1
TECH. DIRECT/TD-255RR	124	34.3	16.6	1	32.8	18.9	1	33.6	17.8	1
THOMPSON/T-2505+RR	124	34.9	16.3	1	32.2	19.2	1	33.6	17.8	1
KALTENBERG/KB245RR	126	35.2	16.8	3	31.8	19.9	1	33.5	18.4	2
KRUGER/268+RR	125	34.2	16.9	1	32.7	19.1	1	33.5	18.0	1
FARM ADVANTAGE/7254N	126	34.6	16.9	3	32.1	19.8	1	33.4	18.4	2
SANDS/SOI 2642NRR	126	34.0	16.9	3	32.1	19.5	1	33.1	18.2	2
PRAIRIE BR./PB-2343RR	120	33.6	16.7	1	32.3	19.0	1	33.0	17.9	1
PRAIRIE BR./PB-2934RR	130	33.4	17.5	2	32.4	21.0	1	32.9	19.3	2
PRAIRIE BR./PB-2443RR	122	33.9	17.3	1	31.7	19.5	1	32.8	18.4	1
STINE/S2783-4	127	35.1	16.7	2	30.3	20.7	1	32.7	18.7	1
MALLARD/EXP RR2411	125	33.5	16.6	1	31.8	19.1	1	32.7	17.9	1
SANDS/SOI 226RR	123	32.8	17.2	2	32.5	19.4	1	32.7	18.3	2
RENK/RS253RR	126	33.3	17.3	1	31.8	20.0	1	32.6	18.7	1
KRUGER/233+RR	124	33.9	17.1	2	31.1	19.7	1	32.5	18.4	1
DAIRYLAND/DSR-234/RR	122	33.3	17.3	1	31.5	19.7	1	32.4	18.5	1
ASGROW/AG2203	122	34.1	16.9	2	30.6	20.1	1	32.4	18.5	2
NUTECH/NT-2707RR	125	33.4	17.0	2	31.1	20.3	1	32.3	18.7	1
THOMPSON/T-2707+RR	125	33.3	16.9	2	31.2	20.1	1	32.3	18.5	2
PUBLIC/SD01-3603R	131	33.7	16.8	4	30.6	20.3	1	32.2	18.6	3
TECH. DIRECT/TD-262RR	126	32.8	17.4	2	31.3	19.9	1	32.1	18.7	1
KRUGER/EXP257RR	126	32.9	17.1	2	31.2	19.7	1	32.1	18.4	2
SANDS/EXP 2669RR	125	32.9	17.1	1	31.1	20.1	1	32.0	18.6	1
SANDS/SOI 2872RR	128	33.3	17.5	4	30.6	20.5	1	32.0	19.0	3
DAIRYLAND/DSR-2500/RR	125	32.9	17.3	2	31.0	19.7	1	32.0	18.5	1
TECH. DIRECT/TD-233RR	128	33.7	16.4	2	30.1	19.6	1	31.9	18.0	2
MUSTANG/M-223RR	123	32.4	17.6	1	31.4	19.7	1	31.9	18.7	1
KRUGER/273RR	126	33.0	17.3	2	30.7	20.2	1	31.9	18.8	1
COYOTE/4523RR	125	33.4	16.9	2	30.2	19.7	1	31.8	18.3	1
KRUGER/200RR	121	32.6	17.2	3	30.9	19.8	1	31.8	18.5	2
PRAIRIE BR./PB-2243RR	123	32.6	17.5	1	30.9	19.8	1	31.8	18.7	1

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 7b. Roundup Ready maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2004 (continued).

Brand/Variety (By zone protein)	DTM*	----- Southern Locations ----- 2004 Protein, Oil, & Lodging Averages						Southern Zone Averages		
		Beresford			Armour					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
MUSTANG/M-284RR	129	33.7	17.2	2	29.7	20.8	1	31.7	19.0	1
KRUGER/270RR	128	33.0	17.3	4	30.3	20.3	1	31.7	18.8	2
PRAIRIE BR./PB-2421RR	126	32.5	17.6	1	30.7	20.4	1	31.6	19.0	1
NUTECH/NT-2404RR	126	33.3	16.8	2	29.9	20.3	1	31.6	18.6	2
THOMPSON/T-2404+RR	126	33.7	16.5	2	29.2	20.4	1	31.5	18.5	2
PRAIRIE BR./PB-2474RR	126	33.3	17.0	2	29.6	20.0	1	31.5	18.5	2
STINE/S2116-4	123	32.2	17.6	1	30.6	19.9	1	31.4	18.8	1
PRAIRIE BR./PB-2374RR	124	32.7	16.8	3	30.1	19.5	1	31.4	18.2	2
COYOTE/4527RR	127	32.6	17.4	1	30.2	20.3	1	31.4	18.9	1
MUSTANG/M-203RR	124	31.4	17.4	1	31.4	19.6	1	31.4	18.5	1
JACOBSEN/J828R	128	32.6	18.1	3	30.2	20.6	1	31.4	19.4	2
THOMPSON/T-7243RR	119	32.5	17.5	1	30.3	19.8	1	31.4	18.7	1
RENK/RS223RR	120	31.9	17.6	1	30.9	19.9	1	31.4	18.8	1
MUSTANG/M-201RR	122	32.3	17.6	1	30.4	20.4	1	31.4	19.0	1
NK BRAND/S27-T7	126	32.2	17.4	1	30.4	20.4	1	31.3	18.9	1
KALTENBERG/KB275RR	127	32.8	17.7	3	29.7	20.7	1	31.3	19.2	2
PUBLIC/SD01-5R	120	31.4	17.2	1	31.1	19.4	1	31.3	18.3	1
SANDS/SOI 2169RR	119	31.7	17.3	2	30.6	19.7	1	31.2	18.5	2
SANDS/SOI 2754RR	128	32.1	17.3	1	30.0	20.5	1	31.1	18.9	1
KRUGER/252RR	127	33.5	16.5	2	28.6	20.4	1	31.1	18.5	2
ASGROW/AG2403	124	31.4	17.6	1	30.6	20.5	1	31.0	19.1	1
PRAIRIE BR./PB-2141RR	124	31.8	17.6	1	30.1	20.0	1	31.0	18.8	1
MUSTANG/M-264RR	127	32.0	17.6	1	29.8	20.6	1	30.9	19.1	1
STINE/S2103-4	122	31.3	17.9	1	30.4	20.5	1	30.9	19.2	1
SANDS/SOI 2143RR	122	31.7	17.7	1	29.9	20.1	1	30.8	18.9	1
PRAIRIE BR./PB-2643RR	127	31.7	17.8	2	29.9	20.4	1	30.8	19.1	2
FARM ADVANTAGE/7264	127	31.9	17.5	1	29.6	20.4	1	30.8	19.0	1
THOMPSON/T-2790+RR	127	32.2	16.4	4	29.2	19.7	1	30.7	18.1	2
KRUGER/289+RR	129	31.8	17.5	2	29.4	20.4	1	30.6	19.0	2
TECH. DIRECT/TD-266RR	129	31.5	16.7	4	29.6	20.0	1	30.6	18.4	3
NUTECH/NT-2790+RR	127	31.9	16.6	4	29.2	19.9	1	30.6	18.3	2
COYOTE/9524RR	125	31.2	18.0	1	29.7	20.8	1	30.5	19.4	1
GOLD COUNTRY/EXP-325RR	124	31.4	16.9	1	29.5	20.0	1	30.5	18.5	1
MUSTANG/M-243RR	126	31.2	17.9	1	29.0	20.8	1	30.1	19.4	1
KRUGER/EXP268RR	125	30.7	18.1	1	28.7	21.4	1	29.7	19.8	1

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 7b. Roundup Ready maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2004 (continued).

Brand/Variety (By zone protein)	DTM*	----- Southern Locations ----- 2004 Protein, Oil, & Lodging Averages						Southern Zone Averages		
		Beresford			Armour					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
DEKALB/DKB25-51	125	30.7	18.0	2	28.4	21.1	1	29.6	19.6	1
PUBLIC/SDX00R-039-42	126	30.4	17.1	3	26.7	20.7	1	28.6	18.9	2
ASGROW/AG2302	119	.	.	.	30.5	19.7	1	.	.	.
ASGROW/AG2107	115	.	.	.	31.0	20.7	1	.	.	.
ASGROW/AG2801	130	34.8	16.0	2	.	.	.	.	.	.
DEKALB/DKB22-52	126	31.8	17.9	1	.	.	.	.	.	.
SANDS/SOI 2151NRR	126	31.4	18.1	1	.	.	.	.	.	.
NUTECH/NT-2550RR	127	33.0	17.5	1	.	.	.	.	.	.
KRUGER/EXP234RR	122	.	.	.	31.7	19.5	1	.	.	.
KRUGER/EXP287RR	128	35.0	17.0	1	.	.	.	.	.	.
LATHAM/497RR	126	31.2	17.5	1	.	.	.	.	.	.
LATHAM/L2136R	126	31.7	17.7	1	.	.	.	.	.	.
LATHAM/EXP-E2450R	129	33.4	16.8	2	.	.	.	.	.	.
LATHAM/738RR	129	33.0	17.5	1	.	.	.	.	.	.
LATHAM/EXP-E2635R	128	33.0	17.2	1	.	.	.	.	.	.
LATHAM/EXP-E2646R	129	32.3	17.0	2	.	.	.	.	.	.
LATHAM/L2857R	132	34.1	17.6	3	.	.	.	.	.	.
LATHAM/L2900R	133	32.9	17.0	1	.	.	.	.	.	.
GOLD COUNTRY/6221RR	121	.	.	.	29.8	20.3	1	.	.	.
DAIRYLAND/DSR-277/RR	124	.	.	.	30.6	20.6	1	.	.	.
TOP FARM/E34412RR	125	31.6	17.7	1	.	.	.	.	.	.
TOP FARM/E34520RR	130	33.4	17.1	1	.	.	.	.	.	.
TOP FARM/E34104RR	127	33.1	17.2	2	.	.	.	.	.	.
TOP FARM/E3M278RR	132	32.0	17.7	1	.	.	.	.	.	.
TOP FARM/E3M245RR	128	34.1	16.5	3	.	.	.	.	.	.
KALTENBERG/KB203RR	127	32.4	17.4	1	.	.	.	.	.	.
STINE/S2404-4	129	34.2	16.2	1	.	.	.	.	.	.
STINE/S2403-4	130	33.0	16.9	2	.	.	.	.	.	.
PUBLIC/SDX00-051R-23	111	.	.	.	31.0	19.5	1	.	.	.
ZILLER/BT 7215R	127	31.8	17.7	1	.	.	.	.	.	.
JACOBSEN/J730NR	124	31.5	18.1	1	.	.	.	.	.	.
JACOBSEN/J733R	126	31.9	17.6	1	.	.	.	.	.	.
JACOBSEN/J744NR	125	33.8	17.3	1	.	.	.	.	.	.
THOMPSON/T-7293RR	122	.	.	.	30.7	20.2	1	.	.	.
THOMPSON/T-2343RR	127	33.6	17.1	1	.	.	.	.	.	.

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 7b. Roundup Ready maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2004 (continued).

Brand/Variety (By zone protein)	DTM*	----- Southern Locations ----- 2004 Protein, Oil, & Lodging Averages						Southern Zone Averages		
		Beresford			Armour					
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*
THOMPSON/T-2422RR	127	33.7	17.3	1	.	.	.	.	.	.
RENK/RS234RR	127	32.4	17.2	1	.	.	.	.	.	.
RENK/RS244NRR	129	34.4	16.5	2	.	.	.	.	.	.
EXCEL/8236NRR	127	34.1	17.1	1	.	.	.	.	.	.
PUBLIC/SDX00R-014-50	124	32.6	17.6	2	.	.	.	.	.	.
PUBLIC/SDX00R-030-16	126	.	.	.	33.3	18.4	1	.	.	.
PUBLIC/SD01-76R	124	31.0	17.0	2	.	.	.	.	.	.
PUBLIC/SD01-1135R	117	.	.	.	32.1	19.0	1	.	.	.
PUBLIC/SD01-2469R	116	.	.	.	29.5	20.2	1	.	.	.
PUBLIC/SD01-2493R	117	.	.	.	30.4	19.9	1	.	.	.
PUBLIC/SD01-2509R	129	30.8	16.9	2	.	.	.	.	.	.
PUBLIC/SD01-2961R	131	34.0	16.7	3	.	.	.	.	.	.
PUBLIC/SD93-828R	118	31.4	17.1	2	.	.	.	.	.	.
PUBLIC/SDX00R-015-4	111	.	.	.	28.6	20.5	1	.	.	.
Test avg.:	125	32.9	17.2	2	30.7	20.0	1	31.8	18.6	1
High value:	133	35.3	18.1	4	33.5	21.4	1	34.0	19.8	3
* Lsd(.05):				1			NS			0
## TPG-value:				2			1			1
@ Coef. Var.:				30			0			26
No. Entries:		107	107	107	84	84	84	72	72	72

* DTM= days from seeding (Beresford- May 19, Armour- May 27, 2004) to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Lsd,(.05)= amount values in a column must differ to be significantly different.

If differences among values within a column are non-significant (NS), NS is indicated.

TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. Var.= measure of trial experimental error, 15% or less is best.

Table D. 2004 Conventional soybean entries by brand/variety, yield table number(s), and Phytophthora root rot race resistance.

Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
COYOTE/9525	10	II	No Resistance
COYOTE/9723	9,10	II	1-2,10-11,13,15-18,24
COYOTE/EX525	9,10	II	1-11,13-15,17-18,21-22,24
GOLD COUNTRY/5329CYST	10	II	No Resistance
GOLD COUNTRY/6024FG	9,10	II	1-2,10-11,13,15-18,24
JACOBSEN/J772	9	II	Not Reported
JACOBSEN/J814	10	II	Not Reported
JACOBSEN/J826	10	II	Not Reported
LATHAM/1840	9,10	I	No Resistance
LATHAM/280	10	I	No Resistance
LATHAM/570	9	II	No Resistance
LATHAM/EXP E1863	10	I	No Resistance
LATHAM/EXP E2380	10	II	No Resistance
LATHAM/EXP -E2980	10	II	No Resistance
MUSTANG/M-1185	9	I	No Resistance
MUSTANG/M-2255	10	II	1-11,13-15,17-18,21-22,24
NUTECH/NT-170	8-10	I	No Resistance
NUTECH/NT-180	8-10	I	No Resistance
NUTECH/NT-190	8	I	No Resistance
NUTECH/NT-242 SCN	10	II	No Resistance
NUTECH/NT-282 SCN	10	II	No Resistance
Public/HENDRICKS	8,9	0	1-2,10-11,13,15-18,24
Public/MN 0901	8,9	0	1-2,10-11,13,15-18,24
Public/SD00-141	8,9	0	Not Reported
Public/SD00-1587	9,10	II	Not Reported
Public/SD00-1588	8,9	0	Not Reported
Public/SD00-1638	8-10	I	Not Reported
Public/SD00-307	8-10	I	Not Reported
Public/SD00-314	9,10	II	Not Reported
Public/SD00-377	9,10	II	Not Reported
Public/SD00-405	8,9	0	Not Reported
Public/SD00-41	8,9	0	Not Reported
Public/SD00-533	8-10	I	Not Reported
Public/SD00-622	8-10	I	Not Reported
Public/SD00-632	9,10	II	Not Reported
Public/SD00-719	8,9	0	Not Reported

Table D. 2004 Conventional soybean entries (Continued).

Brand / Variety	Table Number(s)	Mat. Grp.	Phytophthora Race resistance
Public/SD00-732	9,10	II	Not Reported
Public/SD00-735	8-10	I	Not Reported
Public/SD00-746	9,10	II	Not Reported
Public/SD96-135-3	8-10	I	Not Reported
Public/SD98-99-2	9,10	II	Not Reported
Public/SD99-1358	8,9	0	Not Reported
Public/SD99-1909	8,9	0	Not Reported
Public/SD99-700	8,9	0	Not Reported
Public/SDX98-74331	8-10	I	Not Reported
Public/SDX98-82302	8-10	I	Not Reported
Public/SPINK	8,9	0	1-2,10-11,13,15-18,24
Public/STRIDE	8-10	I	1-2,10-11,13,15-18,24
Public/SURGE	8,9	0	1-2,10-11,13,15-18,24
Public/TURNER-SCN	9,10	II	1-3,6-11,13,15,17,21,23-24
SANDS/SOI 187	8,9	I	1-2,10-11,13,15-18,24
SANDS/SOI 228N	10	II	No Resistance
SANDS/SOI 256	10	II	No Resistance
SANDS/SOI 288	10	II	No Resistance
THOMPSON/T-3182	8-10	I	1-2,10-11,13,15-18,24
THOMPSON/T-3189	8-10	I	Not Reported
THOMPSON/T-3201	9	II	No Resistance
THOMPSON/T-3222	9,10	II	No Resistance
THOMPSON/T-3288	10	II	1-11,13-15,17-18,21-22,24

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Table 8a. Non-Roundup Ready maturity group-0 and -I soybean variety yield averages- South Shore, South Dakota, 2003-2004.

Brand/Variety (By maturity group & 2004 yield)	DTM*	2003-04 Yield Averages by Maturity Group			
		MG-0		MG-I	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
PUBLIC/SD99-1909EXP	129	28	.	.	.
PUBLIC/SD00-141EXP	131	27	.	.	.
PUBLIC/SD00-41EXP	132	26	.	.	.
PUBLIC/SD99-700EXP	130	26	27	.	.
PUBLIC/SD00-719EXP	127	25	.	.	.
PUBLIC/SD00-405EXP	130	24	.	.	.
PUBLIC/SD00-1588EXP	130	24	.	.	.
PUBLIC/SURGE	128	24	24	.	.
PUBLIC/SPINK	124	23	23	.	.
PUBLIC/SD99-1358EXP	127	23	25	.	.
PUBLIC/MN 0901	129	22	21	.	.
NUTECH/NT-170	133	.	.	37	.
THOMPSON/T-3189	134	.	.	36	.
NUTECH/NT-180	135	.	.	35	.
SANDS/SOI 187	133	.	.	33	29
NUTECH/NT-190	135	.	.	33	.
THOMPSON/T-3182	133	.	.	32	.
PUBLIC/SD00-307EXP	131	.	.	31	.
PUBLIC/SD00-735EXP	135	.	.	31	.
PUBLIC/SDX98-74331E	134	.	.	29	.
PUBLIC/SD00-1638EXP	130	.	.	28	.
PUBLIC/SD00-533EXP	130	.	.	27	.
PUBLIC/SD96-135-3EX	131	.	.	26	.
PUBLIC/SD00-622EXP	135	.	.	24	.
PUBLIC/SDX98-82302E	128	.	.	22	.
PUBLIC/STRIDE	132	.	.	18	22
Test avg.:	131	25	24	29	25
High value:	135	28	27	37	29
# Lsd (.05):		3	3	3	NS
## TPG-value:		25	24	34	22
@ Coef. Var.:		8	11	7	13
No. Entries:		11	5	15	2

* DTM= days from seeding on May 21, 2004 to maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different.

If differences among values within a column are non-significant(NS), NS is indicated.

TPG-value= minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 8b. Non-Roundup Ready maturity group-0 and -I soybean variety protein, oil, and lodging score averages- South Shore, South Dakota, 2004.

Brand/Variety (By maturity group & protein)	DTM*	2004 Protein, Oil & Lodging Averages by Maturity Group					
		MG-0			MG-I		
		Protein %	Oil %	Lodging* (1-5)	Protein %	Oil %	Lodging* (1-5)
PUBLIC/SD00-405EXP	130	37.5	15.3	1	.	.	.
PUBLIC/SD99-1358EXP	127	36.2	15.6	1	.	.	.
PUBLIC/SURGE	128	35.6	16.5	1	.	.	.
PUBLIC/SD99-700EXP	130	35.5	16.5	1	.	.	.
PUBLIC/SD00-719EXP	127	35.0	16.0	1	.	.	.
PUBLIC/SD99-1909EXP	129	35.0	16.0	1	.	.	.
PUBLIC/MN 0901	129	34.5	16.7	1	.	.	.
PUBLIC/SD00-1588EXP	130	34.5	16.6	1	.	.	.
PUBLIC/SD00-141EXP	131	34.0	16.1	1	.	.	.
PUBLIC/SD00-41EXP	132	33.9	16.6	1	.	.	.
PUBLIC/SPINK	124	33.9	16.6	1	.	.	.
PUBLIC/SDX98-82302E	128	.	.	.	38.4	14.6	1
PUBLIC/SDX98-74331E	134	.	.	.	37.7	15.7	1
NUTECH/NT-180	135	.	.	.	36.1	17.0	1
PUBLIC/SD00-735EXP	135	.	.	.	34.5	16.5	1
PUBLIC/SD00-533EXP	130	.	.	.	34.4	16.2	1
THOMPSON/T-3189	134	.	.	.	34.0	16.9	1
SANDS/SOI 187	133	.	.	.	33.9	17.1	1
PUBLIC/SD00-1638EXP	130	.	.	.	33.9	16.8	1
PUBLIC/SD96-135-3EX	131	.	.	.	33.9	17.6	1
NUTECH/NT-190	135	.	.	.	33.8	16.5	1
PUBLIC/SD00-622EXP	135	.	.	.	33.6	17.2	1
PUBLIC/SD00-307EXP	131	.	.	.	33.4	17.4	1
THOMPSON/T-3182	133	.	.	.	33.2	17.1	1
PUBLIC/STRIDE	132	.	.	.	32.9	16.4	1
NUTECH/NT-170	133	.	.	.	32.7	16.9	1
Test avg.:	131	35.1	16.2	1	34.4	16.7	1
High value:	135	37.5	16.7	1	38.4	17.6	1
* Lsd(.05):				NS			NS
## TPG-value:				1			1
@ Coef. Var.:				0			0
No. Entries:		11	11	11	15	15	15

* DTM= days from seeding on May 21, 2004 to maturity;

* Lodging, 1= all plants erect, 5= all plants flat.

Lsd,(.05)= amount values in a column must differ to be significantly different.

If differences among values within a column are non-significant(NS), NS is indicated.

TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. Var.= measure of trial experimental error.

Table 9a. Non-Roundup Ready maturity group-0, -I & -II soybean variety yield averages- Brookings, South Dakota, 2003-2004.

Brand/Variety (By maturity group & 2004 yield)	DTM*	2003-04 Yield Averages by Maturity Group					
		MG-0		MG-I		MG-II	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
PUBLIC/SD99-1909EXP	138	50	.	.	.	.	.
PUBLIC/SD00-719EXP	134	48	.	.	.	.	.
PUBLIC/SD00-141EXP	135	46	.	.	.	.	.
PUBLIC/SPINK	132	46	42	.	.	.	.
PUBLIC/SD99-700EXP	136	46	41	.	.	.	.
PUBLIC/SURGE	131	45	39	.	.	.	.
PUBLIC/SD00-41EXP	140	44	.	.	.	.	.
PUBLIC/SD00-405EXP	136	44	.	.	.	.	.
PUBLIC/SD99-1358EXP	134	44	40	.	.	.	.
PUBLIC/SD00-1588EXP	138	40	.	.	.	.	.
PUBLIC/HENDRICKS	139	37	36	.	.	.	.
PUBLIC/MN 0901	134	36	35	.	.	.	.
NUTECH/NT-170	139	.	.	57	.	.	.
LATHAM/EXP-E1840T	140	.	.	55	47	.	.
NUTECH/NT-180	141	.	.	54	.	.	.
MUSTANG/M-1185	139	.	.	53	.	.	.
THOMPSON/T-3182	142	.	.	52	45	.	.
SANDS/SOI 187	141	.	.	51	43	.	.
THOMPSON/T-3189	141	.	.	51	44	.	.
PUBLIC/SD00-533EXP	135	.	.	49	.	.	.
PUBLIC/SD00-307EXP	138	.	.	48	.	.	.
PUBLIC/SD00-735EXP	142	.	.	47	.	.	.
PUBLIC/SDX98-74331E	141	.	.	47	.	.	.
PUBLIC/SD00-1638EXP	140	.	.	46	.	.	.
PUBLIC/SD00-622EXP	143	.	.	44	.	.	.
PUBLIC/SD96-135-3EX	136	.	.	43	37	.	.
PUBLIC/SDX98-82302E	135	.	.	41	.	.	.
PUBLIC/STRIDE	137	.	.	40	36	.	.
JACOBSEN/J772	.	.	.	.	.	53	.
THOMPSON/T-3222	.	.	.	.	.	53	45
PUBLIC/SD00-314EXP	.	.	.	.	.	50	.
LATHAM/570	.	.	.	.	.	49	42
PUBLIC/SD00-632EXP	.	.	.	.	.	49	.
PUBLIC/SD00-746EXP	.	.	.	.	.	49	.
COYOTE/9723	.	.	.	.	.	46	40

* DTM= days from seeding on May 14, 2004 to maturity.

Table 9a. Non-Roundup Ready maturity group-0, -I & -II soybean variety yield averages- Brookings, South Dakota, 2003-2004 (continued).

Brand/Variety (By maturity group & 2004 yield)	DTM*	2003-04 Yield Averages by Maturity Group					
		MG-0		MG-I		MG-II	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
PUBLIC/SD00-377EXP	.	.	.	.	.	46	.
PUBLIC/SD98-99-2EXP	.	.	.	.	.	46	.
PUBLIC/SD00-1587EXP	.	.	.	.	.	46	.
COYOTE/EX525	.	.	.	.	.	45	.
GOLD COUNTRY/6024FG	.	.	.	.	.	45	.
PUBLIC/SD00-732EXP	.	.	.	.	.	45	.
THOMPSON/T-3201	.	.	.	.	.	44	.
PUBLIC/TURNER-SCN	.	.	.	.	.	44	39
Test avg.:	138	44	39	49	42	47	42
High value:	143	50	42	57	47	53	45
# Lsd (.05):		7	NS	4	6	4	5
## TPG-value:		43	35	53	41	49	40
@ Coef. Var.:		10	10	5	7	5	5
No. Entries:		12	6	16	6	15	4

* DTM= days from seeding on May 14, 2004 to maturity.

Lsd, (.05)= amount values in a column must differ to be significantly different.

If differences among values within a column are non-significant (NS), NS is indicated.

TPG-value= minimum value to qualify for top performance group.

Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 9b. Non-Roundup Ready maturity group-0, -I & -II soybean variety protein, oil, and lodging score averages- Brookings, South Dakota, 2004.

Brand/Variety (By maturity group & protein)	DTM*	2004 Protein, Oil, & Lodging Averages by Maturity Group								
		MG-0			MG-I			MG-II		
		Protein (%)	Oil (%)	Lodging* (1-5)	Protein (%)	Oil (%)	Lodging* (1-5)	Protein (%)	Oil (%)	Lodging* (1-5)
PUBLIC/SD00-405EXP	136	39.3	15.0	1	.	.	.	.	.	.
PUBLIC/SD00-41EXP	140	37.5	15.1	1	.	.	.	.	.	.
PUBLIC/SURGE	131	37.0	16.0	1	.	.	.	.	.	.
PUBLIC/SD99-1358EXP	134	36.7	15.6	1	.	.	.	.	.	.
PUBLIC/HENDRICKS	139	36.6	15.8	1	.	.	.	.	.	.
PUBLIC/SD00-719EXP	134	36.4	15.9	1	.	.	.	.	.	.
PUBLIC/SD99-700EXP	136	36.2	16.2	1	.	.	.	.	.	.
PUBLIC/SD00-1588EXP	138	36.2	16.3	1	.	.	.	.	.	.
PUBLIC/SD99-1909EXP	138	35.7	16.6	1	.	.	.	.	.	.
PUBLIC/SD00-141EXP	135	35.2	16.5	1	.	.	.	.	.	.
PUBLIC/MN 0901	134	35.0	17.4	1	.	.	.	.	.	.
PUBLIC/SPINK	132	34.6	16.6	1	.	.	.	.	.	.
PUBLIC/SDX98-82302E	135	.	.	.	41.3	13.5	1	.	.	.
PUBLIC/SDX98-74331E	141	.	.	.	40.1	15.4	1	.	.	.
THOMPSON/T-3189	141	.	.	.	37.2	16.0	1	.	.	.
PUBLIC/SD00-735EXP	142	.	.	.	36.5	16.2	1	.	.	.
PUBLIC/SD00-533EXP	135	.	.	.	36.4	15.7	1	.	.	.
NUTECH/NT-180	141	.	.	.	35.9	16.8	1	.	.	.
PUBLIC/SD96-135-3EX	136	.	.	.	35.6	17.3	1	.	.	.
LATHAM/EXP-E1840T	140	.	.	.	35.2	16.7	1	.	.	.
PUBLIC/SD00-307EXP	138	.	.	.	35.0	17.0	1	.	.	.
PUBLIC/SD00-622EXP	143	.	.	.	34.7	17.2	1	.	.	.
SANDS/SOI 187	141	.	.	.	34.5	16.6	1	.	.	.
PUBLIC/SD00-1638EXP	140	.	.	.	34.5	16.2	1	.	.	.
PUBLIC/STRIDE	137	.	.	.	34.2	16.6	1	.	.	.
NUTECH/NT-170	139	.	.	.	34.1	16.6	1	.	.	.
MUSTANG/M-1185	139	.	.	.	34.0	16.8	1	.	.	.
THOMPSON/T-3182	142	.	.	.	34.0	17.3	1	.	.	.
PUBLIC/SD00-746EXP	.	.	.	.	.	.	.	38.5	14.7	2
PUBLIC/SD00-377EXP	.	.	.	.	.	.	.	38.2	16.2	1
PUBLIC/SD00-732EXP	.	.	.	.	.	.	.	38.2	15.1	1
THOMPSON/T-3222	.	.	.	.	.	.	.	37.4	15.6	1
GOLD COUNTRY/6024FG	.	.	.	.	.	.	.	36.7	16.2	1
PUBLIC/TURNER-SCN	.	.	.	.	.	.	.	36.7	15.6	1
LATHAM/570	.	.	.	.	.	.	.	36.4	16.2	1

* DTM= days from seeding on May 14, 2004 to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 9b. Non-Roundup Ready maturity group-0, -I & -II soybean variety protein, oil, and lodging score averages- Brookings, South Dakota, 2004 (continued).

Brand/Variety (By maturity group & protein)	DTM*	2004 Protein, Oil, & Lodging Averages by Maturity Group								
		MG-0			MG-I			MG-II		
		Protein (%)	Oil (%)	Lodging* (1-5)	Protein (%)	Oil (%)	Lodging* (1-5)	Protein (%)	Oil (%)	Lodging* (1-5)
COYOTE/9723	.	.	.	.	.	.	.	36.2	15.2	1
PUBLIC/SD00-1587EXP	.	.	.	.	.	.	.	36.0	16.1	1
THOMPSON/T-3201	.	.	.	.	.	.	.	35.9	15.6	1
PUBLIC/SD00-314EXP	.	.	.	.	.	.	.	35.7	16.0	2
PUBLIC/SD00-632EXP	.	.	.	.	.	.	.	35.7	15.3	1
COYOTE/EX525	.	.	.	.	.	.	.	34.7	16.1	2
JACOBSEN/J772	.	.	.	.	.	.	.	34.6	16.6	1
PUBLIC/SD98-99-2EXP	.	.	.	.	.	.	.	34.4	17.3	1
Test avg.:	138	36.4	16.1	1	35.8	16.4	1	36.4	15.9	1
High value:	143	39.3	17.4	1	41.3	17.3	1	38.5	17.3	2
* Lsd(.05):				NS			NS			0
## TPG-value:				1			1			1
@ Coef. Var.:				0			14			25
No. Entries:		12	12	12	16	16	16	15	15	15

* DTM= days from seeding on May 14, 2004 to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Lsd,(.05)= amount values in a column must differ to be significantly different.

If differences among values within a column are non-significant (NS), NS is indicated.

TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. Var.= measure of trial experimental error.

Table 10a. Non-Roundup Ready maturity group-I & -II soybean variety yield averages- Beresford, South Dakota, 2003-2004.

Brand/Variety (By maturity group & 2004 yield)	DTM*	2003-04 Yield Averages by Maturity Group			
		MG-I		MG-II	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
NUTECH/NT-180	123	69	.	.	.
LATHAM/EXP-E1840T	123	69	61	.	.
LATHAM/280	123	68	59	.	.
LATHAM/EXP E1863	121	68	.	.	.
NUTECH/NT-170	121	67	.	.	.
THOMPSON/T-3189	123	67	59	.	.
PUBLIC/SD00-307EXP	120	61	.	.	.
THOMPSON/T-3182	124	59	54	.	.
PUBLIC/SD00-735EXP	124	58	.	.	.
PUBLIC/SD00-622EXP	124	56	.	.	.
PUBLIC/SDX98-74331E	122	55	.	.	.
PUBLIC/SD00-533EXP	119	54	.	.	.
PUBLIC/STRIDE	120	54	51	.	.
PUBLIC/SD96-135-3EX	119	51	48	.	.
PUBLIC/SDX98-82302E	116	44	.	.	.
PUBLIC/SD00-1638EXP	121	43	.	.	.
JACOBSEN/J826	126	.	.	70	60
COYOTE/9723	126	.	.	69	58
SANDS/SOI 288	129	.	.	69	57
COYOTE/EX525	131	.	.	68	.
JACOBSEN/J814	126	.	.	67	58
THOMPSON/T-3222	125	.	.	67	.
PUBLIC/SD98-99-2EXP	123	.	.	67	.
MUSTANG/M-2255	131	.	.	66	.
NUTECH/NT-282 SCN	131	.	.	66	.
NUTECH/NT-242 SCN	130	.	.	65	.
PUBLIC/SD00-732EXP	123	.	.	65	.
SANDS/SOI 256	126	.	.	64	56
LATHAM/EXP-E2980	132	.	.	64	.
PUBLIC/SD00-746EXP	124	.	.	64	.

* DTM= days from seeding on May 19, 2004 to maturity.

Table 10a. Non-Roundup Ready maturity group-I & -II soybean variety yield averages- Beresford, South Dakota, 2003-2004 (continued).

Brand/Variety (By maturity group & 2004 yield)	DTM*	2003-04 Yield Averages by Maturity Group			
		MG-I		MG-II	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
LATHAM/EXP E2380	131	.	.	63	.
SANDS/SOI 228N	131	.	.	62	.
GOLD COUNTRY/5329CY	129	.	.	62	.
THOMPSON/T-3288	131	.	.	62	55
PUBLIC/SD00-632EXP	123	.	.	59	.
COYOTE/9525	129	.	.	58	51
GOLD COUNTRY/6024FG	128	.	.	57	.
PUBLIC/SD00-1587EXP	125	.	.	56	.
PUBLIC/TURNER-SCN	126	.	.	53	47
PUBLIC/SD00-314EXP	124	.	.	51	.
PUBLIC/SD00-377EXP	121	.	.	44	.
Test avg.:	125	59	55	62	55
High value:	132	69	61	70	60
# Lsd (.05):		5	9	7	8
## TPG-value:		64	52	63	52
@ Coef. Var.:		5	7	7	6
No. Entries:		16	6	25	8

* DTM= days from seeding on May 19, 2004 to maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different.

TPG-value= minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 10b. Non-Roundup Ready maturity group-I & -II soybean variety protein, oil, and lodging score averages- South Shore, South Dakota, 2004.

Brand/Variety (By maturity group & protein)	DTM*	2004 Protein, Oil, & Lodging Average by Maturity Group					
		MG-I			MG-II		
		Protein %	Oil %	Lodging* (1-5)	Protein %	Oil %	Lodging* (1-5)
PUBLIC/SDX98-82302E	116	37.9	15.3	4	.	.	.
PUBLIC/SDX98-74331E	122	37.6	15.6	3	.	.	.
THOMPSON/T-3189	123	34.3	16.3	2	.	.	.
PUBLIC/SD00-735EXP	124	33.8	16.8	3	.	.	.
LATHAM/280	123	33.7	17.1	1	.	.	.
NUTECH/NT-180	123	33.4	17.0	1	.	.	.
PUBLIC/SD96-135-3EX	119	33.3	18.1	2	.	.	.
LATHAM/EXP-E1840T	123	33.2	17.1	2	.	.	.
PUBLIC/SD00-533EXP	119	32.5	17.1	4	.	.	.
PUBLIC/SD00-1638EXP	121	32.5	17.6	3	.	.	.
LATHAM/EXP E1863	121	31.7	16.7	2	.	.	.
PUBLIC/SD00-622EXP	124	31.7	18.1	1	.	.	.
NUTECH/NT-170	121	31.2	16.9	2	.	.	.
PUBLIC/STRIDE	120	30.9	17.6	2	.	.	.
THOMPSON/T-3182	124	30.7	17.4	2	.	.	.
PUBLIC/SD00-307EXP	120	30.6	18.1	2	.	.	.
PUBLIC/SD00-377EXP	121	.	.	.	35.2	17.4	2
GOLD COUNTRY/6024FG	128	.	.	.	34.9	16.9	3
NUTECH/NT-282 SCN	131	.	.	.	34.0	17.4	3
PUBLIC/SD00-732EXP	123	.	.	.	33.8	17.0	2
THOMPSON/T-3222	125	.	.	.	33.7	16.7	3
PUBLIC/SD00-746EXP	124	.	.	.	33.7	17.1	2
GOLD COUNTRY/5329CY	129	.	.	.	33.6	17.4	3
LATHAM/EXP-E2980	132	.	.	.	33.5	17.4	3
JACOBSEN/J826	126	.	.	.	33.5	16.8	1
SANDS/SOI 228N	131	.	.	.	33.2	17.3	3
LATHAM/EXP E2380	131	.	.	.	33.2	17.2	3
PUBLIC/SD00-1587EXP	125	.	.	.	33.0	17.2	4
JACOBSEN/J814	126	.	.	.	32.9	16.9	2
COYOTE/9723	126	.	.	.	32.8	16.9	2

* DTM= days from seeding on May xx to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Table 10b. Non-Roundup Ready maturity group-I & -II soybean variety protein, oil, and lodging score averages- South Shore, South Dakota, 2004 (continued).

Brand/Variety (By maturity group & protein)	DTM*	2004 Protein, Oil, & Lodging Average by Maturity Group					
		MG-I			MG-II		
		Protein %	Oil %	Lodging* (1-5)	Protein %	Oil %	Lodging* (1-5)
NUTECH/NT-242 SCN	130	.	.	.	32.6	17.7	3
SANDS/SOI 256	126	.	.	.	32.5	17.8	1
SANDS/SOI 288	129	.	.	.	32.4	17.2	2
THOMPSON/T-3288	131	.	.	.	32.2	17.2	4
PUBLIC/SD00-632EXP	123	.	.	.	32.1	16.6	3
PUBLIC/TURNER-SCN	126	.	.	.	32.1	18.1	2
PUBLIC/SD98-99-2EXP	123	.	.	.	32.0	18.1	2
COYOTE/EX525	131	.	.	.	31.5	17.5	4
MUSTANG/M-2255	131	.	.	.	31.2	17.5	3
PUBLIC/SD00-314EXP	124	.	.	.	31.2	17.9	4
COYOTE/9525	129	.	.	.	31.0	18.0	2
Test avg.:	125	33.1	17.1	2	32.9	17.3	3
High value:	132	37.9	18.1	4	35.2	18.1	4
* Lsd(.05):				1			1
## TPG-value:				2			2
@ Coef. Var.:				31			17
No. Entries:		16	16	16	25	25	25

* DTM= days from seeding on May 19, 2004 to maturity.

* Lodging, 1= all plants erect, 5= all plants flat.

Lsd,(.05)= amount values in a column must differ to be significantly different.

TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. Var.= measure of trial experimental error, 15% or less is best.

Table E. Mailing addresses of seed companies entered in the 2004 soybean trials.

Company name (brand name)

Bio Gene Seeds (Bio Gene), 5491 Tri-County Hwy, Sardinia, OH 45171
Coyote Seed Mills (Coyote), Inc., PO Box 16, Bridgewater, SD 57319-0016
Dairyland Seed Co., Inc. (Dairyland), PO Box 958, West Bend, WI 53095

Dyna-Gro (Dyna-Gro), 104 Harrison, Emmetsburg, IA 50536
Excel Brand (Excel), 116 E. State, Camp Point, IL 62320
Foundation Seed Stocks (Sodak Genetics), Box 2207A, SDSU, Brookings, SD 57007

Farm Advantage (Farm Advantage), 1275 Hwy 69, Belmont, IA 50421
Gold Country Seed Inc. (Gold Country), 16506 Hwy 15 N., Hutchinson, MN 55350
Jacobsen Hybrid Corn Co., Inc. (Jacobsen), 129 9th St., Lake View, IA 51450

Kaltenberg Seeds (Kaltenberg), PO Box 278, Waunakee, WI 53597
Keltgen Inc. (Agventure), 302 Spruce St., Henry, SD 57243

Kruger Seed Co. (Kruger), 33938 160th Ave., Dike, IA 50624

Latham Seed Co. (Latham), 131 180th St, Alexander, IA 50420-8028
Mallard Seed Co. (Mallard), Inc., PO Box 637, Plainview, MN 55964
Monsanto (Asgrow & Dekalb), 3100 Sycamore Rd, Dekalb, IA 60115

Mustang Seeds (Mustang), PO Box 466, Madison, SD 57042
NK (NK Brand), 1201 Holiday Drive, Canton, SD 57013
Northstar Genetics (Northstar), 605 E. 21st St., Sioux Falls, SD 57105

Peterson Farms Seed (Peterson), 3104 164th Ave. SE, Harwood, ND 58042
Prairie Brand Seed Co. (Prairie Brand), 15 X Ave., Story City, IA 50248
Renk Seed Co. (Renk), 6800 Wilburn Rd., Sun Prairie, WI 53590

Sand Seed Service, Inc. (Sands), Box 648, Marcus, IA 51035
Seeds 2000 (Seeds 2000), PO Box 200, Breckenridge, MN 56520
Stine Seed Co. (Stine), 2225 Laredo Trail, Adel, IA 50003

Technology Direct (Tech. Direct), PO Box 303, Urbandale, IA 50322
Thompson Seeds Inc. (Thompson), 40321 130th Ave., Leland, IA 50453
Thompson Seeds/Nutech (Nutech), 6131 North Fork Rd., Ames, IA 50010

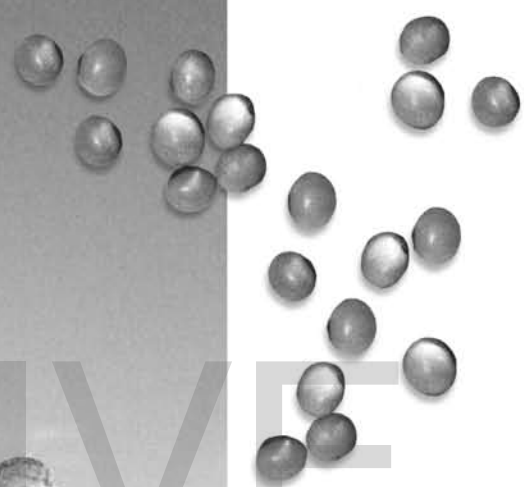
Thunder Seed (Thunder), 3008 210th St. N., Hawley, MN 56549-9433
Top Farm Hybrids x (Top Farm Hybrids), PO Box 850, Cokato, MN 55321
Wensman Seed Co. (Wensman), PO Box 190, Wadena, MN 56482

Ziller Seed Co. Inc. (Ziller), 76374 380th St., Bird Island, MN 55310

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Soybeans

2005 Crop Performance Results



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The crop performance trials are available at <http://plantsci.sdstate.edu/varietytrials/vartrial.html>

Tables for the 2005 Soybean Performance Trials

A	Nearest weather station accumulated precipitation values for 2005 and their departures from normal (DFN).....	6
B	Genes for race resistance to <i>Phytophthora</i> root rot	6
C	Roundup Ready™ soybean entries by brand/variety, yield table number(s), and <i>Phytophthora</i> root rot gene resistance.....	7
D	Conventional soybean entries by brand/variety, yield table number(s), and <i>Phytophthora</i> root rot gene resistance.....	38
E	Mailing addresses of seed companies entered in the 2004 soybean trials.....	43

Roundup Ready™ trial results

1a	Maturity group-0 soybean variety yield averages- northern South Dakota locations, 2004–05.....	10
1b	Maturity group-0 soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2005.....	12
2a	Maturity group-I soybean variety yield averages- northern South Dakota locations, 2004–2005.....	14
2b	Maturity group-I soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2005.....	16
3a	Maturity group-0 soybean variety yield averages- central South Dakota locations, 2004–2005.....	18
3b	Maturity group-0 soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2005.....	19
4a	Maturity group-I soybean variety yield averages- central South Dakota locations, 2004–2005.....	20
4b	Maturity group-I soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2005.....	23
5a	Maturity group-II soybean variety yield averages- central South Dakota locations, 2004–2005.....	26
5b	Maturity group-II soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2005.....	28
6a	Maturity group-I soybean variety yield averages- southern South Dakota locations, 2004–2005.....	30
6b	Maturity group-I soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2005.....	31
7a	Maturity group-II soybean variety yield averages- southern South Dakota locations, 2003–2005.....	32
7b	Maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2005.....	35

Conventional trial results

8a	Maturity group-0 and -I soybean variety yield averages- South Shore, South Dakota, 2004–2005.....	39
8b	Maturity group-0 and -I soybean variety protein, oil, and lodging score averages- South Shore, South Dakota, 2005.....	40
9a	Maturity group-I & -II soybean variety yield averages- Beresford, South Dakota, 2004–2005.....	41
9b	Maturity group-I & -II soybean variety protein, oil, and lodging score averages- Beresford, South Dakota, 2005.....	42

EC 775—Precision Planted Soybeans 2005 Crop Performance Results
is available electronically on the internet
<http://agbiopubs.sdstate.edu/articles/EC775-05.pdf>



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2005 South Dakota Precision Planted Soybean Variety Performance Trials

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- Table A – Nearest station precipitation averages and departures from normal for 2005.
- Table B – Gene race resistance to *Phytophthora* root rot.
- Table C – Roundup Ready™ entries with yield table numbers.
- Table D – Non-Roundup Ready™ entries with yield table numbers.
- Table E – Seed company (brand name) mailing addresses (after yield tables).

Successful soybean production is greatly affected by variety selection for a given growing area. This publication reports the agronomic performance of entries in the 2005 South Dakota performance trials for conventional or non-Roundup Ready™ and Roundup Ready™ soybean varieties. Important factors in variety selection include yield, maturity, plant height, lodging resistance, and *Phytophthora* root rot resistance. In the case of public varieties, additional information including emergence, shattering, and iron chlorosis scores (Table A) are available to assist in making variety selections.

General

Soybean varieties are classified according to maturity groups, which in turn are adapted to maturity zones. Maturity zones are based on day length and therefore are greatly impacted by latitude. Consequently, maturity group-00 varieties are best suited to Canada and bordering regions of the U.S., while maturity group-0, group-I, and group-II varieties are suited to South Dakota. Groups III through VIII are suited to Iowa, Nebraska, and southward into Texas.

These soybean performance trial results are reported according to the prevalent maturity zones in South Dakota (see

map). Roundup-Ready™ soybean variety trials are conducted in the following test zones and locations:

Northern test zone: Maturity group-0 and -I trials at South Shore and Warner.

Central test zone: Maturity group-0, -I, and -II trials at Brookings and Bancroft.

Southern test zone: Maturity group-I and -II trials at Beresford and Delmont.

The conventional soybean variety trials are only conducted on SDSU-affiliated research farms and locations:

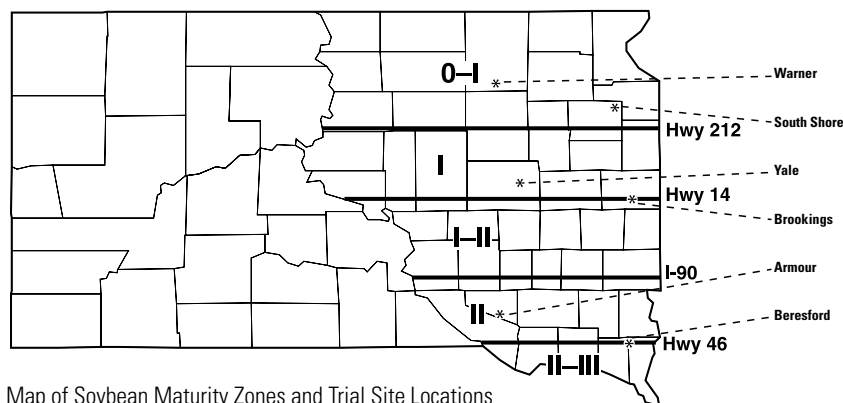
NE Research Farm, South Shore- Maturity group-0 and -I trials.

South Dakota Agricultural Experiment Station (SDAES) Farm, Beresford- Maturity group-I and -II trials.

Note there are transition areas where varieties of two maturity groups may perform similarly. In such cases other mitigating factors like rainfall and or elevation may moderate the effect of latitude on maturity.

In most cases, an earlier maturity group may be seeded in a zone suited to a later maturity group. Generally, this is only practical if seeding is delayed, when reseeding following hail, or if double cropping.

Phytophthora root rot (PRR) is an important soybean disease



Map of Soybean Maturity Zones and Trial Site Locations

in South Dakota and is often controlled or managed with the use of resistant varieties. However, the resistance to PRR is fungus-race specific. This means resistance to one race does not necessarily impart resistance to other races. Knowledge of the races of PRR fungus prevalent in your area is helpful. If a field is suspected of having PRR and the specific race(s) involved is unknown, then selection of varieties having genes that impart a wide range of race resistance is strongly suggested (see discussion of *Phytophthora* under General Test Procedures).

An alternative method of control is the use of “tolerant varieties.” Tolerant varieties are not resistant to PRR in the seedling stage. Therefore, a *Phytophthora* specific fungicide must be applied to protect them. Presently, we have no information on the field tolerance of varieties adapted to this region. Therefore, field tolerance ratings are not given in this publication.

Certified seed is the best source of seed and the only way to be assured of the genetic purity of the variety seeded. In addition, inoculation of seed with the appropriate nitrogen-fixing bacterium is a good fundamental practice. Inoculate if soybeans are seeded in soils not previously cropped with soybeans. On soils previously cropped to soybeans there is no guarantee that beneficial bacteria will be present to naturally inoculate planted seed. Therefore, inoculation of seed at planting is an inexpensive means of increasing the percentage of plants that will fix nitrogen in the current crop year.

Yield

Yields are obtained from the South Dakota Crop Performance Testing Program (CPT). Current-year yields are included for each entry tested at a given location. In addition, 2-year averages are included where varieties have been tested for 2 years. Yields, test averages, and Least significant difference (Lsd) values are printed at the bottom of each yield column for each location and are rounded off to the nearest bushel.

The Lsd value can be used to determine whether varieties differ in yield potential. For example, assume Variety A yields 30 bu, Variety B yields 25 bu, and the calculated Lsd value is 4 bu. The yield difference between varieties A and B is 5 bu per acre. Since the yield difference of 5 bu is greater than the test Lsd value of 4 bu, the yield of Variety A (30 bu) is significantly higher than the yield of Variety B (25 bu).

But if Variety A yielded 28 bu and Variety B yielded 25 bu, the yield difference would be 3 bu per acre. In this case, both varieties would have a similar yield because their yield difference of 3 bu was less than the test Lsd value of 4 bu per acre.

Use Lsd values to identify the best-yielding varieties. The Lsd value indicated at the bottom of each yield column is used to calculate the **minimum top yield value**. For example, if the highest yield within a column is 50 bu and the LSD value for that yield column is 5 bu, then the minimum top yield value equals 45 bu ($50 - 5 = 45$). Within a yield column, varieties with yields equal to or higher than this minimum top yield value are the best yielding varieties.

Entries in all tables are sorted from highest to lowest values according to the variable(s) listed in the Brand/Variety column of each performance table. Note: Entries tested for 2 years may also have a top yield group value in the 2005 yield column.

Participating companies pick the locations where their entries are tested. Entries are placed into either maturity group-0, -I,

or -II test trials. A company selects the appropriate maturity group trial for its entries at each location. Generally, companies have one or more maturity group checks for the varieties they market. However, there are no standard regional or national check varieties for maturity. Consequently, a late group-I variety from one company may be similar in maturity to an early group-I variety from another company because they use different check varieties for maturity. As a result, **this testing program can not guarantee that all entries are placed in the proper maturity trial**. In some trials, borderline entries with maturity group ratings at or near the arbitrary breaks between late group-0 and early group-I and between late group-I and early group-II may crossover at a given location.

When evaluating the performance of any entry in a given trial it is strongly suggested that you also note the reported maturity of the entry. Since all entries at a given location are seeded the same day, you can compare the relative difference in maturity (days after maturity) between varieties. If the maturity rating for an entry in a group-I test is similar to the rating for a variety in the group-II test at the same test location, then you might conclude they are similar in maturity regardless of their company maturity rating.

Use caution when comparing the maturity rating of a given variety from one location to the rating obtained at other locations. Should early season soil moisture and soil temperature values differ greatly, then maturity ratings may differ between locations; therefore, maturity comparisons of a variety over many locations may be misleading.

The efforts of J. Smolik and A. Heuer, NE Research Farm, South Shore, and R. Berg and staff, SE Research Farm, Beresford, in obtaining the data is gratefully acknowledged. The comments regarding *Phytophthora* root rot race resistance and tolerance by Marty Draper, Extension plant pathologist is appreciated.

In addition, the assistance and cooperation of our farmer co-operators, Allen and Inel Ryckman, Warner, Richard Luebke, Delmont, and Erland Weerts, Bancroft, is gratefully acknowledged.

Protein and Oil Content

The protein and oil values reported are for the 2005 cropping season. At all locations, one sub-sample from each replication (3 sub-samples total) of every variety in each trial was tested for protein and oil, using a FOSS TECATOR Model Infratec 1229 grain analyzer calibrated using the manufacturer’s software. Samples of known protein and oil that had been tested by the SDSU Agricultural Experiment Station Biochemistry Laboratory were then used to verify their software calibration. All protein and oil values are adjusted to a 13% moisture basis.

Weather and Seasonal Precipitation

In the spring of 2005, late May precipitation caused planting to be delayed until June 16 and June 20, respectively, at Beresford and Delmont. A best estimate of seasonal precipitation and its distribution is shown in Table A. As of August 28, all weather reporting stations nearest each test trial were reporting average or above rainfall accumulation. In July, Watertown and Huron reported below average rainfall but by late August had attained near average or above rainfall. It should be noted that the cooperator at Delmont indicated that less moisture was received by Delmont than at the nearest reporting station at Armour.

General Test Procedures

The general test procedures outlined below apply to both conventional non-Roundup Ready™ and Roundup Ready™ soybean entries with one exception: Weed control in the Roundup Ready™ test consisted of both pre- and post-emergence treatments at the research farms.

Pre-emergence treatments consisted of 1 qt Dual II Magnum at South Shore and Brookings and 26 oz Roundup + 1 qt Dual + 1pt Select at Beresford. The post-emergence treatment consisted of an application of Roundup Ultra (32 oz/A) when weeds were 4-5 inches tall followed by the same application. In non-Roundup Ready™ test trials, pre-emergence herbicides consisted of 1 qt Dual II Magnum at South Shore and Brookings and 26 oz Roundup + 1 qt Dual + 1pt Select at Beresford. No post-emergence treatments were applied. Chemicals were applied according to label instructions.

Insecticide treatments were applied at all research farm test trials to control soybean aphid and bean leaf beetle. At South Shore, Asana was applied August 13; at Brookings, Warrior was applied August 13; and at Beresford, NuFos was applied on August 16, 2005, at recommended rates.

Test Procedures: A row spacing of 30 inches was used at all locations. The seeding rate was 165,000 seeds per acre for all varieties and locations. Test plots consist of 4-row plots, 20 feet long, with three replications at all locations. Soybean inoculation was accomplished by applying Nitragin brand Soybean Soil Implant down the seed tube, according to label instructions and rates, during seeding. Seeding at all locations was accomplished using a Monosem precision row crop planter. The use of this planter this year resulted in very uniform seed spacing within the

seed row. The center two rows of each plot were harvested for yield.

Yield: Plots were harvested at 15% seed moisture or less. Yields were calculated on a 13% moisture content basis and expressed in bushels per acre. Harvest was accomplished using a Massey Ferguson 8XP small plot combine.

Reporting variety maturity: Variety maturity is reported as “Days To Maturity” or DTM. Entries are mature when 95% of the pods have turned brown. Each maturity value is obtained by determining the average number of days from seeding to maturity for two replicates. If the DTM value is missing, the entry did not reach maturity before the first killing frost and no value is given.

Height: Height was measured from the soil surface to the top node of the main stem.

Lodging Score: Scores at maturity are based on average erectness of the main stem of plants within each variety. 1 = all plants erect, 2 = slight lodging, 3 = lodging at a 45 degree angle, 4 = severe lodging, and 5 = all plants flat.

Phytophthora: The gene resistance traits of entries to the many *Phytophthora* races were supplied by the participating seed company (proprietary entries) or obtained from the USDA, Uniform Soybean Tests, Northern States (public entries). A key for each type of PRR gene and the race resistance it imparts to a variety is indicated in Table B. The specific race resistance to PRR for a given variety, as reported by the seed company, can be determined by noting the type of *Phytophthora* gene in tables C (Roundup Ready™) and D (non-Roundup Ready™) and referencing the gene type to table B to find the final race resistance. Presently, races 1, 3, and 4 are the most common races in South Dakota.

ROUNDUP READY™ SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS

Note: Yields are reported as 2005 averages or 2-year averages (2004-05).

NORTHERN TEST ZONE

SOUTH SHORE- Northeast Research Farm
WARNER- NO-TILL, Allen & Inel Ryckman Farm
(cooperators)

South Shore, Group-0 (Tables 1a & 1b): The 2005 and 2-year test yield averages were 49 and 44 bu per acre, respectively (Table 1a). Varieties had to average 50 bu or higher to be in the top yield group for 2005. Varieties had to average 44 bu or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 4 bu in 2005 and 5 bu for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 37.2%, 17.2% and 1, respectively (Table 1b). Lodging score averages of 1 indicated a variety qualified for the top performance group or did not exhibit any lodging.

Warner, Group-0 (Tables 1a & 1b): The 2005 and 2-year test yield averages were 50 and 49 bu per acre, respectively (Table 1a). Varieties had to average 50 bu or higher to be in the top yield group for 2005. Varieties had to average 47 bu or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 5 bu in 2005 and 5 bu for 2 years to be significantly different.

The 2005 protein, oil, and lodging score test averages were 34.5%, 18.5%, and 1, respectively (Table 1b). Lodging score averages among the varieties were not significantly different from one another.

Northern test zone, Group-0 (Tables 1a & 1b): The 2005 and 2-year test yield averages in the Northern zone were 49 and 47 bu per acre, respectively (Table 1a). Varieties had to average 51 bu or higher to be in the top yield group for 2005. Variety yield averages had to differ by 3 bu in 2005 to be significantly different. Varieties had to average 48 bu or higher to be in the top yield group for 2 years. The 2005 protein, oil, and lodging score test averages were 35.9%, 17.8%, and 1, respectively (Table 1b). Only a few entries exhibited any measurable lodging.

South Shore, Group-I (Tables 2a & 2b): The 2005 and 2-year test yield averages were 47 and 45 bu per acre, respectively (Table 2a). Varieties had to average 48 bu or higher to be in the top yield group for 2005. Varieties had to average 45 bu or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 4 bu in 2005 and 3 bu for 2 years to be in the top performance group for yield. The 2005 protein, oil, and lodging score test averages were 36.9%, 17.2%, and 1, respectively (Table 2b). Although lodging scores were significant, an average of 1 indicated lodging was not a major factor in this trial.

Warner, Group-I (Tables 2a & 2b): The 2005 and 2-year test yield averages were 51 and 50 bu per acre, respectively (Table 2a). Varieties had to average 52 bu or higher to be in the top yield group for 2005. Varieties had to average 49 bu or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 5 bu in both 2005 and for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 34.0%, 18.6%, and 1, respectively (Table 2b). Although lodging score averages were significant, the amount of lodging present was not a major factor for this trial.

Northern test zone, Group-I (Tables 2a & 2b): The 2005 and 2-year test yield averages in the Northern zone were 49 and 48 bu per acre, respectively (Table 2a). Varieties had to average 51 bu or higher in 2005 and 47 bu for 2 years to be in the top yield group. Variety yield averages had to differ by 3 bu in both 2005 and for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 35.5%, 17.9%, and 1, respectively (Table 2b). Lodging score averages indicated lodging was not a major problem in 2005 in this trial.

CENTRAL TEST ZONE

BROOKINGS– Plant Science Research Farm
BANCROFT- NO-TILL, Erland Weerts (cooperator)

Brookings, Group-0 (Tables 3a & 3b): The 2005 and 2-year test yield averages were 64 and 55 bu per acre, respectively (Table 3a). Varieties had to average 65 bu or higher to be in the top yield group for 2005. Varieties had to average 54 bu or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 4 bu in 2005 and for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 36.1%, 17.3%, and 2, respectively (Table 3b). Lodging score averages had to equal 1 to be in the top performance group. On average, lodging was measurable but did not impact yield significantly.

Bancroft, Group-0 (Tables 3a & 3b): The 2005 yield average was 63 bu per acre (Table 3a). Likewise, varieties had to average 63 bu or higher to be in the top yield group for 2005. Variety yield averages had to differ by 5 bu in 2005 to be significantly different. The 2005 protein, oil, and lodging score test averages were 34.9%, 17.5%, and 1, respectively (Table 3b). Although lodging score averages were significant, the amount of lodging present was not a major factor for this trial.

Central test zone, Group-0 (Tables 3a & 3b): The 2005 yield average was 64 bu per acre (Table 3a). Varieties had to average 65 bu or higher to be in the top yield group for 2005. Variety yield averages had to differ by 3 bu in 2005 to be significantly different. The 2005 protein, oil, and lodging score test averages were 35.5%, 17.3%, and 2, respectively (Table 3b). Although a few varieties exhibited moderate lodging score averages, lodging did not appear to impact yield significantly in this zone.

Brookings, Group-I (Tables 4a & 4b): The 2005 and 2-year test yield averages were 66 and 57 bu per acre, respectively (Table 4a). Varieties had to average 69 bu or higher to be in the top yield group for 2005. Varieties had to average 57 bu or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 4 bu in 2005 and 3 bu for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 35.1%,

17.1%, and 2, respectively (Table 4b). A lodging score average of 2 indicated lodging was measurable and ranged from no lodging (1) to moderately severe lodging (4). A few varieties with a lodging score of 1 did not exhibit any tendency to lodge.

Bancroft, Group-I (Tables 4a & 4b): The 2005 yield average was 64 bu per acre (Table 4a). Varieties had to average 69 bu or higher to be in the top yield group for 2005. Variety yield averages had to differ by 4 bu in 2005 to be significantly different. The 2005 protein, oil, and lodging score test averages were 34.4%, 18.9%, and 2, respectively (Table 4b). A lodging score average of 2 indicated lodging was measurable and ranged from no lodging (1) to moderate lodging (3). A few varieties with a lodging score of 1 did not exhibit any tendency to lodge.

Central test zone, Group-I (Tables 4a & 4b): The 2005 yield average was 66 bu per acre (Table 4a). Varieties had to average 69 bu or higher to be in the top yield group for 2005. Variety yield averages had to differ by 3 bu in 2005 to be significantly different. The 2005 protein, oil, and lodging score test averages were 34.8%, 18.1%, and 2, respectively (Table 4b). Although most varieties exhibited some degree of lodging, it did not appear to impact yield significantly in this zone.

Brookings, Group-II (Tables 5a & 5b): The 2005 and 2-year test yield averages were 67 and 59 bu per acre, respectively (Table 5a). Varieties had to average 71 bu or higher in 2005 and 57 bu or higher for 2 years to be in the top yield group. Variety yield averages had to differ by 4 bu in 2005 and 5 bu for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 34.6%, 17.9%, and 3, respectively (Table 5b). Lodging score averages had to be 2 or less to be in the top performance group. Although lodging was significant in this trial, yields were still significantly higher than average compared to other years.

Bancroft, Group-II (Tables 5a & 5b): The 2005 yield average was 68 bu per acre (Table 5a). Varieties had to average 69 bu or higher to be in the top yield group for 2005. Variety yield averages had to differ by 4 bu in 2005 to be significantly different. The 2005 protein, oil, and lodging score test averages were 34.0%, 18.5%, and 2, respectively (Table 5b). A lodging score average of 2 indicated lodging was measurable and ranged from no lodging (1) to moderate lodging (3). A few varieties with a lodging score of 1 did not exhibit any tendency to lodge.

Central test zone, Group-II (Tables 5a & 5b): The 2005 yield average was 67 bushels per acre (Table 5a). Varieties had to average 70 bushels or higher to be in the top yield group for 2005. Variety yield averages had to differ by 3 bu in 2005 to be significantly different. The 2005 protein, oil, and lodging score test averages were 34.2%, 18.3%, and 2, respectively (Table 5b). Although a few varieties exhibited moderate lodging yield averages were above average for this zone in 2005.

SOUTHERN TEST ZONE

BERESFORD– South Dakota Agricultural Experiment Station Farm
DELMONT- NO-TILL, Richard Luebke Farm (cooperator)

Note: The trials at Beresford and Delmont were seeded relatively late on June 16 and June 20, 2005, respectively, as the

result of a wet spring at these locations. The soybean trials at Delmont suffered due to a lack of much needed moisture in July and August.

Beresford, Group-I (Tables 6a & 6b): The 2005 and 2-year test yield averages were 51 and 58 bu per acre, respectively (Table 6a). Varieties had to average 50 bu or higher in 2005 and 55 bu or higher for 2 years to be in the top yield group. Variety yield averages had to differ by 7 bu in both 2005 and for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 34.8%, 18.3%, and 1, respectively (Table 6b). Lodging was not a significant factor in 2005.

Delmont, Group-I (Tables 6a & 6b): The 2005 and 2-year test yield averages were 24 and 32 bu per acre, respectively (Table 6a). Varieties had to average 27 bu or higher in 2005 and 33 bu or higher for 2 years to be in the top yield group. Variety yield averages had to differ by 4 bu in 2005 and 5 bu for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 34.5%, 17.3%, and 1, respectively (Table 6b). Lodging was not observed in this trial in 2005.

Southern test zone, Group-I (Tables 6a & 6b): The 2005 and 2-year test yield averages in the southern zone were 38 and 46 bu per acre, respectively (Table 6a). Varieties had to average 38 bu or higher in 2005 and 42 bu or higher for 2 years to be in the top yield group. Variety yield averages had to differ by 4 bu in 2005 and 7 bu for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 34.6%, 17.8%, and 1, respectively (Table 6b). On average, lodging was not significant in this zone in 2005.

Beresford, Group-II (Tables 7a & 7b): The 2005 and 2-year test yield averages were 51 and 60 bu per acre, respectively (Table 7a). Varieties had to average 55 bu or higher in 2005 and 61 bu for 2 years to be in the top yield group. Variety yield averages had to differ by 6 bu in both 2005 and for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 35.2%, 18.0%, and 1, respectively (Table 7b). A lodging score average of 1 indicates lodging was not significant in this trial in 2005.

Delmont, Group-II (Tables 7a & 7b): The 2005 and 2-year test yield averages were 26 and 34 bu per acre, respectively (Table 7a). Varieties had to average 29 bu or higher in 2005 and 35 bu or higher for 2 years to be in the top yield group. Variety yield averages had to differ by 4 bu in both 2005 and for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 32.8%, 17.8%, and 1, respectively (Table 7b). There was no lodging observed in this trial for 2005.

Southern test zone, Group-II (Tables 7a & 7b): The 2005 and 2-year test yield averages in the southern zone were 39 and 47 bu per acre, respectively (Table 7a). Varieties had to average 40 bu or higher in 2005 and 44 bu or higher for 2 years to be in the top yield group. Variety yield averages had to differ by 4 bu in 2005 and 7 bu for 2 years to be significantly different. Yield averages differed significantly between locations for both 2005 and for 2 years. Growers are encouraged to look at both the 2005 and the 2-year yield averages at each location separately to evaluate average yield trends at a given location. The 2005 protein, oil, and lodging score test averages were 34.0%, 17.9%, and 1, respectively (Table 7b). On average, lodging was not a significant factor in this zone in 2005.

NON-ROUNDUP READY™ SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS

SOUTH SHORE– Northeast Research Farm
BERESFORD– South Dakota Agricultural Experiment
Station Farm

Note: Yields are reported as 2005 averages or 2-year averages (2004-05). The trials at Beresford were seeded relatively late on June 16, 2005, as the result of a wet spring at that location.

South Shore, Group-0 (Tables 8a & 8b): The 2005 and 2-year test yield averages were 41 and 34 bu per acre, respectively (Table 8a). Varieties had to average 41 bu or higher in 2005 and 32 bu or higher for 2 years to be in the top yield group. Variety yield averages had to differ by 4 bu in both 2005 and for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 38.5%, 16.5%, and 1, respectively (Table 8b). On average, lodging was not a significant factor in this trial in 2005.

South Shore, Group-I (Tables 8a & 8b): The 2005 and 2-year test yield averages were 43 and 35 bu per acre, respectively (Table 8a). Varieties had to average 47 bu or higher in 2005 and 34 bu or higher for 2 years to be in the top performance group for yield. Variety yield averages had to differ by 5 bu or more in 2005 to be significantly different. There was no difference in yield between the two varieties tested for 2 years. The 2005 protein, oil, and

lodging score test averages were 38.3%, 16.5%, and 1, respectively (Table 8b). Lodging was not a significant factor for the varieties in this trial in 2005.

Beresford, Group-I (Tables 9a & 9b): The 2005 and 2-year test yield averages were 45 and 53 bu per acre, respectively (Table 9a). Varieties had to average 45 bu or higher in 2005 and 51 bu or higher for 2 years to be in the top performance group for yield. Variety yield averages had to differ by 7 bu in 2005 and 9 bu for 2 years to be significantly different. The 2005 protein, oil, and lodging score test averages were 36.3%, 18.3%, and 1, respectively (Table 9b). Although lodging was significant, it did not have a major impact on yield in this trial in 2005.

Beresford, Group-II (Tables 9a & 9b): The 2005 and 2-year test yield averages were 43 and 53 bu per acre, respectively (Table 9a). Varieties had to average 43 bu or higher in 2005 and 46 bu or higher for 2 years to be in the top performance group for yield group. Variety yield averages had to differ by 5 bu in 2005 to be significantly different. There was no difference in yield average between the varieties tested for 2 years. The 2005 protein, oil, and lodging score test averages were 34.0%, 18.6%, and 1, respectively (Table 9b). Although lodging was significant, it did not have a major impact on yield in this trial in 2005.

Table A. Nearest weather station accumulated precipitation values for 2005 and their departures from normal (DFN)

Source: USDA-SD-Crop-Weather report & SD Automatic Weather Data Network.

Station	05/DFN*	Accumulation from April 1 up to the date stated:					
		Apr. 3	May 1	June 26	July 31	Aug. 28	Sept. 25
Aberdeen	'05	0.00	0.38	7.28	11.28	14.10	14.99
Airport	DFN*	-0.18	-1.64	0.17	1.02	1.92	1.00
Watertown	'05	0.00	1.50	9.12	10.34	13.02	16.11
Airport	DFN	-0.18	-0.76	0.82	-1.45	1.25	-0.06
Huron	'05	0.00	0.67	9.08	10.50	13.02	19.55
Airport	DFN	-0.18	-1.50	1.20	-0.48	0.25	5.13
Brookings	'05	0.00	2.03	11.50	15.32	18.34	25.91
2NE	DFN	-0.18	-0.12	2.72	2.66	3.16	8.20
Centerville	'05	0.00	2.73	14.45	16.60	17.85	21.11
6 SE	DFN	-0.18	0.37	5.05	3.29	1.89	2.63
Armour	'05	0.00	2.69	14.30	17.17	17.90	23.23
Airport	DFN	-0.21	0.26	5.41	4.65	3.43	6.55

* DFN - how much a variable for year 2005 is greater or less (-) than the long-term average.

Table B. *Phytophthora* root rot strain resistance according to gene.

Gene	Strain Resistance
0	None
1a	1-2,10-11,13,15-18,24
1b	1,3-9,13-15,18,21-22
1c	1-3,6-11,13,15,17,21,23-24
1k	1-11,13-15,17-18,21-22,24
2	1-5,9-20
3	1-5,8-9,11,13-14,16,18,23,25
4	1-4,10,12-16,18-21,25
5	1-5,8-9,11-14,18,20,25
6	1-4,10,12,14-16,18-21,25
7	16,18,19
K6	1-22,24-25
C3	1-10,13-18,22-25
B3	1-9,13-16,18,21-23,25
MIX	Resistant & Susceptible Plants
NR	Not Reported

Table C. 2005 Roundup Ready soybean entries by brand/variety, maturity group, gene for *Phytophthora* root rot resistance, and performance table number(s).

Brand / Variety	Mat.	Gene Resistance	Table	Brand / Variety	Mat.	Gene Resistance	Table
	Grp.		No.(s)		Grp.		No.(s)
AGVENTURE/11T1RR	I	Not Reported	2,4	FARM ADVANTAGE/FA 7192	I	Not Reported	4
AGVENTURE/15T5RR	I	Not Reported	2,4	FARM ADVANTAGE/FA 7205	II	Rps1 (Rps1a)	5
AGVENTURE/17T6RR	I	Not Reported	4	FARM ADVANTAGE/FA 7264	II	Rps1k	7
AGVENTURE/EXPXD15B	I	Not Reported	2	FARM ADVANTAGE/FA7244N	II	Rps1c	7
ASGROW/AG1502	I	rps - None	2,4	GOLD COUNTRY/1619RR	I	Rps1k	4
ASGROW/AG1702	I	Rps1k	2,4,6	GOLD COUNTRY/2509RR	0	rps - None	1
ASGROW/AG1903	I	Rps1k	2,4,6	GOLD COUNTRY/2726RR	II	Rps1c	7
ASGROW/AG2107	II	Rps1k	5,7	GOLD COUNTRY/3512RR	I	Rps1c	2
ASGROW/AG2205	II	Rps1k	5,7	GOLD COUNTRY/3615RR	I	Rps1k	2
ASGROW/AG2403	II	Rps1k	5,7	GOLD COUNTRY/3618RR	I	rps - None	2,4,6
COYOTE/4523RR	II	Rps1k	5,7	GOLD COUNTRY/6221RR	II	Rps1k	5
COYOTE/4527RR	II	Rps1k	7	HEFTY/094R	0	rps - None	1
COYOTE/4719RR	I	Rps1k	4,6	HEFTY/095R	0	Rps1k	1
COYOTE/9524RR	II	Rps1k	7	HEFTY/125R	I	rps - None	2
COYOTE/EXP624	II	Rps1c	7	HEFTY/175R	I	Rps1 (Rps1a)	4
COYOTE/EXP922	II	rps - None	5,7	HEFTY/195R	I	rps - None	4
DAIRYLAND/DSR-050/RR	0	Not Reported	1	HEFTY/214R	II	Rps1k	5
DAIRYLAND/DSR-0701/RR	0	Rps1k	1,3	HEFTY/EXP 226R	II	Rps1 (Rps1a)	5
DAIRYLAND/DSR-1301/RR	I	Not Reported	2,4	HEFTY/EXP 266R	II	Rps1c	5
DAIRYLAND/DSR-1500/RR	I	Not Reported	2,4	INTEGRA/PSI 95090RR	0	Not Reported	1,3
DAIRYLAND/DSR-1900/RR	I	Rps1k	4	INTEGRA/PSI 95160RR	I	Not Reported	4
DAIRYLAND/DSR-199/RR	I	Rps1k	4	INTEGRA/PSI 95200RR	II	Not Reported	7
DAIRYLAND/DSR-2100/RR	II	Not Reported	7	INTEGRA/PSI 96090RR	0	Not Reported	1,3
DAIRYLAND/DSR-234/RR	II	Rps1k	7	INTEGRA/PSI 96100RR	I	Not Reported	4
DAIRYLAND/DSR-2500/RR	II	Rps1k	7	INTEGRA/PSI 96110RR	I	Not Reported	2,4
DAIRYLAND/DSR-2600/RR	II	Rps1k	7	INTEGRA/PSI 96210RR	II	Not Reported	7
DAIRYLAND/DST09002RRSTS	0	Rps1k	1	INTEGRA/PSI 96230RR	II	Not Reported	7
DAIRYLAND/DST14-001/RR	I	Not Reported	2,4	INTEGRA/PSI 96260RR	II	Not Reported	7
DAIRYLAND/DST14000RRSTS	I	Not Reported	2	INTEGRA/PSI 96280RR	II	Not Reported	7
DEKALB/DKB08-51	0	Rps1k	1,3	KALTENBERG/KB135RR	I	Rps1c	4
DEKALB/DKB10-52	I	Rps1k	2,4	KALTENBERG/KB155RR	I	Rps1k	4
DEKALB/DKB18-51	I	Rps1k	2,4	KALTENBERG/KB241RR	II	rps - None	7
DEKALB/DKB22-52	II		5,7	KALTENBERG/KB248RR	II	Rps1c	7
DEKALB/DKB25-51	II	Rps1k	7	KALTENBERG/KB256RR	II	Rps1k	7
DEKALB/DKB26-53	II	Rps1c	7	KALTENBERG/KB276RR	II	Rps1k	7
DYNA-GRO/3190RR	I	Not Reported	2,4	KRUGER/EXP080RR	0	Rps1k	1,3
DYNA-GRO/31N27	II	Rps1k	7	KRUGER/EXP102RR	I	Not Reported	2,4
DYNA-GRO/32C25	II	Not Reported	7	KRUGER/EXP150RR	I	Rps1k	4,6
DYNA-GRO/33M14	I	Not Reported	2,4	KRUGER/EXP180RR	I	Not Reported	4,6
DYNA-GRO/35D15	I	Rps1k	2,4	KRUGER/EXP225RR	II	Not Reported	5
DYNA-GRO/37A10	0	Rps1k	1,3	KRUGER/EXP237RR	II	Not Reported	5
DYNA-GRO/EXP SX05123	II	Rps1 (Rps1a)	7	KRUGER/EXP238RR	II	Not Reported	5
DYNA-GRO/EXP SX05317	1TR	Rps1k	2,4	KRUGER/EXP260RR	II	Rps1k	7
DYNA-GRO/EXP SX05514	I	Rps1k	2,4	KRUGER/EXP280RR	II	Rps1k	7
DYNA-GRO/EXP SX05611	I	Not Reported	2,4	KRUGER/K-056RR	0	Not Reported	1
DYNA-GRO/EXP SX05816	I	Not Reported	2,4	KRUGER/K-098RR	0	Not Reported	1,3
				KRUGER/K-100RR	I	Rps1k	2,4
FARM ADVANTAGE/FA 7063	0	Not Reported	1	KRUGER/K-122RR	I	Not Reported	2,4
FARM ADVANTAGE/FA 7103	I	Not Reported	2	KRUGER/K-149+RR	I	Rps1k	2,4,6
FARM ADVANTAGE/FA 7173	I	Rps1k	4	KRUGER/K-156RR	I	Rps1k	2,4,6

Note: Strain or race resistance by gene type is reported in table D.

Table C. 2005 Roundup Ready soybean entries by brand/variety, maturity group, gene for *Phytophthora* root rot resistance, and performance table number(s) (Continued).

Brand / Variety	Mat.	Gene Resistance	Table	Brand / Variety	Mat.	Gene Resistance	Table
	Grp.		No.(s)		Grp.		No.(s)
KRUGER/K-177RR	I	Not Reported	2,4,6	NORTHSTAR/NS 1509RR	I	Not Reported	6
KRUGER/K-192RR	I	Not Reported	2,4,6	NORTHSTAR/NS 1624RR	I	Rps1c	6
KRUGER/K-195+RR/SCN	I	Rps1k	4,6	NORTHSTAR/NS 1809RR	I	Not Reported	6
KRUGER/K-200RR	II	Rps1 (Rps1a)	5,7	NUTECH/NT-0886RR	0	rps - None	1
KRUGER/K-211+RR	II	Rps1k	5	NUTECH/NT-0889RR	0	rps - None	1
KRUGER/K-212RR	II	Rps1k	5,7	NUTECH/NT-0939RR	0	rps - None	1,3
KRUGER/K-223+RR	II	Rps1k	5,7	NUTECH/NT-0999+RR	0	rps - None	1,3
KRUGER/K-233+RR	II	Rps1k	5,7	NUTECH/NT-0999RR	0	Rps1k	1,3
KRUGER/K-255RR	II	Not Reported	7	NUTECH/NT-1212RR/SCN	0	rps - None	1,3
KRUGER/K-270RR	II	Rps1c	7	NUTECH/NT-1404RR	I	Rps1k	2,4
KRUGER/K-273RR	II	Rps1c	7	NUTECH/NT-1516RR	I	Rps1c	2,4
KRUGER/K-289+RR	II	Rps1k	7	NUTECH/NT-1555RR	I	Rps1k	2,4
LATHAM/497RR	II	Rps1k	7	NUTECH/NT-1909RR	I	rps - None	2,4,6
LATHAM/EXP-E1330R	I	rps - None	2	NUTECH/NT-1921RR	I	Rps1 (Rps1a)	2,4
LATHAM/EXP-E1635R	I	Rps1k	2	NUTECH/NT-2100RR	I	rps - None	2,4
LATHAM/EXP-E1756R	I	Rps1k	2	NUTECH/NT-2102RR	I	Not Reported	2,4
LATHAM/EXP-E1935R	I	Rps1k	4	NUTECH/NT-2202ARR	I	Rps1c	2,4
LATHAM/EXP-E1936R	I	rps - None	4	NUTECH/NT-2202RR	I	Rps1k	2,4
LATHAM/EXP-E2045R	II	Rps1k	5	NUTECH/NT-2324RR/SCN	II	Rps1c	5,7
LATHAM/EXP-E2450R	II	Rps1k	7	NUTECH/NT-2330RR	II	Rps1c	5,7
LATHAM/EXP-E2635R	II	Rps1c	7	NUTECH/NT-2333RR	II	Rps1 (Rps1a)	5
LATHAM/L2136R	II	rps - None	7	NUTECH/NT-2424RR/SCN	II	rps - None	5,7
LATHAM/L2336R	II	rps - None	7	NUTECH/NT-2440RR	II	Not Reported	5
LATHAM/L2900R	II	rps - None	7	NUTECH/NT-2626RR	II	rps - None	5,7
MUSTANG/M-055RR	0	rps - None	1	NUTECH/NT-2707RR	II	Rps1c	5,7
MUSTANG/M-066RR	0	Rps1 (Rps1a)	1	NUTECH/NT-2790RR	II	rps - None	7
MUSTANG/M-075RR	0	Rps1 (Rps1a)	1	NUTECH/NT-2890RR	II	Rps1k	7
MUSTANG/M-094RR	0	rps - None	1,3	NUTECH/NT-2990RR	II	Rps1k	7
MUSTANG/M-095RR	0	rps - None	1,3	NUTECH/NT-2992RR	II	rps - None	7
MUSTANG/M-096RR	0	rps - None	1,3	NUTECH/NT-7205+RR	I	Rps1k	2,4
MUSTANG/M-115RR	I	Rps1c	4	PRAIRIE BR./PB-0725RR	0	Not Reported	1
MUSTANG/M-136RR	I	Rps1k	4	PRAIRIE BR./PB-0923RR	0	Rps1k	1,3
MUSTANG/M-155RR	I	Rps1k	4	PRAIRIE BR./PB-0954RR	0	Not Reported	1,3
MUSTANG/M-156RR	I	Rps1k	4	PRAIRIE BR./PB-0965RR	0	Not Reported	1,1
MUSTANG/M-176RR	I	Rps1 (Rps1a)	4	PRAIRIE BR./PB-1294RR	I	Rps1c	2,4
MUSTANG/M-201RR	II	Rps1k	5,7	PRAIRIE BR./PB-1525RR	I	Rps1k	2,4
MUSTANG/M-203RR	II	rps - None	5,7	PRAIRIE BR./PB-1725RR	I	Rps1k	2,4
MUSTANG/M-205RR	II	Rps1 (Rps1a)	5,7	PRAIRIE BR./PB-1754RR	I	Not Reported	2,4
MUSTANG/M-226RR	II	Rps1 (Rps1a)	5,7	PRAIRIE BR./PB-1914RR	I	Not Reported	2,4,6
MUSTANG/M-264RR	II	Rps1k	7	PRAIRIE BR./PB-1954RR	I	Rps1 (Rps1a)	2,4,6
MUSTANG/M-284RR	II	rps - None	7	PRAIRIE BR./PB-2141RR	II	Rps1k	5,7
MUSTANG/M-286NRR	II	Rps1c	7	PRAIRIE BR./PB-2183NRR	II	Rps1k	7
NORTHSTAR/NS 0517RR	0	Not Reported	1	PRAIRIE BR./PB-2205RR	II	Not Reported	5,7
NORTHSTAR/NS 0910RR	0	Not Reported	1	PRAIRIE BR./PB-2243RR	II	Rps1k	5,7
NORTHSTAR/NS 0920RR	0	Not Reported	1	PRAIRIE BR./PB-2343RR	II	Not Reported	7
NORTHSTAR/NS 0954RR	0	Not Reported	1,3	PRAIRIE BR./PB-2345RR	II	Not Reported	5,7
NORTHSTAR/NS 1010RR	I	Not Reported	2	PRAIRIE BR./PB-2385NRR	II	Not Reported	7
NORTHSTAR/NS 1120RR	I	Rps1k	2,4	PRAIRIE BR./PB-2421RR	II	Rps1k	5,7
NORTHSTAR/NS 1310RR	I	Not Reported	4	PRAIRIE BR./PB-2565RR	II	Rps1c	7
NORTHSTAR/NS 1409RR	I	Rps1k	4	PRAIRIE BR./PB-2625RR	II	Not Reported	7

Note: Strain or race resistance by gene type is reported in table B.

Table C. 2005 Roundup Ready soybean entries by brand/variety, maturity group, gene for *Phytophthora* root rot resistance, and performance table number(s) (Continued).

Brand / Variety	Mat.	Gene Resistance	Table	Brand / Variety	Mat.	Gene Resistance	Table
	Grp.		No.(s)		Grp.		No.(s)
PRAIRIE BR./PB-2643RR	II	Rps1k	7	THUNDER/2608NRR	0	Rps1k	1
RENK/RS095RR	0	Rps1k	1	THUNDER/708RR	0	Rps1k	1
RENK/RS115RR	I	Rps1k	2	THUNDER/EXP709RR	0	Rps1k	1
RENK/RS124NRR	I	Rps1c	2,4	WENSMAN/W 2062RR	0	Not Reported	1
RENK/RS159RR	I	Rps1c	2,4	WENSMAN/W 2082RR	0	Rps1k	1
RENK/RS165RR	I	Rps1k	2,4	WENSMAN/W 2090RR	0	Not Reported	1
RENK/RS185RR	I	Not Reported	4	WENSMAN/W 2103RR	0	Rps1k	1
RENK/RS199RR	I	Rps1k	4	WENSMAN/W 2121RR	I	Rps1c	2
RENK/RS223RR	II	Rps1k	5	WENSMAN/W 2142RR	I	Rps1k	2,4
RENK/RS253RR	II	Not Reported	7	WENSMAN/W 2150RR	I	Rps1k	2,4
RENK/RS265RR	II	Rps1c	7	WENSMAN/W 2163RR	I	Rps1 (Rps1a)	4
SANDS/EXP 2669RR	II	Rps1c	7	WENSMAN/W 2170RR	I	Rps1k	4
SANDS/SOI 2143RR	II	Rps1k	7	WENSMAN/W 2195NRR	I	Rps1k	4
SANDS/SOI 2151NRR	II	Rps1k	7	WENSMAN/W 2211RR	II	Rps1k	5
SANDS/SOI 2169RR	II	Rps1 (Rps1a)	7	WENSMAN/W 2253RR	II	Rps1c	5
SANDS/SOI 2448RR	II	Rps1k	7	ZILLER/BT 7115R	I	rps - None	2
SANDS/SOI 2467NRR	II	Rps1c	7	ZILLER/BT 7145R	I	Rps1 (Rps1a)	2,4
SANDS/SOI 2673RR	II	Rps1c	7	ZILLER/BT 7160R	I	Rps1k	2,4
SANDS/SOI 2754RR	II	Rps1k	7	ZILLER/BT 7215R	II	Rps1k	5,7
SANDS/SOI 2872RR	II	Rps1c	7	ZILLER/BT 7236R	II	Rps1k	7
SANDS/SOI 2884RR	II	Rps1k	7				
SEEDS 2000/2090RR	0	Not Reported	1	PUBLIC EXPERIMENTALS:			
SEEDS 2000/2130RR	I	Rps1k	2	EXP/SD01-1135R	II	Rps1c	7
SODAK GEN./1091RR	0	Rps1 (Rps1a)	1,3	EXP/SD01-1587R	I	Not Reported	4,6
SODAK GEN./1092RR	0	Rps1k	1,3	EXP/SD01-2509R	II	Rps1c	5
SODAK GEN./1151RR	I	Rps1k	2,4,6	EXP/SD01-3025R	II	Not Reported	7
STINE/0708-4	0	rps - None	1	EXP/SD01-3219R	I	Rps1k	2,4,6
STINE/0916-4	0	rps - None	1	EXP/SD01-3382R	I	Not Reported	2
STINE/0943-4	0	Rps1k	1,3	EXP/SD01-3387R	II	Not Reported	7
STINE/1300-4	I	Rps1k	2,4	EXP/SD01-3402R	I	Not Reported	2
STINE/1636-4	I	Rps1k	4	EXP/SD01-3477R	I	Rps1 (Rps1a)	4
STINE/1683-4	I	Rps1k	2,4	EXP/SD02R-1017	I	Not Reported	2
STINE/1918-4	I	rps - None	2,4,6	EXP/SD1091RR-4	I	Rps1k	2,4,6
STINE/2116-4	II	Rps1k	7	EXP/SD93-828R	I	Rps1k, Rps6	2,4,6
STINE/2402-4	II	rps - None	7	EXP/SD96-170RR-28L	I	Rps1 (Rps1a)	2,4,6
STINE/2688-4	II	rps - None	7	EXP/SDX00-011R-14	I	Not Reported	2
STINE/2743-4	II	Rps1k	7	EXP/SDX00R-017-52	I	Rps1k	2
THOMPSON/T-0889+RR	0	rps - None	1	EXP/SDX00R-020-41	I	Not Reported	2
THOMPSON/T-1777RR	I	Rps1k	2,4	EXP/SDX00R-026-42N	I	Rps1 (Rps1a)	2,4,6
THOMPSON/T-2100RR	II	rps - None	7	EXP/SDX00R-030-13	I	Not Reported	2
THOMPSON/T-2919RR/SCN	II	rps - None	7	EXP/SDX00R-035-24	0	Not Reported	3
THOMPSON/T-3100RR	II	Rps1k	7	EXP/SDX00R-035-39	I	Rps1 (Rps1a)	2,4,6
THOMPSON/T-3101RR	II	Rps1c	7	EXP/SDX00R-035-56	II	Rps1 (Rps1a)	7
THOMPSON/T-7193RR/SCN	I	Rps1k	2,4	EXP/SDX00R-039-42	II	Rps1k	5,7
THOMPSON/T-7205+RR	I	Rps1k	6	EXP/SDX00R-046-28	II	Not Reported	7
THOMPSON/T-7206RR	II	Rps1k	7	EXP/SDX02R-584	II	Not Reported	7
THOMPSON/T-7214RR	I	rps - None	4,6	EXP/SD00-1251R	0	Rps1k	1,3
THOMPSON/T-7234RR	I	Rps1k	2,4				
THUNDER/2512RR	I	Not Reported	2				
THUNDER/2513NRR	I	Not Reported	2				

Note: Strain or race resistance by gene type is reported in table B.

Table 1a. Roundup Ready™ maturity group-0 soybean variety yield averages- northern South Dakota locations, 2004-05.

Brand/Variety (By 2-yr then 2005 zone yield)	DTM*	Northern Averages by Location				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
WENSMAN/W 2103RR	112	53	48	53	51	53	50
KRUGER/K-098RR	112	50	46	55	52	53	49
MUSTANG/M-075RR	111	54	47	52	49	53	48
MUSTANG/M-095RR	113	51	47	50	49	51	48
DYNA-GRO/37A10	112	48	44	53	52	51	48
NORTHSTAR/NS 0954RR	112	47	46	52	49	50	48
MUSTANG/M-094RR	112	53	49	45	46	49	48
GOLD COUNTRY/2509RR	112	48	45	50	50	49	48
NUTECH/NT-0999RR	112	45	45	50	51	48	48
NUTECH/NT-0889RR	112	48	45	52	49	50	47
SEEDS 2000/2090RR	112	50	45	49	49	50	47
PRAIRIE BR./PB-0923RR	112	47	43	51	51	49	47
THOMPSON/T-0889+RR	112	47	45	51	49	49	47
PRAIRIE BR./PB-0954RR	112	46	45	47	49	47	47
WENSMAN/W 2090RR	112	49	42	51	50	50	46
MUSTANG/M-055RR	111	46	42	52	48	49	45
WENSMAN/W 2062RR	109	49	43	49	47	49	45
NORTHSTAR/NS 0517RR	108	47	43	48	46	48	45
SODAK GEN./1092RR	112	45	41	48	47	47	44
SODAK GEN./1091RR	112	43	41	45	45	44	43
PRAIRIE BR./PB-0725RR	109	54	.	54	.	54	.
NUTECH/NT-0886RR	112	53	.	51	.	52	.
INTEGRA/PSI 96090RR	113	51	.	53	.	52	.
FARM ADVANTAGE/FA 7063	108	51	.	51	.	51	.
HEFTY/095R	112	51	.	51	.	51	.
INTEGRA/PSI 95090RR	113	50	.	52	.	51	.
NUTECH/NT-0939RR	113	49	.	50	.	50	.
NUTECH/NT-0999+RR	112	50	.	49	.	50	.
HEFTY/094R	112	49	.	51	.	50	.
KRUGER/EXP080RR	112	50	.	50	.	50	.
DAIRYLAND/DSR-0701/RR	110	49	.	50	.	50	.
STINE/0943-4	112	48	.	52	.	50	.
MUSTANG/M-066RR	109	49	.	49	.	49	.
MUSTANG/M-096RR	111	49	.	49	.	49	.
NUTECH/NT-1212RR/SCN	114	46	.	52	.	49	.
KRUGER/K-056RR	110	47	.	50	.	49	.
PRAIRIE BR./PB-0965RR	113	48	.	50	.	49	.
NORTHSTAR/NS 0910RR	112	48	.	49	.	49	.
NORTHSTAR/NS 0920RR	112	49	.	47	.	48	.
EXPERIMENTAL/SD00-1251R	113	46	41	49	.	48	.
DEKALB/DKB08-51	109	45	.	48	.	47	.
DAIRYLAND/DSR-050/RR	112	47	.	47	47	47	.
DAIRYLAND/DST09002RRSTS	112	46	.	46	.	46	.
WENSMAN/W 2082RR	112	46	.	43	.	45	.
THUNDER/2608NRR	106	.	.	48	.	.	.

Table 1a. Roundup Ready™ maturity group-0 soybean variety yield averages- northern South Dakota locations, 2004-05 (continued).

Brand/Variety (By 2-yr then 2005 zone yield)	DTM*	----- Northern Locations ----- 2004-05 Yield Averages				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
THUNDER/708RR	109	.	.	50	.	.	.
THUNDER/EXP709RR	109	.	.	55	.	.	.
STINE/0708-4	116	52	.	.	.	.	.
STINE/0916-4	108	.	.	50	.	.	.
RENK/RS095RR	114	51	.	.	.	.	.
Test avg. :	111	49	44	50	49	49	47
High avg. :	116	54	49	55	52	54	50
Low avg. :	106	43	41	43	45	44	43
# Lsd (.05):		4	5	5	5	3	2
## TPG-avg. :		50	44	50	47	51	48
@ Coef. Var.:		4	7	6	6	5	6
No. Entries:		46	21	48	21		

* DTM = average days from seeding (South Shore- May 20, Warner- June 1, 2005) to maturity.

Lsd, (.05) = amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var. = a measure of trial experimental error, 15% or less is best.

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Table 1b. Roundup Ready™ maturity group-0 soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2005.

Brand/Variety (By 2005 zone protein)	DTM*	Northern Averages by Location						Northern Zone Averages		
		South Shore			Warner			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
EXPERIMENTAL/SD00-1251R	113	39.0	16.7	1	36.3	18.1	1	37.7	17.4	1
SODAK GEN./1091RR	112	38.3	17.1	1	36.0	18.4	1	37.2	17.8	1
NORTHSTAR/NS 0954RR	112	38.1	16.6	1	36.0	18.2	1	37.1	17.4	1
INTEGRA/PSI 95090RR	113	38.4	16.8	1	35.6	18.0	1	37.0	17.4	1
NUTECH/NT-0886RR	112	38.1	17.3	1	35.2	18.5	1	36.7	17.9	1
SEEDS 2000/2090RR	112	38.5	16.3	1	34.8	18.2	1	36.7	17.3	1
KRUGER/K-098RR	112	37.9	17.0	1	35.2	18.2	1	36.6	17.6	1
NORTHSTAR/NS 0920RR	112	38.7	16.1	1	34.3	18.3	1	36.5	17.2	1
INTEGRA/PSI 96090RR	113	37.9	17.3	2	34.9	18.4	1	36.4	17.9	2
PRAIRIE BR./PB-0923RR	112	38.0	17.1	1	34.8	18.7	1	36.4	17.9	1
DYNA-GRO/37A10	112	37.9	16.6	1	34.9	18.5	1	36.4	17.6	1
SODAK GEN./1092RR	112	38.1	17.4	1	34.6	18.8	1	36.4	18.1	1
STINE/0943-4	112	37.9	16.4	1	34.8	18.6	1	36.4	17.5	1
WENSMAN/W 2062RR	109	37.4	17.3	1	35.3	18.6	1	36.4	18.0	1
NUTECH/NT-0999RR	112	38.2	16.9	1	34.4	18.8	1	36.3	17.9	1
WENSMAN/W 2090RR	112	37.3	17.2	1	35.3	18.1	1	36.3	17.7	1
NORTHSTAR/NS 0910RR	112	37.6	16.8	1	35.0	18.3	1	36.3	17.6	1
GOLD COUNTRY/2509RR	112	37.8	17.1	1	34.7	18.6	1	36.3	17.9	1
WENSMAN/W 2103RR	112	37.4	17.4	1	35.1	18.5	1	36.3	18.0	1
WENSMAN/W 2082RR	112	37.2	17.3	1	35.3	18.4	1	36.3	17.9	1
NORTHSTAR/NS 0517RR	108	37.1	17.6	1	35.1	18.7	1	36.1	18.2	1
THOMPSON/T-0889+RR	112	37.2	16.9	1	34.9	18.3	1	36.1	17.6	1
NUTECH/NT-0889RR	112	37.1	17.2	1	34.9	18.4	1	36.0	17.8	1
HEFTY/094R	112	37.5	17.1	1	34.5	18.5	1	36.0	17.8	1
KRUGER/EXP080RR	112	37.5	17.0	1	34.5	18.3	1	36.0	17.7	1
PRAIRIE BR./PB-0954RR	112	37.4	17.0	1	34.6	18.5	1	36.0	17.8	1
MUSTANG/M-095RR	113	37.2	17.3	1	34.7	18.4	1	36.0	17.9	1
PRAIRIE BR./PB-0965RR	113	37.2	17.0	1	34.6	18.6	1	35.9	17.8	1
MUSTANG/M-094RR	112	38.0	16.6	1	33.8	18.7	1	35.9	17.7	1
MUSTANG/M-055RR	111	37.2	17.0	1	34.3	18.6	1	35.8	17.8	1
MUSTANG/M-075RR	111	37.2	17.3	1	34.3	18.7	1	35.8	18.0	1
MUSTANG/M-096RR	111	37.3	17.4	1	34.0	18.8	1	35.7	18.1	1
NUTECH/NT-0939RR	113	36.5	17.2	1	34.7	18.4	1	35.6	17.8	1
DAIRYLAND/DSR-050/RR	112	37.3	17.1	1	33.9	18.8	1	35.6	18.0	1
NUTECH/NT-0999+RR	112	36.8	17.6	2	34.0	19.1	1	35.4	18.4	1
HEFTY/095R	112	36.1	16.9	1	34.4	17.6	1	35.3	17.3	1
DAIRYLAND/DSR-0701/RR	110	36.2	17.5	1	34.2	18.6	1	35.2	18.1	1
DEKALB/DKB08-51	109	36.0	17.8	1	33.6	18.3	1	34.8	18.1	1
DAIRYLAND/DST09002RRSTS	112	35.8	18.0	2	33.8	19.1	1	34.8	18.6	2
KRUGER/K-056RR	110	35.5	18.2	1	33.0	19.3	1	34.3	18.8	1
PRAIRIE BR./PB-0725RR	109	35.6	17.5	1	32.7	18.2	1	34.2	17.9	1
MUSTANG/M-066RR	109	35.3	18.3	1	32.7	19.4	1	34.0	18.9	1
FARM ADVANTAGE/FA 7063	108	35.8	17.1	1	32.1	18.2	1	34.0	17.7	1
NUTECH/NT-1212RR/SCN	114	35.2	17.5	2	32.2	18.7	1	33.7	18.1	1
THUNDER/2608NRR	106	.	.	.	34.4	18.4	1	.	.	.

Table 1b. Roundup Ready™ maturity group-0 soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2005 (continued).

Brand/Variety (By 2005 zone protein)	DTM*	Northern Averages by Location						Northern Zone Averages		
		South Shore			Warner			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
THUNDER/708RR	109	.	.	.	34.2	18.4	1	.	.	.
THUNDER/EXP709RR	109	.	.	.	34.9	18.4	1	.	.	.
STINE/0708-4	116	36.9	17.7	1	.	.	.	.	.	.
STINE/0916-4	108	.	.	.	34.3	18.7	1	.	.	.
RENK/RS095RR	114	36.0	16.9	1	.	.	.	.	.	.
Test avg. :	111	37.2	17.2	1	34.5	18.5	1	35.9	17.8	1
High avg. :	116	39.0	18.3	2	36.3	19.4	1	37.7	18.9	2
Low avg. :	106	35.2	16.1	1	32.1	17.6	1	33.7	17.2	1
# Lsd(.05) :				1			NS			
## TPG -avg. :				1			1			
@ Coef. Var. :				25			0			
No. Entries :		46	46	46	48	48	48			

* DTM = average days from seeding (South Shore- May 20, Warner- June 1, 2005) to maturity.

** Lodging, 1 = all plants erect, 5= all plants flat.

Lsd, (.05) = amount values in a column must differ to be significantly different, if differences are not significant(NS), NS is indicated.

TPG-avg. = minimum or maximum value to qualify for top performance group.

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Table 2a. Roundup Ready™ maturity group-I soybean variety yield averages- northern South Dakota locations, 2004-05.

Brand/Variety (By 2-yr then 2005 zone yield)	DTM*	Northern Averages by Location				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
NUTECH/NT-1909RR	118	49	48	56	52	53	50
PRAIRIE BR./PB-1914RR	119	49	47	56	53	53	50
NUTECH/NT-2202RR	119	50	47	53	53	52	50
KRUGER/K-192RR	119	49	47	54	53	52	50
STINE/1300-4	115	48	47	55	53	52	50
THOMPSON/T-7234RR	120	50	47	52	52	51	50
WENSMAN/W 2121RR	114	49	45	56	52	53	49
ASGROW/AG1903	119	48	47	53	51	51	49
PRAIRIE BR./PB-1954RR	118	48	46	50	51	49	49
SEEDS 2000/2130RR	116	47	44	54	51	51	48
PRAIRIE BR./PB-1294RR	114	46	44	54	51	50	48
PRAIRIE BR./PB-1754RR	117	48	46	47	50	48	48
THOMPSON/T-7193RR/SCN	117	47	43	52	51	50	47
GOLD COUNTRY/3512RR	114	47	43	50	49	49	46
DAIRYLAND/DSR-1301/RR	115	44	41	53	50	49	46
KRUGER/K-149+RR	115	47	44	48	47	48	46
SODAK GEN./1151RR	114	43	42	49	47	46	45
NUTECH/NT-1404RR	113	52	.	55	.	54	.
NUTECH/NT-1516RR	115	50	.	56	.	53	.
NUTECH/NT-7205+RR	119	50	.	55	.	53	.
WENSMAN/W 2142RR	115	50	.	55	.	53	.
ASGROW/AG1502	113	51	.	52	.	52	.
ASGROW/AG1702	117	51	.	53	.	52	.
AGVENTURE/11T1RR	114	51	.	53	.	52	.
DEKALB/DKB10-52	111	52	.	52	.	52	.
INTEGRA/PSI 96110RR	114	50	.	54	.	52	.
KRUGER/K-100RR	113	51	.	52	.	52	.
KRUGER/EXP102RR	113	50	.	54	.	52	.
GOLD COUNTRY/3615RR	114	48	.	55	.	52	.
PRAIRIE BR./PB-1525RR	113	49	.	54	.	52	.
GOLD COUNTRY/3618RR	117	45	.	57	.	51	.
DAIRYLAND/DST14000RRSTS	115	49	.	53	.	51	.
DYNA-GRO/EXP SX05514	115	48	.	53	.	51	.
KRUGER/K-122RR	112	47	.	52	.	50	.
LATHAM/EXP-E1330R	114	47	44	53	.	50	.
LATHAM/EXP-E1756R	116	46	.	54	.	50	.
DYNA-GRO/EXP SX05611	112	48	.	52	.	50	.
EXPERIMENTAL/SDX00R-035-39	113	47	.	53	.	50	.
EXPERIMENTAL/SD1091RR-4	113	47	.	52	.	50	.
FARM ADVANTAGE/FA 7103	114	45	.	52	.	49	.
DEKALB/DKB18-51	117	47	.	51	.	49	.
NUTECH/NT-1555RR	114	48	.	49	.	49	.
NUTECH/NT-2100RR	120	44	.	53	.	49	.
DYNA-GRO/33M14	115	47	.	50	.	49	.
THOMPSON/T-1777RR	116	43	.	55	.	49	.
EXPERIMENTAL/SDX00R-026-42N	116	46	.	51	.	49	.
THUNDER/2512RR	110	47	.	49	.	48	.
NUTECH/NT-1921RR	117	48	.	48	.	48	.
HEFTY/125R	111	46	.	49	.	48	.

Table 2a. Roundup Ready™ maturity group-I soybean variety yield averages- northern South Dakota locations, 2004-05 (continued).

Brand/Variety (By 2-yr then 2005 zone yield)	DTM*	Northern Averages by Location				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
STINE/1683-4	117	46	.	50	.	48	.
DYNA-GRO/35D15	115	45	.	51	.	48	.
NORTHSTAR/NS 1010RR	113	49	.	46	.	48	.
EXPERIMENTAL/SD01-3402R	111	47	.	48	44	48	.
EXPERIMENTAL/SDX00R-017-52	116	45	.	50	.	48	.
EXPERIMENTAL/SD93-828R	113	45	.	51	.	48	.
EXPERIMENTAL/SDX00-011R-14	113	45	.	48	.	47	.
KRUGER/K-156RR	113	47	.	47	.	47	.
DAIRYLAND/DSR-1500/RR	116	43	.	51	.	47	.
DAIRYLAND/DST14-001/RR	115	45	.	48	.	47	.
DYNA-GRO/EXP SX05317	116	42	.	52	.	47	.
NORTHSTAR/NS 1120RR	114	46	.	48	.	47	.
EXPERIMENTAL/SDX00R-030-13	112	46	.	48	.	47	.
NUTECH/NT-2102RR	120	43	.	49	.	46	.
KRUGER/K-177RR	121	44	.	48	.	46	.
LATHAM/EXP-E1635R	115	45	.	47	.	46	.
PRAIRIE BR./PB-1725RR	116	45	.	46	.	46	.
EXPERIMENTAL/SD01-3219R	116	43	.	49	45	46	.
EXPERIMENTAL/SD96-170RR-28L	113	43	.	49	49	46	.
THUNDER/2513NRR	112	44	.	45	.	45	.
DYNA-GRO/EXP SX05816	117	43	.	46	.	45	.
DYNA-GRO/3190RR	121	42	.	48	.	45	.
AGVENTURE/EXPXD15B	117	45	.	42	.	44	.
NUTECH/NT-2202ARR	123	40	.	47	.	44	.
EXPERIMENTAL/SDX00R-020-41	114	42	.	45	.	44	.
EXPERIMENTAL/SD01-3382R	115	42	.	44	.	43	.
EXPERIMENTAL/SD02R-1017	113	42	.	42	.	42	.
AGVENTURE/15T5RR	118	45	.	.	.	.	.
STINE/1918-4	125	51	48	.	.	.	.
ZILLER/BT 7145R	119	48	44	.	.	.	.
ZILLER/BT 7115R	116	45	.	.	.	.	.
ZILLER/BT 7160R	119	46	.	.	.	.	.
WENSMAN/W 2150RR	120	47	.	.	.	.	.
RENK/RS159RR	119	46	.	.	.	.	.
RENK/RS124NRR	119	46	.	.	.	.	.
RENK/RS165RR	120	49	.	.	.	.	.
RENK/RS115RR	118	48	.	.	.	.	.
Test avg. :	116	47	45	51	50	49	48
High avg. :	125	52	48	57	53	54	50
Low avg. :	110	40	41	42	44	42	45
# Lsd (.05) :		4	3	5	5	3	3
## TPG-avg. :		48	45	52	49	51	47
@ Coef. Var. :		6	7	7	6	6	8
No. Entries :		86	20	76	20		

* DTM= days from seeding (South Shore- May 20, Warner- June 1, 2005) to maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 2b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2005.

Brand/Variety (By zone protein)	DTM*	Northern Averages by Location						Northern Zone Averages		
		South Shore			Warner			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
EXPERIMENTAL/SD01-3382R	115	40.6	15.7	2	38.0	16.6	1	39.3	16.2	2
NUTECH/NT-2102RR	120	39.3	16.1	2	36.6	17.7	1	38.0	16.9	2
EXPERIMENTAL/SDX00-011R-14	113	39.1	16.3	1	36.3	18.1	1	37.7	17.2	1
NUTECH/NT-1516RR	115	39.3	16.3	1	36.0	17.6	1	37.7	17.0	1
PRAIRIE BR./PB-1754RR	117	38.9	16.2	1	35.6	17.7	1	37.3	17.0	1
EXPERIMENTAL/SDX00R-020-41	114	38.5	16.7	1	36.0	17.8	1	37.3	17.3	1
EXPERIMENTAL/SDX00R-030-13	112	38.4	16.7	2	35.5	18.3	1	37.0	17.5	1
EXPERIMENTAL/SD1091RR-4	113	38.6	16.9	1	35.1	18.5	1	36.9	17.7	1
DAIRYLAND/DST14000RRSTS	115	38.3	17.2	1	35.4	18.7	1	36.9	18.0	1
NUTECH/NT-2100RR	120	38.0	17.0	2	35.4	18.4	1	36.7	17.7	2
DYNA-GRO/EXP SX05816	117	38.9	16.5	2	34.5	18.9	1	36.7	17.7	2
DAIRYLAND/DSR-1301/RR	115	38.1	16.7	1	35.2	18.0	1	36.7	17.4	1
DAIRYLAND/DSR-1500/RR	116	37.7	16.8	1	35.6	17.8	1	36.7	17.3	1
EXPERIMENTAL/SD01-3402R	111	38.5	17.1	2	34.6	18.7	1	36.6	17.9	1
KRUGER/K-149+RR	115	38.1	16.4	2	34.8	17.9	1	36.5	17.2	2
HEFTY/125R	111	37.6	16.7	1	35.2	18.1	1	36.4	17.4	1
LATHAM/EXP-E1635R	115	38.2	16.4	1	34.5	18.2	1	36.4	17.3	1
DYNA-GRO/35D15	115	38.0	16.5	1	34.4	18.1	1	36.2	17.3	1
THUNDER/2512RR	110	37.3	16.8	1	34.9	17.9	1	36.1	17.4	1
NUTECH/NT-2202RR	119	36.7	17.5	2	35.3	18.8	1	36.0	18.2	1
NORTHSTAR/NS 1010RR	113	38.3	17.2	1	33.7	19.0	1	36.0	18.1	1
THOMPSON/T-7234RR	120	36.9	17.4	2	35.0	18.2	1	36.0	17.8	1
KRUGER/K-156RR	113	37.2	16.8	1	34.6	18.2	1	35.9	17.5	1
DYNA-GRO/EXP SX05514	115	37.7	16.8	1	34.1	18.3	1	35.9	17.6	1
SODAK GEN./1151RR	114	37.0	17.1	2	34.8	18.2	2	35.9	17.7	2
PRAIRIE BR./PB-1914RR	119	36.7	17.4	1	35.0	19.5	1	35.9	18.5	1
NUTECH/NT-1909RR	118	36.2	17.6	1	35.1	19.1	1	35.7	18.4	1
NUTECH/NT-1404RR	113	37.2	17.0	1	34.1	18.2	1	35.7	17.6	1
DYNA-GRO/3190RR	121	36.9	16.9	1	34.4	19.1	1	35.7	18.0	1
EXPERIMENTAL/SD02R-1017	113	36.8	17.8	1	34.5	18.8	1	35.7	18.3	1
KRUGER/EXP102RR	113	37.1	17.2	1	34.0	18.8	1	35.6	18.0	1
NUTECH/NT-2202ARR	123	35.9	18.3	2	35.1	19.4	1	35.5	18.9	2
DAIRYLAND/DST14-001/RR	115	36.5	17.0	2	34.5	17.9	1	35.5	17.5	1
THOMPSON/T-1777RR	116	36.7	16.9	1	34.3	18.2	1	35.5	17.6	1
DYNA-GRO/EXP SX05611	112	37.0	17.1	1	33.8	18.6	1	35.4	17.9	1
ASGROW/AG1702	117	36.6	17.4	2	34.0	18.4	1	35.3	17.9	1
NUTECH/NT-7205+RR	119	36.5	17.3	1	34.1	18.9	1	35.3	18.1	1
KRUGER/K-100RR	113	36.9	17.7	1	33.7	19.0	1	35.3	18.4	1
EXPERIMENTAL/SDX00R-026-42N	116	36.7	16.7	2	33.8	18.2	1	35.3	17.5	1
AGVENTURE/11T1RR	114	37.0	17.2	1	33.4	19.1	1	35.2	18.2	1
KRUGER/K-192RR	119	36.4	17.7	1	34.0	19.2	1	35.2	18.5	1
GOLD COUNTRY/3618RR	117	37.0	16.7	2	33.4	18.5	1	35.2	17.6	2
EXPERIMENTAL/SD93-828R	113	37.0	17.0	1	33.4	18.7	1	35.2	17.9	1
DEKALB/DKB10-52	111	35.7	16.7	1	34.6	17.2	1	35.2	17.0	1
INTEGRA/PSI 96110RR	114	36.9	17.8	1	33.4	19.1	1	35.2	18.5	1
KRUGER/K-122RR	112	36.5	17.4	1	33.8	18.5	1	35.2	18.0	1
LATHAM/EXP-E1756R	116	36.7	17.0	2	33.4	18.5	1	35.1	17.8	1
DYNA-GRO/33M14	115	36.4	17.5	1	33.7	18.4	1	35.1	18.0	1
ASGROW/AG1903	119	36.5	16.9	1	33.5	18.6	1	35.0	17.8	1

Table 2b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2005 (continued).

Brand/Variety (By zone protein)	DTM*	Northern Averages by Location						Northern Zone Averages		
		South Shore			Warner			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
KRUGER/K-177RR	121	37.1	17.2	2	32.9	19.2	1	35.0	18.2	1
NUTECH/NT-1921RR	117	36.5	17.4	2	33.4	18.8	1	35.0	18.1	1
STINE/1300-4	115	37.0	17.4	1	32.9	19.1	1	35.0	18.3	1
DYNA-GRO/EXP SX05317	116	36.2	17.1	1	33.7	18.5	1	35.0	17.8	1
EXPERIMENTAL/SD96-170RR-28L	113	36.9	17.0	1	32.8	19.0	1	34.8	18.0	1
GOLD COUNTRY/3615RR	114	36.5	17.7	1	33.1	19.1	1	34.8	18.4	1
PRAIRIE BR./PB-1525RR	113	36.2	17.6	1	33.4	19.0	1	34.8	18.3	1
WENSMAN/W 2142RR	115	36.1	17.6	1	33.5	18.8	1	34.8	18.2	1
AGVENTURE/EXPXD15B	117	36.2	17.8	1	33.3	19.2	1	34.8	18.5	1
STINE/1683-4	117	36.0	17.4	1	33.5	18.5	1	34.8	18.0	1
EXPERIMENTAL/SD01-3219R	116	36.1	17.1	2	33.4	18.5	1	34.8	17.8	1
DEKALB/DKB18-51	117	35.9	17.3	1	33.5	18.3	1	34.7	17.8	1
PRAIRIE BR./PB-1725RR	116	36.2	17.3	1	33.2	18.6	1	34.7	18.0	1
ASGROW/AG1502	113	36.4	17.7	1	32.8	19.4	1	34.6	18.6	1
PRAIRIE BR./PB-1954RR	118	35.6	17.8	1	33.5	18.6	1	34.6	18.2	1
SEEDS 2000/2130RR	116	36.7	17.0	1	32.4	19.0	1	34.6	18.0	1
THUNDER/2513NRR	112	35.7	17.8	1	33.2	18.9	1	34.5	18.4	1
NORTHSTAR/NS 1120RR	114	36.4	17.7	1	32.5	19.2	1	34.5	18.5	1
EXPERIMENTAL/SDX00R-017-52	116	36.5	18.2	2	32.4	19.4	1	34.5	18.8	2
NUTECH/NT-1555RR	114	36.3	17.9	1	32.5	19.3	1	34.4	18.6	1
THOMPSON/T-7193RR/SCN	117	36.0	18.1	1	32.7	19.9	1	34.4	19.0	1
EXPERIMENTAL/SDX00R-035-39	113	34.5	18.5	1	32.9	19.1	1	33.7	18.8	1
LATHAM/EXP-E1330R	114	35.1	17.3	2	32.0	18.7	1	33.6	18.0	1
WENSMAN/W 2121RR	114	34.4	17.5	1	32.3	18.6	1	33.3	18.1	1
GOLD COUNTRY/3512RR	114	34.7	17.6	1	31.9	18.6	1	33.3	18.1	1
PRAIRIE BR./PB-1294RR	114	34.2	17.5	1	32.2	18.6	1	33.2	18.1	1
FARM ADVANTAGE/FA 7103	114	34.3	17.4	1	31.7	18.8	1	33.0	18.1	1
AGVENTURE/15T5RR	118	37.9	16.7	2	.	.	.	.	.	.
STINE/1918-4	125	36.9	17.7	1	.	.	.	.	.	.
ZILLER/BT 7145R	119	36.9	17.5	1	.	.	.	.	.	.
ZILLER/BT 7115R	116	35.1	17.4	1	.	.	.	.	.	.
ZILLER/BT 7160R	119	36.7	17.1	1	.	.	.	.	.	.
WENSMAN/W 2150RR	120	37.0	17.3	1	.	.	.	.	.	.
RENK/RS159RR	119	34.9	17.4	1	.	.	.	.	.	.
RENK/RS124NRR	119	35.2	17.5	2	.	.	.	.	.	.
RENK/RS165RR	120	37.9	17.0	1	.	.	.	.	.	.
RENK/RS115RR	118	36.5	18.2	1	.	.	.	.	.	.
Test avg. :	116	36.9	17.2	1	34.0	18.6	1	35.5	17.9	1
High avg. :	125	40.6	18.5	2	38.0	19.9	2	39.3	19.0	2
Low avg. :	110	34.2	15.7	1	31.7	16.6	1	33.0	16.2	1
# Lsd(.05) :				1			1			
## TPG-avg. :				1			1			
@ Coef.Var. :				32			11			
No. Entries :		86	86	86	76	76	76			

* DTM= days from seeding (South Shore- May 20, Warner- June 1, 2005) to maturity.

** Lodging, 1= all plants erect, 5= all plants flat.

Lsd(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum or maximum value to qualify for top performance group.

Table 3a. Roundup Ready™ maturity group-0 soybean variety yield averages- central South Dakota locations, 2004-2005.

Brand/Variety (By 2005 zone yield)	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
PRAIRIE BR./PB-0923RR	114	68	.	68	.	68	.
MUSTANG/M-096RR	115	67	.	66	.	67	.
NUTECH/NT-0999+RR	115	69	.	65	.	67	.
NUTECH/NT-0999RR	115	65	58	67	.	66	.
MUSTANG/M-095RR	114	67	57	62	.	65	.
KRUGER/K-098RR	114	64	56	65	.	65	.
NORTHSTAR/NS 0954RR	113	65	58	65	.	65	.
EXPERIMENTAL/SDX00R-035-24	114	63	55	66	.	65	.
MUSTANG/M-094RR	114	65	58	63	.	64	.
NUTECH/NT-1212RR/SCN	118	63	.	64	.	64	.
INTEGRA/PSI 95090RR	114	64	.	63	.	64	.
PRAIRIE BR./PB-0954RR	115	65	.	61	.	63	.
SODAK GEN./1091RR	113	62	52	64	.	63	.
NUTECH/NT-0939RR	114	64	.	60	.	62	.
DAIRYLAND/DSR-0701/RR	110	62	.	62	.	62	.
SODAK GEN./1092RR	113	60	52	63	.	62	.
KRUGER/EXP080RR	113	64	.	55	.	60	.
EXPERIMENTAL/SD00-1251R	113	58	49	57	.	58	.
DEKALB/DKB08-51	112	60	.	.	.	.	.
INTEGRA/PSI 96090RR	117	67	.	.	.	.	.
STINE/0943-4	113	.	.	65	.	.	.
DYNA-GRO/37A10	117	66	58	.	.	.	.
Test avg.:	114	64	55	63	.	64	.
High avg. :	118	69	58	68	.	68	.
Low avg. :	110	58	49	55	.	58	.
# Lsd (.05):		4		45		3	
## TPG-avg. :		65	54	63		65	
@ Coef. Var.:		4	4	5		5	
No. Entries:		21	10	19	0		

* DTM= average days from seeding (Brookings- May 25, Bancroft- May 27, 2005) to maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 3b. Roundup Ready™ maturity group-0 soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2005.

Brand/Variety (By 2005 zone protein)	DTM*	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
SODAK GEN./1092RR	113	38.4	17.3	3	35.5	17.6	1	37.0	17.5	2
EXPERIMENTAL/SD00-1251R	113	37.6	16.8	3	36.3	17.4	2	37.0	17.1	2
SODAK GEN./1091RR	113	37.3	17.2	2	36.2	17.6	2	36.8	17.4	2
PRAIRIE BR./PB-0954RR	115	37.0	17.5	2	34.9	17.4	3	36.0	17.5	3
MUSTANG/M-094RR	114	36.2	16.8	1	35.6	17.0	1	35.9	16.9	1
INTEGRA/PSI 95090RR	114	36.0	16.9	1	35.8	17.0	1	35.9	17.0	1
MUSTANG/M-095RR	114	36.8	17.2	2	34.8	17.6	2	35.8	17.4	2
KRUGER/K-098RR	114	36.6	17.2	2	35.0	17.4	3	35.8	17.3	3
KRUGER/EXP080RR	113	36.0	17.0	1	35.6	17.0	1	35.8	17.0	1
NORTHSTAR/NS 0954RR	113	36.1	16.9	1	35.4	17.0	1	35.8	17.0	1
NUTECH/NT-0999RR	115	36.4	17.6	1	34.7	17.3	1	35.6	17.5	1
PRAIRIE BR./PB-0923RR	114	35.9	17.0	1	35.2	17.6	1	35.6	17.3	1
NUTECH/NT-0939RR	114	35.9	16.9	2	35.0	17.5	1	35.5	17.2	1
DAIRYLAND/DSR-0701/RR	110	36.5	17.5	2	34.2	17.6	1	35.4	17.6	1
NUTECH/NT-0999+RR	115	35.7	17.6	3	34.1	17.8	1	34.9	17.7	2
MUSTANG/M-096RR	115	35.3	17.4	3	34.5	17.9	2	34.9	17.7	2
EXPERIMENTAL/SDX00R-035-24	114	34.2	17.3	2	33.7	17.7	1	34.0	17.5	2
NUTECH/NT-1212RR/SCN	118	33.5	17.8	3	31.7	18.1	3	32.6	18.0	3
DEKALB/DKB08-51	112	34.9	17.6	2	.	.	.	.	.	.
INTEGRA/PSI 96090RR	117	36.6	17.1	2	.	.	.	.	.	.
STINE/0943-4	113	.	.	.	34.3	17.6	1	.	.	.
DYNA-GRO/37A10	117	35.7	17.7	1	.	.	.	.	.	.
Test avg. :	114	36.1	17.3	2	34.9	17.5	1	35.5	17.3	2
High avg. :	118	38.4	17.8	3	36.3	18.1	3	37.0	18.0	3
High avg. :	110	33.5	16.8	1	31.7	17.0	1	32.6	16.9	1
* Lsd(.05) :				1			1			
## TPG-avg. :				1			1			
### Coef.Var. :				28			31			
No. Entries :		21	21	21	19	19	19			

* DTM= average days from seeding (Brookings- May 25, Bancroft- May 27, 2005) to maturity.

** Lodging, 1= all plants erect, 5= all plants flat.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum or maximum value to qualify for top performance group.

Table 4a. Roundup Ready™ maturity group-I soybean variety yield averages- central South Dakota locations, 2004-2005.

Brand/Variety (By 2005 zone yield)	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
NUTECH/NT-7205+RR	124	70	.	73	.	72	.
KRUGER/K-195+RR/SCN	119	73	.	68	.	71	.
NUTECH/NT-2202RR	126	68	57	71	.	70	.
NUTECH/NT-2102RR	125	69	.	70	.	70	.
STINE/1918-4	124	69	58	71	.	70	.
WENSMAN/W 2195NRR	120	72	.	67	.	70	.
THOMPSON/T-7193RR/SCN	122	71	60	69	.	70	.
ASGROW/AG1903	123	69	58	68	.	69	.
ASGROW/AG1702	117	69	.	68	.	69	.
NUTECH/NT-1909RR	125	68	57	69	.	69	.
NUTECH/NT-2100RR	124	70	.	67	.	69	.
HEFTY/175R	119	70	.	67	.	69	.
PRAIRIE BR./PB-1754RR	118	70	60	68	.	69	.
THOMPSON/T-7234RR	126	67	57	70	.	69	.
MUSTANG/M-176RR	119	68	.	67	.	68	.
DEKALB/DKB18-51	119	68	.	67	.	68	.
HEFTY/195R	126	68	.	67	.	68	.
KRUGER/K-192RR	125	66	58	69	.	68	.
KRUGER/K-177RR	124	67	.	69	.	68	.
PRAIRIE BR./PB-1914RR	125	66	58	70	.	68	.
NORTHSTAR/NS 1310RR	114	72	.	64	.	68	.
MUSTANG/M-136RR	115	66	.	68	.	67	.
MUSTANG/M-156RR	116	68	.	66	.	67	.
FARM ADVANTAGE/FA 7192	125	67	58	66	.	67	.
NUTECH/NT-1555RR	115	68	.	65	.	67	.
LATHAM/EXP-E1936R	123	65	58	69	.	67	.
LATHAM/EXP-E1935R	123	67	.	66	.	67	.
GOLD COUNTRY/3618RR	123	68	.	65	.	67	.
GOLD COUNTRY/1619RR	122	68	.	65	.	67	.
PRAIRIE BR./PB-1954RR	124	68	59	66	.	67	.
PRAIRIE BR./PB-1525RR	116	68	.	65	.	67	.
WENSMAN/W 2150RR	117	71	.	63	.	67	.
FARM ADVANTAGE/FA 7173	121	66	.	66	.	66	.
NUTECH/NT-1516RR	115	66	.	65	.	66	.
NUTECH/NT-1921RR	124	65	.	67	.	66	.
INTEGRA/PSI 96110RR	115	68	.	63	.	66	.
KRUGER/K-100RR	114	67	.	64	.	66	.
DAIRYLAND/DSR-1900/RR	124	66	.	65	.	66	.
PRAIRIE BR./PB-1725RR	120	67	.	65	.	66	.
WENSMAN/W 2163RR	118	65	57	67	.	66	.
WENSMAN/W 2170RR	119	67	.	65	.	66	.
THOMPSON/T-1777RR	122	66	.	66	.	66	.
MUSTANG/M-115RR	117	65	56	64	.	65	.
NUTECH/NT-1404RR	115	66	.	64	.	65	.
NUTECH/NT-2202ARR	128	67	.	62	.	65	.
INTEGRA/PSI 96100RR	114	65	.	65	.	65	.
KRUGER/EXP102RR	115	65	.	64	.	65	.
KRUGER/K-156RR	116	67	.	63	.	65	.

Table 4a. Roundup Ready™ maturity group-I soybean variety yield averages- central South Dakota locations, 2004-2005 (continued).

Brand/Variety (By 2005 zone yield)	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
KRUGER/EXP150RR	116	66	.	63	.	65	.
DAIRYLAND/DSR-1301/RR	118	66	56	63	.	65	.
PRAIRIE BR./PB-1294RR	117	64	53	65	.	65	.
WENSMAN/W 2142RR	115	68	.	61	.	65	.
NORTHSTAR/NS 1120RR	115	66	.	63	.	65	.
INTEGRA/PSI 95160RR	117	61	.	66	.	64	.
KRUGER/K-149+RR	117	67	.	61	.	64	.
DAIRYLAND/DSR-199/RR	121	65	55	62	.	64	.
ASGROW/AG1502	114	66	.	59	.	63	.
KRUGER/K-122RR	115	65	.	60	.	63	.
KRUGER/EXP180RR	121	64	.	62	.	63	.
EXPERIMENTAL/SDX00R-026-42N	120	64	.	62	.	63	.
DAIRYLAND/DSR-1500/RR	118	63	.	60	.	62	.
NORTHSTAR/NS 1409RR	116	64	55	60	.	62	.
EXPERIMENTAL/SD1091RR-4	114	62	.	62	.	62	.
MUSTANG/M-155RR	116	65	54	57	.	61	.
EXPERIMENTAL/SD96-170RR-28L	114	63	55	59	.	61	.
AGVENTURE/15T5RR	116	61	.	58	.	60	.
EXPERIMENTAL/SDX00R-035-39	114	60	.	60	.	60	.
EXPERIMENTAL/SD01-3219R	117	61	.	58	.	60	.
EXPERIMENTAL/SD01-1587R	115	59	.	60	.	60	.
DAIRYLAND/DST14-001/RR	118	60	.	57	.	59	.
EXPERIMENTAL/SD01-3477R	119	61	.	56	.	59	.
EXPERIMENTAL/SD93-828R	114	58	.	58	.	58	.
SODAK GEN./1151RR	116	60	52	50	.	55	.
COYOTE/4719RR	128	66	58	.	.	.	.
AGVENTURE/11T1RR	117	65	.	.	.	.	.
AGVENTURE/17T6RR	116	.	.	60	.	.	.
DEKALB/DKB10-52	116	64	.	.	.	.	.
KALTENBERG/KB135RR	118	69	.	.	.	.	.
KALTENBERG/KB155RR	119	68	.	.	.	.	.
STINE/1300-4	113	.	.	65	.	.	.
STINE/1636-4	120	62	.	.	.	.	.
STINE/1683-4	114	.	.	66	.	.	.
DYNA-GRO/33M14	116	65	.	.	.	.	.
DYNA-GRO/35D15	119	61	.	.	.	.	.
DYNA-GRO/EXP SX05611	117	66	.	.	.	.	.
DYNA-GRO/EXP SX05514	117	63	.	.	.	.	.
DYNA-GRO/EXP SX05816	121	64	.	.	.	.	.
DYNA-GRO/EXP SX05317	120	65	.	.	.	.	.
DYNA-GRO/3190RR	127	67	.	.	.	.	.
ZILLER/BT 7145R	116	67	57	.	.	.	.
ZILLER/BT 7160R	120	61	.	.	.	.	.
THOMPSON/T-7214RR	128	69	59	.	.	.	.
RENK/RS159RR	119	63	52	.	.	.	.

Table 4a. Roundup Ready™ maturity group-I soybean variety yield averages- central South Dakota locations, 2004-2005 (continued).

Brand/Variety (By 2005 zone yield)	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
RENK/RS199RR	119	64	53	.	.	.	.
RENK/RS124NRR	118	66	.	.	.	.	.
RENK/RS165RR	119	68	.	.	.	.	.
RENK/RS185RR	126	69	.	.	.	.	.
Test avg. :	119	66	57	64	.	66	.
High avg. :	128	73	60	73	.	72	.
Low avg. :	113	58	52	50	.	55	.
# Lsd (.05) :		4	3	4		3	
## TPG-avg. :		69	57	69		69	
### Coef.Var. :		4	4	4		4	
No. Entries :		94	26	76			

* DTM= average days from seeding (Brookings- June 3, Bancroft- May 27, 2005) to maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

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Table 4b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2005.

Brand/Variety (By 2005 zone protein)	DTM*	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
EXPERIMENTAL/SD01-1587R	115	37.1	17.4	3	36.4	17.7	3	36.8	17.6	3
DAIRYLAND/DSR-199/RR	121	37.3	16.0	2	36.1	17.1	1	36.7	16.6	2
NUTECH/NT-1516RR	115	36.6	16.3	2	36.4	17.8	1	36.5	17.1	2
EXPERIMENTAL/SD1091RR-4	114	36.4	17.3	2	36.2	17.9	2	36.3	17.6	2
DAIRYLAND/DSR-1500/RR	118	36.7	16.6	2	35.5	17.4	2	36.1	17.0	2
DAIRYLAND/DSR-1900/RR	124	37.0	16.6	3	35.2	17.4	2	36.1	17.0	2
NUTECH/NT-2100RR	124	36.4	17.3	3	35.6	17.7	3	36.0	17.5	3
MUSTANG/M-155RR	116	36.7	17.0	2	35.2	17.6	1	36.0	17.3	2
KRUGER/EXP180RR	121	36.4	18.0	3	35.3	18.2	2	35.9	18.1	2
WENSMAN/W 2163RR	118	36.1	16.4	3	35.5	17.6	1	35.8	17.0	2
MUSTANG/M-176RR	119	35.8	16.3	2	35.6	17.3	2	35.7	16.8	2
NORTHSTAR/NS 1409RR	116	36.0	16.3	2	35.4	17.0	2	35.7	16.7	2
NORTHSTAR/NS 1310RR	114	36.3	17.3	2	35.1	18.1	1	35.7	17.7	2
MUSTANG/M-136RR	115	35.4	16.7	2	35.8	17.2	1	35.6	17.0	2
DAIRYLAND/DSR-1301/RR	118	35.6	17.0	2	35.5	17.6	1	35.6	17.3	2
NUTECH/NT-2102RR	125	36.0	16.8	3	35.0	17.9	3	35.5	17.4	3
HEFTY/175R	119	35.5	16.3	2	35.5	17.2	1	35.5	16.8	2
KRUGER/K-100RR	114	35.9	17.4	2	35.1	18.5	1	35.5	18.0	1
PRAIRIE BR./PB-1754RR	118	35.3	16.3	3	35.6	17.4	2	35.5	16.9	2
EXPERIMENTAL/SD01-3219R	117	35.9	16.4	3	35.0	17.4	2	35.5	16.9	2
KRUGER/K-156RR	116	36.0	16.9	1	34.8	17.3	1	35.4	17.1	1
SODAK GEN./1151RR	116	35.8	16.5	3	35.0	17.6	3	35.4	17.1	3
KRUGER/K-149+RR	117	35.6	16.6	3	35.1	17.2	2	35.4	16.9	2
GOLD COUNTRY/1619RR	122	36.2	16.2	3	34.5	17.4	2	35.4	16.8	2
NORTHSTAR/NS 1120RR	115	36.4	17.8	1	34.3	18.6	1	35.4	18.2	1
NUTECH/NT-1404RR	115	35.6	16.6	1	34.8	17.3	1	35.2	17.0	1
EXPERIMENTAL/SD93-828R	114	35.7	16.6	3	34.6	18.0	2	35.2	17.3	3
INTEGRA/PSI 96110RR	115	36.0	17.7	2	34.2	18.4	1	35.1	18.1	2
KRUGER/K-122RR	115	36.0	17.3	3	34.2	17.7	1	35.1	17.5	2
EXPERIMENTAL/SDX00R-026-42N	120	35.5	16.8	3	34.7	17.4	2	35.1	17.1	3
ASGROW/AG1702	117	35.5	17.4	2	34.6	18.0	1	35.1	17.7	2
PRAIRIE BR./PB-1954RR	124	35.5	17.1	3	34.6	18.0	3	35.1	17.6	3
INTEGRA/PSI 96100RR	114	35.4	17.1	1	34.6	17.9	1	35.0	17.5	1
LATHAM/EXP-E1935R	123	35.0	15.8	2	35.0	17.0	1	35.0	16.4	1
WENSMAN/W 2150RR	117	35.8	17.3	2	34.2	18.4	1	35.0	17.9	2
AGVENTURE/15T5RR	116	34.7	16.1	3	35.2	17.6	2	35.0	16.9	2
THOMPSON/T-7234RR	126	35.6	17.9	3	34.1	18.0	2	34.9	18.0	3
MUSTANG/M-156RR	116	35.5	17.2	2	34.1	18.3	1	34.8	17.8	2
NUTECH/NT-1555RR	115	35.7	17.7	2	33.9	18.5	1	34.8	18.1	2
EXPERIMENTAL/SD01-3477R	119	35.4	17.6	3	34.2	18.3	3	34.8	18.0	3
KRUGER/EXP102RR	115	34.7	17.0	1	34.8	18.0	2	34.8	17.5	2
PRAIRIE BR./PB-1525RR	116	35.1	17.7	2	34.4	18.2	1	34.8	18.0	1
NUTECH/NT-2202RR	126	35.1	17.9	3	34.3	18.2	2	34.7	18.1	2
NUTECH/NT-1921RR	124	35.2	17.3	3	34.2	17.8	3	34.7	17.6	3
DAIRYLAND/DST14-001/RR	118	35.1	15.9	4	34.2	17.3	3	34.7	16.6	3
GOLD COUNTRY/3618RR	123	34.8	16.7	3	34.5	17.4	3	34.7	17.1	3
STINE/1918-4	124	35.1	17.9	3	34.1	18.1	2	34.6	18.0	2
NUTECH/NT-1909RR	125	34.7	17.4	3	34.1	17.9	2	34.4	17.7	3

Table 4b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2005 (continued).

Brand/Variety (By 2005 zone protein)	DTM*	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
KRUGER/K-192RR	125	34.2	17.6	3	34.5	18.0	3	34.4	17.8	3
LATHAM/EXP-E1936R	123	34.4	17.3	2	34.2	17.8	2	34.3	17.6	2
ASGROW/AG1903	123	34.1	16.1	2	34.4	17.7	2	34.3	16.9	2
PRAIRIE BR./PB-1914RR	125	34.1	17.3	2	34.4	18.0	2	34.3	17.7	2
WENSMAN/W 2170RR	119	35.2	17.8	2	33.3	18.7	2	34.3	18.3	2
THOMPSON/T-7193RR/SCN	122	34.8	18.3	2	33.7	18.6	2	34.3	18.5	2
NUTECH/NT-7205+RR	124	34.7	18.0	2	33.7	18.1	1	34.2	18.1	2
WENSMAN/W 2142RR	115	34.2	17.0	2	34.1	18.5	1	34.2	17.8	1
WENSMAN/W 2195NRR	120	34.7	18.4	3	33.6	18.6	1	34.2	18.5	2
ASGROW/AG1502	114	33.5	17.2	2	34.8	18.3	1	34.2	17.8	2
KRUGER/EXP150RR	116	34.6	16.9	2	33.6	18.3	1	34.1	17.6	1
FARM ADVANTAGE/FA 7192	125	34.1	17.5	2	34.0	18.1	2	34.1	17.8	2
FARM ADVANTAGE/FA 7173	121	34.8	17.9	3	33.3	18.6	2	34.1	18.3	3
PRAIRIE BR./PB-1725RR	120	34.8	17.6	3	33.1	18.6	2	34.0	18.1	2
KRUGER/K-195+RR/SCN	119	34.3	18.2	2	33.5	18.5	1	33.9	18.4	2
THOMPSON/T-1777RR	122	34.8	17.7	3	33.0	18.3	2	33.9	18.0	2
EXPERIMENTAL/SD96-170RR-28L	114	34.5	17.5	3	33.2	18.4	1	33.9	18.0	2
HEFTY/195R	126	33.6	17.3	3	34.0	17.8	2	33.8	17.6	3
EXPERIMENTAL/SDX00R-035-39	114	33.9	17.8	3	33.5	18.3	2	33.7	18.1	2
KRUGER/K-177RR	124	34.3	17.5	2	33.0	18.4	1	33.7	18.0	2
DEKALB/DKB18-51	119	33.9	17.5	3	32.8	18.2	2	33.3	17.9	2
INTEGRA/PSI 95160RR	117	33.9	17.4	4	32.5	18.0	3	33.2	17.7	4
PRAIRIE BR./PB-1294RR	117	33.5	17.8	3	32.0	17.8	3	32.8	17.8	3
MUSTANG/M-115RR	117	33.0	18.0	3	31.8	18.1	3	32.4	18.1	3
NUTECH/NT-2202ARR	128	32.7	17.7	3	31.7	18.8	3	32.2	18.3	3
COYOTE/4719RR	128	33.5	17.1	2	.	.	.	.	.	.
AGVENTURE/11T1RR	117	36.1	17.5	2	.	.	.	.	.	.
AGVENTURE/17T6RR	116	.	.	.	33.7	18.1	2	.	.	.
DEKALB/DKB10-52	116	35.7	16.3	3	.	.	.	.	.	.
KALTENBERG/KB135RR	118	35.9	16.4	2	.	.	.	.	.	.
KALTENBERG/KB155RR	119	34.7	16.2	1	.	.	.	.	.	.
STINE/1300-4	113	.	.	.	34.4	18.2	1	.	.	.
STINE/1636-4	120	34.9	15.9	3	.	.	.	.	.	.
STINE/1683-4	114	.	.	.	33.3	18.2	2	.	.	.
DYNA-GRO/33M14	116	35.9	17.6	2	.	.	.	.	.	.
DYNA-GRO/35D15	119	35.0	16.1	2	.	.	.	.	.	.
DYNA-GRO/EXP SX05611	117	34.7	16.8	2	.	.	.	.	.	.
DYNA-GRO/EXP SX05514	117	35.7	16.9	1	.	.	.	.	.	.
DYNA-GRO/EXP SX05816	121	36.9	17.5	3	.	.	.	.	.	.
DYNA-GRO/EXP SX05317	120	33.8	17.3	2	.	.	.	.	.	.
DYNA-GRO/3190RR	127	33.5	17.3	2	.	.	.	.	.	.
ZILLER/BT 7145R	116	35.1	17.3	2	.	.	.	.	.	.
ZILLER/BT 7160R	120	35.4	16.6	3	.	.	.	.	.	.
THOMPSON/T-7214RR	128	35.1	18.1	3	.	.	.	.	.	.
RENK/RS159RR	119	33.6	17.1	3	.	.	.	.	.	.

Table 4b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2005 (continued).

Brand/Variety (By 2005 zone protein)	DTM*	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
RENK/RS199RR	119	33.2	18.8	3	.	.	.	.	.	.
RENK/RS124NRR	118	32.7	17.8	3	.	.	.	.	.	.
RENK/RS165RR	119	34.9	16.7	2	.	.	.	.	.	.
RENK/RS185RR	126	34.8	17.7	3	.	.	.	.	.	.
Test avg. :	119	35.1	17.1	2	34.4	17.9	2	34.8	17.5	2
High avg. :	128	37.3	18.8	4	36.4	18.8	3	36.8	18.5	4
Low avg. :	113	32.7	15.8	1	31.7	17.0	1	32.2	16.4	1
* Lsd(.05) :				1			1			
## TPG-avg. :				1			1			
@ Coef. Var. :				26			26			
No. Entries :		94	94	94	76	76	76			

* DTM = average days from seeding (Brookings- May 25, Bancroft -May 27, 2005) to maturity.

** Lodging, 1 = all plants erect, 5 = all plants flat.

Lsd,(.05) = amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-value= minimum or maximum value to qualify for top performance group.

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Table 5a. Roundup Ready™ maturity group-II soybean variety yield averages- central South Dakota locations, 2004-2005.

Brand/Variety (By 2005 zone yield)	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
NUTECH/NT-2626RR	130	75	.	71	.	73	.
KRUGER/K-223+RR	125	72	.	73	.	73	.
PRAIRIE BR./PB-2421RR	128	75	60	66	.	71	.
DEKALB/DKB22-52	126	68	60	71	.	70	.
NUTECH/NT-2330RR	128	70	.	70	.	70	.
HEFTY/214R	126	67	.	72	.	70	.
KRUGER/EXP225RR	126	68	.	71	.	70	.
GOLD COUNTRY/6221RR	125	69	61	71	.	70	.
PRAIRIE BR./PB-2243RR	126	67	59	72	.	70	.
ASGROW/AG2107	121	69	.	68	.	69	.
MUSTANG/M-203RR	124	66	59	71	.	69	.
MUSTANG/M-205RR	123	71	.	67	.	69	.
MUSTANG/M-226RR	127	67	.	71	.	69	.
PRAIRIE BR./PB-2141RR	126	66	58	71	.	69	.
WENSMAN/W 2211RR	126	66	58	72	.	69	.
MUSTANG/M-201RR	128	67	59	68	.	68	.
FARM ADVANTAGE/FA 7205	125	70	62	65	.	68	.
KRUGER/K-211+RR	126	65	.	70	.	68	.
KRUGER/EXP238RR	127	65	.	70	.	68	.
PRAIRIE BR./PB-2205RR	127	65	.	71	.	68	.
ASGROW/AG2403	125	67	59	66	.	67	.
NUTECH/NT-2707RR	130	66	.	67	.	67	.
NUTECH/NT-2440RR	127	68	.	65	.	67	.
HEFTY/EXP 226R	126	65	.	68	.	67	.
PRAIRIE BR./PB-2345RR	126	65	.	69	.	67	.
ASGROW/AG2205	123	66	.	66	.	66	.
HEFTY/EXP 266R	130	66	.	66	.	66	.
KRUGER/K-233+RR	127	65	56	67	.	66	.
KRUGER/K-200RR	123	68	61	64	.	66	.
WENSMAN/W 2253RR	129	64	.	68	.	66	.
NUTECH/NT-2324RR/SCN	128	64	.	65	.	65	.
KRUGER/EXP237RR	125	63	.	67	.	65	.
EXPERIMENTAL/SD01-2509R	129	64	54	65	.	65	.
NUTECH/NT-2333RR	125	62	.	66	.	64	.
KRUGER/K-212RR	124	65	.	61	.	63	.
NUTECH/NT-2424RR/SCN	128	62	.	62	.	62	.
LATHAM/EXP-E2045R	125	61	.	62	.	62	.
EXPERIMENTAL/SDX00R-039-42	127	63	54	61	.	62	.
COYOTE/4523RR	131	66	56	.	.	.	.
COYOTE/EXP922	128	69	.	.	.	.	.

Table 5a. Roundup Ready™ maturity group-II soybean variety yield averages- central South Dakota locations, 2004-2005 (continued).

Brand/Variety (By 2005 zone yield)	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
ZILLER/BT 7215R	129	68	.	.	.	.	.
RENK/RS223RR	125	69	60	.	.	.	.
Test avg. :	126	67	59	68	.	67	.
High value :	131	75	62	73	.	73	.
Low avg. :	121	61	54	61	.	62	.
# Lsd (.05) :		4	5	4		3	
## TPG-avg. :		71	57	69		70	
@ Coef. Var. :		3	4	4		4	
No. Entries :		42	16	38			

* DTM= average days from seeding (Brookings- May 25, Bancroft- May 27, 2005) to maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

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Table 5b. Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2005.

Brand/Variety (By 2005 zone protein)	DTM*	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
ASGROW/AG2205	123	36.1	16.0	3	35.9	16.5	1	36.0	16.3	2
KRUGER/EXP225RR	126	35.8	16.9	3	35.4	17.5	2	35.6	17.2	2
KRUGER/K-233+RR	127	36.1	16.2	3	34.9	17.5	1	35.5	16.9	2
NUTECH/NT-2626RR	130	35.0	16.6	3	35.8	17.8	2	35.4	17.2	2
NUTECH/NT-2424RR/SCN	128	35.5	16.5	3	35.2	17.7	2	35.4	17.1	2
LATHAM/EXP-E2045R	125	35.8	16.0	3	34.8	17.2	2	35.3	16.6	3
PRAIRIE BR./PB-2205RR	127	35.3	16.7	2	35.3	17.8	2	35.3	17.3	2
KRUGER/EXP237RR	125	35.3	16.6	3	35.0	18.0	2	35.2	17.3	2
NUTECH/NT-2440RR	127	35.7	16.7	3	34.2	18.0	1	35.0	17.4	2
HEFTY/EXP 266R	130	35.3	16.7	3	34.6	17.3	3	35.0	17.0	3
KRUGER/K-212RR	124	35.1	15.8	2	34.7	17.0	1	34.9	16.4	1
WENSMAN/W 2253RR	129	35.1	16.4	3	34.7	17.5	2	34.9	17.0	3
NUTECH/NT-2707RR	130	35.5	16.5	3	34.3	17.7	2	34.9	17.1	3
NUTECH/NT-2324RR/SCN	128	34.4	17.2	3	34.9	18.1	2	34.7	17.7	2
ASGROW/AG2107	121	34.2	17.2	3	34.2	18.3	2	34.2	17.8	2
MUSTANG/M-203RR	124	34.2	17.2	3	34.2	17.9	1	34.2	17.6	2
KRUGER/K-200RR	123	34.1	17.4	2	34.2	17.9	1	34.2	17.7	2
HEFTY/214R	126	34.0	17.2	2	34.3	17.6	2	34.2	17.4	2
DEKALB/DKB22-52	126	34.2	17.2	3	33.9	18.2	1	34.1	17.7	2
PRAIRIE BR./PB-2421RR	128	34.5	16.5	3	33.6	18.0	1	34.1	17.3	2
PRAIRIE BR./PB-2345RR	126	35.1	16.6	4	33.0	17.9	2	34.1	17.3	3
KRUGER/K-211+RR	126	34.2	17.4	2	33.7	18.0	1	34.0	17.7	2
KRUGER/EXP238RR	127	35.1	16.5	3	32.8	17.7	3	34.0	17.1	3
HEFTY/EXP 226R	126	34.7	16.4	4	33.1	17.9	2	33.9	17.2	3
WENSMAN/W 2211RR	126	34.1	17.4	2	33.7	17.1	1	33.9	17.3	2
GOLD COUNTRY/6221RR	125	34.4	16.8	3	33.4	17.8	1	33.9	17.3	2
NUTECH/NT-2330RR	128	34.1	17.3	3	33.6	18.4	2	33.9	17.9	3
MUSTANG/M-205RR	123	33.8	16.9	2	33.8	17.8	1	33.8	17.4	2
PRAIRIE BR./PB-2243RR	126	33.7	17.5	2	33.9	17.7	2	33.8	17.6	2
MUSTANG/M-226RR	127	34.5	16.3	3	33.0	17.7	3	33.8	17.0	3
FARM ADVANTAGE/FA 7205	125	33.6	16.8	3	33.9	17.9	2	33.8	17.4	2
NUTECH/NT-2333RR	125	34.0	16.6	3	33.5	17.9	3	33.8	17.3	3
KRUGER/K-223+RR	125	34.0	17.1	2	33.5	17.9	1	33.8	17.5	2
MUSTANG/M-201RR	128	33.9	17.1	3	33.4	18.2	1	33.7	17.7	2
PRAIRIE BR./PB-2141RR	126	34.3	17.0	3	32.9	18.1	1	33.6	17.6	2
ASGROW/AG2403	125	33.8	16.8	2	32.5	18.4	1	33.2	17.6	2
EXPERIMENTAL/SD01-2509R	129	33.0	16.2	3	31.8	17.5	1	32.4	16.9	2
EXPERIMENTAL/SDX00R-039-42	127	30.9	16.9	4	30.5	18.6	3	30.7	17.8	4
COYOTE/4523RR	131	35.3	16.6	3	.	.	.	.	.	.
COYOTE/EXP922	128	35.7	16.7	3	.	.	.	.	.	.

Table 5b. Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2005 (continued).

Brand/Variety (By 2005 zone protein)	DTM*	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
ZILLER/BT 7215R	129	34.4	16.8	3	.	.	.	.	.	.
RENK/RS223RR	125	34.1	17.3	2	.	.	.	.	.	.
Test avg. :	126	34.6	17.9	3	34.0	18.5	2	34.2	18.3	2
High avg. :	131	36.1	17.5	4	35.9	18.6	3	36.0	17.9	4
Low avg. :	121	30.9	15.8	2	30.5	16.5	1	30.7	16.3	1
* Lsd(.05) :				1			1			
## TPG-avg. :				1			1			
### Coef.Var. :				21			20			
No. Entries :		42	42	42	38	38	38			

* DTM= average days from seeding (Brookings- May 25, Bancroft- May 27, 2005) to maturity.

** Lodging, 1= all plants erect, 5= all plants flat.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum or maximum value to qualify for top performance group.

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Table 6a. Roundup Ready™ maturity group-I soybean variety yield averages- southern South Dakota locations, 2004-2005.

Brand/Variety (By 2-yr then 2005 zone yield)	DTM*	Southern Averages by Location				Southern Zone Averages	
		Beresford		Delmont		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
ASGROW/AG1903	99	52	60	31	38	42	49
NUTECH/NT-1909RR	100	57	62	27	34	42	48
KRUGER/K-192RR	99	57	60	25	32	41	46
KRUGER/K-156RR	93	55	.	26	.	41	.
THOMPSON/T-7205+RR	101	54	.	28	.	41	.
KRUGER/EXP150RR	95	54	.	26	.	40	.
PRAIRIE BR./PB-1914RR	102	51	.	29	35	40	.
KRUGER/EXP180RR	99	52	.	25	.	39	.
PRAIRIE BR./PB-1954RR	96	53	60	25	32	39	46
THOMPSON/T-7214RR	99	53	59	25	34	39	47
NORTHSTAR/NS 1809RR	98	49	.	29	.	39	.
KRUGER/K-195+RR/SCN	97	53	.	22	.	38	.
KRUGER/K-177RR	102	54	.	21	.	38	.
EXPERIMENTAL/SDX00R-026-42N	97	52	.	24	.	38	.
NORTHSTAR/NS 1624RR	97	50	.	24	.	37	.
EXPERIMENTAL/SDX00R-035-39	94	51	.	22	.	37	.
EXPERIMENTAL/SD96-170RR-28L	93	50	54	23	.	37	.
EXPERIMENTAL/SD1091RR-4	95	50	.	21	.	36	.
EXPERIMENTAL/SD93-828R	92	50	.	22	.	36	.
NORTHSTAR/NS 1509RR	93	48	.	22	.	35	.
KRUGER/K-149+RR	96	46	.	21	.	34	.
EXPERIMENTAL/SD01-3219R	97	46	.	22	28	34	.
SODAK GEN./1151RR	93	47	49	20	24	34	37
GOLD COUNTRY/3618RR	96	46	.	20	29	33	.
EXPERIMENTAL/SD01-1587R	94	45	.	21	.	33	.
ASGROW/AG1702	96	.	.	28	.	.	.
COYOTE/4719RR	100	.	.	25	30	.	.
STINE/1918-4	102	53	59	.	.	.	.
Test avg. :	97	51	58	24	32	38	46
High avg. :	102	57	62	31	38	42	49
Low avg. :	92	45	49	20	24	33	37
# Lsd (.05) :		7	7	4	5	4	7
## TPG-avg. :		50	55	27	33	38	42
@ Coef. Var. :		9	7	11	12	10	18
No. Entries :		26	8	27	10		

* DTM= average days from seeding (Beresford- June 16, Delmont- June 20, 2005) to maturity.

Lsd(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 6b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2005.

Brand/Variety (By 2005 zone protein)	DTM*	Southern Averages by Location						Southern Zone Averages		
		Beresford			Delmont			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
NORTHSTAR/NS 1509RR	93	36.6	16.6	1	36.3	15.4	1	36.5	16.0	1
KRUGER/K-149+RR	96	36.6	17.6	1	35.7	15.8	1	36.2	16.7	1
EXPERIMENTAL/SD01-1587R	94	36.5	18.3	1	35.8	16.4	1	36.2	17.4	1
KRUGER/EXP180RR	99	36.1	18.2	1	36.1	17.1	1	36.1	17.7	1
EXPERIMENTAL/SD1091RR-4	95	36.7	18.5	1	35.1	17.7	1	35.9	18.1	1
NORTHSTAR/NS 1809RR	98	35.4	17.9	1	34.6	17.8	1	35.0	17.9	1
NUTECH/NT-1909RR	100	34.5	18.1	1	35.3	16.1	1	34.9	17.1	1
PRAIRIE BR./PB-1914RR	102	34.6	18.1	1	35.1	18.3	1	34.9	18.2	1
EXPERIMENTAL/SD93-828R	92	34.7	18.8	1	35.0	17.2	1	34.9	18.0	1
KRUGER/K-177RR	102	35.0	18.3	1	34.5	18.6	1	34.8	18.5	1
ASGROW/AG1903	99	34.1	18.3	1	35.2	17.0	1	34.7	17.7	1
THOMPSON/T-7205+RR	101	34.4	18.5	1	34.9	18.3	1	34.7	18.4	1
SODAK GEN./1151RR	93	35.6	17.9	2	33.5	16.9	1	34.6	17.4	1
KRUGER/K-156RR	93	35.0	18.5	1	34.0	17.3	1	34.5	17.9	1
EXPERIMENTAL/SD01-3219R	97	35.1	18.2	1	33.7	16.9	1	34.4	17.6	1
PRAIRIE BR./PB-1954RR	96	34.4	18.5	1	34.2	17.6	1	34.3	18.1	1
KRUGER/K-192RR	99	34.6	18.5	1	33.7	17.3	1	34.2	17.9	1
EXPERIMENTAL/SD96-170RR-28L	93	34.7	18.3	1	33.5	17.7	1	34.1	18.0	1
KRUGER/K-195+RR/SCN	97	33.8	19.3	1	34.2	19.3	1	34.0	19.3	1
THOMPSON/T-7214RR	99	33.4	18.8	1	34.6	17.4	1	34.0	18.1	1
EXPERIMENTAL/SDX00R-026-42N	97	34.0	17.9	1	33.9	16.7	1	34.0	17.3	1
EXPERIMENTAL/SDX00R-035-39	94	33.3	18.7	2	33.7	17.8	1	33.5	18.3	1
KRUGER/EXP150RR	95	33.9	18.9	1	32.9	17.8	1	33.4	18.4	1
GOLD COUNTRY/3618RR	96	33.9	18.3	1	32.2	17.3	1	33.1	17.8	1
NORTHSTAR/NS 1624RR	97	32.3	19.0	1	32.7	16.8	1	32.5	17.9	1
ASGROW/AG1702	96	.	.	.	36.6	17.7	1	.	.	.
COYOTE/4719RR	100	.	.	.	34.7	18.1	1	.	.	.
STINE/1918-4	102	34.4	18.3	1	.	.	.	.	.	.
Test avg. :	97	34.8	18.3	1	34.5	17.3	1	34.6	17.8	1
High avg. :	102	36.7	19.3	2	36.6	19.3	1	36.5	19.3	1
Low avg. :	92	32.3	16.6	1	32.2	15.4	1	32.5	16.0	1
* Lsd(.05) :				1			NS			
## TPG-avg. :				1			1			
@ Coef. Var. :				22			0			
No. Entries :		26	26	26	27	27	27			

* DTM= average days from seeding (Beresford- June 16, Delmont- June 20, 2005) to maturity.

** Lodging, 1= all plants erect, 5= all plants flat.

Lsd,(.05)= amount values in a column must differ to be significantly different, differences are not significant (NS), NS is indicated.

TPG-avg. = minimum or maximum value to qualify for top performance group.

Table 7a. Roundup Ready™ maturity group-II soybean variety yield averages- southern South Dakota locations, 2003-2005.

Brand/Variety (By 2-yr then 2005 zone yield)	DTM*	Southern Averages by Location				Southern Zone Averages	
		Beresford		Delmont		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
DEKALB/DKB25-51	104	55	63	33	39	44	51
PRAIRIE BR./PB-2141RR	102	56	63	30	36	43	50
COYOTE/4527RR	105	55	62	31	36	43	49
KRUGER/K-289+RR	105	55	60	31	37	43	49
FARM ADVANTAGE/FA 7264	106	54	61	29	37	42	49
SANDS/SOI 2754RR	104	52	62	29	36	41	49
PRAIRIE BR./PB-2421RR	101	54	62	28	35	41	49
MUSTANG/M-203RR	101	57	61	29	35	43	48
KRUGER/K-233+RR	101	57	62	28	33	43	48
COYOTE/9524RR	102	56	62	28	34	42	48
MUSTANG/M-264RR	104	53	59	30	37	42	48
PRAIRIE BR./PB-2343RR	101	55	63	26	33	41	48
ASGROW/AG2403	102	57	63	23	32	40	48
PRAIRIE BR./PB-2643RR	106	51	59	29	36	40	48
SANDS/EXP 2669RR	103	51	58	29	36	40	47
DAIRYLAND/DSR-234/RR	99	50	59	28	34	39	47
DAIRYLAND/DSR-2500/RR	101	51	61	26	32	39	47
KRUGER/K-270RR	102	54	57	29	35	42	46
PRAIRIE BR./PB-2243RR	101	55	61	25	31	40	46
SANDS/SOI 2143RR	101	50	60	24	32	37	46
KRUGER/K-273RR	104	49	55	30	35	40	45
SANDS/SOI 2169RR	96	49	58	26	31	38	45
NUTECH/NT-2707RR	102	50	56	26	33	38	45
KRUGER/K-200RR	96	52	59	23	31	38	45
RENK/RS253RR	102	47	57	23	32	35	45
SANDS/SOI 2872RR	103	50	54	26	34	38	44
EXPERIMENTAL/SDX00R-039-42	102	45	53	26	31	36	42
MUSTANG/M-205RR	97	58	.	30	.	44	.
SANDS/SOI 2448RR	102	58	.	29	.	44	.
SANDS/SOI 2151NRR	97	58	63	27	.	43	.
LATHAM/L2336R	101	56	.	30	.	43	.
COYOTE/EXP922	100	55	.	28	.	42	.
NUTECH/NT-2890RR	105	54	.	29	.	42	.
INTEGRA/PSI 96280RR	105	53	.	30	.	42	.
LATHAM/L2136R	100	58	62	23	.	41	.
THOMPSON/T-2100RR	100	54	.	28	.	41	.
THOMPSON/T-2919RR/SCN	107	51	.	30	.	41	.
RENK/RS265RR	103	58	.	23	.	41	.
SANDS/SOI 2673RR	103	53	.	26	.	40	.
INTEGRA/PSI 95200RR	97	56	.	23	.	40	.
INTEGRA/PSI 96210RR	100	55	.	25	.	40	.
LATHAM/EXP-E2450R	102	54	58	26	.	40	.
PRAIRIE BR./PB-2205RR	101	52	.	28	.	40	.
DYNA-GRO/31N27	105	49	.	31	.	40	.
NUTECH/NT-2626RR	102	53	.	25	.	39	.

Table 7a. Roundup Ready™ maturity group-II soybean variety yield averages- southern South Dakota locations, 2003-2005 (continued).

Brand/Variety (By 2-yr then 2005 zone yield)	DTM*	Southern Averages by Location				Southern Zone Averages	
		Beresford		Delmont		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
KRUGER/K-212RR	98	52	.	25	.	39	.
KRUGER/EXP280RR	103	50	.	28	.	39	.
GOLD COUNTRY/2726RR	104	50	.	28	.	39	.
DAIRYLAND/DSR-2600/RR	100	50	.	27	.	39	.
PRAIRIE BR./PB-2385NRR	100	49	.	28	.	39	.
DYNA-GRO/32C25	103	50	.	27	.	39	.
THOMPSON/T-7206RR	99	54	.	24	.	39	.
EXPERIMENTAL/SDX00R-035-56	102	52	.	26	.	39	.
COYOTE/EXP624	102	50	.	25	.	38	.
FARM ADVANTAGE/FA7244N	101	53	.	22	.	38	.
DEKALB/DKB26-53	105	53	.	22	.	38	.
SANDS/SOI 2884RR	105	51	.	25	.	38	.
NUTECH/NT-2330RR	102	52	.	23	.	38	.
NUTECH/NT-2992RR	107	49	.	27	.	38	.
INTEGRA/PSI 96230RR	98	50	.	25	.	38	.
KRUGER/EXP260RR	104	46	.	30	.	38	.
LATHAM/EXP-E2635R	103	49	56	27	.	38	.
LATHAM/L2900R	105	53	60	23	.	38	.
DAIRYLAND/DSR-2100/RR	100	49	.	26	.	38	.
PRAIRIE BR./PB-2565RR	103	51	.	25	.	38	.
EXPERIMENTAL/SD01-1135R	96	52	.	24	31	38	.
NUTECH/NT-2324RR/SCN	101	50	.	24	.	37	.
NUTECH/NT-2424RR/SCN	99	48	.	26	.	37	.
NUTECH/NT-2990RR	106	50	.	24	.	37	.
KRUGER/K-223+RR	99	51	.	23	.	37	.
PRAIRIE BR./PB-2183NRR	97	51	.	22	.	37	.
PRAIRIE BR./PB-2345RR	97	48	.	25	.	37	.
PRAIRIE BR./PB-2625RR	101	49	.	25	.	37	.
MUSTANG/M-226RR	98	46	.	25	.	36	.
SANDS/SOI 2467NRR	100	50	.	21	.	36	.
INTEGRA/PSI 96260RR	102	46	.	25	.	36	.
KRUGER/K-255RR	101	45	.	26	.	36	.
LATHAM/497RR	99	49	60	22	.	36	.
STINE/2688-4	102	47	.	24	.	36	.
NUTECH/NT-2790RR	103	45	.	24	.	35	.
DYNA-GRO/EXP SX05123	97	48	.	21	.	35	.
EXPERIMENTAL/SDX00R-046-28	102	44	.	25	.	35	.
EXPERIMENTAL/SD01-3025R	105	42	.	24	.	33	.
EXPERIMENTAL/SD01-3387R	99	44	.	22	.	33	.
EXPERIMENTAL/SDX02R-584	98	40	.	24	.	32	.
ASGROW/AG2107	100	.	.	22	31	.	.
ASGROW/AG2205	96	.	.	23	.	.	.
COYOTE/4523RR	101	51	57	.	.	.	.
MUSTANG/M-201RR	104	61	67	.	.	.	.
MUSTANG/M-284RR	104	49	61	.	.	.	.
MUSTANG/M-286NRR	104	49	.	.	.	.	.
DEKALB/DKB22-52	104	55	61	.	.	.	.
KALTENBERG/KB241RR	104	52	.	.	.	.	.
KALTENBERG/KB248RR	101	48	.	.	.	.	.
KALTENBERG/KB256RR	104	54	.	.	.	.	.

Table 7a. Roundup Ready™ maturity group-II soybean variety yield averages- southern South Dakota locations, 2003-2005 (continued).

Brand/Variety (By 2-yr then 2005 zone yield)	DTM*	Southern Averages by Location				Southern Zone Averages	
		Beresford		Delmont		Bu/Acre 2005	Bu/Acre 2-Yr
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr		
KALTENBERG/KB276RR	107	54	.	.	.	.	.
STINE/2116-4	97	.	.	24	33	.	.
STINE/2402-4	100	50	.	.	.	.	.
STINE/2743-4	108	.	.	28	.	.	.
ZILLER/BT 7215R	101	57	65	.	.	.	.
ZILLER/BT 7236R	102	49	.	.	.	.	.
THOMPSON/T-3100RR	108	49	.	.	.	.	.
THOMPSON/T-3101RR	108	52	.	.	.	.	.
Test avg. :	102	51	60	26	34	39	47
High avg. :	108	61	67	33	39	44	51
Low avg. :	96	40	53	21	31	32	42
# Lsd (.05) :		6	6	4	4	4	7
## TPG-avg. :		55	61	29	35	40	44
@ Coef. Var. :		7	6	10	9	8	18
No. Entries :		99	38	89	30		

* DTM= average days from seeding (Beresford- June 16, Delmont- June 20, 2005) to maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

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Table 7b. Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2005.

Brand/Variety (By 2005 zone protein)	DTM*	Southern Averages by Location						Southern Zone Averages		
		Beresford			Delmont			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
EXPERIMENTAL/SD01-3387R	99	38.1	17.2	2	35.7	16.5	1	36.9	16.9	2
KRUGER/K-212RR	98	36.8	16.8	1	36.0	15.8	1	36.4	16.3	1
KRUGER/EXP260RR	104	36.9	17.7	1	34.8	18.2	1	35.9	18.0	1
THOMPSON/T-2100RR	100	37.9	17.7	1	33.5	17.9	1	35.7	17.8	1
KRUGER/K-255RR	101	36.3	17.5	1	34.9	18.3	1	35.6	17.9	1
EXPERIMENTAL/SDX00R-046-28	102	36.9	16.9	3	34.1	16.9	1	35.5	16.9	2
KRUGER/K-273RR	104	36.7	17.9	2	34.1	18.0	1	35.4	18.0	1
GOLD COUNTRY/2726RR	104	35.9	17.6	2	34.7	17.9	1	35.3	17.8	1
LATHAM/L2336R	101	35.8	18.4	1	34.6	17.6	1	35.2	18.0	1
COYOTE/EXP624	102	36.3	18.0	1	33.9	18.3	1	35.1	18.2	1
RENK/RS253RR	102	35.8	17.8	1	34.4	18.3	1	35.1	18.1	1
PRAIRIE BR./PB-2625RR	101	35.7	17.8	1	34.2	17.5	1	35.0	17.7	1
KRUGER/K-233+RR	101	36.5	18.1	1	33.3	17.6	1	34.9	17.9	1
INTEGRA/PSI 96230RR	98	36.0	17.2	1	33.6	18.0	1	34.8	17.6	1
DAIRYLAND/DSR-234/RR	99	36.9	18.1	1	32.6	17.3	1	34.8	17.7	1
STINE/2688-4	102	36.4	18.4	2	33.1	18.1	1	34.8	18.3	1
NUTECH/NT-2707RR	102	36.7	17.1	1	32.7	17.4	1	34.7	17.3	1
INTEGRA/PSI 96260RR	102	36.5	17.3	1	32.9	17.8	1	34.7	17.6	1
PRAIRIE BR./PB-2385NRR	100	35.7	17.9	2	33.6	18.3	1	34.7	18.1	1
DAIRYLAND/DSR-2500/RR	101	35.5	17.7	1	33.8	17.8	1	34.7	17.8	1
KRUGER/K-270RR	102	34.9	18.5	3	34.2	18.1	1	34.6	18.3	2
PRAIRIE BR./PB-2205RR	101	36.5	17.7	1	32.6	18.4	1	34.6	18.1	1
EXPERIMENTAL/SD01-1135R	96	35.8	17.7	2	33.3	16.6	1	34.6	17.2	2
NUTECH/NT-2330RR	102	34.6	18.2	1	34.4	18.1	1	34.5	18.2	1
NUTECH/NT-2626RR	102	35.8	17.9	1	33.1	17.5	1	34.5	17.7	1
NUTECH/NT-2992RR	107	34.9	17.7	1	34.0	17.9	1	34.5	17.8	1
PRAIRIE BR./PB-2243RR	101	35.2	18.3	2	33.7	17.1	1	34.5	17.7	1
NUTECH/NT-2790RR	103	37.1	17.9	2	31.7	17.8	1	34.4	17.9	2
SANDS/EXP 2669RR	103	35.5	17.7	2	33.2	18.2	1	34.4	18.0	1
PRAIRIE BR./PB-2565RR	103	36.5	17.5	1	32.2	17.6	1	34.4	17.6	1
DYNA-GRO/EXP SX05123	97	36.1	16.8	1	32.6	17.4	1	34.4	17.1	1
MUSTANG/M-203RR	101	33.9	18.4	1	34.8	17.2	1	34.3	17.8	1
KRUGER/K-289+RR	105	35.9	18.4	2	32.8	17.1	1	34.3	17.8	1
DYNA-GRO/32C25	103	35.5	18.1	1	33.0	17.1	1	34.3	17.6	1
MUSTANG/M-226RR	98	36.1	17.1	1	32.3	18.6	1	34.2	17.9	1
LATHAM/EXP-E2450R	102	35.8	16.8	2	32.6	18.2	1	34.2	17.5	2
LATHAM/L2900R	105	35.2	18.2	1	33.2	17.1	1	34.2	17.7	1
PRAIRIE BR./PB-2343RR	101	35.7	17.3	2	32.6	17.5	1	34.2	17.4	1
MUSTANG/M-205RR	97	35.4	18.2	2	32.9	17.9	1	34.2	18.1	1
DAIRYLAND/DSR-2100/RR	100	36.9	16.9	1	31.4	16.5	1	34.2	16.7	1
PRAIRIE BR./PB-2345RR	97	35.8	16.8	1	32.5	18.1	1	34.2	17.5	1
PRAIRIE BR./PB-2421RR	101	35.4	18.7	2	32.8	19.0	1	34.1	18.9	1
SANDS/SOI 2754RR	104	34.7	18.8	2	33.4	18.0	1	34.1	18.4	1
NUTECH/NT-2424RR/SCN	99	35.2	18.4	1	32.9	18.4	1	34.1	18.4	1
KRUGER/EXP280RR	103	35.9	18.0	2	32.2	18.1	1	34.1	18.1	2
LATHAM/497RR	99	35.0	18.3	1	33.1	18.3	1	34.1	18.3	1
COYOTE/EXP922	100	35.4	17.9	1	32.5	17.9	1	34.0	17.9	1
SANDS/SOI 2673RR	103	34.4	18.5	2	33.5	18.1	1	34.0	18.3	2
DEKALB/DKB26-53	105	35.9	17.7	2	31.9	18.4	1	33.9	18.1	2
KRUGER/K-200RR	96	34.5	18.4	1	33.0	17.9	1	33.8	18.2	1

Table 7b. Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2005 (continued).

Brand/Variety (By 2005 zone protein)	DTM*	Southern Averages by Location						Southern Zone Averages		
		Beresford			Delmont			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
THOMPSON/T-7206RR	99	34.5	18.6	1	32.9	18.1	1	33.7	18.4	1
THOMPSON/T-2919RR/SCN	107	35.0	18.4	2	32.4	18.0	1	33.7	18.2	2
EXPERIMENTAL/SD01-3025R	105	34.5	17.7	3	32.9	17.5	1	33.7	17.6	2
SANDS/SOI 2872RR	103	35.1	18.6	2	32.1	17.7	1	33.6	18.2	2
INTEGRA/PSI 96210RR	100	35.0	18.2	1	32.2	17.7	1	33.6	18.0	1
LATHAM/EXP-E2635R	103	34.2	15.5	2	32.9	18.2	1	33.6	16.9	1
NUTECH/NT-2990RR	106	35.2	18.0	2	31.8	19.1	1	33.5	18.6	2
PRAIRIE BR./PB-2141RR	102	33.6	18.8	1	33.4	18.6	1	33.5	18.7	1
PRAIRIE BR./PB-2643RR	106	33.5	18.5	2	33.5	17.9	1	33.5	18.2	1
SANDS/SOI 2169RR	96	35.5	18.2	2	31.4	18.0	1	33.5	18.1	1
SANDS/SOI 2467NRR	100	35.0	19.0	1	31.9	18.4	1	33.5	18.7	1
KRUGER/K-223+RR	99	34.0	18.2	1	32.9	17.4	1	33.5	17.8	1
COYOTE/4527RR	105	34.2	19.2	2	32.6	18.3	1	33.4	18.8	1
FARM ADVANTAGE/FA7244N	101	34.6	18.7	1	32.2	18.0	1	33.4	18.4	1
SANDS/SOI 2884RR	105	35.2	18.2	2	31.6	18.8	1	33.4	18.5	1
LATHAM/L2136R	100	33.3	18.5	1	33.5	17.0	1	33.4	17.8	1
NUTECH/NT-2324RR/SCN	101	34.7	18.8	1	31.9	18.9	1	33.3	18.9	1
RENK/RS265RR	103	34.0	18.4	1	32.6	18.2	1	33.3	18.3	1
EXPERIMENTAL/SDX02R-584	98	35.5	17.8	2	30.8	18.7	1	33.2	18.3	2
SANDS/SOI 2143RR	101	34.1	17.9	1	32.1	17.9	1	33.1	17.9	1
MUSTANG/M-264RR	104	32.8	18.6	1	33.2	17.3	1	33.0	18.0	1
SANDS/SOI 2448RR	102	34.0	19.1	1	32.0	18.1	1	33.0	18.6	1
NUTECH/NT-2890RR	105	34.5	18.6	2	31.5	17.9	1	33.0	18.3	2
FARM ADVANTAGE/FA 7264	106	35.1	18.1	2	30.8	18.2	1	33.0	18.2	2
INTEGRA/PSI 95200RR	97	34.5	19.1	1	31.3	18.9	1	32.9	19.0	1
INTEGRA/PSI 96280RR	105	34.5	18.5	2	31.3	18.2	1	32.9	18.4	1
PRAIRIE BR./PB-2183NRR	97	33.3	19.0	1	32.4	18.8	1	32.8	18.9	1
COYOTE/9524RR	102	34.0	18.8	1	31.0	18.8	1	32.5	18.8	1
SANDS/SOI 2151NRR	97	33.1	19.2	1	31.9	17.7	1	32.5	18.5	1
EXPERIMENTAL/SDX00R-035-56	102	34.0	17.8	2	31.0	17.4	1	32.5	17.6	2
DYNA-GRO/31N27	105	33.3	18.6	1	31.5	18.6	1	32.4	18.6	1
DAIRYLAND/DSR-2600/RR	100	33.5	18.4	1	30.7	18.3	1	32.1	18.4	1
ASGROW/AG2403	102	33.8	19.2	1	29.6	19.3	1	31.7	19.3	1
DEKALB/DKB25-51	104	33.0	18.6	2	29.3	19.3	1	31.2	19.0	1
EXPERIMENTAL/SDX00R-039-42	102	33.0	18.0	2	28.4	18.2	1	30.7	18.1	2
ASGROW/AG2107	100	.	.	.	33.4	18.0	1	.	.	.
ASGROW/AG2205	96	.	.	.	34.8	16.1	1	.	.	.
COYOTE/4523RR	101	36.2	17.5	1	.	.	.	.	.	.
MUSTANG/M-201RR	104	34.0	19.0	1	.	.	.	.	.	.
MUSTANG/M-284RR	104	37.3	17.2	1	.	.	.	.	.	.
MUSTANG/M-286NRR	104	35.6	17.7	2	.	.	.	.	.	.
DEKALB/DKB22-52	104	34.5	18.1	2	.	.	.	.	.	.
KALTENBERG/KB241RR	104	35.4	17.9	1	.	.	.	.	.	.
KALTENBERG/KB248RR	101	36.0	17.6	2	.	.	.	.	.	.
KALTENBERG/KB256RR	104	36.5	18.0	2	.	.	.	.	.	.
KALTENBERG/KB276RR	107	34.3	18.5	2	.	.	.	.	.	.
STINE/2116-4	97	.	.	.	33.7	17.9	1	.	.	.
STINE/2402-4	100	35.1	18.0	2	.	.	.	.	.	.
STINE/2743-4	108	.	.	.	32.6	18.3	1	.	.	.
ZILLER/BT 7215R	101	34.9	19.0	1	.	.	.	.	.	.
ZILLER/BT 7236R	102	36.0	17.3	2	.	.	.	.	.	.

Table 7b. Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2005 (continued).

Brand/Variety (By 2005 zone protein)	DTM*	Southern Averages by Location						Southern Zone Averages		
		Beresford			Delmont			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
THOMPSON/T-3100RR	108	35.0	18.0	1	.	.	.	.	.	.
THOMPSON/T-3101RR	108	35.1	17.5	2	.	.	.	.	.	.
Test avg. :	102	35.2	18.0	1	32.8	17.8	1	34.0	17.9	1
High avg. :	108	38.1	19.2	3	36.0	19.3	1	36.9	19.3	2
Low avg. :	96	32.8	15.5	1	28.4	15.8	1	30.7	16.3	1
* Lsd(.05) :				1			NS			
## TPG-avg. :				1			1			
@ Coef. Var. :				31			0			
No. Entries :		99	99	99	89	89	89			

* DTM= average days from seeding (Beresford- June 16, Delmont- June 20, 2005) to maturity.

** Lodging, 1= all plants erect, 5= all plants flat.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum or maximum value to qualify for top performance group.

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Table D. 2005 Conventional soybean entries by brand/variety, maturity group, gene for *Phytophthora* root rot resistance, and performance table number(s).

Brand / Variety	Mat.	Gene	Table
	Grp.		No.(s)
COYOTE/5525	II	Rps1k	9
FARM ADVANTAGE/FA 1846	I	Not Reported	11
FARM ADVANTAGE/FA2145N	II	Not Reported	11
GOLD COUNTRY/2318	I	rps - None	9
LATHAM/EXP-E2400	II	rps - None	9
LATHAM/L1763	I	rps - None	9
LATHAM/L1840	I	rps - None	9
PUBLIC VARIETIES & EXPERIMENTALS:			
PUBLIC/HAMLIN	0	Rps1k	8
EXPERIMENTAL/SD00-1391	I	Not Reported	8,9
EXPERIMENTAL/SD00-1413	II	Not Reported	9
EXPERIMENTAL/SD00-1455	I	Not Reported	8,9
EXPERIMENTAL/SD00-1501	0	Not Reported	8
EXPERIMENTAL/SD00-1962	I	Not Reported	8,9
EXPERIMENTAL/SD00-314	II	Not Reported	9
EXPERIMENTAL/SD00-405	I	Not Reported	8,9
EXPERIMENTAL/SD00-533	I	Not Reported	8,9
EXPERIMENTAL/SD00-632	I	Not Reported	8,9
EXPERIMENTAL/SD00-732	II	Not Reported	9
EXPERIMENTAL/SD02-1045	0	Not Reported	8
EXPERIMENTAL/SD02-14	I	Not Reported	8,9
EXPERIMENTAL/SD02-22	II	Not Reported	9
EXPERIMENTAL/SD02-26	II	Not Reported	9
EXPERIMENTAL/SD02-829	0	Not Reported	8
EXPERIMENTAL/SD02-847	I	Not Reported	8,9
EXPERIMENTAL/SD02-906	I	Not Reported	8,9
EXPERIMENTAL/SD98-99-2	II	Not Reported	9
EXPERIMENTAL/SD99-1909	0	Not Reported	8
EXPERIMENTAL/SDX98-74331	I	Not Reported	8,9
EXPERIMENTAL/SDX98-76192	0	Not Reported	8
EXPERIMENTAL/SDX98-82302	0	Not Reported	8
PUBLIC/SPINK	0	Rps1 (Rps1a)	8
PUBLIC/SURGE	0	Rps1 (Rps1a)	8
SANDS/SOI 256	II	Not Reported	9
SANDS/SOI 288	II	Not Reported	9

Note: Strain or race resistance by gene type is reported in table B.

Table 8a. Non-Roundup Ready maturity group-0 and -I soybean variety yield averages- South Shore, South Dakota, 2004-2005.

Brand/Variety (By maturity group & 2005 yield)	DTM*	Averages by Maturity Group			
		MG-0		MG-I	
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr
EXPERIMENTAL/SD99-1909	115	45	36	.	.
EXPERIMENTAL/SD02-829	112	44	.	.	.
PUBLIC/SURGE	111	44	34	.	.
PUBLIC/HAMLIN	111	43	35	.	.
EXPERIMENTAL/SDX98-76192	115	41	.	.	.
PUBLIC/SPINK	110	40	31	.	.
EXPERIMENTAL/SD02-1045	117	40	.	.	.
EXPERIMENTAL/SD00-1501	112	39	.	.	.
EXPERIMENTAL/SDX98-82302	115	37	.	.	.
GOLD COUNTRY/2318	120	.	.	52	.
EXPERIMENTAL/SD00-632	118	.	.	45	.
EXPERIMENTAL/SD02-14	119	.	.	45	.
EXPERIMENTAL/SD02-906	118	.	.	45	.
EXPERIMENTAL/SD00-533	117	.	.	44	35
EXPERIMENTAL/SD00-1391	117	.	.	43	.
EXPERIMENTAL/SD02-847	118	.	.	43	.
EXPERIMENTAL/SD00-405	110	.	.	41	.
EXPERIMENTAL/SD00-1455	118	.	.	40	.
EXPERIMENTAL/SD00-1962	118	.	.	39	.
EXPERIMENTAL/SDX98-74331	120	.	.	39	34
Test avg.:	115	41	34	43	35
High avg.:	120	45	36	52	35
Low avg. :	110	37	31	39	34
# Lsd (.05):		4	4	5	NS
## TPG-value:		41	32	47	34
@ Coef. Var.:		5	7	7	11
No. Entries:		9	4	11	2

* DTM= average days from seeding on May 25, 2005 to maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 8b. Non-Roundup Ready maturity group-0 and -I soybean variety protein, oil, and lodging score averages- South Shore, South Dakota, 2005.

Brand/Variety (By maturity group & protein)	DTM*	2005 Averages by Maturity Group					
		MG-0			MG-I		
		Protein %	Oil %	Lodging* (1-5)	Protein %	Oil %	Lodging** (1-5)
EXPERIMENTAL/SDX98-82302	115	42.5	14.5	2	.	.	.
EXPERIMENTAL/SD00-1501	112	40.7	15.7	1	.	.	.
EXPERIMENTAL/SDX98-76192	115	40.5	16.1	2	.	.	.
EXPERIMENTAL/SD99-1909	115	38.5	16.4	1	.	.	.
PUBLIC/SURGE	111	38.0	17.0	1	.	.	.
PUBLIC/HAMLIN	111	37.4	17.3	1	.	.	.
EXPERIMENTAL/SD02-829	112	36.9	16.8	1	.	.	.
EXPERIMENTAL/SD02-1045	117	36.9	17.0	1	.	.	.
PUBLIC/SPINK	110	35.2	18.0	1	.	.	.
EXPERIMENTAL/SDX98-74331	120	.	.	.	41.0	15.9	1
EXPERIMENTAL/SD00-1455	118	.	.	.	40.5	16.1	2
EXPERIMENTAL/SD00-1962	118	.	.	.	40.1	14.9	1
GOLD COUNTRY/2318	120	.	.	.	38.3	17.0	1
EXPERIMENTAL/SD00-1391	117	.	.	.	38.0	17.0	1
EXPERIMENTAL/SD00-405	110	.	.	.	37.9	16.8	1
EXPERIMENTAL/SD02-847	118	.	.	.	37.8	16.8	2
EXPERIMENTAL/SD00-632	118	.	.	.	37.5	16.0	2
EXPERIMENTAL/SD02-14	119	.	.	.	37.2	16.5	1
EXPERIMENTAL/SD00-533	117	.	.	.	36.7	16.9	1
EXPERIMENTAL/SD02-906	118	.	.	.	36.0	18.0	1
Test avg. :	115	38.5	16.5	1	38.3	16.5	1
High avg. :	120	42.5	18.0	2	41.0	18.0	2
Low avg. :	110	35.2	14.5	1	36.0	14.9	1
* Lsd(.05) :				1			
## TPG-avg. :				1			
@ Coef. Var. :				28			
No. Entries :		9	9	9	11	11	11

* DTM= average days from seeding on May 25, 2005 to maturity;

** Lodging, 1= all plants erect, 5= all plants flat.

Lsd,(.05)= amount values in a column must differ to be significantly different.

If differences among values within a column are non-significant (NS), NS is indicated.

TPG-avg. = minimum or maximum value to qualify for top performance group.

@ Coef. Var.= measure of trial experimental error.

Table 9a. Non-Roundup Ready maturity group-I & -II soybean variety yield averages- Beresford, South Dakota, 2004-2005.

Brand/Variety (By maturity group & 2005 yield)	DTM*	Averages by Maturity Group			
		MG-I		MG-II	
		Bu/Acre 2005	Bu/Acre 2-Yr	Bu/Acre 2005	Bu/Acre 2-Yr
LATHAM/L1840	126	52	60	.	.
LATHAM/L1763	123	48	58	.	.
EXPERIMENTAL/SD02-847	121	48	.	.	.
EXPERIMENTAL/SD02-906	123	48	.	.	.
EXPERIMENTAL/SD00-1962	123	47	.	.	.
EXPERIMENTAL/SD00-632	125	46	.	.	.
EXPERIMENTAL/SDX98-74331	125	45	50	.	.
EXPERIMENTAL/SD00-1391	121	44	.	.	.
EXPERIMENTAL/SD00-1455	121	44	.	.	.
EXPERIMENTAL/SD02-14	125	43	.	.	.
EXPERIMENTAL/SD00-533	122	36	45	.	.
EXPERIMENTAL/SD00-405	119	35	.	.	.
EXPERIMENTAL/SD02-22	126	.	.	48	.
SANDS/SOI 256	127	.	.	45	55
LATHAM/EXP-E2400	128	.	.	45	.
COYOTE/5525	133	.	.	43	56
EXPERIMENTAL/SD02-26	129	.	.	43	.
EXPERIMENTAL/SD98-99-2	129	.	.	42	54
SANDS/SOI 288	130	.	.	41	55
EXPERIMENTAL/SD00-314	125	.	.	41	46
EXPERIMENTAL/SD00-732	126	.	.	40	52
EXPERIMENTAL/SD00-1413	126	.	.	38	.
Test avg. :	125	45	53	43	53
High avg. :	133	52	60	48	56
Low avg. :	119	35	45	38	46
# Lsd (.05) :		7	9	5	NS
## TPG-avg. :		45	51	43	46
@ Coef. Var. :		10	8	7	6
No. Entries :		12	4	10	6

* DTM= average days from seeding on June 16, 2005 to maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 9b. Non-Roundup Ready maturity group-I & -II soybean variety protein, oil, and lodging score averages- Beresford, South Dakota, 2005.

Brand/Variety (By maturity group & protein)	DTM*	2005 Averages by Maturity Group					
		MG-I			MG-II		
		Protein %	Oil %	Lodging* (1-5)	Protein %	Oil %	Lodging** (1-5)
EXPERIMENTAL/SD00-1455	121	39.4	18.2	1	.	.	.
EXPERIMENTAL/SDX98-74331	125	39.0	17.4	1	.	.	.
EXPERIMENTAL/SD00-1962	123	38.3	17.2	1	.	.	.
EXPERIMENTAL/SD00-1391	121	37.1	18.7	2	.	.	.
EXPERIMENTAL/SD00-405	119	36.4	18.6	1	.	.	.
EXPERIMENTAL/SD02-847	121	35.9	18.3	1	.	.	.
LATHAM/L1840	126	35.8	19.1	1	.	.	.
EXPERIMENTAL/SD00-533	122	35.4	17.5	2	.	.	.
EXPERIMENTAL/SD00-632	125	35.3	17.8	1	.	.	.
EXPERIMENTAL/SD02-906	123	34.6	19.0	1	.	.	.
LATHAM/L1763	123	34.5	19.0	1	.	.	.
EXPERIMENTAL/SD02-14	125	34.2	18.3	2	.	.	.
EXPERIMENTAL/SD00-1413	126	.	.	.	38.3	17.5	1
EXPERIMENTAL/SD00-732	126	.	.	.	35.2	19.0	1
EXPERIMENTAL/SD02-26	129	.	.	.	35.2	17.5	1
LATHAM/EXP-E2400	128	.	.	.	35.1	19.0	1
EXPERIMENTAL/SD02-22	126	.	.	.	33.9	18.1	1
SANDS/SOI 256	127	.	.	.	33.8	18.9	1
COYOTE/5525	133	.	.	.	33.2	18.2	2
EXPERIMENTAL/SD00-314	125	.	.	.	32.8	20.0	1
EXPERIMENTAL/SD98-99-2	129	.	.	.	31.7	19.7	1
SANDS/SOI 288	130	.	.	.	31.1	18.4	1
Test avg. :	125	36.3	18.3	1	34.0	18.6	1
High avg. :	133	39.4	19.1	2	38.3	20.0	2
Low avg. :	119	34.2	17.2	1	31.1	17.5	1
* Lsd(.05) :				1			1
## TPG-avg. :				1			1
@ Coef. Var. :				35			23
No. Entries :		12	12	12	10	10	10

* DTM= average days from seeding on June 16, 2005 to maturity.

** Lodging, 1= all plants erect, 5= all plants flat.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum or maximum value to qualify for top performance group.

@ Coef. Var.= measure of trial experimental error.

Table E. Mailing addresses of seed companies entered in the 2005 soybean trials.

Company Name	Brand Name	Mailing Address
Coyote Seed Mills	Coyote	PO Box 16, Bridgewater, SD 57319-0016
Dairyland Seed Co.,Inc.	Dairyland	3570 Hwy H, West Bend, WI 53095
Dyna-Gro	Dyna-Gro	Emmetsburg, IA 50536
Foundation Seed Stocks	Sodak Genetics	Box 2207A, SDSU, Brookings, SD 57007
Farm Advantage	Farm Advantage	1275 Hwy 69, Belmont, IA 50421
Gold Country Seed Inc.	Gold Country	16506 Hwy 15 N., Hutchinson, MN 55350
Hefty Seed Co.	Hefty	47504 252nd St., Baltic, SD 57003
Integra Seed LTD	Integra	PO Box 40, Bozeman, MT 59771
Kaltenberg Seeds	Kaltenberg	5506 State Rd 19, Box 278, Waunakee, WI 53597
Keltgen Inc.	Agventure	302 Spruce St., Henry, SD 57243
Kruger Seed Co.	Kruger	33938 160th Ave.,PO Box A, Dike, IA 50624
Latham Seed Co.	Latham	131 180th St, Alexander, IA 50420-8028
Monsanto	Asgrow & Dekalb	4312 Carol Ave., Courtland, IL 60112
Mustang Seeds	Mustang	45122 Herman Blvd., Madison, SD 57042
Northstar Genetics	Northstar	Box 40, Wanamingo, MN 56553
Nutech Seed, LLC	Nutech	6131 North Fork Rd., Ames, IA 50010
Renk Seed Co.	Renk	6800 Wilburn Rd., Sun Prairie, WI 53590
Sansgaard Seed Farm, Inc.	Prairie Brand	15 X Ave., Story City, IA 50248
Sand Seed Service,Inc.	Sands	Box 648, Marcus, IA 51035
Seeds 2000	Seeds 2000	PO Box 200, Breckenridge, MN 56520
Stine Seed Co.	Stine	2225 Laredo Trail, Adel, IA 50003
Thompson Seeds	Thompson	40321 130th Ave., Leland, IA 50453
Thunder Seed	Thunder	3008 210th St. W., Hawley, MN 56549-9433
Wensman Seed Co.	Wensman	PO Box 190, Wadena, MN 56482
Ziller Seed Co.Inc.	Ziller	76374 380th St., Bird Island, MN 55310

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Variety Performance Trials-2006 Results



Tables for the 2006 Soybean Performance Trials

A	Nearest weather station accumulated precipitation values for 2006 and their departures from normal (DFN).....	7
B	<i>Phytophthora</i> root rot strain resistance according to gene.....	7
C	2006 Roundup Ready™ soybean entries by brand/variety, maturity group, and gene for <i>Phytophthora</i> root rot resistance as reported by the entrants; and performance table number(s).....	8
D	2006 Conventional soybean entries by brand/variety, maturity group, and gene for <i>Phytophthora</i> root rot resistance as reported by entrants; and performance table number(s).....	37
E	Mailing addresses of entrants in the 2006 soybean trials.....	44

Roundup Ready™ trial results

1a	Roundup Ready™ maturity group-0 soybean variety yield averages- northern South Dakota locations, 2005–2006.....	11
1b	Roundup Ready™ maturity group-0 soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2006.....	13
2a	Roundup Ready™ maturity group-I soybean variety yield averages- northern South Dakota locations, 2005–2006.....	15
2b	Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2006.....	17
3a	Roundup Ready™ maturity group-0 soybean variety yield averages- central South Dakota locations, 2005–2006.....	19
3b	Roundup Ready™ maturity group-0 soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2006.....	20
4a	Roundup Ready™ maturity group-I soybean variety yield averages- central South Dakota locations, 2005–2006.....	21
4b	Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2006.....	23
5a	Roundup Ready™ maturity group-II soybean variety yield averages- central South Dakota locations, 2005–2006.....	25
5b	Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2006.....	27
6a	Roundup Ready™ maturity group-I soybean variety yield averages- southern South Dakota locations, 2005–2006.....	29
6b	Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2006.....	30
7a	Roundup Ready™ maturity group-II soybean variety yield averages- southern South Dakota locations, 2005–2006.....	31
7b	Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2006.....	34

Conventional trial results

8a	Non-Roundup Ready™ maturity group-0 and -I soybean variety yield averages- South Shore, South Dakota, 2005–2006.....	38
8b	Non-Roundup Ready™ maturity group-0 and -I soybean variety protein, oil, and lodging score averages- South Shore, South Dakota, 2006.....	39
9a	Non-Roundup Ready™ maturity group-0, -I & -II soybean variety yield averages- Brookings, South Dakota, 2005–2006.....	40
9b	Non-Roundup Ready™ maturity group-0, -I & -II soybean variety protein, oil, and lodging score averages- Brookings, South Dakota, 2006.....	41
10a	Non-Roundup Ready™ maturity group-I & -II soybean variety yield averages- Beresford, South Dakota, 2005–2006.....	42
10b	Non-Roundup Ready™ maturity group-I & -II soybean variety protein, oil, and lodging score averages- Beresford, South Dakota, 2006.....	43

**EC 775—Precision Planted Soybeans 2006 Crop Performance Results
is available electronically on the internet
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SOYBEAN

Variety Performance Trials-2006 Results

Robert G. Hall, Extension agronomist - crops/Manager - crop testing
 Kevin K. Kirby, Agricultural research manager - crop testing

- Table A - Nearest station precipitation and temperature averages and departures from normal for 2006.
- Table B - Description of test locations.
- Table C - Gene race resistance to *Phytophthora* root rot.
- Table D - Roundup Ready™ entries with yield table numbers.
- Table E - Non-Roundup Ready™ entries with yield table numbers.
- Table F - Entrants (brand name) mailing addresses (after yield tables).

Successful soybean production is greatly affected by variety selection for a given growing area. This publication reports the agronomic performance of entries in the 2006 South Dakota performance trials for conventional and Roundup Ready™ soybean varieties. Important factors in variety selection include yield, maturity, plant height, lodging resistance, and *Phytophthora* root rot resistance. In the case of public varieties, additional information including emergence, shattering, and iron chlorosis scores (Table A) are available to assist in making variety selections.

General

Soybean varieties are classified according to maturity groups that are adapted to maturity zones. Maturity zones are based on day length and are therefore greatly impacted by latitude. Consequently, maturity group-00 varieties are best suited to Canada and bordering regions of the U.S., while maturity group-0, group-I, and group-II varieties are suited to South Dakota. Groups III through VIII are suited to Iowa, Nebraska, and southward into Texas.

These soybean performance trial results are reported according to the prevalent maturity zones in South Dakota (see map). The Roundup-Ready™ soybean variety trials are conducted in the following test zones and locations:

Northern test zone: Maturity group-0 and -I trials at South Shore and Warner.

Central test zone: Maturity group-0, -I, and -II trials at Brookings and Bancroft.

Southern test zone: Maturity group-I and -II trials at Beresford and Geddes.

The conventional soybean variety trials are only conducted on SDSU affiliated research farms and locations:

NE Research Farm, South Shore, maturity group-0 and -I trials.

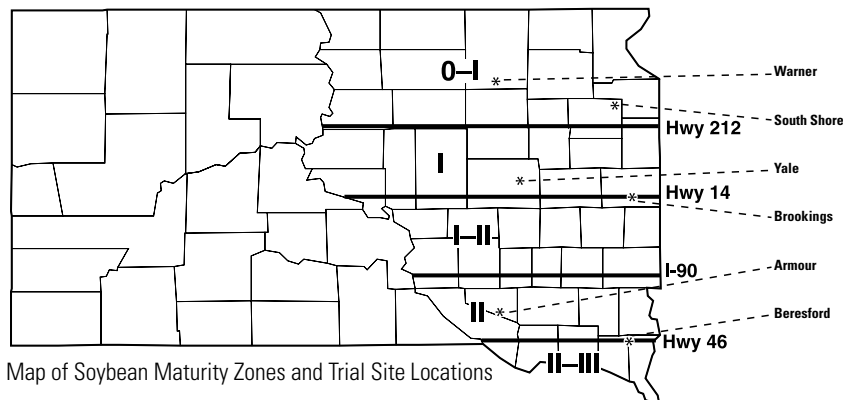
Plant Science Research Farm, Brookings, maturity group-0, -I, and -II trials

Southeast South Dakota Experiment Station, Beresford, maturity group-I and -II trials.

Note there are transition areas where varieties of two maturity groups may perform similarly. In such cases other factors like rainfall and/or elevation may moderate the effect of latitude on maturity. In most cases, an earlier maturity group may be seeded in a zone suited to a later maturity group. Generally, this is only practical if seeding is delayed, when reseeding following hail, or if double cropping.

Phytophthora root rot (PRR) is an important soybean disease in South Dakota and is often controlled or managed by using resistant varieties. However, the resistance to *Phytophthora* root rot is fungus-race specific. This means resistance to one race does not necessarily impart resistance to other races. Knowledge of the races of PRR fungus prevalent in your area is helpful. If a field is suspected of having PRR and the specific race(s) involved is unknown, then selection of varieties having genes that impart a wide range of race resistance is strongly suggested (see discussion of *Phytophthora* under General Test Procedures).

An alternative method of control is the use of “tolerant varieties.” Tolerant varieties are not resistant to PRR in the seedling stage. Therefore, a *Phytophthora* specific fungicide must be applied to protect them. Presently, we have no information on



Map of Soybean Maturity Zones and Trial Site Locations

the field tolerance of varieties adapted to this region. Therefore, field tolerance ratings are not given in this publication.

Certified seed is the best source of seed and the only way to be assured of the genetic purity of the variety seeded. In addition, inoculation of seed with the appropriate nitrogen-fixing bacterium is a good fundamental practice. Inoculation must be practiced if soybeans are seeded in soils not previously planted to soybeans. On soils previously cropped to soybeans there is no guarantee that beneficial bacteria will be present to naturally inoculate planted seed. Therefore, inoculation of seed at planting is an inexpensive means of increasing the percentage of plants that will fix nitrogen in the current crop year.

Yield

Yields are obtained from the South Dakota Crop Performance Testing Program (CPT). Current-year yields are included for each entry tested at a given location. In addition, 2-year averages are included where varieties have been tested for 2 years. Yields, test averages, and least significant difference (Lsd) values are printed at the bottom of each yield column for each location and are rounded off to the nearest bushel.

The Lsd value can be used to determine whether varieties differ in yield potential. For example, assume Variety A yields 30 bushels, Variety B yields 25 bushels, and the calculated Lsd value is 4 bushels. The yield difference between varieties A and B is 5 bushels per acre. Since the yield difference of 5 bushels is greater than the test Lsd value of 4 bushels, the yield of Variety A (30 bushels) is significantly higher than the yield of Variety B (25 bushels). In contrast, if Variety A yielded 28 bushels and Variety B yielded 25 bushels, the yield difference would be 3 bushels per acre. In this case, both varieties would have a similar yield because their yield difference of 3 bushels was less than the test Lsd value of 4 bushels per acre.

Use Lsd values to identify the best-yielding varieties. The Lsd value indicated at the bottom of each yield column is used to calculate the **minimum top yield value**. For example, if the highest yield within a column is 50 bushels and the Lsd value for that yield column is 5 bushels, then the minimum top yield value equals 45 bushels ($50 - 5 = 45$). Within a yield column, varieties with yields equal to or higher than this minimum top yield value are the best yielding varieties.

Entries in all tables are sorted from highest to lowest values according to the variable(s) listed in the Brand/Variety column of each performance table. Note: Entries tested for 2 years may also have a top yield group value in the 2006 yield column.

Participating companies pick the locations where their entries are tested. Entries are placed into maturity group-0, -I, or -II test trials. The company selects the maturity group trial for its entries at each location.

Generally, each company has one or more maturity group checks for the varieties it markets. However, there are no standard regional or national check varieties for maturity. Consequently, a late group-I variety from one company may be similar in maturity to an early group-I variety from another company because they use different check varieties for maturity. As a result, this testing program can not guarantee that all entries are placed in the proper maturity trial. In some trials, borderline entries with maturity group ratings at or near the arbitrary breaks between the late group-0s and early group-Is and between the late group-Is and early-group-IIs may crossover at a given location.

When evaluating the performance of any entry in a given trial it is strongly suggested that you also note the reported maturity of the entry. Since all entries at a given location are seeded the same day then you can compare the relative difference in maturity (days after maturity) between varieties. If the maturity rating for an entry in a group-I test is similar to the rating for a variety in the group-II test at the same test location, then you might conclude they are similar in maturity regardless of their company maturity rating.

It is recommended that you use caution when comparing the maturity rating of a given variety from one location to the rating obtained at other locations. Should early season soil moisture and soil temperature values differ greatly, then maturity rating may differ between locations; therefore, maturity comparisons of a variety over many locations may be misleading.

The efforts of J. Smolik and A. Heuer, NE Research Farm, South Shore; T. Bortnem and staff, Plant Science Research Farm, Brookings; and R. Berg and staff, Southeast Experiment Farm, Beresford, in obtaining the data is gratefully acknowledged. The comments regarding *Phytophthora* root rot race resistance and tolerance by Marty Draper, Extension plant pathologist are appreciated.

In addition, the assistance and cooperation of our farmer co-operators, Allen and Inel Ryckman, Warner; Curtis Sybesma, Geddes; and Erland Weerts, Bancroft, is gratefully acknowledged.

Protein and Oil Content

The protein and oil values reported are for the 2006 cropping season. At all locations, one subsample from each replication (three subsamples total) of every variety in each trial was combined and a sample was then tested for protein and oil. The analysis was conducted using a FOSS TECATOR Model Infratec 1229 grain analyzer that was calibrated using the manufacturer's calibration software. Samples of known protein and oil that had been tested by the SDSU Agricultural Experiment Station Biochemistry Laboratory were then used to verify the software calibration. All protein and oil values are adjusted to a 13% moisture basis.

Weather and Seasonal Precipitation

A best estimate of seasonal precipitation and its distribution is shown in Table A. Growing season precipitation was near normal at all locations in April. However, most locations received below-average rainfall starting in May and continuing through the end of July. In August many locations received normal to above-average levels of rainfall, but in most cases this rainfall came during the latter half of August.

At some locations like Brookings, the later maturity group varieties performed better than the early maturity varieties because they caught a rainfall before development of their early reproductive stages had ceased. Consequently, the later-season varieties were unable to compensate for any earlier season losses in yield potential while the early season varieties that had already ceased reproductive development were unable to compensate for losses in yield potential.

Generally, the average seasonal temperatures were warmer than normal in April and near normal in May. At Aberdeen and Huron, the seasonal temperatures were about 2°F higher than average in June. In July, average temperatures ranged from a low of 3.3°F at Beresford and Brookings to 5.5 (Academy) and 6.6°F (Huron) above the long-term location average.

General Test Procedures

These test procedures generally apply to both conventional non-Roundup Ready and Roundup Ready™ soybean entries except for the chemical weed control imposed. Trial locations, soil type, tillage method, previous crop, pesticide usage, and seeding dates are indicated in Table B.

Test Procedures: A row spacing of 30 inches was used at all locations. The seeding rate was 165,000 seeds per acre for all varieties and locations. Test plots consisted of 4-row plots, 20 feet long, with three replications at all locations. Seeding at all locations was accomplished with a Monosem precision row crop planter. The use of this planter this year resulted in very uniform seed spacing within the seed row. The center two rows of each plot were harvested for yield.

Yield: Plots were harvested at 15% seed moisture or less. Yields were calculated on a 13% moisture content basis and expressed in bushels per acre. Harvest was by a Massey Ferguson 8XP small plot combine.

Reporting variety maturity: Variety maturity is reported as “Days to maturity” or DTM. Entries were mature when 95% of

the pods had turned brown. Each maturity value is obtained by determining the average number of days from seeding to maturity for two replicates. If the DTM value is missing, the entry did not reach maturity before the first killing frost and no value is given.

Lodging Score: Scores at maturity are based on average erectness of the main stem of plants within each variety. 1 = all plants erect, 2 = slight lodging, 3 = lodging at a 45 degree angle, 4 = severe lodging, and 5 = all plants flat.

Phytophthora: The gene resistance traits of entries to the many *Phytophthora* races was supplied by the participating seed company (proprietary entries) or obtained from the USDA, Uniform Soybean Tests, Northern States (public entries). A key for each type of *Phytophthora* gene and the race resistance it imparts to a variety is indicated in Table C. The specific race resistance to PRR for a given variety, as reported by the seed company, can be determined by noting the type of *Phytophthora* gene in tables D (Roundup Ready™) and E (non-Roundup Ready) and referencing the gene type to table C to find the final race resistance. Presently, races 1, 3, and 4 are the most common races in South Dakota.

ROUNDUP READY™ SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS

Note: Yields are reported as 2006 averages or 2-year averages (2005-06).

NORTHERN TEST ZONE

SOUTH SHORE, Northeast Research Farm
WARNER, No-till, Allen & Inel Ryckman Farm (cooperators)

South Shore, Group-0 (Tables 1a & 1b): The 2006 and 2-year test yield averages were 30 and 40 bushels per acre, respectively (Table 1a). Varieties had to average 30 bushels or higher to be in the top yield group for 2006. Varieties had to average 36 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 5 bushels in 2006 to be significantly different, while yield averages for 2 years were not significantly different. The 2006 protein, oil, and lodging score test averages were 37.1%, 18.9% and 1, respectively (Table 1b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not differ among entries.

Warner, Group-0 (Tables 1a & 1b): The 2006 and 2-year test yield averages were 33 and 42 bushels per acre, respectively (Table 1a). Varieties had to average 36 bushels or higher to be in the top yield group for 2006. Varieties had to average 39 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 4 bushels in 2006 to be significantly different, while yield averages for 2 years were not significantly different. In 2006, the protein, oil, and lodging score test averages were 36.2%, 19.7%, and 1, respectively (Table 1b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not differ among entries.

Northern test zone, Group-0 (Tables 1a & 1b): The 2006 and 2-year test yield averages in the northern zone were 32 and 41 bushels per acre, respectively (Table 1a). Varieties had to average 36 bushels or higher to be in the top yield group for 2006 and 42 bushels or higher to be in the top yield group for 2 years.

Variety yield averages had to differ by 3 bushels in 2006 to be significantly different. The 2006 protein, oil, and lodging score test averages were 36.6%, 19.3%, and 1, respectively, across both locations (Table 1b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not differ among entries across both locations.

South Shore, Group-I (Tables 2a & 2b): The 2006 and 2-year test yield averages were 27 and 37 bushels per acre, respectively (Table 2a). Varieties had to average 28 bushels and 34 bushels or higher to be in the top yield group for 2006 and for 2 years, respectively. Variety yield averages had to differ by 4 bushels in 2006 to be in the top performance group for yield, while the 2-year averages were not significantly different. The 2006 protein, oil, and lodging score test averages were 37.0%, 18.2%, and 1, respectively (Table 2b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not differ among entries.

Warner, Group-I (Tables 2a & 2b): The 2006 and 2-year test yield averages were 34 and 42 bushels per acre, respectively (Table 2a). Varieties had to average 24 bushels and 36 bushels or higher to be in the top yield group for 2006 and for 2 years, respectively. Variety yield averages had to differ by 5 bushels in 2006 to be significantly different, while the yield averages for 2 years did not differ significantly. The 2006 protein, oil, and lodging score test averages were 36.1%, 19.5%, and 1, respectively (Table 2b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not differ among entries.

Northern test zone, Group-I (Tables 2a & 2b): The yield averages were 31 and 40 bushels per acre for 2006 and for 2 years, respectively (Table 2a). Varieties had to average 33 bushels or higher in 2006 to be in the top yield group. Yield differences for 2 years could not be determined because of the high coefficient of variation (CV) of 29% for this zone. The high level of experimental error associated with this trial for 2 years indicated

any yield differences among varieties were not valid. Variety yield averages had to differ by 3 bushels in 2006 to be significantly different from one another. Again, the high CV associated with the 2-year yields prevented a valid determination of how much any two varieties had to differ in yield to be significantly different across both locations. The 2006 protein, oil, and lodging score test averages were 36.5%, 19.1%, and 1, respectively, across both locations (Table 1b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries across both locations.

CENTRAL TEST ZONE

BROOKINGS, Plant Science Research Farm
BANCROFT, No-till, Erland Weerts (cooperator)

Note: The Bancroft trials were hit with hail on July 13, 2006. This resulted in 40-50% defoliation of the stands.

Brookings, Group-0 (Tables 3a & 3b): The 2006 and 2-year test yield averages were 51 and 58 bushels per acre, respectively (Table 3a). Varieties had to average 53 bushels or higher to be in the top yield group for 2006. Varieties had to average 57 bushels or higher to be in the top yield group for 2 years. Variety yield averages had to differ by 5 bushels in 2006 and for 2 years to be significantly different. The 2006 protein, oil, and lodging score test averages were 37.3%, 19.0%, and 1, respectively (Table 3b). Lodging score averages had to equal 1 to be in the top performance group. The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

Bancroft, Group-0 (Tables 3a & 3b): The yield average was 45 for 2006 and 55 bushels for 2 years (Table 3a). Varieties had to average 43 and 51 bushels or higher to be in the top yield group for 2006 and for 2 years, respectively. Variety yield averages had to differ by 5 bushels in 2006 to be significantly different. In contrast, there were no significant yield differences among the varieties for the 2-year period. The 2006 protein, oil, and lodging score test averages were 36.3%, 19.9%, and 1, respectively (Table 3b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

Central test zone, Group-0 (Tables 3a & 3b): The 2006 yield average was 48 bushels and the 2-year average was 57 bushels per acre (Table 3a). Varieties had to average 49 and 52 bushels or higher to be in the top yield group for 2006 and for 2 years, respectively. Variety yield averages had to differ by 4 bushels in 2006 to be significantly different, while for the 2-year period all the varieties had a similar yield average across both locations. In 2006 the protein, oil, and lodging score test averages were 36.8%, 19.4%, and 1, respectively, across both locations (Table 3b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries across both locations.

Brookings, Group-I (Tables 4a & 4b): The 2006 and 2-year test yield averages were 54 and 61 bushels per acre, respectively (Table 4a). Varieties had to average 55 and 62 bushels or higher to be in the top yield group for 2006 and for 2 years, respectively. Variety yield averages had to differ by 5 bushels in 2006 and 3 bushels for 2 years to be significantly different. The 2006 protein, oil, and lodging score test averages were 36.2%, 18.9%, and 1,

respectively (Table 4b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

Bancroft, Group-I (Tables 4a & 4b): The yield average was 54 and 60 bushels per acre for 2006 and for 2 years, respectively (Table 4a). In both 2006 and for 2 years there were no significant yield differences among the varieties tested. This was likely affected greatly by the hail at this test site on July 13, 2006, resulting in a 40 to 50% loss of leaves. This would have affected the ability of the test to determine any difference in yield among the varieties entered in 2006 and in the 2-year period. In 2006, the protein, oil, and lodging score test averages were 35.9%, 19.9%, and 1, respectively (Table 4b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

Central test zone, Group-I (Tables 4a & 4b): The yield average was 55 and 61 bushels per acre in 2006 and for 2 years, respectively (Table 4a). Varieties had to average 53 and 55 bushels or higher to be in the top yield group for 2006 and for 2 years, respectively. Variety yield averages had to differ by 7 bushels in 2006 to be significantly different; while there was no significant difference in yield average among the varieties for 2 years. The 2006 protein, oil, and lodging score test averages were 36.1%, 19.4%, and 1, respectively, across both locations (Table 4b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries across both locations.

Brookings, Group-II (Tables 5a & 5b): The 2006 and 2-year test yield averages were 56 and 63 bushels per acre, respectively (Table 5a). Varieties had to average 57 bushels or higher in 2006 and 61 bushels or higher for 2 years to be in the top yield group. In 2006, the protein, oil, and lodging score test averages were 36.4%, 18.9%, and 1, respectively (Table 5b). Lodging score averages had to be 2 or less to be in the top performance group. The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

Bancroft, Group-II (Tables 5a & 5b): Yield average was 52 and 62 bushels per acre in 2006 and for 2 years, respectively (Table 5a). Varieties had to average 43 bushels or higher to be in the top yield group for 2006. In both years there were no significant yield differences among the varieties tested. This was likely caused by the hail at this test site on July 13, 2006. The 40 to 50% loss of leaves would have affected the ability of the test to determine any difference in yield among the varieties entered in 2006 and for the 2-year period. The 2006 protein, oil, and lodging score test averages were 36.1%, 19.5%, and 1, respectively (Table 5b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

Central test zone, Group-II (Tables 5a & 5b): The 2006 yield average was 55 and 63 bushels per acre for 2006 and for 2 years, respectively (Table 5a). Yield differences among varieties were not significant for 2006 or for the 2-year period. This lack of yield difference across both locations was likely affected by the hail event at Bancroft in 2006. In 2006, the protein, oil, and lodging score test averages were 36.2%, 19.2%, and 1, respectively, across both locations (Table 5b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries across both locations.

SOUTHERN TEST ZONE

BERESFORD, South Dakota Agricultural Experiment Station
Farm

GEDDES, No-till, Curtis Sybesma (cooperator)

Note: The test site at Delmont in 2005 was moved to Geddes in 2006.

Beresford, Group-I (Tables 6a & 6b): The 2006 and 2-year test yield averages were 61 and 56 bushels per acre, respectively (Table 6a). Varieties had to average 62 bushels or higher to be in the top yield group. There were no significant yield differences among varieties for 2 years so all varieties were in the top yield group. Variety yield averages had to differ by 5 bushels in 2006 to be significantly different from one another. The 2006 protein, oil, and lodging score test averages were 36.6%, 19.7%, and 2, respectively (Table 6b). Lodging was evident and entries with a lodging score of 2 or less were in the top performance group for resistance to lodging.

Geddes, Group-I (Tables 6a & 6b): The 2006 and 2-year test yield averages were 46 and 36 bushels per acre, respectively (Table 6a). Varieties had to average 48 bushels or higher in 2006 and 35 bushels or higher for 2 years to be in the top yield group. Variety yield averages had to differ by 4 bushels in 2006 and 6 bushels for two years to be significantly different. The 2006 protein, oil, and lodging score test averages were 36.9%, 19.7%, and 1, respectively (Table 6b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

Southern test zone, Group-I (Tables 6a & 6b): The 2006 and 2-year test yield averages in the Southern zone were 53 and 46 bushels per acre, respectively (Table 6a). Varieties had to average 57 bushels or higher in 2006 to be in the top yield group; while there were no significant yield differences among varieties for 2 years. Variety yield averages had to differ by 3 bushels in 2006 to be significantly different. In contrast, for the 2-year period a high CV indicated there was too much experimental error associated with the 2-year data across both locations to make a valid determination of yield differences among the entries. The 2006 protein, oil, and lodging score test averages were 36.8%, 19.7%, and 1, respectively, across both locations (Table 6b). The lodging

score average of 1 and Lsd value of 0.4 (less than 1) indicated that some lodging occurred and those entries with a score of 1 were in the top performance group for resistance to lodging.

Beresford, Group-II (Tables 7a & 7b): The 2006 and 2-year test yield averages were 63 and 59 bushels per acre, respectively (Table 7a). Varieties had to average 69 bushels or higher in 2006 and 60 bushels for 2 years to be in the top yield group. Variety yield averages had to differ by 7 bushels in 2006 and 6 bushels for 2 years to be significantly different. The 2006 protein, oil, and lodging score test averages were 36.4%, 19.3%, and 2, respectively (Table 7b). The lodging score top performance group value of 2 indicates varieties with a score of 2 or less were in the top group for lodging resistance.

Geddes, Group-II (Tables 7a & 7b): The 2006 and 2-year test yield averages were 45 and 36 bushels per acre, respectively (Table 7a). Varieties had to average 46 bushels or higher in 2006 and 36 bushels or higher for 2 years to be in the top yield group. Variety yield averages had to differ by 4 bushels in both 2006 and for 2 years to be significantly different. The 2006 protein, oil, and lodging score test averages were 36.5%, 19.5%, and 1, respectively (Table 7b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

Southern test zone, Group-II (Tables 7a & 7b): The 2006 and 2-year test yield averages in the Southern zone were 54 and 48 bushels per acre, respectively (Table 7a). Varieties had to average 58 bushels or higher in 2006 to be in the top yield group. Variety yield averages had to differ by 4 bushels in 2006 to be significantly different from one another. Valid yield differences for the 2-year period across both locations could not be determined. The high CV of 19% indicated there was too much experimental error associated with this trial to make valid determinations. Therefore, growers are encouraged to look at both the 2006 and the 2-year yield averages at each location separately to evaluate average yield trends at a given location. The 2006 protein, oil, and lodging score test averages were 36.4%, 19.4%, and 1, respectively across both locations (Table 7b). The lodging score average of 1 and Lsd value of 0.4 (less than 1) indicated that some lodging occurred and those entries with a score of 1 were in the top performance group for lodging resistance.

NON-ROUNDUP READY SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS

SOUTH SHORE, Northeast Research Farm
BERESFORD, South Dakota Agricultural Experiment Station
Farm

Note: Yields are reported as 2006 averages or 2-yr averages (2005-06).

South Shore, Group-0 (Tables 8a & 8b): The 2006 and 2-year test yield averages were 24 and 33 bushels per acre, respectively (Table 8a). Varieties had to average 28 bushels or higher in 2006 and 33 bushels or higher for 2 years to be in the top yield group. Variety yield averages had to differ by 3 bushels in 2006 to be significantly different; while there were no significant differences in yield among the varieties tested 2 years. The 2006 protein, oil, and lodging score test averages were 37.3%, 18.9%, and 1, respectively (Table 8b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

South Shore, Group-I (Tables 8a & 8b): The 2006 and 2-year test yield averages were 23 and 34 bushels per acre, respectively (Table 8a). Varieties had to average 23 bushels or higher in 2006 and 33 bushels or higher for 2 years to be in the top performance group for yield. Variety yield averages had to differ by 3 bushels or more in 2006 to be significantly different. There was no difference in yield among the three varieties tested for 2 years. The 2006 protein, oil, and lodging score test averages were 36.3%, 19.0%, and 1, respectively (Table 8b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

Brookings, Group-0 (Tables 9a & 9b): The 2006 test yield average was 37 bushels per acre (Table 9a). Varieties had to average 36 bushels or higher in 2006 to be in the top yield group. The 2006 protein, oil, and lodging score test averages were 37.3%, 19.0%, and 1, respectively (Table 9b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries at this location.

Brookings, Group-I (Tables 9a & 9b): The 2006 test yield average was 45 bushels per acre (Table 9a). Varieties had to

average 46 bushels or higher in 2006 to be in the top performance group for yield. Variety yield averages had to differ by 6 bushels or more in 2006 to be significantly different. The 2006 protein, oil, and lodging score test averages were 36.6%, 18.8%, and 1, respectively (Table 9b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

Brookings, Group-II (Tables 9a & 9b): The 2006 and 2-year test yield averages were 48 bushels per acre (Table 9a). Varieties had to average 46 bushels or higher in 2006 to be in the top yield group. Variety yield averages had to differ by 6 bushels in 2006 to be significantly different. The 2006 protein, oil, and lodging score test averages were 36.4%, 18.5%, and 1, respectively (Table 9b). The lodging score average of 1 and Lsd value of 0 indicated lodging did not occur and did not differ among entries.

Beresford, Group-I (Tables 10a & 10b): The 2006 and 2-year test yield averages were 55 and 52 bushels per acre, respectively (Table 10a). Varieties had to average 55 bushels or higher in 2006 and 52 bushels or higher for 2 years to be in the top performance group for yield. Variety yield averages had to differ by 5 bushels in 2006 to be significantly different, while there were no significant yield differences among the entries for 2 years. The 2006 protein, oil, and lodging score test averages were 36.4%, 19.8%, and 3, respectively (Table 10b). The lodging score top performance group value of 2 indicates varieties with a score of 2 or less were in the top group for lodging resistance.

Beresford, Group-II (Tables 10a & 10b): The 2006 and 2-year test yield averages were 61 and 52 bushels per acre, respectively (Table 10a). Varieties had to average 62 bushels or higher in 2006 and 50 bushels or higher for 2 years to be in the top performance group for yield group. Variety yield averages had to differ by 6 bushels in 2006 to be significantly different. There was no difference in yield average between the varieties tested for 2 years. The 2006 protein, oil, and lodging score test averages were 36.6%, 19.3%, and 2, respectively (Table 10b). The lodging score top performance group value of 2 indicates varieties with a score of 2 or less were in the top group for lodging resistance.

Table A. Nearest weather station accumulated precipitation accumulation and average daily temperatures for 2006 and their departures from normal (DFN)

Source: South Dakota Office of Climate and Weather.

Station	Variable		Data is accumulated from April up to the day ending:					Sept. 30
			Apr. 30	May 31	June 30	July 31	Aug. 31	
Aberdeen Airport	Precip.-in	06	2.41	2.16	3.21	0.71	2.47	2.67
		DFN*	0.58	-0.53	-2.8	-2.21	0.07	0.86
	Avg.Temp.-	06	51	58	69	77	72	57
		DFN*	5.6	0.1	2.2	4.8	1.5	-2.8
South Shore (NE Farm)	Precip.-in	06	2.53	1.99	0.95	0.83	1.93	5.66
		DFN*	0.53	-0.73	-2.88	-0.244	0.53	3.77
	Avg.Temp.-	06	48	56	66	73	69	58
		DFN*	5	0.2	1.3	3.3	1.2	-0.1
Iroquois**/ Huron***	Precip.-in	06	1.73	0.98	1.3	0.6	5.68	4.61
		DFN*	0.51	-1.89	-2.06	2.53	3.6	2.59
	Avg.Temp.-	06	53	59	70	80	74	58
		DFN*	6.9	0.8	2.1	6.6	13	10.1
Brookings 2NE	Precip.-in	06	2.65	2.02	2.35	0.23	5.65	4.09
		DFN*	0.62	-0.93	-1.88	-2.88	2.71	1.61
	Avg.Temp.-	06	49	58	67	74	69	55
		DFN*	4.8	1.3	0.9	3.3	0.4	-4.1
Centerville (SE Farm)	Precip.-in	06	3.44	1.51	3.72	0.39	3.23	7.81
		DFN*	0.97	-2.14	-0.23	-2.96	0.4	5.55
	Avg.Temp.-	06	53	61	70	77	72	53
		DFN*	5.8	0.5	0.6	3.3	9.7	8.3
Platte**/ Academy**	Precip.-in	06	3.62	0.89	2.36	0.47	2.35	NA
		DFN*	1.01	2.91	1.05	-2.69	0.12	-
	Avg.Temp.-	06	52	60	70	79	73	58
		DFN*	6.5	2.4	2.6	5.5	1.6	-3.7

* DFN - how much a variable for year 2006 is greater or less (-) than the long-term average.

** Precipitation data.

*** Temperature data.

Table B. Description of trial locations- soil type, tillage methods, previous crop, pesticides used, and seeding dates.

Location (County)	Soils & Management		Previous crop	Herbicides				Nitragin Soybean Soil Implant	Date seeded
	Type	Tillage Method		Roundup Ready		Non- Roundup Ready				Down seed tube at label rate
				Pre	Post	Pre	Post		
Warner (Brown)	Harmony-Aberdeen silty clay loam, 0-2% slope	No-till	Corn	None	Roundup once	-	-	Yes	May 26
South Shore (Codington)	Kransburg silty clay loam, 3-6% slope	Conventional	S. Wheat	None	Roundup twice	None	Harmony/ Poast - split	Yes	May 23
Bancroft (Kingsbury)	Houdek-Stickney-Tetonka loam, 0-3% slope	No-till	Corn	None	Roundup once	-	-	Yes	May 30
Brookings (Brookings)	Barnes clay loam, 0-2% slope	Conventional	S. Wheat	None	Roundup twice	None	Harmony/ Poast/ Basagran split	Yes	May 22
Geddess (Chas. Mix)	Highmore-Walke silt loam, 0-2% slope	No-till	Corn	None	Roundup once	-	-	Yes	May 25
Beresford (Clay)	Egan-Clarno-Trent silty clay loam, 0-2% slope	Conventional	Corn	Dual-Python tank mix	Roundup once	Dual-Python tank mix	None	Yes	May 17

Table C. 2006 Roundup Ready™ soybean entries by brand/variety, maturity group, and gene for *Phytophthora* root rot resistance as reported by the entrants; and performance table number(s).

Brand / Variety	Mat. Grp.	Gene	Table No. (s)	Brand / Variety	Mat. Grp.	Gene	Table No. (s)
AGVENTURE/ AV11T1RR	1.0	Rps1k	2	FARM ADVANTAGE/ 7224	2.2	Rps1 (Rps1a)	7
AGVENTURE/ AV14D6	1.4	Not Reported	2	FARM ADVANTAGE/ 7253	2.5	Rps1c	7
AGVENTURE/ AV15D7	1.5	Not Reported	2	GOLD COUNTRY SEED/ 2509R	0.9	Not Reported	1
AGVENTURE/ AVEXP09D1	0.9	Not Reported	1	GOLD COUNTRY SEED/ 2713R	1.3	Rps1k	2,4
AGVENTURE/ AVEXP10G9	1.0	Not Reported	2	GOLD COUNTRY SEED/ 8716R	1.6	Rps1k	2,4
ASGROW/ AG0803	0.8	Rps1k	1	GOLD COUNTRY SEED/2717NR	1.7	Rps1c	6
ASGROW/ AG1002	1.0	rps1 - No resist.	2	GOLD COUNTRY SEED/6714NR	1.4	Not Reported	2
ASGROW/ AG1102	1.1	Rps1k	2,4	HEFTY/ 195RR	1.9	rps1 - No resist.	4,6
ASGROW/ AG1702	1.7	Rps1k	2,4,6	HEFTY/ 226RR	2.2	Rps1 (Rps1a)	5,7
ASGROW/ AG1903	1.9	Rps1k	4,6	HEFTY/ 266RR	2.6	Rps1c	7
ASGROW/ AG2002	2.0	Rps1c	5	HEFTY/ EXP067RR	0.6	rps1 - No resist.	1
ASGROW/ AG2107	2.1	Rps1k	5	HEFTY/ EXP117RR	1.0	rps1 - No resist.	2
ASGROW/ AG2403	2.4	Rps1k	7	HEFTY/ EXP137RR	1.3	Rps1k	2,4
ASGROW/ AG2605	2.6	Rps1k	7	KALTENBERG/ KB135RR	1.3	Rps1c	4
ASGROW/ AG2802	2.8	Rps1k	7	KALTENBERG/ KB155RR	1.5	Rps1k	4
COYOTE/ 4523RR	2.3	Rps1k	5,7	KALTENBERG/ KB256RR	2.5	Rps1k	7
COYOTE/ 4527RR	2.7	Rps1k	5,7	KALTENBERG/ KB258RR	2.5	rps1 - No resist.	7
COYOTE/ 4719RR	1.9	Rps1k	4,6	KALTENBERG/ KB266RR	2.5	rps1 - No resist.	7
COYOTE/ 9524RR	2.4	Rps1k	5,7	KALTENBERG/ KB276RR	2.7	Rps1k	7
COYOTE/ EXP 622RR	2.2	Rps1 (Rps1a)	5,7	KRUGER/ EXP057RR	0.5	Rps1 (Rps1a)	1,3
COYOTE/ EXP 625NRR	2.5	rps1 - No resist.	5,7	KRUGER/ EXP067RR	0.9	rps1 - No resist.	1,3
COYOTE/ EXP 626RR	2.6	Rps1k	5,7	KRUGER/ EXP086RR	0.8	Rps1k	1
CROW'S/ C0520R	0.5	rps1 - No resist.	1	KRUGER/ EXP186RR	1.8	rps1 - No resist.	4
CROW'S/ C1106R	1.1	Rps1k	2	KRUGER/ EXP226RR	2.2	Rps1 (Rps1a)	5
CROW'S/ C1706R	1.7	Rps1k	4	KRUGER/ K-042RR	0.4	Rps1 (Rps1a)	1
CROW'S/ C2618R	2.6	rps1 - No resist.	7	KRUGER/ K-056RR	0.6	Rps1 (Rps1a)	1,3
CROW'S/ C2917R	2.9	rps1 - No resist.	7	KRUGER/ K-072RR	0.7	rps1 - No resist.	1,3
DAIRYLAND/ DSR-0701/RR	0.7	Rps1k	1	KRUGER/ K-098RR	0.9	rps1 - No resist.	1,3
DAIRYLAND/ DSR-0903/RR	0.9	Not Reported	1,3	KRUGER/ K-100RR	1.0	Rps1k	2,4
DAIRYLAND/ DSR-1301/RR	1.3	Not Reported	2,4	KRUGER/ K-120RR	1.2	Rps1k	2,4
DAIRYLAND/ DSR-1520/RR	1.5	Not Reported	4	KRUGER/ K-140RR	1.5	Rps1k	2,4,6
DAIRYLAND/ DSR-199RRSTS	1.9	Rps1k	4	KRUGER/ K-156RR	1.4	Rps1k	2,4,6
DAIRYLAND/ DSR-2200/RR	2.2	Not Reported	7	KRUGER/ K-177RR	1.7	Rps1k	2,4,6
DAIRYLAND/ DSR-2300/RR	2.3	Not Reported	7	KRUGER/ K-188RR/SCN	1.7	Rps1k	2,4,6
DAIRYLAND/ DSR-234/RR	2.3	Rps1k	7	KRUGER/ K-194RR	1.8	Rps1k	2,4,6
DAIRYLAND/ DSR-2511/RR	2.5	Not Reported	7	KRUGER/ K-195+RR/SCN	2.0	Rps1k	4,6
DAIRYLAND/ DSR-2600/RR	2.6	Rps1k	7	KRUGER/ K-211+RR	2.2	Rps1k	5,7
DAIRYLAND/ DSR-2820/RR	2.8	Not Reported	7	KRUGER/ K-223+RR	2.2	Rps1k	5,7
DAIRYLAND/ DSR0902RRSTS	0.9	Rps1k	1	KRUGER/ K-233+RR	2.4	Rps1k	5,7
DAIRYLAND/ DSR1500RRSTS	1.5	Not Reported	2,4	KRUGER/ K-234RR	2.4	rps1 - No resist.	5,7
DAIRYLAND/ DSR1701RRSTS	1.7	Not Reported	4	KRUGER/ K-235RR/SCN	2.3	Rps1c	5,7
DAIRYLAND/ DSR2000RRSTS	2.0	Rps1k	7	KRUGER/ K-255RR	2.5	rps1 - No resist.	5,7
DAIRYLAND/ DSR2500RRSTS	2.5	Rps1k	7	KRUGER/ K-259RR	2.6	Rps1k	5,7
DAIRYLAND/ DSR2702RRSTS	2.7	Not Reported	7	KRUGER/ K-287RR/SCN	2.8	Rps1c	7
DAIRYLAND/ DST22-003/RR	2.2	Not Reported	7	KRUGER/ K-289+RR	2.8	Rps1k	7
DEKALB/ DKB18-51	1.8	Rps1k	2,4	LATHAM/ EXP-E1950R	1.9	Rps1k	2,4
DEKALB/ DKB22-52	2.2	rps1 - No resist.	5,7	LATHAM/ EXP-E2253R	2.2	Rps1 (Rps1a)	5
DEKALB/ DKB25-51	2.5	Rps1k	7	LATHAM/ EXP-E2810R	2.8	rps1 - No resist.	7
DEKALB/ DKB26-53	2.6	Rps1c	7	LATHAM/ EXP-E2976R	2.9	rps1 - No resist.	7
DEKALB/ DKB27-53	2.7	Rps1c	7	LATHAM/ L1553R	1.5	Rps1k	2

Table C. 2006 Roundup Ready™ soybean entries by brand/variety, maturity group, and gene for *Phytophthora* root rot resistance as reported by the entrants; and performance table number(s) (continued).

Brand / Variety	Mat. Grp.	Gene	Table No. (s)	Brand / Variety	Mat. Grp.	Gene	Table No. (s)
LATHAM/ L2500R	2.5	rps1 - No resist.	7	NUTECH/ NT-2770RR/SCN	2.7	rps1 - No resist.	7
LATHAM/ L2635R	2.6	Rps1c	7	NUTECH/ NT-2777RR/SCN	2.7	Rps1k	7
LATHAM/ L2646R	2.6	Rps1k	7	NUTECH/ NT-2890+RR	2.8	Rps1k	7
LATHAM/ L2775R	2.7	Rps1k	7	NUTECH/ NT-2890RR	2.8	Rps1k	7
MIDWEST SEED/ GR0903	0.9	rps1 - No resist.	1	NUTECH/ NT-7205+RR	2.0	Rps1k	2,4
MIDWEST SEED/ GR1111	1.1	Rps1k	2	PRAIRIE BRAND/ PB-0725RR	0.7	rps1 - No resist.	1
MIDWEST SEED/ GR1633	1.4	Rps1k	4	PRAIRIE BRAND/ PB-0923RR	0.9	Rps1k	1,3
MIDWEST SEED/ GR2037	2.0	rps1 - No resist.	5,7	PRAIRIE BRAND/ PB-0936RR	0.9	rps1 - No resist.	1,3
MIDWEST SEED/ GR2231	2.2	Rps1k	5	PRAIRIE BRAND/ PB-0954RR	0.9	rps1 - No resist.	1,3
MIDWEST SEED/ GR2651	2.6	rps1 - No resist.	7	PRAIRIE BRAND/ PB-1256RR	1.2	Rps1k	2,4
MIDWEST SEED/ GR2731	2.7	Rps1k	7	PRAIRIE BRAND/ PB-1294RR	1.2	Rps1c	2,4
MUSTANG/ M-066RR	0.6	Rps1 (Rps1a)	1	PRAIRIE BRAND/ PB-1525RR	1.5	Rps1k	2,4
MUSTANG/ M-075RR	0.7	Rps1 (Rps1a)	1,3	PRAIRIE BRAND/ PB-1754RR	1.7	rps1 - No resist.	2,4
MUSTANG/ M-095RR	0.9	rps1 - No resist.	1,3	PRAIRIE BRAND/ PB-1885NR	1.8	Rps1k	4,6
MUSTANG/ M-096RR	0.9	rps1 - No resist.	1,3	PRAIRIE BRAND/ PB-1916RR	1.9	Rps1k	2,4,6
MUSTANG/ M-097RR	0.9	Rps1c	1,3	PRAIRIE BRAND/ PB-1954RR	1.9	rps1 - No resist.	2,4,6
MUSTANG/ M-115RR	1.1	Rps1c	2,4	PRAIRIE BRAND/ PB-1956RR	1.9	rps1 - No resist.	4,6
MUSTANG/ M-136RR	1.3	Rps1k	2,4	PRAIRIE BRAND/ PB-2141RR	2.1	Rps1k	5,7
MUSTANG/ M-156RR	1.5	Rps1k	2,4	PRAIRIE BRAND/ PB-2183NR	2.1	Rps1k	5
MUSTANG/ M-176RR	1.7	Rps1 (Rps1a)	2,4	PRAIRIE BRAND/ PB-2216RR	2.2	rps1 - No resist.	5,7
MUSTANG/ M-194NRR	1.9	Rps1k	6	PRAIRIE BRAND/ PB-2243RR	2.2	Rps1k	5,7
MUSTANG/ M-203RR	2.0	rps1 - No resist.	5,7	PRAIRIE BRAND/ PB-2421RR	2.4	Rps1k	5,7
MUSTANG/ M-207RR	2.0	Rps1k	5,7	PRAIRIE BRAND/ PB-2456RR	2.4	Rps1k	5,7
MUSTANG/ M-227RR	2.2	Rps1 (Rps1a)	7	PRAIRIE BRAND/ PB-2536RR	2.5	Rps1k	7
MUSTANG/ M-237RR	2.3	Rps1k	7	PRAIRIE BRAND/ PB-2565RR	2.5	Rps1c	7
MUSTANG/ M-246NRR	2.4	rps1 - No resist.	7	PRAIRIE BRAND/ PB-2636NR	2.6	Rps1k	7
MUSTANG/ M-247NRR	2.7	Rps1 (Rps1a)	7	PRAIRIE BRAND/ PB-2643RR	2.7	Rps1k	7
MUSTANG/ M-257RR	2.5	Rps1c	7	PRAIRIE BRAND/ PB-2645RR	2.7	Rps1k	7
MUSTANG/ M-264RR	2.6	Rps1k	7	PSI BRAND/ 96090RR	0.9	rps1 - No resist.	1
NORTHSTAR/ EXP 1401RR	1.4	rps1 - No resist.	4	PSI BRAND/ 96110RR	1.1	Rps1k	2,4
NORTHSTAR/ NS 0810RR	0.8	Rps1 (Rps1a)	1	PSI/ 96081RR	0.8	Rps1 (Rps1a)	1
NORTHSTAR/ NS 0911RR	0.9	Rps1k	1	RENK/ RS156RR	1.5	Rps1k	4
NORTHSTAR/ NS 1120RR	1.1	Rps1k	2,4	RENK/ RS165RR	1.6	Rps1k	4
NORTHSTAR/ NS 1521NRR	1.5	rps1 - No resist.	6	RENK/ RS246NRR	2.4	Not Reported	5,7
NORTHSTAR/ NS 1809RR	1.8	rps1 - No resist.	4,6	RENK/ RS265RR	2.6	Rps1c	7
NUTECH/ NT-0786RR	0.7	rps1 - No resist.	1	SANDS/ SOI 1874NRR	1.8	Rps1k	6
NUTECH/ NT-0886RR	0.8	rps1 - No resist.	1	SANDS/ SOI 2151NRR	2.1	Rps1k	5,7
NUTECH/ NT-0889RR	0.8	rps1 - No resist.	1	SANDS/ SOI 2448RR	2.4	Rps1k	7
NUTECH/ NT-0990RR	0.9	rps1 - No resist.	1	SANDS/ SOI 2511NRR	2.5	Not Reported	7
NUTECH/ NT-0999+RR	0.9	rps1 - No resist.	3	SANDS/ SOI 2609RR	2.6	Rps1k	7
NUTECH/ NT-1127RR	1.1	Rps1k	2,4	SANDS/ SOI 2673RR	2.6	Rps1k	7
NUTECH/ NT-1404RR	1.4	Rps1k	2	SANDS/ SOI 2675NRR	2.6	Not Reported	7
NUTECH/ NT-1909RR	1.9	rps1 - No resist.	6	SANDS/ SOI 2754RR	2.7	Rps1k	7
NUTECH/ NT-1991RR	1.9	Rps1k	2,4,6	SANDS/ SOI 2884RR	2.8	Rps1k	7
NUTECH/ NT-2202RR	2.2	Rps1k	4	SEEDS 2000/ 2090RR	0.9	Not Reported	1
NUTECH/ NT-2213RR	2.2	Rps1 (Rps1a)	5,7	SEEDS 2000/ 2130RR	1.3	Rps1k	2
NUTECH/ NT-2220RR	2.2	rps1 - No resist.	5,7	SODAK GENET./ SD1091RR	0.9	Rps1 (Rps1a)	1,3
NUTECH/ NT-2232RR	2.2	Rps1 (Rps1a)	5,7	SODAK GENET./ SD1092RR	0.9	Rps1k	1,3
NUTECH/ NT-2333RR	2.3	Rps1 (Rps1a)	5,7	SODAK GENET./ SD1111RR	1.1	Rps1 (Rps1a)	2,4,6
NUTECH/ NT-2626RR	2.6	rps1 - No resist.	5	STINE/ 0708-4	0.7	rps1 - No resist.	1

Table C. 2006 Roundup Ready™ soybean entries by brand/variety, maturity group, and gene for *Phytophthora* root rot resistance as reported by the entrants; and performance table number(s) (continued).

Brand / Variety	Mat. Grp.	Gene	Table No. (s)	Brand / Variety	Mat. Grp.	Gene	Table No. (s)
STINE/ 0943-4	1.0	Rps1k	1,3	Public Varieties & Experimentals			
STINE/ 1108-4	1.0	rps1 - No resist.	2,4	PUBLIC/ SD00-1018R	1	Rps1 (Rps1a)	2,4
STINE/ 1330-4	1.3	Rps1k	2,4	PUBLIC/ SD00-5555R	0	Rps1k	1,3
STINE/ 1918-4	1.9	rps1 - No resist.	2,4,6	PUBLIC/ SD01-1120R	1	Rps1 (Rps1a)	2,4
THOMPSON/ T-1330RR	1.3	Rps1k	2	PUBLIC/ SD01-3219R	1	Rps1k	2,4,6
THOMPSON/ T-1400RR	1.4	Rps1k	2	PUBLIC/ SD01-3477R	1	Rps1 (Rps1a)	2,4
THOMPSON/ T-1414RR	1.4	Rps1k	2	PUBLIC/ SD02R-48	2	Rps1k	5,7
THOMPSON/ T-1766RR	1.7	Not Reported	2	PUBLIC/ SD02R-5	2	Rps1k	5,7
THOMPSON/ T-1800RR	1.8	rps1 - No resist.	2	PUBLIC/ SD02R-50	2	Rps1k	5
THOMPSON/ T-2213ARR	2.0		5,7	PUBLIC/ SD02R-51	2	Rps1k	5,7
THOMPSON/ T-2220ARR	2.2	rps1 - No resist.	5,7	PUBLIC/ SD02R-8	1	Rps1k	2,4
THOMPSON/ T-2300RR	2.3	Rps1k	7	PUBLIC/ SD02R-93	1	Rps1k	2
THOMPSON/ T-2444RR/SCN	2.4	rps1 - No resist.	5,7	PUBLIC/ SD1091RR-4	0	Rps1k	1,3
THOMPSON/ T-2626RR	2.6	rps1 - No resist.	7	PUBLIC/ SDX00R-017-52	1	Rps1 (Rps1a)	2,4
THOMPSON/ T-2666RR	2.6	Not Reported	5,7	PUBLIC/ SDX00R-020-18	2	Rps1 (Rps1a)	5
THOMPSON/ T-2707RR	2.7	Rps1c	7	PUBLIC/ SDX00R-026-42N	1	Not Reported	2,4,6
THOMPSON/ T-2999RR	2.9	Not Reported	7	PUBLIC/ SDX00R-029-3	1	Rps1k	2,4
THOMPSON/ T-7193RR/SCN	1.9	Rps1k	4	PUBLIC/ SDX00R-053-46	1	Rps1 (Rps1a)	2,4
THOMPSON/ T-7205+RR	2.0	Rps1k	6	PUBLIC/ SDX01R-00403109	1	Rps1 (Rps1a)	4
THOMPSON/ T-7206RR	2.0	Rps1k	5	PUBLIC/ SDX01R-00403128	2	Rps1 (Rps1a)	5
THOMPSON/ T-7234RR	2.3	Rps1k	2,4	PUBLIC/ SDX01R-007039	2	Not Reported	5
THUNDER/ 2511RR	1.1	Rps1k	2				
THUNDER/ 2512RR	1.2	rps1 - No resist.	2				
THUNDER/ 708RR	0.8	Rps1k	1				
THUNDER/ 709RR	0.9	Rps1c	1				
WECO/ EXP 6 0.7RR	0.7	Rps1k	1,3				
WECO/ EXP 6 1.0RR	1.0	Not Reported	2,4				
WECO/ EXP 6 1.5RR	1.5	Not Reported	2,4,6				
WECO/ EXP 6 2.0RR	2.0	Rps1k	5,7				
WECO/ EXP 6 2.5RR-STS	2.5	Rps1c	5,7				
WECO/ EXP 6 2.6RR-SCN	2.6	Rps1c	7				
WECO/ EXP 6 2.8RR-SCN	2.8	Not Reported	7				
WENSMAN/ W 2090RR	0.9	Not Reported	1				
WENSMAN/ W 2108RR	1.0	Not Reported	2				
WENSMAN/ W 2121RR	1.2	Rps1c	2				
WENSMAN/ W 2142RR	1.4	Rps1k	2,4				
WENSMAN/ W 2163RR	1.6	Not Reported	2,4,6				
WENSMAN/ W 2168NRR	1.6	Not Reported	4,6				
WENSMAN/ W 2172NRR	1.7	Rps1k	4,6				
WENSMAN/ W 2195NRR	1.9	Rps1k	4,6				
WENSMAN/ W 2200NRR	2.0	Rps1c	5,7				
WENSMAN/ W 2226RR	2.2	Rps1 (Rps1a)	5,7				
WENSMAN/ W 2253RR	2.5	Rps1c	7				
ZILLER/ BT 7124R	1.2	Rps1k	2				
ZILLER/ BT 7156NR	1.5	Not Reported	4				
ZILLER/ BT 7186NR	1.8	Rps1k	4				
ZILLER/ BT 7227NR	2.2	Rps1k	7				

Table 1a. Roundup Ready™ maturity group-0 soybean variety yield averages- northern South Dakota locations, 2005-2006.

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	----- Northern Locations ----- 2005-2006 Yield Averages				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
KRUGER/ K-098RR	116	32	41	38	46	35	44
NUTECH/ NT-0889RR	117	32	40	40	46	36	43
MUSTANG/ M-095RR	117	33	42	37	44	35	43
NUTECH/ NT-0886RR	117	30	42	37	44	34	43
PSI BRAND/ 96090RR	115	28	39	40	46	34	43
PRAIRIE BRAND/ PB-0725RR	115	32	43	30	42	31	43
MUSTANG/ M-096RR	118	35	42	36	42	36	42
SEEDS 2000/ 2090RR	117	32	41	35	42	34	42
WENSMAN/ W 2090RR	116	29	39	35	43	32	41
DAIRYLAND/ DSR-0701/RR	113	32	41	30	40	31	41
MUSTANG/ M-075RR	113	28	41	29	41	29	41
KRUGER/ K-056RR	112	32	40	30	40	31	40
PRAIRIE BRAND/ PB-0923RR	113	28	37	33	42	31	40
PRAIRIE BRAND/ PB-0954RR	116	29	37	35	41	32	39
SODAK GENET./ SD1092RR	116	30	38	32	40	31	39
MUSTANG/ M-066RR	112	26	37	31	40	29	39
SODAK GENET./ SD1091RR	117	29	36	32	39	31	38
THUNDER/ 709RR	117	31	.	38	.	35	.
KRUGER/ K-072RR	116	34	.	35	.	35	.
PRAIRIE BRAND/ PB-0936RR	116	33	.	36	.	35	.
MUSTANG/ M-097RR	117	32	.	36	.	34	.
NUTECH/ NT-0990RR	116	30	.	38	.	34	.
KRUGER/ EXP057RR	113	35	.	31	.	33	.
DAIRYLAND/ DSR-0903/RR	113	33	.	32	.	33	.
MIDWEST SEED/ GR0903	117	30	.	35	.	33	.
ASGROW/ AG0803	113	29	.	34	.	32	.
KRUGER/ K-042RR	113	33	.	31	.	32	.
KRUGER/ EXP086RR	115	30	.	33	.	32	.
PUBLIC/ SD00-5555R	118	25	.	38	.	32	.
WECO/ EXP 6 0.7RR	116	30	.	32	.	31	.
PUBLIC/ SD1091RR-4	118	27	.	35	.	31	.
THUNDER/ 708RR	113	31	.	29	40	30	.
HEFTY/ EXP067RR	111	30	.	30	.	30	.
DAIRYLAND/ DSR0902RRSTS	114	25	.	33	.	29	.
NORTHSTAR/ NS 0911RR	114	24	.	34	.	29	.
NUTECH/ NT-0786RR	113	26	.	30	.	28	.
PSI/ 96081RR	113	28	.	28	.	28	.

Table 1a. Roundup Ready™ maturity group-0 soybean variety yield averages- northern South Dakota locations, 2005-2006 (continued).

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	----- Northern Locations ----- 2005-2006 Yield Averages				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
KRUGER/ EXP067RR	111	27	.	29	.	28	.
NORTHSTAR/ NS 0810RR	113	28	.	26	.	27	.
CROW'S/ C0520R	112	25	.	26	.	26	.
AGVENTURE/ AVEXP09D1	112	.	.	36	.	.	.
GOLD COUNTRY SEED/ 2509R	111	.	.	39	44	.	.
STINE/ 0943-4	110	.	.	34	43	.	.
STINE/ 0708-4	121	30	41	.	.	.	.
Test avg. :	115	30	40	33	42	32	41
High avg. :	121	35	43	40	46	36	44
Low avg. :	110	24	36	26	39	26	38
# Lsd (.05):		5	NS	4	NS	3	2
## TPG-avg. :		30	36	36	39	36	42
@ Coef. Var.:		9	7	8	6	9	6
No. Entries:		41	18	43	20	80	34

* DTM= average days from seeding (South Shore- May 23, Warner- May 26, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

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Table 1b. Roundup Ready™ maturity group-0 soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2006.

Brand/Variety (By 2006 zone protein)	DTM*	Northern Averages by Location						Northern Zone Averages		
		South Shore			Warner			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
SODAK GENET./ SD1091RR	117	38.2	18.7	1	37.3	19.3	1	37.8	19.0	1
WENSMAN/ W 2090RR	116	37.8	18.7	1	36.8	19.4	1	37.3	19.1	1
MUSTANG/ M-095RR	117	37.7	18.8	1	36.8	19.4	1	37.3	19.1	1
KRUGER/ K-098RR	116	37.3	18.9	1	37.0	19.3	1	37.2	19.1	1
NUTECH/ NT-0889RR	117	37.1	18.9	1	37.0	19.5	1	37.1	19.2	1
PRAIRIE BRAND/ PB-0954RR	116	36.9	18.9	1	37.1	19.3	1	37.0	19.1	1
PSI BRAND/ 96090RR	115	37.3	18.6	1	36.6	19.5	1	37.0	19.1	1
PRAIRIE BRAND/ PB-0923RR	113	37.5	19.0	1	36.4	19.7	1	37.0	19.4	1
PUBLIC/ SD00-5555R	118	37.4	18.7	1	36.5	19.6	1	37.0	19.2	1
MUSTANG/ M-066RR	112	37.7	18.9	1	36.1	19.7	1	36.9	19.3	1
PRAIRIE BRAND/ PB-0725RR	115	37.1	19.0	1	36.7	19.7	1	36.9	19.4	1
SODAK GENET./ SD1092RR	116	37.2	19.0	1	36.5	19.8	1	36.9	19.4	1
MIDWEST SEED/ GR0903	117	36.9	18.9	1	36.8	19.3	1	36.9	19.1	1
KRUGER/ K-056RR	112	37.3	19.0	1	36.3	19.5	1	36.8	19.3	1
NORTHSTAR/ NS 0911RR	114	37.6	18.7	1	36.0	19.7	1	36.8	19.2	1
SEEDS 2000/ 2090RR	117	37.1	18.7	1	36.5	19.5	1	36.8	19.1	1
NUTECH/ NT-0886RR	117	36.6	19.0	1	36.9	19.4	1	36.8	19.2	1
KRUGER/ K-072RR	116	36.8	19.0	1	36.7	19.6	1	36.8	19.3	1
DAIRYLAND/ DSR-0701/RR	113	37.4	18.8	1	36.1	19.8	1	36.8	19.3	1
PUBLIC/ SD1091RR-4	118	37.0	19.0	1	36.5	19.5	1	36.8	19.3	1
DAIRYLAND/ DSR-0903/RR	113	37.6	18.9	1	35.8	19.9	1	36.7	19.4	1
PRAIRIE BRAND/ PB-0936RR	116	37.2	18.9	1	36.2	19.7	1	36.7	19.3	1
NUTECH/ NT-0990RR	116	37.1	18.7	1	36.2	19.7	1	36.7	19.2	1
CROW'S/ C0520R	112	37.1	19.3	1	36.1	19.8	1	36.6	19.6	1
MUSTANG/ M-096RR	118	36.8	19.0	1	36.3	19.6	1	36.6	19.3	1
NUTECH/ NT-0786RR	113	37.2	19.0	1	35.8	20.0	1	36.5	19.5	1
THUNDER/ 708RR	113	37.1	18.7	1	35.6	19.6	1	36.4	19.2	1
PSI/ 96081RR	113	37.1	18.9	1	35.6	20.0	1	36.4	19.5	1
KRUGER/ EXP057RR	113	36.9	18.9	1	35.8	20.0	1	36.4	19.5	1
WECO/ EXP 6 0.7RR	116	36.8	19.0	1	35.8	19.9	1	36.3	19.5	1

Table 1b. Roundup Ready™ maturity group-0 soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2006 (continued).

Brand/Variety (By 2006 zone protein)	DTM*	Northern Averages by Location						Northern Zone Averages		
		South Shore			Warner			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
KRUGER/ K-042RR	113	37.4	19.1	1	35.2	20.5	1	36.3	19.8	1
KRUGER/ EXP067RR	111	37.2	18.9	1	35.4	19.7	1	36.3	19.3	1
NORTHSTAR/ NS 0810RR	113	37.2	18.9	1	35.4	20.2	1	36.3	19.6	1
HEFTY/ EXP067RR	111	36.9	18.9	1	35.5	19.6	1	36.2	19.3	1
MUSTANG/ M-075RR	113	36.8	19.0	1	35.5	20.0	1	36.2	19.5	1
MUSTANG/ M-097RR	117	36.9	19.0	1	35.4	19.9	1	36.2	19.5	1
KRUGER/ EXP086RR	115	36.3	18.7	1	35.8	19.5	1	36.1	19.1	1
THUNDER/ 709RR	117	36.6	19.4	1	35.2	19.9	1	35.9	19.7	1
ASGROW/ AG0803	113	36.2	19.2	1	35.5	19.6	1	35.9	19.4	1
DAIRYLAND/ DSR0902RRSTS	114	36.4	19.1	1	35.2	20.1	1	35.8	19.6	1
AGVENTURE/ AVEXP09D1	112	.	.	.	36.8	19.4	1	.	.	.
GOLD COUNTRY SEED/ 2509R	111	.	.	.	36.6	19.4	1	.	.	.
STINE/ 0943-4	110	.	.	.	36.6	19.7	1	.	.	.
STINE/ 0708-4	121	36.8	18.7	1	.	.	.	.	.	.
Test avg. :	115	37.1	18.9	1	36.2	19.7	1	36.6	19.3	1
High avg. :	121	38.2	19.4	1	37.3	20.5	1	37.8	19.8	1
Low avg. :	110	36.2	18.6	1	35.2	19.3	1	35.8	19.0	1
# Lsd(.05) :		.	.	0	.	.	0	.	.	0
## TPG-avg. :		.	.	1	.	.	1	.	.	1
@ Coef. Var. :		.	.	0	.	.	0	.	.	0
No. Entries :		41	41	41	43	43	43	80	80	80

* DTM= average days from seeding (South Shore- May 23, Warner- May 26, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

** Lodging, 1= all plants erect, 5= all plant flat.

Lsd(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error.

Table 2a. Roundup Ready™ maturity group-I soybean variety yield averages- northern South Dakota locations, 2005-2006.

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	Northern Averages by Location				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
PRAIRIE BRAND/ PB-1954RR	113	32	40	40	45	36	43
STINE/ 1330-4	118	29	39	38	46	34	43
WENSMAN/ W 2142RR	112	30	40	36	45	33	43
ASGROW/ AG1702	119	28	39	37	45	33	42
NUTECH/ NT-7205+RR	117	27	38	38	46	33	42
SEEDS 2000/ 2130RR	118	29	38	34	44	32	41
PRAIRIE BRAND/ PB-1525RR	118	29	39	32	43	31	41
WENSMAN/ W 2121RR	115	25	37	34	45	30	41
THOMPSON/ T-7234RR	115	27	39	32	42	30	41
NUTECH/ NT-1404RR	117	25	38	30	43	28	41
DEKALB/ DKB18-51	113	26	36	35	43	31	40
DAIRYLAND/ DSR-1301/RR	118	26	35	35	44	31	40
PRAIRIE BRAND/ PB-1294RR	116	27	37	32	43	30	40
KRUGER/ K-100RR	117	28	40	28	40	28	40
PRAIRIE BRAND/ PB-1754RR	118	29	38	34	40	32	39
KRUGER/ K-177RR	119	24	34	37	43	31	39
DAIRYLAND/ DSR1500RRSTS	113	28	35	32	41	30	38
PUBLIC/ SDX00R-026-42N	118	27	36	30	40	29	38
SODAK GENET./ SD1111RR	114	25	36	27	40	26	38
KRUGER/ K-156RR	117	26	36	29	38	28	37
PUBLIC/ SD01-3219R	118	25	34	30	39	28	37
THUNDER/ 2512RR	115	21	34	24	36	23	35
THOMPSON/ T-1766RR	114	32	.	39	.	36	.
KRUGER/ K-194RR	117	31	.	39	.	35	.
LATHAM/ EXP-E1950R	117	31	.	39	.	35	.
NUTECH/ NT-1127RR	117	29	.	39	.	34	.
WECO/ EXP 6 1.5RR	113	31	.	37	.	34	.
LATHAM/ L1553R	118	29	.	36	.	33	.
PRAIRIE BRAND/ PB-1916RR	116	29	.	36	.	33	.
WENSMAN/ W 2163RR	117	29	.	36	.	33	.
WENSMAN/ W 2108RR	117	25	.	41	.	33	.
PUBLIC/ SDX00R-017-52	115	30	.	36	.	33	.
PUBLIC/ SD02R-8	117	28	.	37	.	33	.
MUSTANG/ M-156RR	117	26	.	38	.	32	.
MUSTANG/ M-176RR	118	29	.	34	.	32	.
NUTECH/ NT-1991RR	117	29	.	34	.	32	.
GOLD COUNTRY SEED/ 8716R	119	28	.	35	.	32	.
THOMPSON/ T-1330RR	118	30	.	34	.	32	.
CROW'S/ C1106R	117	27	.	36	.	32	.
MUSTANG/ M-115RR	117	26	.	36	.	31	.
THUNDER/ 2511RR	117	26	.	36	.	31	.
THOMPSON/ T-1800RR	114	29	.	33	.	31	.
PUBLIC/ SDX00R-053-46	115	28	.	34	.	31	.
PUBLIC/ SD01-1120R	117	28	.	34	.	31	.
PUBLIC/ SD01-3477R	118	28	.	33	.	31	.
ASGROW/ AG1102	116	27	.	33	.	30	.
AGVENTURE/ AV14D6	118	27	.	32	.	30	.

Table 2a. Roundup Ready™ maturity group-I soybean variety yield averages- northern South Dakota locations, 2005-2006 (continued).

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	Northern Averages by Location				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
GOLD COUNTRY SEED/ 2713R	118	27	.	33	.	30	.
THOMPSON/ T-1414RR	117	26	.	33	.	30	.
THOMPSON/ T-1400RR	118	28	.	31	.	30	.
PUBLIC/ SDX00R-029-3	115	27	.	33	.	30	.
MUSTANG/ M-136RR	117	25	.	32	.	29	.
HEFTY/ EXP117RR	116	25	.	33	.	29	.
HEFTY/ EXP137RR	118	25	.	32	.	29	.
WECO/ EXP 6 1.0RR	116	26	.	32	.	29	.
PRAIRIE BRAND/ PB-1256RR	116	25	.	32	.	29	.
MIDWEST SEED/ GR1111	116	26	.	32	.	29	.
PUBLIC/ SD00-1018R	117	25	.	31	.	28	.
PUBLIC/ SD02R-93	117	24	.	32	.	28	.
KRUGER/ K-188RR/SCN	118	25	.	29	.	27	.
STINE/ 1108-4	116	25	.	28	.	27	.
KRUGER/ K-120RR	117	23	.	28	.	26	.
ASGROW/ AG1002	121	25	.	.	.	.	.
AGVENTURE/ AV11T1RR	122	27	39	.	.	.	.
AGVENTURE/ AVEXP10G9	111	.	.	27	.	.	.
AGVENTURE/ AV15D7	112	.	.	31	.	.	.
PSI BRAND/ 96110RR	123	26	38	.	.	.	.
GOLD COUNTRY SEED/6714NR	124	30	.	.	.	.	.
STINE/ 1918-4	.	28	39	.	.	.	.
ZILLER/ BT 7124R	121	27	.	.	.	.	.
NORTHSTAR/ NS 1120RR	123	30	38	.	.	.	.
Test avg. :	117	27	37	34	42	31	40
High avg. :	124	32	40	41	46	36	43
Low avg. :	111	21	34	24	36	23	35
# Lsd (.05) :		4	NS	5	NS	3	.
## TPG-avg. :		28	34	24	36	33	.
@ Coef. Var. :		10	8	10	8	9	29+
No. Entries :		70	26	65	22	126	44

* DTM= average days from seeding (South Shore- May 23, Warner- May 26, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

+ Lsd and TPG-average values are not reported because Coef. of Variation exceeds 15%.

Table 2b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2006.

Brand/Variety (By zone protein)	DTM*	Northern Averages by Location						Northern Zone Averages		
		South Shore			Warner			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
LATHAM/ L1553R	118	38.1	18.8	1	36.8	19.4	1	37.5	19.1	1
AGVENTURE/ AV14D6	118	37.7	18.6	1	37.0	19.0	1	37.4	18.8	1
MUSTANG/ M-156RR	117	38.1	18.6	1	36.5	19.6	1	37.3	19.1	1
HEFTY/ EXP137RR	118	38.0	18.8	1	36.4	19.5	1	37.2	19.2	1
KRUGER/ K-177RR	119	38.1	18.9	1	36.3	19.6	1	37.2	19.3	1
GOLD COUNTRY SEED/ 8716R	119	38.1	19.0	1	36.2	19.6	1	37.2	19.3	1
NUTECH/ NT-1404RR	117	37.5	18.7	1	36.7	19.4	1	37.1	19.1	1
NUTECH/ NT-7205+RR	117	37.5	18.9	1	36.7	19.3	1	37.1	19.1	1
DAIRYLAND/ DSR-1301/RR	118	37.5	18.9	1	36.7	19.6	1	37.1	19.3	1
PRAIRIE BRAND/ PB-1754RR	118	37.1	18.5	1	37.1	19.1	1	37.1	18.8	1
MUSTANG/ M-176RR	118	37.4	18.6	1	36.8	19.2	1	37.1	18.9	1
THUNDER/ 2511RR	117	37.9	18.6	1	36.2	19.7	1	37.1	19.2	1
WENSMAN/ W 2163RR	117	37.0	18.6	1	37.0	19.2	1	37.0	18.9	1
DEKALB/ DKB18-51	113	37.6	18.8	1	36.3	19.5	1	37.0	19.2	1
STINE/ 1330-4	118	37.7	18.7	1	36.2	19.6	1	37.0	19.2	1
WECO/ EXP 6 1.5RR	113	37.2	19.0	1	36.6	19.3	1	36.9	19.2	1
KRUGER/ K-156RR	117	37.6	18.6	1	36.2	19.4	1	36.9	19.0	1
MIDWEST SEED/ GR1111	116	37.6	18.4	1	36.2	19.5	1	36.9	19.0	1
PUBLIC/ SD02R-93	117	37.4	18.8	1	36.4	19.7	1	36.9	19.3	1
MUSTANG/ M-136RR	117	37.7	18.5	1	35.9	19.5	1	36.8	19.0	1
KRUGER/ K-100RR	117	37.6	18.7	1	36.0	19.8	1	36.8	19.3	1
DAIRYLAND/ DSR1500RRSTS	113	37.1	18.7	1	36.5	19.2	1	36.8	19.0	1
CROW'S/ C1106R	117	37.4	18.7	1	36.2	19.8	1	36.8	19.3	1
ASGROW/ AG1702	119	37.1	18.8	1	36.4	19.4	1	36.8	19.1	1
WECO/ EXP 6 1.0RR	116	37.3	18.8	1	36.2	19.7	1	36.8	19.3	1
GOLD COUNTRY SEED/ 2713R	118	37.4	18.9	1	36.1	19.7	1	36.8	19.3	1
THOMPSON/ T-1330RR	118	37.1	18.9	1	36.3	19.6	1	36.7	19.3	1
THOMPSON/ T-7234RR	115	36.7	19.1	1	36.6	19.5	1	36.7	19.3	1
THUNDER/ 2512RR	115	37.4	18.6	1	35.9	19.4	1	36.7	19.0	1
STINE/ 1108-4	116	37.1	19.0	1	36.0	19.7	1	36.6	19.4	1
THOMPSON/ T-1414RR	117	36.9	19.0	1	36.2	19.5	1	36.6	19.3	1
KRUGER/ K-188RR/SCN	118	37.3	18.7	1	35.7	19.8	1	36.5	19.3	1
KRUGER/ K-194RR	117	36.8	18.8	1	36.2	19.4	1	36.5	19.1	1
PRAIRIE BRAND/ PB-1525RR	118	36.9	18.9	1	36.1	19.6	1	36.5	19.3	1
THOMPSON/ T-1766RR	114	36.5	18.4	1	36.5	19.2	1	36.5	18.8	1
PRAIRIE BRAND/ PB-1916RR	116	36.7	19.3	1	36.2	19.2	1	36.5	19.3	1
THOMPSON/ T-1400RR	118	36.6	18.9	1	36.3	19.4	1	36.5	19.2	1
WENSMAN/ W 2142RR	112	37.1	18.8	1	35.7	19.8	1	36.4	19.3	1
PRAIRIE BRAND/ PB-1954RR	113	36.3	18.7	1	36.5	19.2	1	36.4	19.0	1
PUBLIC/ SD01-1120R	117	36.5	19.0	1	36.2	19.5	1	36.4	19.3	1
PUBLIC/ SDX00R-026-42N	118	36.8	18.6	1	35.9	19.3	1	36.4	19.0	1
PUBLIC/ SD01-3477R	118	36.8	18.7	1	35.9	19.6	1	36.4	19.2	1
HEFTY/ EXP117RR	116	36.4	19.1	1	36.2	19.6	1	36.3	19.4	1
KRUGER/ K-140RR	118	37.2	18.6	1	35.4	19.4	1	36.3	19.0	1
LATHAM/ EXP-E1950R	117	36.5	18.9	1	36.0	19.3	1	36.3	19.1	1
SEEDS 2000/ 2130RR	118	36.4	18.6	1	36.1	19.5	1	36.3	19.1	1
WENSMAN/ W 2108RR	117	36.6	19.0	1	35.8	19.8	1	36.2	19.4	1
PUBLIC/ SD02R-8	117	36.4	19.0	1	36.0	19.5	1	36.2	19.3	1
ASGROW/ AG1102	116	36.5	18.7	1	35.8	19.2	1	36.2	19.0	1
KRUGER/ K-120RR	117	36.9	18.5	1	35.4	19.4	1	36.2	19.0	1

Table 2b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2006 (continued).

Brand/Variety (By zone protein)	DTM*	Northern Averages by Location						Northern Zone Averages		
		South Shore			Warner			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
THOMPSON/ T-1800RR	114	36.3	18.0	1	36.0	19.3	1	36.2	18.7	1
NUTECH/ NT-1127RR	117	36.7	18.8	1	35.4	19.4	1	36.1	19.1	1
NUTECH/ NT-1991RR	117	36.5	18.8	1	35.6	19.3	1	36.1	19.1	1
PRAIRIE BRAND/ PB-1294RR	116	36.6	19.0	1	35.4	19.6	1	36.0	19.3	1
PRAIRIE BRAND/ PB-1256RR	116	36.4	18.8	1	35.6	19.3	1	36.0	19.1	1
PUBLIC/ SD01-3219R	118	36.1	18.7	1	35.9	19.5	1	36.0	19.1	1
PUBLIC/ SDX00R-029-3	115	36.3	19.0	1	35.4	19.6	1	35.9	19.3	1
MUSTANG/ M-115RR	117	36.0	18.8	1	35.4	19.6	1	35.7	19.2	1
SODAK GENET./ SD1111RR	114	35.9	19.4	1	35.4	19.8	1	35.7	19.6	1
PUBLIC/ SDX00R-053-46	115	35.9	19.1	1	35.4	19.6	1	35.7	19.4	1
WENSMAN/ W 2121RR	115	35.8	19.0	1	35.1	19.7	1	35.5	19.4	1
PUBLIC/ SDX00R-017-52	115	35.9	19.0	1	35.0	19.7	1	35.5	19.4	1
PUBLIC/ SD00-1018R	117	35.9	19.2	1	34.7	20.0	1	35.3	19.6	1
ASGROW/ AG1002	121	36.7	19.0	1	.	.	.	.	.	.
AGVENTURE/ AV11T1RR	122	37.6	18.8	1	.	.	.	.	.	.
AGVENTURE/ AVEXP10G9	111	.	.	.	36.0	19.7	1	.	.	.
AGVENTURE/ AV15D7	112	.	.	.	36.3	19.7	1	.	.	.
PSI BRAND/ 96110RR	123	37.7	18.8	1	.	.	.	.	.	.
GOLD COUNTRY SEED/6714NR	124	36.9	18.9	1	.	.	.	.	.	.
STINE/ 1918-4	.	37.0	18.9	1	.	.	.	.	.	.
ZILLER/ BT 7124R	121	36.5	18.7	1	.	.	.	.	.	.
NORTHSTAR/ NS 1120RR	123	37.2	19.0	1	.	.	.	.	.	.
Test avg. :	117	37.0	18.8	1	36.1	19.5	1	36.5	19.1	1
High avg. :	124	38.1	19.4	1	37.1	20.0	1	37.5	19.6	1
Low avg. :	111	35.8	18.0	1	34.7	19.0	1	35.3	18.7	1
# Lsd(.05) :	.	.	.	0	.	.	0	.	.	0
## TPG-avg. :	.	.	.	1	.	.	1	.	.	1
@ Coef.Var. :	.	.	.	0	.	.	0	.	.	0
No. Entries :		70	70	70	65	65	65	126	126	126

* DTM= average days from seeding (South Shore- May 23, Warner- May 26, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

** Lodging, 1= all plants erect, 5= all plant flat.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error.

Table 3a. Roundup Ready™ maturity group-0 soybean variety yield averages- central South Dakota locations, 2005-2006.

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
NUTECH/ NT-0999+RR	119	55	62	46	56	51	59
PRAIRIE BRAND/ PB-0923RR	119	54	61	44	56	49	59
MUSTANG/ M-095RR	120	56	61	48	55	52	58
KRUGER/ K-098RR	119	53	59	47	56	50	58
PRAIRIE BRAND/ PB-0954RR	119	54	59	46	54	50	57
MUSTANG/ M-096RR	120	49	58	46	56	48	57
SODAK GENET./ SD1092RR	120	46	53	43	53	45	53
SODAK GENET./ SD1091RR	120	44	53	38	51	41	52
KRUGER/ K-072RR	119	58	.	48	.	53	.
PRAIRIE BRAND/ PB-0936RR	119	55	.	46	.	51	.
DAIRYLAND/ DSR-0903/RR	118	53	.	46	.	50	.
KRUGER/ EXP057RR	113	50	.	45	.	48	.
KRUGER/ EXP067RR	113	49	.	47	.	48	.
MUSTANG/ M-097RR	118	51	.	43	.	47	.
PUBLIC/ SD00-5555R	120	52	.	41	.	47	.
PUBLIC/ SD1091RR-4	121	50	.	43	.	47	.
KRUGER/ K-056RR	114	46	.	46	.	46	.
MUSTANG/ M-075RR	114	46	.	42	.	44	.
WECO/ EXP 6 0.7RR	114	.	.	44	.	.	.
STINE/ 0943-4	115	.	.	46	56	.	.
Test avg.:	118	51	58	45	55	48	57
High avg. :	121	58	62	48	56	53	59
Low avg. :	113	44	53	38	51	41	52
# Lsd (.05):		5	5	5	NS	4	NS
## TPG-avg. :		53	57	43	51	49	52
@ Coef. Var.:		6	4	7	7	7	8
No. Entries:		18	8	20	9	36	16

* DTM= average days from seeding (Brookings- May 22, Bancroft- May 30, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 3b. Roundup Ready™ maturity group-0 soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2006.

Brand/Variety (By 2006 zone protein)	DTM*	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
SODAK GENET./ SD1091RR	120	38.4	18.8	1	36.6	19.6	1	37.5	19.2	1
PUBLIC/ SD1091RR-4	121	38.1	18.8	1	36.7	19.6	1	37.4	19.2	1
SODAK GENET./ SD1092RR	120	38.0	18.7	1	36.6	20.0	1	37.3	19.4	1
PUBLIC/ SD00-5555R	120	37.9	18.7	1	36.5	19.8	1	37.2	19.3	1
MUSTANG/ M-075RR	114	37.4	19.1	1	36.5	20.1	1	37.0	19.6	1
KRUGER/ K-056RR	114	37.5	19.0	1	36.4	20.0	1	37.0	19.5	1
PRAIRIE BRAND/ PB-0954RR	119	37.4	18.9	1	36.4	19.8	1	36.9	19.4	1
PRAIRIE BRAND/ PB-0923RR	119	37.3	18.8	1	36.4	19.9	1	36.9	19.4	1
MUSTANG/ M-095RR	120	37.2	19.1	1	36.3	19.8	1	36.8	19.5	1
KRUGER/ K-072RR	119	37.0	19.0	1	36.4	19.6	1	36.7	19.3	1
MUSTANG/ M-096RR	120	36.9	19.3	1	36.4	19.9	1	36.7	19.6	1
KRUGER/ K-098RR	119	37.0	19.0	1	36.3	19.8	1	36.7	19.4	1
KRUGER/ EXP057RR	113	37.1	19.0	1	36.1	20.0	1	36.6	19.5	1
PRAIRIE BRAND/ PB-0936RR	119	36.7	19.0	1	36.2	20.1	1	36.5	19.6	1
DAIRYLAND/ DSR-0903/RR	118	37.1	19.1	1	35.7	20.3	1	36.4	19.7	1
KRUGER/ EXP067RR	113	36.9	19.0	1	35.9	19.8	1	36.4	19.4	1
NUTECH/ NT-0999+RR	119	36.5	18.9	1	36.2	20.0	1	36.4	19.5	1
MUSTANG/ M-097RR	118	36.6	19.0	1	35.8	19.9	1	36.2	19.5	1
WECO/ EXP 6 0.7RR	114	.	.	.	36.2	20.0	1	.	.	.
STINE/ 0943-4	115	.	.	.	36.5	19.8	1	.	.	.
Test avg. :	118	37.3	19.0	1	36.3	19.9	1	36.8	19.4	1
High avg. :	121	38.4	19.3	1	36.7	20.3	1	37.5	19.7	1
Low avg. :	113	36.5	18.7	1	35.7	19.6	1	36.2	19.2	1
* Lsd(.05) :		.	.	0	.	.	0	.	.	0
## TPG-avg. :		.	.	1	.	.	1	.	.	1
### Coef.Var. :		.	.	0	.	.	0	.	.	0
No. Entries :		18	18	18	20	20	20	36	36	36

* DTM= average days from seeding (Brookings- May 22, Bancroft- May 30, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

** Lodging, 1= all plants erect, 5= all plant flat.

Lsd,(.05)= amount values in a column must differ to be significantly different, if difference are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error.

Table 4a. Roundup Ready™ maturity group-I soybean variety yield averages- central South Dakota locations, 2005-2006.

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
STINE/ 1918-4	126	60	65	60	66	60	66
KRUGER/ K-195+RR/SCN	125	57	65	59	64	58	65
THOMPSON/ T-7234RR	127	58	62	59	65	59	64
NUTECH/ NT-7205+RR	128	59	65	54	63	57	64
PRAIRIE BRAND/ PB-1954RR	122	58	63	58	62	58	63
PRAIRIE BRAND/ PB-1754RR	121	55	63	59	63	57	63
WENSMAN/ W 2195NRR	124	57	64	55	61	56	63
PRAIRIE BRAND/ PB-1525RR	119	56	62	59	62	58	62
ASGROW/ AG1903	122	58	63	55	61	57	62
MUSTANG/ M-156RR	121	54	61	59	62	57	62
NUTECH/ NT-2202RR	128	57	63	51	61	54	62
NORTHSTAR/ NS 1120RR	121	54	60	61	62	58	61
MUSTANG/ M-176RR	121	51	60	57	62	54	61
HEFTY/ 195RR	126	54	61	53	60	54	61
ASGROW/ AG1702	124	55	62	51	59	53	61
THOMPSON/ T-7193RR/SCN	120	53	62	52	60	53	61
DAIRYLAND/ DSR-199RRSTS	123	55	60	56	59	56	60
MUSTANG/ M-115RR	119	53	59	56	60	55	60
KRUGER/ K-156RR	121	54	60	56	60	55	60
WENSMAN/ W 2163RR	117	54	59	56	61	55	60
WENSMAN/ W 2142RR	121	54	61	55	58	55	60
PSI BRAND/ 96110RR	122	55	61	53	58	54	60
KRUGER/ K-100RR	121	56	61	52	58	54	60
DEKALB/ DKB18-51	123	56	62	49	58	53	60
KRUGER/ K-177RR	123	54	61	49	59	52	60
PRAIRIE BRAND/ PB-1294RR	123	51	57	57	61	54	59
DAIRYLAND/ DSR-1301/RR	119	56	61	50	56	53	59
MUSTANG/ M-136RR	118	53	59	51	59	52	59
DAIRYLAND/ DSR1500RRSTS	122	54	59	54	57	54	58
PUBLIC/ SDX00R-026-42N	123	51	57	56	59	54	58
PUBLIC/ SD01-3219R	123	50	56	52	55	51	56
PUBLIC/ SD01-3477R	123	52	56	50	53	51	55
SODAK GENET./ SD1111RR	121	50	55	47	54	49	55
PRAIRIE BRAND/ PB-1956RR	126	58	.	62	.	60	.
NUTECH/ NT-1991RR	123	59	.	59	.	59	.
KRUGER/ K-194RR	126	58	.	59	.	59	.
WECO/ EXP 6 1.5RR	123	55	.	61	.	58	.
KRUGER/ EXP186RR	124	56	.	60	.	58	.
GOLD COUNTRY SEED/ 2713R	121	55	.	61	.	58	.
PRAIRIE BRAND/ PB-1916RR	120	57	.	58	.	58	.
CROW'S/ C1706R	123	58	.	57	.	58	.
HEFTY/ EXP137RR	122	54	.	60	.	57	.
LATHAM/ EXP-E1950R	127	56	.	57	.	57	.

Table 4a. Roundup Ready™ maturity group-I soybean variety yield averages- central South Dakota locations, 2005-2006 (continued).

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
KRUGER/ K-188RR/SCN	123	60	.	52	.	56	.
DAIRYLAND/ DSR-1520/RR	123	55	.	56	.	56	.
DAIRYLAND/ DSR1701RRSTS	124	53	.	59	.	56	.
PRAIRIE BRAND/ PB-1885NR	124	57	.	55	.	56	.
PUBLIC/ SDX00R-017-52	124	54	.	57	.	56	.
ASGROW/ AG1102	121	54	.	54	.	54	.
KRUGER/ K-120RR	121	51	.	57	.	54	.
KRUGER/ K-140RR	121	54	.	53	.	54	.
PUBLIC/ SDX01R-00403109	120	52	.	56	.	54	.
PUBLIC/ SD02R-8	124	55	.	53	.	54	.
WECO/ EXP 6 1.0RR	120	54	.	52	.	53	.
WENSMAN/ W 2168NRR	119	52	.	53	.	53	.
PUBLIC/ SDX00R-053-46	126	52	.	54	.	53	.
WENSMAN/ W 2172NRR	119	54	.	50	.	52	.
NORTHSTAR/ EXP 1401RR	117	54	.	50	.	52	.
PUBLIC/ SDX00R-029-3	124	51	.	53	.	52	.
NUTECH/ NT-1127RR	122	53	.	49	.	51	.
PUBLIC/ SD01-1120R	124	54	.	47	.	51	.
PRAIRIE BRAND/ PB-1256RR	120	51	.	49	.	50	.
MIDWEST SEED/ GR1633	120	50	.	48	.	49	.
PUBLIC/ SD00-1018R	122	49	.	43	.	46	.
COYOTE/ 4719RR	.	52	59	.	.	.	.
GOLD COUNTRY SEED/ 8716R	.	54	.	.	.	.	.
KALTENBERG/ KB135RR	124	55	62	.	.	.	.
KALTENBERG/ KB155RR	.	55	61	.	.	.	.
STINE/ 1330-4	119	.	.	58	62	.	.
STINE/ 1108-4	116	.	.	43	.	.	.
ZILLER/ BT 7156NR	.	54	.	.	.	.	.
ZILLER/ BT 7186NR	.	56	.	.	.	.	.
NORTHSTAR/ NS 1809RR	.	56	.	.	.	.	.
RENK/ RS165RR	.	53	61	.	.	.	.
RENK/ RS156RR	124	54	.	.	.	.	.
Test avg. :	122	54	61	54 +	60 +	55	61
High avg. :	128	60	65	62	66	60	66
Low avg. :	116	49	55	43	53	46	55
# Lsd (.05) :		5	3	NS	NS	7	NS
## TPG-avg. :		55	62	43	53	53	55
### Coef.Var. :		5	5	14	10	11	13
No. Entries :		73	37	66	34	128	66

* DTM= average days from seeding (Brookings- May 22, Bancroft- May 30, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

+ Location was hit by hail on July 13, 2006 and resulted in an estimated 40-50% stand defoliation.

Table 4b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2006.

Brand/Variety (By 2006 zone protein)	DTM*	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
KRUGER/ K-156RR	121	37.3	18.3	1	36.9	19.5	1	37.1	18.9	1
MUSTANG/ M-136RR	118	37.0	18.5	1	36.8	19.6	1	36.9	19.1	1
PUBLIC/ SDX01R-00403109	120	37.4	18.7	1	36.4	19.8	1	36.9	19.3	1
DAIRYLAND/ DSR-1520/RR	123	37.1	18.6	1	36.5	19.5	1	36.8	19.1	1
MIDWEST SEED/ GR1633	120	37.0	18.2	1	36.6	19.6	1	36.8	18.9	1
MUSTANG/ M-176RR	121	37.0	18.5	1	36.3	19.6	1	36.7	19.1	1
PSI BRAND/ 96110RR	122	36.3	19.0	1	36.7	19.8	1	36.5	19.4	1
ASGROW/ AG1702	124	36.5	18.9	1	36.4	19.7	1	36.5	19.3	1
KRUGER/ K-100RR	121	36.7	19.1	1	36.2	20.0	1	36.5	19.6	1
DAIRYLAND/ DSR1500RRSTS	122	36.3	18.5	1	36.6	19.5	1	36.5	19.0	1
DAIRYLAND/ DSR-1301/RR	119	36.4	18.7	1	36.4	19.7	1	36.4	19.2	1
PRAIRIE BRAND/ PB-1754RR	121	36.4	18.7	1	36.4	19.5	1	36.4	19.1	1
NORTHSTAR/ NS 1120RR	121	36.4	18.9	1	36.4	20.0	1	36.4	19.5	1
DAIRYLAND/ DSR-199RRSTS	123	36.7	18.5	1	36.0	19.4	1	36.4	19.0	1
DAIRYLAND/ DSR1701RRSTS	124	36.2	18.8	1	36.5	19.5	1	36.4	19.2	1
ASGROW/ AG1102	121	36.6	18.6	1	36.0	19.7	1	36.3	19.2	1
NUTECH/ NT-1127RR	122	36.5	18.8	1	36.0	19.6	1	36.3	19.2	1
WENSMAN/ W 2168NRR	119	36.3	18.8	1	36.2	19.8	1	36.3	19.3	1
PUBLIC/ SDX00R-026-42N	123	36.5	18.6	1	36.0	19.7	1	36.3	19.2	1
HEFTY/ EXP137RR	122	36.5	19.1	1	35.9	19.8	1	36.2	19.5	1
PRAIRIE BRAND/ PB-1954RR	122	36.3	18.9	1	36.1	19.8	1	36.2	19.4	1
WECO/ EXP 6 1.0RR	120	36.2	18.8	1	36.1	20.0	1	36.2	19.4	1
GOLD COUNTRY SEED/ 2713R	121	36.1	19.0	1	36.2	19.8	1	36.2	19.4	1
PRAIRIE BRAND/ PB-1256RR	120	36.2	18.5	1	36.1	19.7	1	36.2	19.1	1
MUSTANG/ M-156RR	121	36.4	18.9	1	35.9	20.0	1	36.2	19.5	1
PUBLIC/ SD00-1018R	122	36.3	19.0	1	36.0	20.1	1	36.2	19.6	1
THOMPSON/ T-7234RR	127	36.1	19.0	1	36.1	19.7	1	36.1	19.4	1
NUTECH/ NT-7205+RR	128	36.3	19.0	1	35.9	19.8	1	36.1	19.4	1
KRUGER/ EXP186RR	124	36.3	19.0	1	35.9	19.8	1	36.1	19.4	1
NORTHSTAR/ EXP 1401RR	117	36.3	18.6	1	35.9	19.7	1	36.1	19.2	1
SODAK GENET./ SD1111RR	121	36.8	18.9	1	35.4	20.2	1	36.1	19.6	1
DEKALB/ DKB18-51	123	36.4	18.9	1	35.7	19.9	1	36.1	19.4	1
KRUGER/ K-120RR	121	36.2	19.0	1	35.9	19.6	1	36.1	19.3	1
KRUGER/ K-140RR	121	36.6	18.8	1	35.5	19.9	1	36.1	19.4	1
WENSMAN/ W 2163RR	117	36.5	18.6	1	35.6	19.4	1	36.1	19.0	1
PUBLIC/ SD01-3219R	123	36.6	18.7	1	35.5	20.0	1	36.1	19.4	1
PRAIRIE BRAND/ PB-1525RR	119	36.1	19.0	1	35.9	19.9	1	36.0	19.5	1
ASGROW/ AG1903	122	36.0	18.8	1	35.9	19.7	1	36.0	19.3	1
WECO/ EXP 6 1.5RR	123	35.9	19.1	1	36.0	19.9	1	36.0	19.5	1
KRUGER/ K-195+RR/SCN	125	36.1	19.3	1	35.8	20.0	1	36.0	19.7	1
KRUGER/ K-188RR/SCN	123	35.8	19.2	1	36.1	20.0	1	36.0	19.6	1
PRAIRIE BRAND/ PB-1885NR	124	35.8	19.2	1	36.1	20.0	1	36.0	19.6	1
WENSMAN/ W 2142RR	121	36.7	19.0	1	35.1	20.3	1	35.9	19.7	1
PUBLIC/ SD01-3477R	123	36.6	18.9	1	35.2	20.3	1	35.9	19.6	1
KRUGER/ K-177RR	123	36.3	19.0	1	35.5	20.1	1	35.9	19.6	1

Table 4b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2006.

Brand/Variety (By 2006 zone protein)	DTM*	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
WENSMAN/ W 2195NRR	124	35.4	19.2	1	36.4	19.8	1	35.9	19.5	1
CROW'S/ C1706R	123	36.0	18.8	1	35.8	19.9	1	35.9	19.4	1
STINE/ 1918-4	126	36.1	19.1	1	35.6	20.0	1	35.9	19.6	1
PUBLIC/ SD01-1120R	124	36.2	19.0	1	35.5	20.2	1	35.9	19.6	1
NUTECH/ NT-2202RR	128	36.0	19.1	1	35.5	20.1	1	35.8	19.6	1
PUBLIC/ SDX00R-017-52	124	35.7	19.1	1	35.8	20.1	1	35.8	19.6	1
PUBLIC/ SDX00R-053-46	126	35.8	19.0	1	35.7	19.6	1	35.8	19.3	1
HEFTY/ 195RR	126	35.8	18.9	1	35.6	19.9	1	35.7	19.4	1
KRUGER/ K-194RR	126	35.4	18.9	1	36.0	19.4	1	35.7	19.2	1
PRAIRIE BRAND/ PB-1916RR	120	36.0	19.0	1	35.3	19.9	1	35.7	19.5	1
PUBLIC/ SDX00R-029-3	124	35.6	19.1	1	35.6	20.0	1	35.6	19.6	1
LATHAM/ EXP-E1950R	127	35.5	18.9	1	35.6	19.6	1	35.6	19.3	1
WENSMAN/ W 2172NRR	119	35.8	18.6	1	35.3	20.2	1	35.6	19.4	1
NUTECH/ NT-1991RR	123	35.6	18.8	1	35.4	19.9	1	35.5	19.4	1
THOMPSON/ T-7193RR/SCN	120	35.9	19.4	1	35.1	20.4	1	35.5	19.9	1
PUBLIC/ SD02R-8	124	35.5	18.9	1	35.3	20.0	1	35.4	19.5	1
PRAIRIE BRAND/ PB-1956RR	126	35.7	19.3	1	34.9	20.2	1	35.3	19.8	1
PRAIRIE BRAND/ PB-1294RR	123	35.4	19.1	1	34.8	20.1	1	35.1	19.6	1
MUSTANG/ M-115RR	119	35.2	19.0	1	34.8	20.1	1	35.0	19.6	1
COYOTE/ 4719RR	.	35.9	19.3	1	.	.	.	.	.	.
GOLD COUNTRY SEED/ 8716R	.	36.0	18.9	1	.	.	.	.	.	.
KALTENBERG/ KB135RR	124	36.8	18.5	1	.	.	.	.	.	.
KALTENBERG/ KB155RR	.	36.6	18.5	1	.	.	.	.	.	.
STINE/ 1330-4	119	.	.	.	36.3	19.9	1	.	.	.
STINE/ 1108-4	116	.	.	.	36.1	20.0	1	.	.	.
ZILLER/ BT 7156NR	.	36.6	18.8	1	.	.	.	.	.	.
ZILLER/ BT 7186NR	.	36.2	18.7	1	.	.	.	.	.	.
NORTHSTAR/ NS 1809RR	.	36.0	18.6	1	.	.	.	.	.	.
RENK/ RS165RR	.	36.8	18.8	1	.	.	.	.	.	.
RENK/ RS156RR	124	36.2	19.0	1	.	.	.	.	.	.
Test avg. :	122	36.2	18.9	1	35.9	19.9	1	36.1	19.4	1
High avg. :	128	37.4	19.4	1	36.9	20.4	1	37.1	19.9	1
Low avg. :	116	35.2	18.2	1	34.8	19.4	1	35.0	18.9	1
* Lsd(.05) :	.	.	.	0	.	.	0	.	.	0
## TPG-avg. :	.	.	.	1	.	.	1	.	.	1
@ Coef. Var. :	.	.	.	0	.	.	0	.	.	0
No. Entries :		73	73	73	66	66	66	128	128	128

* DTM= average days from seeding (Brookings - May 22, Bancroft- May 30, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

** Lodging, 1= all plants erect, 5= all plant flat.

Lsd(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error.

Table 5a. Roundup Ready™ maturity group-II soybean variety yield averages- central South Dakota locations, 2005-2006.

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
PRAIRIE BRAND/ PB-2243RR	126	60	63	60	66	60	65
PRAIRIE BRAND/ PB-2421RR	127	56	65	58	62	57	64
KRUGER/ K-223+RR	125	55	63	55	64	55	64
MUSTANG/ M-203RR	127	60	63	53	62	57	63
DEKALB/ DKB22-52	124	59	63	53	62	56	63
HEFTY/ 226RR	126	57	61	57	62	57	62
KRUGER/ K-233+RR	129	59	62	55	61	57	62
KRUGER/ K-211+RR	126	61	63	50	60	56	62
NUTECH/ NT-2333RR	126	61	61	53	60	57	61
PRAIRIE BRAND/ PB-2141RR	130	58	62	43	57	51	60
MUSTANG/ M-207RR	124	61	.	56	.	59	.
PRAIRIE BRAND/ PB-2456RR	129	56	.	61	.	59	.
PUBLIC/ SDX00R-020-18	124	59	.	54	.	57	.
KRUGER/ K-255RR	128	58	.	54	.	56	.
KRUGER/ K-259RR	130	54	.	58	.	56	.
MIDWEST SEED/ GR2037	127	60	.	52	.	56	.
NUTECH/ NT-2626RR	128	56	.	54	.	55	.
KRUGER/ EXP226RR	127	55	.	54	.	55	.
KRUGER/ K-235RR/SCN	128	54	.	55	.	55	.
MIDWEST SEED/ GR2231	124	55	.	55	.	55	.
WENSMAN/ W 2200NRR	124	59	.	50	.	55	.
THOMPSON/ T-2220ARR	124	58	.	51	.	55	.
THOMPSON/ T-2213ARR	127	56	.	54	.	55	.
THOMPSON/ T-7206RR	124	58	.	52	.	55	.
PUBLIC/ SD02R-5	125	56	.	54	.	55	.
PUBLIC/ SD02R-51	121	57	.	53	.	55	.
KRUGER/ K-234RR	128	57	.	51	.	54	.
THOMPSON/ T-2666RR	129	56	.	52	.	54	.
PUBLIC/ SDX01R-00403128	124	53	.	54	.	54	.
PUBLIC/ SDX01R-007039	128	56	.	51	.	54	.
NUTECH/ NT-2220RR	127	58	.	47	.	53	.
NUTECH/ NT-2232RR	130	55	.	50	.	53	.
PUBLIC/ SD02R-48	124	57	.	48	.	53	.
ASGROW/ AG2002	121	59	.	44	.	52	.
NUTECH/ NT-2213RR	127	56	.	48	.	52	.
LATHAM/ EXP-E2253R	129	55	.	49	.	52	.
PRAIRIE BRAND/ PB-2216RR	128	54	.	49	.	52	.
WENSMAN/ W 2226RR	126	53	.	50	.	52	.
PUBLIC/ SD02R-50	124	55	.	49	.	52	.
PRAIRIE BRAND/ PB-2183NR	123	57	.	44	.	51	.
THOMPSON/ T-2444RR/SCN	127	50	.	46	.	48	.
ASGROW/ AG2107	.	58	63	.	.	.	.
COYOTE/ 9524RR	.	56	.	.	.	.	.
COYOTE/ 4523RR	.	56	61	.	.	.	.
COYOTE/ 4527RR	.	50	.	.	.	.	.

Table 5a. Roundup Ready™ maturity group-II soybean variety yield averages- central South Dakota locations, 2005-2006.

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
COYOTE/ EXP 622RR	.	57	.	.	.	.	.
COYOTE/ EXP 625NRR	.	51	.	.	.	.	.
COYOTE/ EXP 626RR	.	54	.	.	.	.	.
SANDS/ SOI 2151NRR	.	58	.	.	.	.	.
WECO/ EXP 6 2.0RR	.	61	.	.	.	.	.
WECO/ EXP 6 2.5RR-STS	.	55	.	.	.	.	.
RENK/ RS246NRR	.	52	.	.	.	.	.
Test avg. :	126	56	63	52+	62+	55	63
High value :	130	61	65	61	66	60	65
Low avg. :	121	50	61	43	57	48	60
# Lsd (.05) :		4	NS	NS	NS	NS	NS
## TPG-avg. :		57	61	43	57	48	60
@ Coef. Var. :		5	4	14	9	10	14
No. Entries :		52	12	41	10	82	20

* DTM= average days from seeding (Brookings- May 22, Bancroft- May 30, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

+ Location was hit by hail on July 13, 2006 resulting in a 40-50% stand defoliation.

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Table 5b. Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2006.

Brand/Variety (By 2006 zone protein)	DTM*	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
LATHAM/ EXP-E2253R	129	37.0	18.9	1	37.0	19.1	1	37.0	19.0	1
KRUGER/ EXP226RR	127	37.1	18.6	1	36.8	19.3	1	37.0	19.0	1
PUBLIC/ SDX01R-00403128	124	36.7	18.7	1	36.9	19.4	1	36.8	19.1	1
PUBLIC/ SDX01R-007039	128	36.9	18.6	1	36.7	19.0	1	36.8	18.8	1
PUBLIC/ SD02R-50	124	37.2	18.7	1	36.4	19.5	1	36.8	19.1	1
NUTECH/ NT-2213RR	127	37.1	18.8	1	36.4	19.5	1	36.8	19.2	1
PRAIRIE BRAND/ PB-2216RR	128	36.9	18.7	1	36.6	19.4	1	36.8	19.1	1
PRAIRIE BRAND/ PB-2141RR	130	36.4	19.1	1	37.0	19.4	1	36.7	19.3	1
THOMPSON/ T-2213ARR	127	36.6	18.9	1	36.8	19.5	1	36.7	19.2	1
WENSMAN/ W 2226RR	126	36.9	18.9	1	36.4	19.5	1	36.7	19.2	1
PUBLIC/ SD02R-5	125	36.8	18.8	1	36.5	19.8	1	36.7	19.3	1
KRUGER/ K-234RR	128	36.5	18.8	1	36.5	18.8	1	36.5	18.8	1
NUTECH/ NT-2626RR	128	36.4	18.8	1	36.5	19.1	1	36.5	19.0	1
KRUGER/ K-223+RR	125	36.8	18.6	1	36.1	19.5	1	36.5	19.1	1
KRUGER/ K-235RR/SCN	128	36.2	19.3	1	36.6	19.3	1	36.4	19.3	1
MIDWEST SEED/ GR2231	124	36.8	18.9	1	36.0	19.6	1	36.4	19.3	1
NUTECH/ NT-2232RR	130	36.2	19.1	1	36.5	19.9	1	36.4	19.5	1
PRAIRIE BRAND/ PB-2456RR	129	36.3	18.9	1	36.4	19.4	1	36.4	19.2	1
PRAIRIE BRAND/ PB-2243RR	126	36.6	19.1	1	36.0	19.8	1	36.3	19.5	1
THOMPSON/ T-2444RR/SCN	127	36.3	18.7	1	36.3	19.1	1	36.3	18.9	1
PRAIRIE BRAND/ PB-2421RR	127	36.1	18.6	1	36.4	19.4	1	36.3	19.0	1
KRUGER/ K-255RR	128	36.5	18.9	1	35.9	19.3	1	36.2	19.1	1
THOMPSON/ T-7206RR	124	36.7	19.2	1	35.7	19.7	1	36.2	19.5	1
MIDWEST SEED/ GR2037	127	36.1	19.0	1	36.1	19.5	1	36.1	19.3	1
MUSTANG/ M-203RR	127	36.3	19.2	1	35.9	19.7	1	36.1	19.5	1
KRUGER/ K-233+RR	129	35.9	19.0	1	36.2	19.2	1	36.1	19.1	1
PRAIRIE BRAND/ PB-2183NR	123	36.4	19.3	1	35.7	19.8	1	36.1	19.6	1
THOMPSON/ T-2666RR	129	36.2	19.1	1	35.9	19.3	1	36.1	19.2	1
PUBLIC/ SDX00R-020-18	124	36.1	18.8	1	36.0	19.6	1	36.1	19.2	1
MUSTANG/ M-207RR	124	36.0	19.0	1	35.8	19.6	1	35.9	19.3	1
NUTECH/ NT-2333RR	126	36.0	18.7	1	35.8	19.6	1	35.9	19.2	1
NUTECH/ NT-2220RR	127	36.5	18.7	1	35.3	19.5	1	35.9	19.1	1
HEFTY/ 226RR	126	36.0	18.9	1	35.8	19.5	1	35.9	19.2	1
THOMPSON/ T-2220ARR	124	36.8	18.6	1	35.0	19.5	1	35.9	19.1	1
PUBLIC/ SD02R-48	124	36.5	19.0	1	35.3	19.8	1	35.9	19.4	1
KRUGER/ K-259RR	130	35.6	18.8	1	36.1	19.0	1	35.9	18.9	1
PUBLIC/ SD02R-51	121	36.1	18.6	1	35.4	19.9	1	35.8	19.3	1
ASGROW/ AG2002	121	36.2	19.1	1	35.2	19.9	1	35.7	19.5	1
KRUGER/ K-211+RR	126	36.1	19.0	1	35.3	19.8	1	35.7	19.4	1
DEKALB/ DKB22-52	124	35.9	19.1	1	35.3	19.8	1	35.6	19.5	1

Table 5b. Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2006.

Brand/Variety (By 2006 zone protein)	DTM*	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
WENSMAN/ W 2200NRR	124	36.3	19.3	1	33.6	19.1	1	35.0	19.2	1
ASGROW/ AG2107	.	36.3	19.3	1	.	.	.	.	.	.
COYOTE/ 9524RR	.	35.9	19.1	1	.	.	.	.	.	.
COYOTE/ 4523RR	.	36.3	18.9	1	.	.	.	.	.	.
COYOTE/ 4527RR	.	35.5	18.9	1	.	.	.	.	.	.
COYOTE/ EXP 622RR	.	37.0	18.8	1	.	.	.	.	.	.
COYOTE/ EXP 625NRR	.	36.8	18.7	1	.	.	.	.	.	.
COYOTE/ EXP 626RR	.	36.5	18.9	1	.	.	.	.	.	.
SANDS/ SOI 2151NRR	.	36.5	19.3	1	.	.	.	.	.	.
WECO/ EXP 6 2.0RR	.	36.4	19.0	1	.	.	.	.	.	.
WECO/ EXP 6 2.5RR-STS	.	36.3	18.5	1	.	.	.	.	.	.
RENK/ RS246NRR	.	36.6	18.8	1	.	.	.	.	.	.
Test avg. :	126.0	36.4	18.9	1	36.1	19.5	1	36.2	19.2	1
High avg. :	130.0	37.2	19.3	1	37.0	19.9	1	37.0	19.6	1
Low avg. :	121.0	35.5	18.5	1	33.6	18.8	1	35.0	18.8	1
* Lsd(.05) :	.	.	.	0	.	.	0	.	.	0
## TPG-avg. :	.	.	.	1	.	.	1	.	.	1
### Coef.Var. :	.	.	.	0	.	.	0	.	.	0
No. Entries :		52	52	52	41	41	41	82	82	82

* DTM= average days from seeding (Brookings- May 25, Bancroft- May 27, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

** Lodging, 1= all plants erect, 5= all plant flat.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 6a. Roundup Ready™ maturity group-I soybean variety yield averages- southern South Dakota locations, 2005-2006.

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	Southern Averages by Location				Southern Zone Averages	
		Beresford		Geddes		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
THOMPSON/ T-7205+RR	124	64	59	48	38	56	49
ASGROW/ AG1903	120	60	56	50	41	55	49
NORTHSTAR/ NS 1809RR	122	65	57	47	38	56	48
KRUGER/ K-195+RR/SCN	121	64	59	48	35	56	47
NUTECH/ NT-1909RR	123	57	57	48	37	53	47
KRUGER/ K-177RR	118	63	58	46	33	55	46
PRAIRIE BRAND/ PB-1954RR	122	59	56	48	36	54	46
PUBLIC/ SDX00R-026-42N	123	61	57	44	34	53	46
KRUGER/ K-156RR	117	57	56	39	32	48	44
PUBLIC/ SD01-3219R	123	56	51	44	33	50	42
SODAK GENET./ SD1111RR	113	47	49	38	30	43	40
PRAIRIE BRAND/ PB-1956RR	125	67	.	52	.	60	.
ASGROW/ AG1702	118	61	.	50	39	56	.
HEFTY/ 195RR	124	64	.	47	.	56	.
KRUGER/ K-188RR/SCN	121	67	.	45	.	56	.
PRAIRIE BRAND/ PB-1916RR	125	65	.	47	.	56	.
WENSMAN/ W 2195NRR	124	61	.	50	.	56	.
NUTECH/ NT-1991RR	123	61	.	49	.	55	.
KRUGER/ K-194RR	123	61	.	49	.	55	.
SANDS/ SOI 1874NRR	120	60	.	48	.	54	.
PRAIRIE BRAND/ PB-1885NR	122	62	.	45	.	54	.
WENSMAN/ W 2172NRR	121	62	.	46	.	54	.
WENSMAN/ W 2163RR	119	61	.	45	.	53	.
NORTHSTAR/ NS 1521NRR	116	60	.	43	.	52	.
WENSMAN/ W 2168NRR	118	55	.	43	.	49	.
KRUGER/ K-140RR	116	54	.	42	.	48	.
COYOTE/ 4719RR	128	.	.	51	38	.	.
MUSTANG/ M-194NRR	123	63	.	.	.	.	.
WECO/ EXP 6 1.5RR	123	.	.	48	.	.	.
GOLD COUNTRY SEED/2717NR	117	62	.	.	.	.	.
STINE/ 1918-4	118	62	58	.	.	.	.
Test avg. :	121	61	56	46	36	53	46
High avg. :	128	67	59	52	41	60	49
Low avg. :	113	47	49	38	30	43	40
# Lsd (.05) :		5	NS	4	6	3	.
## TPG-avg. :		62	49	48	35	57	.
@ Coef. Var. :		5	6	6	8	5	20+
No. Entries :		29	12	28	13	52	22

* DTM= average days from seeding (Beresford- May 17, Geddes- May 25 , 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

Lsd(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

+ .Lsd and TPG-avg. values are not reported because the Coef. of Variation exceeds 15%.

Table 6b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2006.

Brand/Variety (By 2006 zone protein)	DTM*	Southern Averages by Location						Southern Zone Averages		
		Beresford			Geddes			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
KRUGER/ K-156RR	117	36.9	19.6	1	38.3	19.2	1	37.6	19.4	1
WENSMAN/ W 2168NRR	118	37.1	19.7	2	37.9	19.7	1	37.5	19.7	2
WENSMAN/ W 2163RR	119	37.3	19.3	2	37.3	19.6	1	37.3	19.5	1
NORTHSTAR/ NS 1521NRR	116	37.0	19.8	2	37.5	19.8	1	37.3	19.8	2
PUBLIC/ SDX00R-026-42N	123	37.0	19.4	2	37.5	19.4	1	37.3	19.4	2
KRUGER/ K-140RR	116	36.3	19.8	2	37.6	19.4	1	37.0	19.6	1
SODAK GENET./ SD1111RR	113	36.4	20.0	3	37.5	19.7	1	37.0	19.9	2
WENSMAN/ W 2195NRR	124	36.7	19.7	2	37.1	19.9	1	36.9	19.8	1
ASGROW/ AG1903	120	36.8	19.3	1	37.0	19.5	1	36.9	19.4	1
ASGROW/ AG1702	118	36.5	19.8	2	37.2	19.6	1	36.9	19.7	2
KRUGER/ K-195+RR/SCN	121	36.6	19.8	2	37.1	20.0	1	36.9	19.9	2
NUTECH/ NT-1909RR	123	36.8	19.6	2	36.9	19.7	1	36.9	19.7	1
HEFTY/ 195RR	124	36.8	19.6	2	36.9	19.8	1	36.9	19.7	2
PUBLIC/ SD01-3219R	123	36.5	19.5	2	37.0	19.5	1	36.8	19.5	2
WENSMAN/ W 2172NRR	121	36.5	19.8	2	36.8	19.8	1	36.7	19.8	1
SANDS/ SOI 1874NRR	120	36.5	20.0	2	36.7	19.9	1	36.6	20.0	1
THOMPSON/ T-7205+RR	124	36.7	19.5	2	36.5	19.8	1	36.6	19.7	1
KRUGER/ K-188RR/SCN	121	36.4	19.9	2	36.7	20.1	1	36.6	20.0	2
PRAIRIE BRAND/ PB-1954RR	122	36.4	19.5	2	36.7	19.7	1	36.6	19.6	2
KRUGER/ K-177RR	118	36.4	19.6	2	36.6	19.5	1	36.5	19.6	2
KRUGER/ K-194RR	123	36.8	19.3	2	36.2	19.9	1	36.5	19.6	1
PRAIRIE BRAND/ PB-1916RR	125	36.6	19.4	2	36.4	19.7	1	36.5	19.6	1
PRAIRIE BRAND/ PB-1885NR	122	36.2	19.9	2	36.6	19.9	1	36.4	19.9	1
NORTHSTAR/ NS 1809RR	122	36.6	19.4	2	36.2	19.6	1	36.4	19.5	2
NUTECH/ NT-1991RR	123	36.5	19.5	2	36.2	19.7	1	36.4	19.6	1
PRAIRIE BRAND/ PB-1956RR	125	35.9	19.7	3	35.7	19.9	1	35.8	19.8	2
COYOTE/ 4719RR	128	.	.	.	36.5	19.7	1	.	.	.
MUSTANG/ M-194NRR	123	36.5	19.8	2	.	.	.	.	.	.
WECO/ EXP 6 1.5RR	123	.	.	.	36.8	20.0	1	.	.	.
GOLD COUNTRY SEED/2717NR	117	36.4	20.0	2	.	.	.	.	.	.
STINE/ 1918-4	118	36.8	19.7	2	.	.	.	.	.	.
Test avg. :	121	36.6	19.7	2	36.9	19.7	1	36.8	19.7	1
High avg. :	128	37.3	20.0	3	38.3	20.1	1	37.6	20.0	2
Low avg. :	113	35.9	19.3	1	35.7	19.2	1	35.8	19.4	1
* Lsd(.05) :	.	.	.	1	.	.	0	.	.	0.4
## TPG-avg. :	.	.	.	2	.	.	1	.	.	1
@ Coef. Var. :	.	.	.	22	.	.	0	.	.	22
No. Entries :		29	29	29	28	28	28	52	52	52

* DTM= average days from seeding (Beresford- May 17, Geddes- May 25, 2006) to maturity; a missing value indicates a site received a hard frost before the variety reached maturity.

** Lodging, 1= all plants erect, 5= all plant flat.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not, significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 7a. Roundup Ready™ maturity group-II soybean variety yield averages- southern South Dakota locations, 2005-2006.

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	Southern Averages by Location				Southern Zone Averages	
		Beresford		Geddes		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
DEKALB/ DKB25-51	127	76	66	48	40	62	53
SANDS/ SOI 2448RR	127	67	63	47	38	57	51
KRUGER/ K-233+RR	126	68	62	46	37	57	50
KRUGER/ K-289+RR	131	66	61	46	39	56	50
SANDS/ SOI 2754RR	131	64	58	49	39	57	49
PRAIRIE BRAND/ PB-2141RR	125	69	62	43	36	56	49
PRAIRIE BRAND/ PB-2421RR	126	68	61	44	36	56	49
PRAIRIE BRAND/ PB-2643RR	130	65	58	47	38	56	48
ASGROW/ AG2403	124	66	62	43	33	55	48
MUSTANG/ M-264RR	130	65	59	44	37	55	48
COYOTE/ 9524RR	127	61	59	45	36	53	48
LATHAM/ L2635R	129	65	57	47	37	56	47
DAIRYLAND/ DSR2500RRSTS	128	63	57	48	37	56	47
SANDS/ SOI 2673RR	126	66	60	42	34	54	47
SANDS/ SOI 2884RR	130	64	58	44	35	54	47
PRAIRIE BRAND/ PB-2243RR	125	64	59	44	34	54	47
NUTECH/ NT-2890RR	129	61	57	44	37	53	47
RENK/ RS265RR	129	60	59	44	34	52	47
DAIRYLAND/ DSR-234/RR	124	62	56	45	36	54	46
NUTECH/ NT-2770RR/SCN	129	57	55	48	37	53	46
DAIRYLAND/ DSR-2600/RR	129	63	56	42	35	53	46
PRAIRIE BRAND/ PB-2565RR	131	59	55	47	36	53	46
KRUGER/ K-255RR	127	64	54	45	35	55	45
KRUGER/ K-223+RR	124	61	56	41	32	51	44
DAIRYLAND/ DSR-2300/RR	126	68	.	49	.	59	.
THOMPSON/ T-2220ARR	126	68	.	50	.	59	.
ASGROW/ AG2605	127	70	.	46	.	58	.
MUSTANG/ M-207RR	124	67	.	48	.	58	.
KRUGER/ K-259RR	131	66	.	49	.	58	.
LATHAM/ EXP-E2810R	131	66	.	49	.	58	.
DAIRYLAND/ DSR-2200/RR	127	68	.	48	.	58	.
LATHAM/ L2500R	126	68	.	46	.	57	.
LATHAM/ L2646R	128	67	.	46	.	57	.
PRAIRIE BRAND/ PB-2645RR	130	70	.	44	.	57	.
CROW'S/ C2917R	133	66	.	47	.	57	.
SANDS/ SOI 2609RR	131	66	.	45	.	56	.
DAIRYLAND/ DSR-2511/RR	133	64	.	47	.	56	.
MIDWEST SEED/ GR2731	131	65	.	46	.	56	.
THOMPSON/ T-2213ARR	127	66	.	45	.	56	.
THOMPSON/ T-2666RR	129	68	.	44	.	56	.
FARM ADVANTAGE/ 7224	126	66	.	44	.	55	.
NUTECH/ NT-2777RR/SCN	132	60	.	49	.	55	.
NUTECH/ NT-2890+RR	130	64	.	45	.	55	.
KRUGER/ K-234RR	126	64	.	45	.	55	.
LATHAM/ L2775R	129	63	.	47	.	55	.

Table 7a. Roundup Ready™ maturity group-II soybean variety yield averages- southern South Dakota locations, 2005-2006 (continued).

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	Southern Averages by Location				Southern Zone Averages	
		Beresford		Geddes		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
DAIRYLAND/ DSR2000RRSTS	123	66	.	44	.	55	.
DAIRYLAND/ DSR-2820/RR	125	67	.	43	.	55	.
WENSMAN/ W 2253RR	129	62	.	47	.	55	.
WENSMAN/ W 2200NRR	123	66	.	43	.	55	.
WENSMAN/ W 2226RR	127	63	.	46	.	55	.
THOMPSON/ T-2300RR	127	63	.	47	.	55	.
CROW'S/ C2618R	128	62	.	47	.	55	.
FARM ADVANTAGE/ 7253	129	60	.	47	.	54	.
NUTECH/ NT-2333RR	123	64	.	43	.	54	.
NUTECH/ NT-2220RR	125	62	.	45	.	54	.
WECO/ EXP 6 2.0RR	125	67	.	40	.	54	.
WECO/ EXP 6 2.8RR-SCN	135	64	.	44	.	54	.
DAIRYLAND/ DSR2702RRSTS	129	62	.	46	.	54	.
PRAIRIE BRAND/ PB-2456RR	127	59	.	48	.	54	.
PRAIRIE BRAND/ PB-2536RR	129	62	.	46	.	54	.
THOMPSON/ T-2707RR	131	59	.	49	.	54	.
THOMPSON/ T-2999RR	132	65	.	42	.	54	.
PUBLIC/ SD02R-48	122	61	.	46	.	54	.
MUSTANG/ M-227RR	126	65	.	41	.	53	.
MUSTANG/ M-237RR	125	61	.	45	.	53	.
DEKALB/ DKB27-53	131	59	.	47	.	53	.
NUTECH/ NT-2213RR	126	60	.	45	.	53	.
WECO/ EXP 6 2.5RR-ST5	129	60	.	46	.	53	.
PRAIRIE BRAND/ PB-2216RR	126	61	.	45	.	53	.
MIDWEST SEED/ GR2037	124	63	.	43	.	53	.
MIDWEST SEED/ GR2651	128	60	.	45	.	53	.
THOMPSON/ T-2626RR	126	59	.	47	.	53	.
ASGROW/ AG2802	132	57	.	47	.	52	.
MUSTANG/ M-257RR	129	61	.	43	.	52	.
NUTECH/ NT-2232RR	130	62	.	42	.	52	.
HEFTY/ 226RR	123	60	.	44	.	52	.
HEFTY/ 266RR	130	59	.	45	.	52	.
KRUGER/ K-235RR/SCN	125	59	.	45	.	52	.
PRAIRIE BRAND/ PB-2636NR	130	59	.	44	.	52	.
RENK/ RS246NRR	124	57	.	46	.	52	.
MUSTANG/ M-246NRR	125	59	.	42	.	51	.
WECO/ EXP 6 2.6RR-SCN	128	57	.	45	.	51	.
KRUGER/ K-211+RR	125	61	.	40	.	51	.
PUBLIC/ SD02R-5	123	60	.	41	.	51	.
PUBLIC/ SD02R-51	124	61	.	41	.	51	.
SANDS/ SOI 2675NRR	126	60	.	40	.	50	.
KRUGER/ K-287RR/SCN	131	56	.	43	.	50	.
LATHAM/ EXP-E2976R	132	56	.	44	.	50	.
DAIRYLAND/ DST22-003/RR	124	57	.	43	.	50	.
MUSTANG/ M-247NRR	127	57	.	41	.	49	.

Table 7a. Roundup Ready™ maturity group-II soybean variety yield averages- southern South Dakota locations, 2005-2006 (continued).

Brand/Variety (By 2-yr then 2006 zone yield)	DTM*	Southern Averages by Location				Southern Zone Averages	
		Beresford		Geddes		Bu/Acre 2006	Bu/Acre 2-Yr
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr		
SANDS/ SOI 2511NRR	128	56	.	42	.	49	.
THOMPSON/ T-2444RR/SCN	126	56	.	40	.	48	.
COYOTE/ 4523RR	127	.	.	43	.	.	.
COYOTE/ 4527RR	132	64	59	.	.	.	.
COYOTE/ EXP 622RR	127	.	.	46	.	.	.
COYOTE/ EXP 625NRR	125	54	.	.	.	.	.
COYOTE/ EXP 626RR	133	66	.	.	.	.	.
MUSTANG/ M-203RR	122	66	61	.	.	.	.
DEKALB/ DKB22-52	123	66	61	.	.	.	.
DEKALB/ DKB26-53	126	64	59	.	.	.	.
SANDS/ SOI 2151NRR	125	.	.	46	36	.	.
KALTENBERG/ KB256RR	128	62	58	.	.	.	.
KALTENBERG/ KB276RR	131	69	62	.	.	.	.
KALTENBERG/ KB258RR	126	64	.	.	.	.	.
KALTENBERG/ KB266RR	129	64	.	.	.	.	.
ZILLER/ BT 7227NR	121	60	.	.	.	.	.
Test avg. :	128	63	59	45	36	54	48
High avg. :	135	76	66	50	40	62	53
Low avg. :	121	54	54	40	32	48	44
# Lsd (.05) :		7	6	4	4	4	.
## TPG-avg. :		69	60	46	36	58	.
@ Coef. Var. :		7	6	6	7	7	19+
No. Entries :		103	30	95	25	184	48

* DTM= average days from seeding (Beresford- May 17, Geddes- May 25, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

+ Lsd and TPG-avg. values are not reported because the Coef. of Variation exceeds 15%.

Table 7b. Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2006.

Brand/Variety (By 2006 zone protein)	DTM*	Southern Averages by Location						Southern Zone Averages		
		Beresford			Geddes			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
DAIRYLAND/ DSR2000RRSTS	123	37.6	19.3	2	37.1	19.5	1	37.4	19.4	1
MUSTANG/ M-227RR	126	36.9	19.5	2	37.3	19.5	1	37.1	19.5	2
NUTECH/ NT-2770RR/SCN	129	36.8	18.9	2	37.4	19.2	1	37.1	19.1	2
THOMPSON/ T-2707RR	131	36.8	19.2	3	37.3	19.2	1	37.1	19.2	2
LATHAM/ L2500R	126	37.0	19.3	2	37.0	19.5	1	37.0	19.4	2
WENSMAN/ W 2226RR	127	37.1	19.4	2	36.9	19.5	1	37.0	19.5	2
NUTECH/ NT-2213RR	126	36.8	19.4	2	37.1	19.4	1	37.0	19.4	2
DAIRYLAND/ DSR-2200/RR	127	36.9	19.4	2	37.0	19.5	1	37.0	19.5	1
PRAIRIE BRAND/ PB-2565RR	131	36.9	19.0	2	37.0	19.4	1	37.0	19.2	2
THOMPSON/ T-2213ARR	127	36.8	19.5	2	37.1	19.7	1	37.0	19.6	2
FARM ADVANTAGE/ 7224	126	36.9	19.4	2	36.9	19.7	1	36.9	19.6	2
CROW'S/ C2618R	128	37.0	19.2	2	36.8	19.4	1	36.9	19.3	2
MIDWEST SEED/ GR2651	128	36.7	19.2	2	37.0	19.4	1	36.9	19.3	1
FARM ADVANTAGE/ 7253	129	36.8	19.1	2	36.9	19.4	1	36.9	19.3	2
WECO/ EXP 6 2.5RR-ST5	129	36.9	19.2	3	36.8	19.4	1	36.9	19.3	2
KRUGER/ K-255RR	127	36.9	19.2	2	36.8	19.5	1	36.9	19.4	2
PRAIRIE BRAND/ PB-2216RR	126	36.6	19.6	2	37.0	19.6	1	36.8	19.6	2
WENSMAN/ W 2253RR	129	36.7	19.2	2	36.9	19.4	1	36.8	19.3	2
WECO/ EXP 6 2.6RR-SCN	128	36.8	19.4	2	36.7	19.6	1	36.8	19.5	2
LATHAM/ L2635R	129	36.6	19.4	2	36.9	19.4	1	36.8	19.4	2
DAIRYLAND/ DSR2702RRSTS	129	36.7	19.3	2	36.8	19.3	1	36.8	19.3	1
THOMPSON/ T-2444RR/SCN	126	36.8	18.8	3	36.7	19.4	1	36.8	19.1	2
RENK/ RS265RR	129	36.7	19.1	2	36.8	19.5	1	36.8	19.3	2
MUSTANG/ M-247NRR	127	36.7	19.0	3	36.7	19.2	1	36.7	19.1	2
MUSTANG/ M-257RR	129	36.6	19.1	2	36.8	19.4	1	36.7	19.3	2
KRUGER/ K-223+RR	124	36.7	19.2	1	36.7	19.4	1	36.7	19.3	1
LATHAM/ EXP-E2976R	132	36.5	19.1	3	36.9	19.3	1	36.7	19.2	2
DAIRYLAND/ DST22-003/RR	124	36.6	19.4	2	36.8	19.4	1	36.7	19.4	2
THOMPSON/ T-2626RR	126	36.6	19.5	1	36.8	19.5	1	36.7	19.5	1
SANDS/ SOI 2511NRR	128	36.6	18.9	3	36.7	19.2	1	36.7	19.1	2
PRAIRIE BRAND/ PB-2141RR	125	36.6	19.6	1	36.7	19.6	1	36.7	19.6	1
DAIRYLAND/ DSR-234/RR	124	36.5	19.4	1	36.8	19.4	1	36.7	19.4	1
DAIRYLAND/ DSR2500RRSTS	128	36.6	19.2	2	36.6	19.5	1	36.6	19.4	2
WENSMAN/ W 2200NRR	123	36.7	19.6	1	36.5	19.6	1	36.6	19.6	1
KRUGER/ K-287RR/SCN	131	36.3	19.1	3	36.9	19.3	1	36.6	19.2	2
MUSTANG/ M-246NRR	125	36.1	19.5	2	37.0	19.4	1	36.6	19.5	2
HEFTY/ 266RR	130	36.6	19.2	1	36.5	19.3	1	36.6	19.3	1
PRAIRIE BRAND/ PB-2243RR	125	36.6	19.5	1	36.5	19.6	1	36.6	19.6	1
RENK/ RS246NRR	124	36.5	19.3	1	36.6	19.4	1	36.6	19.4	1
CROW'S/ C2917R	133	36.5	19.2	3	36.6	19.6	1	36.6	19.4	2
HEFTY/ 226RR	123	36.7	19.5	1	36.3	19.6	1	36.5	19.6	1
KRUGER/ K-233+RR	126	36.5	19.5	1	36.5	19.6	1	36.5	19.6	1
KRUGER/ K-235RR/SCN	125	36.5	19.4	1	36.5	19.7	1	36.5	19.6	1
PRAIRIE BRAND/ PB-2456RR	127	36.5	19.5	2	36.5	19.3	1	36.5	19.4	2
MIDWEST SEED/ GR2037	124	36.7	19.6	1	36.3	19.7	1	36.5	19.7	1

Table 7b. Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2006 (continued).

Brand/Variety (By 2006 zone protein)	DTM*	Southern Averages by Location						Southern Zone Averages		
		Beresford			Geddes			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
THOMPSON/ T-2220ARR	126	36.3	19.1	2	36.7	19.4	1	36.5	19.3	1
ASGROW/ AG2403	124	36.3	19.6	1	36.6	19.6	1	36.5	19.6	1
ASGROW/ AG2605	127	36.4	19.4	2	36.5	19.4	1	36.5	19.4	2
MUSTANG/ M-207RR	124	36.4	19.4	1	36.5	19.6	1	36.5	19.5	1
MUSTANG/ M-237RR	125	36.5	19.4	2	36.4	19.4	1	36.5	19.4	1
LATHAM/ EXP-E2810R	131	36.3	19.0	2	36.6	19.4	1	36.5	19.2	2
PRAIRIE BRAND/ PB-2643RR	130	36.5	19.2	2	36.3	19.6	1	36.4	19.4	2
PUBLIC/ SD02R-5	123	36.4	19.5	1	36.4	19.7	1	36.4	19.6	1
KRUGER/ K-289+RR	131	36.6	19.2	2	36.1	19.7	1	36.4	19.5	2
SANDS/ SOI 2754RR	131	36.3	19.2	2	36.4	19.4	1	36.4	19.3	1
KRUGER/ K-211+RR	125	36.3	19.5	1	36.4	19.7	1	36.4	19.6	1
LATHAM/ L2775R	129	36.4	19.3	1	36.3	19.6	1	36.4	19.5	1
ASGROW/ AG2802	132	35.8	19.4	3	36.8	19.3	1	36.3	19.4	2
SANDS/ SOI 2675NRR	126	36.2	19.7	2	36.4	19.6	1	36.3	19.7	1
NUTECH/ NT-2220RR	125	36.2	19.2	1	36.4	19.3	1	36.3	19.3	1
THOMPSON/ T-2300RR	127	36.3	19.4	2	36.3	19.6	1	36.3	19.5	2
NUTECH/ NT-2333RR	123	36.3	19.4	2	36.2	19.6	1	36.3	19.5	2
WECO/ EXP 6 2.0RR	125	36.6	19.3	1	35.9	19.8	1	36.3	19.6	1
KRUGER/ K-234RR	126	36.3	19.4	2	36.2	19.6	1	36.3	19.5	1
LATHAM/ L2646R	128	36.3	19.1	2	36.2	19.3	1	36.3	19.2	2
DAIRYLAND/ DSR-2300/RR	126	36.2	19.4	2	36.3	19.6	1	36.3	19.5	1
DAIRYLAND/ DSR-2820/RR	125	36.3	19.1	1	36.2	19.5	1	36.3	19.3	1
DAIRYLAND/ DSR-2511/RR	133	36.1	19.3	2	36.4	19.6	1	36.3	19.5	2
PRAIRIE BRAND/ PB-2421RR	126	36.2	19.4	1	36.3	19.4	1	36.3	19.4	1
PRAIRIE BRAND/ PB-2536RR	129	36.4	19.2	2	36.1	19.4	1	36.3	19.3	1
MUSTANG/ M-264RR	130	36.5	19.1	3	35.9	19.5	1	36.2	19.3	2
KRUGER/ K-259RR	131	36.5	19.3	2	35.9	19.6	1	36.2	19.5	2
SANDS/ SOI 2884RR	130	35.7	19.6	2	36.5	19.5	1	36.1	19.6	2
MIDWEST SEED/ GR2731	131	36.1	19.4	3	36.1	19.6	1	36.1	19.5	2
PUBLIC/ SD02R-48	122	36.2	19.5	1	36.0	19.7	1	36.1	19.6	1
NUTECH/ NT-2777RR/SCN	132	35.9	19.5	2	36.3	19.5	1	36.1	19.5	2
NUTECH/ NT-2890RR	129	36.2	19.1	2	35.9	19.6	1	36.1	19.4	1
NUTECH/ NT-2890+RR	130	36.2	19.2	1	35.9	19.7	1	36.1	19.5	1
PRAIRIE BRAND/ PB-2645RR	130	36.2	19.2	2	35.9	19.7	1	36.1	19.5	2
SANDS/ SOI 2448RR	127	36.1	19.5	2	35.9	19.9	1	36.0	19.7	1
WECO/ EXP 6 2.8RR-SCN	135	35.4	19.3	3	36.6	19.3	1	36.0	19.3	2
PRAIRIE BRAND/ PB-2636NR	130	35.7	19.5	3	36.3	19.4	1	36.0	19.5	2
DAIRYLAND/ DSR-2600/RR	129	36.2	19.0	2	35.7	19.4	1	36.0	19.2	2
PUBLIC/ SD02R-51	124	36.0	19.5	1	35.8	19.7	1	35.9	19.6	1
NUTECH/ NT-2232RR	130	36.0	19.5	2	35.7	19.9	1	35.9	19.7	2
DEKALB/ DKB27-53	131	35.8	19.4	3	35.9	19.8	1	35.9	19.6	2
SANDS/ SOI 2609RR	131	35.9	19.5	2	35.7	19.7	1	35.8	19.6	2
DEKALB/ DKB25-51	127	35.8	19.7	2	35.6	19.9	1	35.7	19.8	2
THOMPSON/ T-2666RR	129	35.6	19.8	1	35.7	19.8	1	35.7	19.8	1
COYOTE/ 9524RR	127	35.4	19.6	1	35.6	19.9	1	35.5	19.8	1

Table 7b. Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2006 (continued).

Brand/Variety (By 2006 zone protein)	DTM*	Southern Averages by Location						Southern Zone Averages		
		Beresford			Geddes			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
THOMPSON/ T-2999RR	132	35.4	19.8	3	35.5	19.6	1	35.5	19.7	2
SANDS/ SOI 2673RR	126	35.6	19.5	2	34.8	19.2	1	35.2	19.4	1
COYOTE/ 4523RR	127	.	.	.	36.2	19.5	1	.	.	.
COYOTE/ 4527RR	132	36.3	19.3	1	.	.	.	.	.	.
COYOTE/ EXP 622RR	127	.	.	.	37.1	19.6	1	.	.	.
COYOTE/ EXP 625NRR	125	36.9	19.0	2	.	.	.	.	.	.
COYOTE/ EXP 626RR	133	36.5	19.0	2	.	.	.	.	.	.
MUSTANG/ M-203RR	122	36.8	19.4	1	.	.	.	.	.	.
DEKALB/ DKB22-52	123	36.8	19.6	1	.	.	.	.	.	.
DEKALB/ DKB26-53	126	37.0	19.4	2	.	.	.	.	.	.
SANDS/ SOI 2151NRR	125	.	.	.	36.1	20.1	1	.	.	.
KALTENBERG/ KB256RR	128	36.4	19.3	1	.	.	.	.	.	.
KALTENBERG/ KB276RR	131	36.1	19.3	2	.	.	.	.	.	.
KALTENBERG/ KB258RR	126	36.7	19.4	2	.	.	.	.	.	.
KALTENBERG/ KB266RR	129	36.8	19.0	3	.	.	.	.	.	.
ZILLER/ BT 7227NR	121	37.0	19.4	1	.	.	.	.	.	.
Test avg. :	128	36.4	19.3	2	36.5	19.5	1	36.4	19.4	1
High avg. :	135	37.6	19.8	3	37.4	20.1	1	37.4	19.8	2
Low avg. :	121	35.4	18.8	1	34.8	19.2	1	35.2	19.1	1
* Lsd(.05) :	.	.	.	1	.	.	0	.	.	0.4
## TPG-avg. :	.	.	.	2	.	.	1	.	.	1
@ Coef. Var. :	.	.	.	28	.	.	0	.	.	26
No. Entries :		103	103	103	95	95	95	184	184	184

* DTM= average days from seeding (Beresford- May 17, Geddes- May 25, 2006) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

** Lodging, 1= all plants erect, 5= all plant flat.

Lsd(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error.

Table D. 2006 Conventional soybean entries by brand/variety, maturity group, and gene for *Phytophthora* root rot resistance as reported by entrants; and performance table number(s).

Brand / Variety	Mat. Grp.	Gene Resistance	Table No.(s)
COYOTE/ 5525	2.5	Rps1k	9,10
DAIRYLAND/ DSR-22/STSUL	2.2	Not Reported	9,10
RICHLAND ORGANICS/ 9061	0.9	rps1 - No resist.	8
RICHLAND ORGANICS/ 9532	0.9	rps1 - No resist.	8
SANDS/ EXP2879N	2.8	Not Reported	10
SANDS/ SOI 239N	2.3	Not Reported	10

Public varieties & Experimental lines

PUBLIC/ HAMLIN	0.9	Rps1k	8,9
PUBLIC/ SURGE	0.7	Rps1 (Rps1a)	8,9
PUBLIC/ SD00-1587	2	Not Reported	9,10
PUBLIC/ SD00-167	1	Not Reported	8,9
PUBLIC/ SD00-266	1	Not Reported	8,9,10
PUBLIC/ SD00-632	1	Not Reported	8,9,10
PUBLIC/ SD00-732	2	Not Reported	9,10
PUBLIC/ SD00-833	0	Rps1k	8,9
PUBLIC/ SD00-895	0	Rps1c	8
PUBLIC/ SD02-1045	1	Rps1k, Rps6	8,9
PUBLIC/ SD02-1138	1	Rps1c	8,9,10
PUBLIC/ SD02-14	1	Rps1k	8,9
PUBLIC/ SD02-195	2	Not Reported	9,10
PUBLIC/ SD02-22	2	Not Reported	9,10
PUBLIC/ SD02-26	2	Not Reported	9,10
PUBLIC/ SD02-829	0	Rps1k	8,9
PUBLIC/ SD02-906	1	Rps1k	8,9,10
PUBLIC/ SD02-911	1	Rps1k	8,9
PUBLIC/ SD02-923	1	Rps1k	8,9
PUBLIC/ SD02-96	2	Not Reported	9,10
PUBLIC/ SD03-1537	0	Rps1k	8,9
PUBLIC/ SD03-1607	1	Rps1k	8,9,10
PUBLIC/ SD03-1899	1	Rps1k	8,9,10
PUBLIC/ SD03-2154	0	Rps1k	8,9
PUBLIC/ SD03-2327	0	Rps1k	8,9

Strain or race resistance by gene type is reported in table B.

Table 8a. Non-Roundup Ready™ maturity group-0 and -I soybean variety yield averages- South Shore, South Dakota, 2005-2006.

Brand/Variety (By maturity group & 2006 yield)	DTM*	Averages by Maturity Group			
		MG-0		MG-I	
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr
PUBLIC/ SD03-1537	125	31	.	.	.
PUBLIC/ SD00-833	123	29	.	.	.
PUBLIC/ SD03-2327	121	27	.	.	.
PUBLIC/ HAMLIN	120	24	33	.	.
PUBLIC/ SURGE	120	23	33	.	.
PUBLIC/ SD02-829	124	22	33	.	.
RICHLAND ORGANICS/ 9532	113	21	.	.	.
PUBLIC/ SD00-895	124	21	.	.	.
PUBLIC/ SD03-2154	119	21	.	.	.
RICHLAND ORGANICS/ 9061	116	20	.	.	.
PUBLIC/ SD00-632	.	.	.	26	35
PUBLIC/ SD02-14	.	.	.	25	35
PUBLIC/ SD03-1899	.	.	.	25	.
PUBLIC/ SD02-1045	.	.	.	24	.
PUBLIC/ SD00-266	124	.	.	23	.
PUBLIC/ SD02-1138	123	.	.	23	.
PUBLIC/ SD03-1607	124	.	.	23	.
PUBLIC/ SD02-911	.	.	.	22	.
PUBLIC/ SD02-923	.	.	.	22	.
PUBLIC/ SD00-167	124	.	.	21	.
PUBLIC/ SD02-906	.	.	.	21	33
Test avg.:	121	24	33	23	34
High avg.:	125	31	33	26	35
Low avg. :	113	20	33	21	33
# Lsd (.05):		3	NS	3	NS
## TPG-value:		28	33	23	33
@ Coef. Var.:		7	8	7	7
No. Entries:		10	3	11	3

* DTM= average days from seeding on May 23, 2006 to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 8b. Non-Roundup Ready™ maturity group-0 and -I soybean variety protein, oil, and lodging score averages- South Shore, South Dakota, 2006.

Brand/Variety (By maturity group & protein)	DTM*	2006 Averages by Maturity Group					
		MG-0			MG-I		
		Protein %	Oil %	Lodging* (1-5)	Protein %	Oil %	Lodging* (1-5)
RICHLAND ORGANICS/ 9061	116	39.3	17.1	1	.	.	.
PUBLIC/ HAMLIN	120	37.9	19.0	1	.	.	.
PUBLIC/ SURGE	120	37.7	19.0	1	.	.	.
PUBLIC/ SD00-895	124	37.3	18.8	1	.	.	.
PUBLIC/ SD00-833	123	37.0	18.9	1	.	.	.
PUBLIC/ SD02-829	124	37.0	19.0	1	.	.	.
PUBLIC/ SD03-1537	125	36.9	18.8	1	.	.	.
PUBLIC/ SD03-2327	121	36.8	19.0	1	.	.	.
PUBLIC/ SD03-2154	119	36.6	19.4	1	.	.	.
RICHLAND ORGANICS/ 9532	113	36.3	19.5	1	.	.	.
PUBLIC/ SD00-632	.	.	.	.	37.3	18.6	1
PUBLIC/ SD00-167	124	.	.	.	37.0	19.0	1
PUBLIC/ SD02-14	.	.	.	.	36.6	19.0	1
PUBLIC/ SD00-266	124	.	.	.	36.4	19.0	1
PUBLIC/ SD03-1607	124	.	.	.	36.4	19.1	1
PUBLIC/ SD02-906	.	.	.	.	36.3	19.3	1
PUBLIC/ SD02-911	.	.	.	.	36.3	19.1	1
PUBLIC/ SD02-1045	.	.	.	.	36.3	19.0	1
PUBLIC/ SD02-923	.	.	.	.	36.1	19.0	1
PUBLIC/ SD03-1899	.	.	.	.	35.8	19.0	1
PUBLIC/ SD02-1138	123	.	.	.	35.3	19.4	1
Test avg. :	121	37.3	18.9	1	36.3	19.0	1
High avg. :	125	39.3	19.5	1	37.3	19.4	1
Low avg. :	113	36.3	17.1	1	35.3	18.6	1
* Lsd(.05) :	.	.	.	0	.	.	0
## TPG-avg. :	.	.	.	1	.	.	1
@ Coef. Var. :	.	.	.	0	.	.	0
No. Entries :		10	10	10	11	11	11

* DTM= average days from seeding on May 25, 2006 to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

** Lodging, 1= all plants erect, 5= all plant flat.

Lsd(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated. ## TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error.

Table 9a. Non-Roundup Ready™ maturity group-0, -I & -II soybean variety yield averages- Brookings, South Dakota, 2005-2006.

Brand/Variety (By maturity group & 2006 yield)	DTM*	Averages by Maturity Group					
		MG-0		MG-I		MG-II	
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr
PUBLIC/ SD00-833	.	40	.	.	.	.	.
PUBLIC/ SD03-1537	.	40	.	.	.	.	.
PUBLIC/ SD02-829	124	39	.	.	.	.	.
PUBLIC/ SD03-2154	123	38	.	.	.	.	.
PUBLIC/ SD03-2327	124	35	.	.	.	.	.
PUBLIC/ HAMLIN	123	34	.	.	.	.	.
PUBLIC/ SURGE	123	33	.	.	.	.	.
PUBLIC/ SD02-906	.	.	.	52	.	.	.
PUBLIC/ SD02-911	.	.	.	49	.	.	.
PUBLIC/ SD00-632	.	.	.	47	.	.	.
PUBLIC/ SD02-1138	123	.	.	45	.	.	.
PUBLIC/ SD03-1607	.	.	.	45	.	.	.
PUBLIC/ SD03-1899	.	.	.	44	.	.	.
PUBLIC/ SD02-923	.	.	.	43	.	.	.
PUBLIC/ SD02-1045	.	.	.	43	.	.	.
PUBLIC/ SD00-167	.	.	.	42	.	.	.
PUBLIC/ SD02-14	.	.	.	41	.	.	.
PUBLIC/ SD00-266	.	.	.	39	.	.	.
PUBLIC/ SD02-22	.	.	.	.	.	52	.
DAIRYLAND/ DSR-22/STSUL	.	.	.	.	.	50	.
PUBLIC/ SD00-732	.	.	.	.	.	50	.
PUBLIC/ SD02-96	.	.	.	.	.	50	.
PUBLIC/ SD02-195	.	.	.	.	.	50	.
PUBLIC/ SD02-26	.	.	.	.	.	49	.
PUBLIC/ SD00-1587	.	.	.	.	.	48	.
COYOTE/ 5525	.	.	.	.	.	34	.
Test avg. :	123	37	.	45	.	48	.
High avg. :	124	40	.	52	.	52	.
Low avg. :	123	33	.	39	.	34	.
# Lsd (.05) :		4	.	6	.	6	.
## TPG-avg. :		36	.	46	.	46	.
@ Coef. Var. :		7	.	7	.	7	.
No. Entries :		7	.	11	.	8	.

* DTM= days from seeding on May 22, 2006 to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

Lsd(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 9b. Non-Roundup Ready™ maturity group-0, -I & -II soybean variety protein, oil, and lodging score averages- Brookings, South Dakota, 2006.

Brand/Variety (By maturity group & protein)	DTM*	2006 Averages by Maturity Group								
		MG-0			MG-I			MG-II		
		Protein (%)	Oil (%)	Lodging* (1-5)	Protein (%)	Oil (%)	Lodging* (1-5)	Protein (%)	Oil (%)	Lodging* (1-5)
PUBLIC/ HAMLIN	123	38.5	18.6	1	.	.	.	.	.	.
PUBLIC/ SURGE	123	37.6	18.9	1	.	.	.	.	.	.
PUBLIC/ SD02-829	124	37.2	18.9	1	.	.	.	.	.	.
PUBLIC/ SD03-1537	.	37.2	19.2	1	.	.	.	.	.	.
PUBLIC/ SD00-833	.	37.1	19.3	1	.	.	.	.	.	.
PUBLIC/ SD03-2154	123	37.0	19.2	1	.	.	.	.	.	.
PUBLIC/ SD03-2327	124	36.8	19.1	1	.	.	.	.	.	.
PUBLIC/ SD02-1045	.	.	.	.	37.5	18.7	1	.	.	.
PUBLIC/ SD02-911	.	.	.	.	37.0	18.5	1	.	.	.
PUBLIC/ SD00-632	.	.	.	.	36.9	18.3	1	.	.	.
PUBLIC/ SD00-167	.	.	.	.	36.9	19.0	1	.	.	.
PUBLIC/ SD00-266	.	.	.	.	36.8	18.9	1	.	.	.
PUBLIC/ SD02-14	.	.	.	.	36.5	18.7	1	.	.	.
PUBLIC/ SD02-906	.	.	.	.	36.5	18.9	1	.	.	.
PUBLIC/ SD03-1607	.	.	.	.	36.4	18.8	1	.	.	.
PUBLIC/ SD02-1138	123	.	.	.	36.3	19.2	1	.	.	.
PUBLIC/ SD03-1899	.	.	.	.	36.2	18.8	1	.	.	.
PUBLIC/ SD02-923	.	.	.	.	35.7	18.5	1	.	.	.
PUBLIC/ SD00-732	.	.	.	.	.	.	.	37.4	18.5	1
PUBLIC/ SD00-1587	.	.	.	.	.	.	.	37.4	18.6	1
COYOTE/ 5525	.	.	.	.	.	.	.	36.7	18.3	1
PUBLIC/ SD02-195	.	.	.	.	.	.	.	36.5	18.8	1
DAIRYLAND/ DSR-22/STSUL	.	.	.	.	.	.	.	36.1	18.3	1
PUBLIC/ SD02-22	.	.	.	.	.	.	.	35.9	18.4	1
PUBLIC/ SD02-96	.	.	.	.	.	.	.	35.9	19.0	1
PUBLIC/ SD02-26	.	.	.	.	.	.	.	35.2	18.3	1
Test avg.:	123	37.3	19.0	1	36.6	18.8	1	36.4	18.5	1
High avg.:	124	38.5	19.3	1	37.5	19.2	1	37.4	19.0	1
Low avg.:	123	36.8	18.6	1	35.7	18.3	1	35.2	18.3	1
* Lsd(.05):	.	.	0	.	.	.	0	.	.	0
## TPG-avg.:	.	.	1	.	.	.	1	.	.	1
@ Coef. Var.:	.	.	0	.	.	.	0	.	0	0
No. Entries:	.	7	7	7	11	11	11	8	1	8

* DTM= days from seeding on May 22, 2006 to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

** Lodging, 1= all plants erect, 5= all plant flat.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error.

Table 10a. Non-Roundup Ready™ maturity group-I & -II soybean variety yield averages- Beresford, South Dakota, 2005-2006.

Brand/Variety (By maturity group & 2006 yield)	DTM*	Averages by Maturity Group			
		MG-I		MG-II	
		Bu/Acre 2006	Bu/Acre 2-Yr	Bu/Acre 2006	Bu/Acre 2-Yr
PUBLIC/ SD03-1607	117	60	.	.	.
PUBLIC/ SD00-632	120	57	52	.	.
PUBLIC/ SD02-906	117	57	52	.	.
PUBLIC/ SD03-1899	114	53	.	.	.
PUBLIC/ SD00-266	112	52	.	.	.
PUBLIC/ SD02-1138	112	51	.	.	.
SANDS/ EXP2879N	132	.	.	68	.
SANDS/ SO1 239N	123	.	.	66	.
PUBLIC/ SD02-22	122	.	.	64	56
COYOTE/ 5525	132	.	.	63	53
DAIRYLAND/ DSR-22/STSUL	122	.	.	62	.
PUBLIC/ SD00-732	122	.	.	61	50
PUBLIC/ SD02-195	122	.	.	60	.
PUBLIC/ SD02-26	125	.	.	57	50
PUBLIC/ SD02-96	123	.	.	57	.
PUBLIC/ SD00-1587	115	.	.	51	.
Test avg. :	120	55	52	61	52
High avg. :	132	60	52	68	56
Low avg. :	112	51	52	51	50
# Lsd (.05) :		5	NS	6	NS
## TPG-avg. :		55	52	62	50
@ Coef. Var. :		5	5	5	6
No. Entries :		6	2	10	4

* DTM= average days from seeding on May 17, 2006 to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

Lsd,(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error, 15% or less is best.

Table 10b. Non-Roundup Ready™ maturity group-I & -II soybean variety protein, oil, and lodging score averages- Beresford, South Dakota, 2006.

Brand/Variety (By maturity group & protein)	DTM*	2006 Averages by Maturity Group					
		MG-I			MG-II		
		Protein %	Oil %	Lodging* (1-5)	Protein %	Oil %	Lodging* (1-5)
PUBLIC/ SD00-632	120	37.0	19.4	3	.	.	.
PUBLIC/ SD02-906	117	36.8	19.7	2	.	.	.
PUBLIC/ SD03-1607	117	36.5	19.7	2	.	.	.
PUBLIC/ SD00-266	112	36.4	20.1	2	.	.	.
PUBLIC/ SD03-1899	114	36.4	19.7	3	.	.	.
PUBLIC/ SD02-1138	112	35.5	20.3	4	.	.	.
PUBLIC/ SD02-96	123	.	.	.	37.1	19.4	1
PUBLIC/ SD00-1587	115	.	.	.	37.1	19.4	1
SANDS/ SOI 239N	123	.	.	.	37.0	19.0	2
PUBLIC/ SD00-732	122	.	.	.	36.6	19.3	1
PUBLIC/ SD02-195	122	.	.	.	36.6	19.7	1
DAIRYLAND/ DSR-22/STSUL	122	.	.	.	36.5	19.2	2
PUBLIC/ SD02-22	122	.	.	.	36.5	19.1	2
PUBLIC/ SD02-26	125	.	.	.	36.5	19.0	2
SANDS/ EXP2879N	132	.	.	.	36.2	19.3	5
COYOTE/ 5525	132	.	.	.	35.6	19.2	4
Test avg. :	120	36.4	19.8	3	36.6	19.3	2
High avg. :	132	37.0	20.3	4	37.1	19.7	5
Low avg. :	112	35.5	19.4	2	35.6	19.0	1
* Lsd(.05) :	.	.	.	1	.	.	1
## TPG-avg. :	.	.	.	2	.	.	2
@ Coef. Var. :	.	.	.	18	.	.	30
No. Entries :		6	6	6	10	10	10

* DTM= average days from seeding on May 17, 2006 to maturity; a missing value indicates the site received a hard frost before the variety reached maturity.

** Lodging, 1= all plants erect, 5= all plant flat.

Lsd(.05)= amount values in a column must differ to be significantly different, if differences are not significant (NS), NS is indicated.

TPG-avg. = minimum value to qualify for top performance group.

@ Coef. Var.= a measure of trial experimental error.

Table E. Mailing addresses of entrants in the 2006 soybean trials.

Entrant name (brand name)	Mailing address
Scherr's Seed LLC (AgVenture- Warner trial)	13464 335th Ave., Roscoe, SD 57471
Coyote Seed Mills (Coyote), Inc.	PO Box 16, Bridgewater, SD 57319-0016
Crow's Hybrid Corn Co. (Crow's)	14575 University Ave., Waukee, IA 50263
Dairyland Seed Co.,Inc. (Dairyland)	3570 Hwy H, West Bend, WI 53095
Farm Advantage (Farm Advantage)	1275 Hwy 69, Belmont, IA 50421
Gold Country Seed Inc. (Gold Country Seed)	6506 Hwy 15 N., Hutchinson, MN 55350
Hefty Seed Co. (Hefty)	47504 252nd St., Baltic, SD 57003
Integra Seed LTD (PSI Brand)	PO Box 40, Bozeman, MT 59771
Kaltenberg Seeds (Kaltenberg)	5506 State Rd 19, Box 278, Waunakee, WI 53597
Keltgen Inc. (Agventure- So. Shore trial)	44449 US Hwy 212, Watertown, SD 57201
Kruger Seed Co. (Kruger)	33938 160th Ave.,PO Box A, Dike, IA 50624
Latham Seed Co. (Latham)	131 180th St, Alexander, IA 50420-8028
Midwest Seed Genetics (Midwest Seed)	14575 University Ave., Waukee, IA 50263
Monsanto (Asgrow & Dekalb)	102 West Carol Ave., Courtland, IL 60112
Mustang Seeds (Mustang)	PO Box 466, Madison, SD 57042
Northstar Genetics (Northstar)	14602 50th St. SE, Leonard, ND 58052
Nutech Seed, LLC (Nutech)	6131 North Fork Rd., Ames, IA 50010
Prairie Brand Seed Co. (Praire Brand)	15 X Ave., Story City, IA 50248
Renk Seed Co. (Renk)	6809 Wilburn Rd., Sun Prairie, WI 53590
Richland Organics, Inc. (Richland Organics)	100 North 10th St., Breckenridge, MN 56520
Sand Seed Service,Inc. (Sands SOI)	Box 648, Marcus, IA 51035
SDSU Soybean Breeding Program (Experimentals)	Plant Science Dept, Brookings, SD 57007
Seeds 2000 (Seeds 2000)	PO Box 200, Breckenridge, MN 56520
Sodak Genetics (Sodak)	1200 Campus Dr., Brookings, SD 57007
Stine Seed Co.(Stine)	2225 Laredo Trail, Adel, IA 50003
Thompson Seeds (Thompson)	40321 130th Ave., Leland, IA 50453
Thunder Seed Inc. (Thunder)	3008 210th St. W., Hawley, MN 56549
Wensman Seed Co.(Wensman)	PO Box 190, Wadena, MN 56482
Wilbur Ellis Seed (WECO)	3320 Pine Ave., Brookings, SD 57006
Ziller Seed Co.Inc.(Ziller)	76374 380th St., Bird Island, MN 55310

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Variety Performance Trials—2007 Results



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The crop performance trials are available at <http://plantsci.sdstate.edu/varietytrials/vartrial.html>

Tables for the 2007 Soybean Performance Trials

A	Monthly nearest weather station totals for precipitation and average temperatures; and their departure from normal for 2007	7
B	Description of trial locations, soil types, tillage methods, prior crop, herbicide usage, and dates seeded	8
C	Gene race resistance to Phytophthora root rot	8
D	Roundup Ready™ entries with yield table numbers	9
E	Non-Roundup Ready™ entries with yield table numbers	33
F	Entrants (brand name) mailing addresses (after yield tables)	40

Roundup Ready™ trial results

1a	Roundup Ready™ maturity group-0 soybean variety yield averages- northern South Dakota locations, 2006–2007	12
1b	Roundup Ready™ maturity group-0 soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2007	13
2a	Roundup Ready™ maturity group-I soybean variety yield averages- northern South Dakota locations, 2006–2007	14
2b	Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2007	16
3a	Roundup Ready™ maturity group-0 soybean variety yield averages- central South Dakota locations, 2006–2007	18
3b	Roundup Ready™ maturity group-0 soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2007	19
4a	Roundup Ready™ maturity group-I soybean variety yield averages- central South Dakota locations, 2006–2007	20
4b	Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2007	22
5a	Roundup Ready™ maturity group-II soybean variety yield averages- central South Dakota locations, 2006–2007	24
5b	Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2006	26
6a	Roundup Ready™ maturity group-I soybean variety yield averages- southern South Dakota locations, 2006–2007	27
6b	Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2007	28
7a	Roundup Ready™ maturity group-II soybean variety yield averages- southern South Dakota locations, 2006–2007	29
7b	Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2007	31

Conventional trial results

8a	Non-Roundup Ready™ maturity group-0 and -I soybean variety yield averages- South Shore, South Dakota, 2006–2007	34
8b	Non-Roundup Ready™ maturity group-0 and -I soybean variety protein, oil, and lodging score averages- South Shore, South Dakota, 2007	35
9a	Non-Roundup Ready™ maturity group-0, -I & -II soybean variety yield averages- Brookings, South Dakota, 2006–2007	36
9b	Non-Roundup Ready™ maturity group-0, -I & -II soybean variety protein, oil, and lodging score averages- Brookings, South Dakota, 2007	37
10a	Non-Roundup Ready™ maturity group-I & -II soybean variety yield averages- Beresford, South Dakota, 2006–2007	38
10b	Non-Roundup Ready™ maturity group-I & -II soybean variety protein, oil, and lodging score averages- Beresford, South Dakota, 2007	39

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Variety Performance Trials–2007 Results

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Successful soybean production is greatly affected by variety selection. This publication reports the agronomic performance of entries in the 2007 South Dakota performance trials for conventional non-Roundup Ready and Roundup Ready soybean varieties. Major factors in variety selection include yield, maturity, lodging resistance, and *Phytophthora* root rot resistance.

General

Soybean varieties are classified according to maturity groups, which are then adapted to maturity zones. Maturity zones are based on day length and are therefore greatly affected by latitude. Consequently, maturity group-00 varieties are best suited to Canada and bordering regions of the U.S., while maturity group-0, group-I, and group-II varieties are suited to South Dakota. Groups III through VIII are suited to Iowa, Nebraska, and southward into Texas.

These soybean trial results are reported according to the prevalent maturity zones in South Dakota (see map below). The Roundup-Ready™ soybean variety trials were conducted in the following test zones and locations:

Northern test zone: Maturity groups-0 and -I at South Shore and Warner

Central test zone: Maturity groups-0, -I, and -II at Brookings and Bancroft

Southern test zone: Maturity groups-I and -II at Beresford and Geddes

The conventional soybean variety trials are conducted at the following SDSU affiliated research farms:

Northeast Research Farm, South Shore: Maturity groups-0 and -I

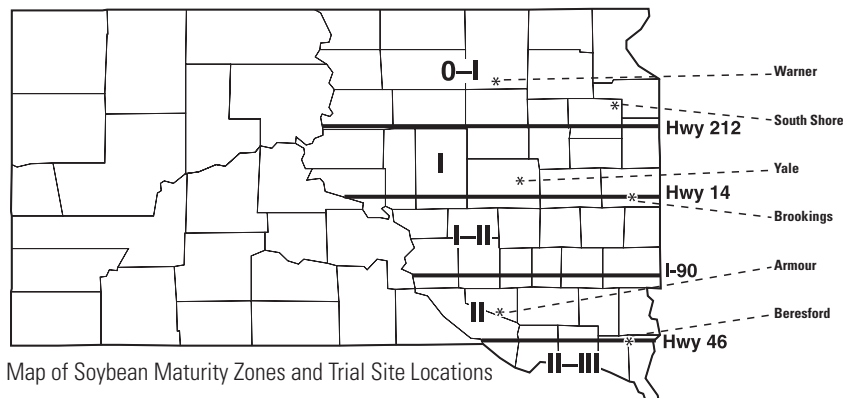
SDSU Plant Science Farm, Brookings: Maturity groups-0, -I, and -II

Southeast SD Agricultural Experiment Station, Beresford: Maturity groups-I and -II

There are transition areas where varieties of two maturity groups may perform similarly. In such cases, mitigating factors like rainfall and/or elevation may moderate the effect of latitude on maturity. In most cases, an earlier maturity group may be seeded in a zone suited to a later maturity group; this is only practical a) if seeding is delayed, or b) if reseeding following hail, or c) if double cropping.

Phytophthora root rot (PRR) is an important soybean disease in South Dakota and is often controlled or managed with the use of resistant varieties. Resistance to *Phytophthora* root rot is fungus-race specific. Thus, resistance to one PRR race does not always impart resistance to other races. Knowledge of the prevalent PRR races in your area is important. If you suspect you have a PRR problem, then the use of varieties with a wide range of rot resistance is strongly suggested (see discussion of *Phytophthora* under “General Test Procedures”).

An alternative method of control is the use of “tolerant varieties.” Tolerant varieties are not resistant to PRR in the seedling



Map of Soybean Maturity Zones and Trial Site Locations

stage. Thus, a PRR fungicide must be applied to protect them. Currently, we do not evaluate the field tolerance of varieties. Thus, field tolerance ratings are not available.

Certified seed is the best source of seed and the only way to be assured of the genetic purity of the variety seeded. In addition, inoculation of seed with the appropriate nitrogen-fixing bacterium is a good practice. Always inoculate if seeding soybeans in soils not previously cropped to soybeans. On older soybean soils there is no guarantee that beneficial bacteria will be present to naturally inoculate planted seed. Therefore, inoculation of seed at planting is an inexpensive means of increasing the percentage of plants that will fix nitrogen in the current crop year.

Yield

Yields are obtained from the South Dakota Crop Performance Testing Program (CPT). Current-year yields are included for each entry tested. In addition, two-year averages are included where varieties have been tested for two years. Yield test averages and least significant difference (LSD) values are rounded to the nearest bushel and printed at the bottom of each yield column.

The LSD value can be used to determine if varieties differ in yield per acre. For example, assume variety-A averages 30 bushels, -B averages 25 bushels, and the calculated LSD value is 4 bushels. The average difference between varieties A and B is 5 bushels. Since the average difference of 5 bushels is greater than the test LSD value of 4 bushels, the average of variety-A (30 bushels) is significantly higher than for -B (25 bushels). In contrast, if variety-A averages 28 bushels and -B averages 25 bushels, the average difference would be 3 bushels. In this case, both varieties would have a similar yield average because their difference of 3 bushels was less than the test LSD value of 4 bushels.

The LSD value can be used to identify the best-yielding variety or group of varieties. The LSD value (bottom of each yield column) is used to calculate a **minimum top yield value**. For example, assume the highest yield is 50 bushels and the LSD value is 5 bushels. The minimum top yield value is 45 bushels ($50 - 5 = 45$). All yield values higher than 45 are included in the top-yield group. However, because the yield and LSD values are rounded to the nearest whole bushel, we also include yield values of 45 bushels in our definition of minimum top yield value. Therefore, in this case, varieties with averages of 45 bushels or higher are included in the top yield group. Entries in all tables are sorted from high to low values by the variable listed with the brand/variety heading of each table. Note: Entries tested for two years may also have a top yield group value in the 2007 yield column.

Each seed company selects the appropriate maturity group trial (maturity group-0, -I, or -II) and locations for their entries. Companies generally have one or more maturity group checks for their varieties. There are, however, no standard regional or national check varieties for maturity. A late group-I variety from one company may be similar in maturity to an early group-I or an early group-II variety from another company because they use different check varieties for maturity. Therefore, this testing program does not guarantee that entries are placed in the appropriate maturity group trial. Borderline entries with maturity ratings at or near the arbitrary breaks between the late group-0s and early group-Is and between the late group-Is and early group-IIs may cross over in some test trials. It is suggested that you note the reported maturity rating of every entry you are considering. Because all entries at a location are seeded the same day, one

can compare the relative difference in days to maturity among varieties tested at that location. Use caution when comparing the maturity rating of a variety over many locations. Variations in soil moisture and temperature may differ between locations, resulting in some maturity variations over locations.

The efforts of D. Doyle, SDSU Agronomy Farm; A. Heuer, NE Research Farm, South Shore; and R. Berg and staff, SE Research Farm, Beresford, in obtaining the data are gratefully acknowledged. Also, the assistance and cooperation of our farmer co-operators Allen and Inel Ryckman, Warner; Curtis Sybesma, Geddes; and Erland Weerts, Bancroft, is gratefully acknowledged.

Protein and Oil Content

The 2007 protein and oil values (adjusted to a 13% moisture basis) were determined using a calibrated FOSS TECATOR Model Infratec 1229 Grain Analyzer. Three replicates of every variety in each trial were tested. Samples of known protein and oil were tested by the SDSU Agricultural Experiment Station Biochemistry Laboratory and were used to calibrate the analyzer.

Weather and Seasonal Precipitation

Seasonal rainfall and its distribution and average temperatures at weather reporting stations nearest each test trial are reported in Table A for the period April 1 to September 30. Seasonal precipitation totals were above normal for Aberdeen (+7.77"), NE Farm (+0.98"), and Platte (+3.60"), but below normal for DeSmet (-0.56"), Brookings (-0.39"), and SE Farm (-2.91"). The greatest midseason moisture (June, July, and August) deficits were apparent at Brookings and the Beresford research farm. At these two locations, moisture deficits were greater at Beresford (-3.02") compared to Brookings (-0.7"). At these reporting stations, average temperatures varied from about -1.0 to +4.0 degrees from normal in May to about ± 2.0 from normal in August.

General Test Procedures

These procedures apply to both conventional non-Roundup Ready™ and Roundup Ready™ soybean entries, except for the chemical weed control listed in Table B. Trial locations, soil types, tillage methods, previous crops, pesticide usage, and seeding dates are indicated in Table B.

Test Procedures: A row spacing of 30 inches was used at all locations. The seeding rate was 165,000 seeds per acre for all varieties and locations. Test plots consist of 4-row plots, 20-feet long, with three replications at all locations. Soybean inoculation was accomplished by applying Nitragin brand Soybean Soil Implant down the seed tube, according to label instructions and rates, during seeding. Seeding at all locations was accomplished using a Monosem precision row crop planter; the use of this planter this year resulted in very uniform seed spacing within the seed row. The center two rows of each plot were harvested for yield.

Yield: Plots were harvested at 15% seed moisture or less. Yields were calculated on a 13% moisture content basis and expressed in bushels per acre. Harvest was accomplished using a Massey Ferguson 8XP small plot combine.

Reporting variety maturity: Variety maturity is reported as "days to maturity" (DTM). Entries are mature when 95% of the pods have turned brown. Each maturity value is obtained by 1) determining the average number of days from seeding to maturity for two replicates and 2) expressing as DTM at each location. Table DTM values are an average of four replicates (two for each

location). If data is missing at a location, it is noted in a table footnote; if data is missing at both locations (most often from early frost), the data is missing in the DTM column.

Lodging Score: Scores at maturity are based on average erectness of the main stem of plants within each variety: 1 = all plants erect, 2 = slight lodging, 3 = lodging at a 45 degree angle, 4 = severe lodging, and 5 = all plants flat.

Phytophthora Root Rot (PRR): The gene resistance of each variety to PRR is supplied by each seed company (proprietary

entries) or by the USDA (Uniform Soybean Tests, Northern States, public entries). A key for each type of PRR gene and the race resistance it imparts to a variety is given in Table C. Specific race resistance to PRR (reported by seed company) for a variety can be determined by noting the PRR gene in the variety index tables D (Roundup Ready™) and E (Non-Roundup Ready™) and referencing the gene back to table C to find the range of race resistance. Currently, races -1, -3, and -4 are the most common races in South Dakota.

ROUNDUP READY™ SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS

Note: Yields are reported as 2007 averages or 2-yr averages (2006-07)

NORTHERN TEST ZONE

SOUTH SHORE- Northeast Research Farm

WARNER- Minimum-tillage, Allen & Inel Ryckman Farm (cooperators)

South Shore, Group-0 (Tables 1a & 1b): The 2007 and two-year test yield averages were 52 and 42 bushels per acre, respectively (Table 1a). Varieties had to average 55 bushels or higher to be in the top yield group for 2007. Likewise, varieties had to average 38 bushels or higher to be in the top yield group for two years. Variety yield averages had to differ by 3 bushels in 2007 to be significantly different, while yield differences for two years were non-significant (NS). The 2007 protein, oil, and lodging score test averages were 35.9%, 19.3%, and 2, respectively (Table 1b). Variety protein and oil values had to average 37.1% and 19.9% or higher, respectively, to be in the top groups for protein and oil in 2007. Variety protein and oil averages had to differ by 0.9% and 0.5%, respectively, to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

Warner, Group-0 (Tables 1a & 1b): The 2007 and two-year test yield averages were 49 and 42 bushels per acre, respectively (Table 1a). Varieties had to average 51 bushels or higher to be in the top yield group for 2007. Likewise, varieties had to average 37 bushels or higher to be in the top yield group for two years. Variety yield averages had to differ by 4 bushels in 2007 to be significantly different, while yield differences for two years were non-significant (NS). The 2007 protein, oil, and lodging score test averages were 32.5%, 20.5%, and 1, respectively (Table 1b). Variety protein and oil values had to average 33.0% and 21.2% or higher, respectively, to be in the top groups for protein and oil in 2007. Variety protein and oil averages had to differ by 1.2% and 0.5%, respectively, to be significantly different. Variety lodging score values did not differ among varieties; therefore, they were not significantly different.

Northern test zone, Group-0 (Tables 1a & 1b): The 2007 and two-year test yield averages in the Northern zone were 51 and 42 bushels per acre, respectively (Table 1a). The effect of variety on yield differed significantly between the two locations for both 2007 and for two years. Growers are encouraged to evaluate varieties by looking at the 2007 and 2-Yr columns at each location

and disregard the yield averages in the Northern zone columns. The 2007 protein, oil, and lodging score test averages were 34.2%, 19.9%, and 1, respectively, across both locations (Table 1b). Like the yield values, the protein, oil, and lodging score values also differed significantly between locations in 2007; therefore, evaluate variety performance by looking at the data columns at each location and not at the Northern zone columns.

South Shore, Group-I (Tables 2a & 2b): The 2007 and two-year test yield averages were 50 and 39 bushels per acre, respectively (Table 2a). Varieties had to average 54 bushels and 35 bushels or higher to be in the top yield group for 2007 and for two years, respectively. Variety yield averages had to differ by 3 bushels in 2007 to be in the top performance group for yield, while the two-year average differences were non-significant (NS). The 2007 protein, oil, and lodging score test averages were 35.3%, 19.3%, and 1, respectively (Table 2b). Variety protein and oil values had to average 36.5% and 20.3% or higher, respectively, to be in the top groups for protein and oil in 2007. Variety protein and oil averages had to differ by 1.0% and 0.5%, respectively, to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

Warner, Group-I (Tables 2a & 2b): The 2007 and two-year test yield averages were 55 and 44 bushels per acre, respectively (Table 2a). Varieties had to average 58 bushels and 43 bushels or higher to be in the top yield group for 2007 and for two years, respectively. Variety yield averages had to differ by 5 bushels in 2007 and 6 bushels for two years to be significantly different. The 2007 protein, oil, and lodging score test averages were 31.9%, 20.3%, and 1, respectively (Table 2b). Variety protein and oil values had to average 33.3% and 22.6% or higher, respectively, to be in the top groups for protein and oil in 2007. Variety protein and oil averages had to differ by 1.3% and 1.0%, respectively, to be significantly different. Variety lodging score values did not differ among varieties; therefore, they were not significantly different.

Northern test zone, Group-I (Tables 2a & 2b): The 2007 and two-year yield test averages were 53 and 42 bushels per acre, respectively (Table 2a). The effect of variety on yield differed significantly between the two locations for both 2007 and for two years. Growers are encouraged to evaluate varieties by looking at the 2007 and 2-yr columns at each location and disregard the yield averages in the Northern zone columns. The 2007 protein, oil, and lodging score test averages were 33.6%, 19.8%, and 1, respectively, across both locations (Table 2b). Like the yield values, the protein, oil, and lodging score values also differed significantly

between locations in 2007; therefore, evaluate variety performance by looking at the data columns at each location and not at the Northern zone columns.

CENTRAL TEST ZONE

BROOKINGS, SDSU Plant Science Research Farm, conventional tillage
Bancroft, No-till, Erland Weerts (cooperator)

Brookings, Group-0 (Tables 3a & 3b): The 2007 and two-year test yield averages were 58 and 55 bushels per acre, respectively (Table 3a). Varieties had to average 58 bushels or higher in 2007 and 55 bushels or higher for two years to be in the top yield group. Variety yield averages had to differ by 5 bushels in 2007 and 4 bushels for two years to be significantly different. The 2007 protein, oil, and lodging score test averages were 36.8%, 19.6%, and 1, respectively (Table 3b). Variety protein and oil values had to average 39.1% and 20.7% or higher, respectively, to be in the top groups for protein and oil in 2007. Variety protein and oil averages had to differ by 0.6% and 0.3%, respectively, to be significantly different. Variety lodging score values did not differ among varieties; therefore, they were not significantly different.

Bancroft, Group-0 (Tables 3a & 3b): The 2007 yield average was 60 and 54 bushels per acre for 2007 and for two years, respectively (Table 3a). Varieties had to average 62 and 50 bushels or higher to be in the top yield group for 2007 and for two years, respectively. Variety yield averages had to differ by 4 bushels in 2007 to be significantly different. In contrast, the yield differences among varieties were non-significant for the two-year period. The 2007 protein, oil, and lodging score test averages were 35.3%, 19.5%, and 1, respectively (Table 3b). Variety protein and oil values had to average 36.1% and 20.4% or higher, respectively, to be in the top groups for protein and oil in 2007. Variety protein and oil averages had to differ by 0.9% and 0.5%, respectively, to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

Central test zone, Group-0 (Tables 3a & 3b): The 2007 yield average was 59 bushels and the two-year average was 55 bushels per acre (Table 3a). The effect of variety on yield differed significantly between the two locations for 2007, but was non-significant (NS) for two years. Growers are encouraged to evaluate varieties by looking at the 2007 and 2-yr columns at each location and disregard the yield averages in the Central zone columns. The 2007 protein, oil, and lodging score test averages were 36.0%, 19.5%, and 1, respectively, across both locations (Table 3b). Like the yield values, the protein values also differed significantly between locations in 2007; therefore, evaluate variety protein performance by looking at the protein columns at each location and not at the Central zone columns. Variety oil and lodging score values had to equal 20.5 or higher and 1 to be in the top performance group for oil and lodging resistance, respectively. Variety oil and lodging values had to differ by 0.3% and 1, respectively, to be significantly different.

Brookings, Group-I (Tables 4a & 4b): The 2007 and two-year test yield averages were 60 and 57 bushels per acre, respectively (Table 4a). Varieties had to average 63 and 56 bushels or higher to be in the top yield group for 2007 and for two years, respectively. Variety yield averages had to differ by 5 bushels in both 2007 and

for two years to be significantly different. The 2007 protein, oil, and lodging score test averages were 36.8%, 20.5%, and 1, respectively (Table 4b). Variety protein and oil values had to average 38.0% and 21.1% or higher, respectively, to be in the top groups for protein and oil in 2007. Variety protein and oil averages had to differ by 1.0% and 0.5%, respectively, to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

Bancroft, Group-I (Tables 4a & 4b): The yield average was 58 and 56 bushels per acre for 2007 and for two years, respectively (Table 4a). In 2007, varieties had to average 60 bushels or higher to be in the top yield group, while the effect of variety on yield differences was non-significant (NS) for two years. The 2007 protein, oil, and lodging score test averages were 34.2%, 19.5%, and 1, respectively (Table 4b). Variety protein and oil values had to average 35.6% and 20.1% or higher, respectively, to be in the top groups for protein and oil in 2007. Variety protein and oil averages had to differ by 0.9% and 0.4%, respectively, to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

Central test zone, Group-I (Tables 4a & 4b): Yields averaged 59 and 56 bushels per acre, respectively, for 2007 and for the two-year period (Table 4a). Varieties had to average 63 and 57 bushels or higher to be in the top yield group for 2007 and for two years, respectively. Variety yield averages had to differ by 3 bushels in 2007 and 4 bushels for two years to be significantly different. The 2007 protein, oil, and lodging score test averages were 35.5%, 20.0%, and 1, respectively, across both locations (Table 4b). Like the yield values, the protein, oil, and lodging score values also differed significantly between locations in 2007; therefore, evaluate variety protein and oil performance by looking at the data columns at each location and not at the Central zone columns. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

Brookings, Group-II (Tables 5a & 5b): The 2007 and two-year test yield averages were 59 and 58 bushels per acre, respectively (Table 5a). Varieties had to average 59 bushels or higher in 2007 and 56 bushels or higher for two years to be in the top yield group. Variety yield averages had to differ by 5 bushels in 2007 to be significantly different, while differences among varieties were non-significant for two years. The 2007 protein, oil, and lodging score test averages were 36.3%, 19.8%, and 1, respectively (Table 5b). Variety protein and oil values had to average 37.4% and 20.4% or higher, respectively, to be in the top groups for protein and oil in 2007. Variety protein and oil averages had to differ by 0.8% and 0.5%, respectively, to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

Bancroft, Group-II (Tables 5a & 5b): The 2007 yield average was 57 and 56 bushels per acre in 2007 and for two years, respectively (Table 5a). Varieties had to average 58 bushels or higher in 2007 and 53 bushels or higher to be in the top yield group for two years. Variety yield averages had to differ by 4 bushels in 2007, while differences among varieties were non-significant (NS) for two years. The 2007 protein, oil, and lodging score test averages

were 34.3%, 19.6%, and 1, respectively (Table 5b). Variety protein and oil values had to average 35.8% and 20.1% or higher, respectively, to be in the top groups for protein and oil in 2007. Variety protein and oil averages had to differ by 1.0% and 0.5%, respectively, to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

Central test zone, Group-II (Tables 5a & 5b): The 2007 yield average was 58 and 57 bushels per acre for 2007 and for two years, respectively (Table 5a). Varieties had to average 59 bushels or higher in 2007 and 55 bushel or higher to be in the top yield group for two years. Variety yield averages had to differ by 3 bushels in 2007, while differences among varieties were non-significant (NS) for two years. The 2007 protein, oil, and lodging score test averages were 35.2%, 19.7%, and 1, respectively, across both locations (Table 5b). Like the yield values, the protein, oil, and lodging score values also differed significantly between locations in 2007; therefore, evaluate variety protein and oil performance by looking at the data columns at each location and not at the Central zone columns. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

SOUTHERN TEST ZONE

BERESFORD, Conventional tillage, Southeast SD Agricultural Experiment Station

GEDDES, No-till, Curtis Sybesma (cooperator)

Beresford, Group-I (Tables 6a & 6b): The 2007 and two-year test yield averages were 55 and 57 bushels per acre, respectively (Table 6a). Varieties had to average 55 bushels or higher in 2007 and 54 bushels or higher for two years to be in the top yield group. Variety yield averages had to differ by 4 bushels in 2007 and 7 bushel for two years to be significantly different. The 2007 protein, oil, and lodging score test averages were 35.4%, 21.1%, and 1, respectively (Table 6b). Variety protein and oil values had to average 36.5% and 21.8% or higher, respectively, to be in the top groups for protein and oil in 2007. Variety protein and oil averages had to differ by 0.8% and 0.4%, respectively, to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group.

Geddes, Group-I (Tables 6a & 6b): The test yield averages for 2007 and for two years were 55 and 51 bushels per acre, respectively (Table 6a). Varieties had to average 54 bushels or higher in 2007 and 50 bushels or higher for two years to be in the top yield group. Variety yield averages had to differ by 6 bushels both in 2007 and for two years to be significantly different. The 2007 protein, oil, and lodging score test averages were 32.5%, 20.8%, and 1, respectively (Table 6b). Variety protein and oil values had to average 33.3% and 21.3% or higher, respectively, to be in the top groups for protein and oil in 2007. Variety protein and oil averages had to differ by 1.2% and 0.4%, respectively, to be significantly different. Variety lodging score values did not differ among varieties; therefore, they were not significantly different.

Southern test zone, Group-I (Tables 6a & 6b): The 2007 and two-year test yield averages in the Southern zone were 55 and 54 bushels per acre, respectively (Table 6a). Varieties had to average 55 bushels or higher in 2007 and 54 bushels or higher for

two years to be in the top yield group. Variety yield averages had to differ by 4 bushels in 2007 and 5 bushels for two years to be significantly different. The 2007 protein, oil, and lodging score test averages were 34.0%, 20.9%, and 1, respectively, across both locations (Table 6b). Like the yield values, the protein, oil, and lodging score values also differed significantly between locations in 2007; therefore, evaluate variety protein and oil performance by looking at the protein and oil columns at each location and not at the Southern zone columns. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

Beresford, Group-II (Tables 7a & 7b): The 2007 and two-year test yield averages were 54 and 60 bushels per acre, respectively (Table 7a). Varieties had to average 55 bushels or higher in 2007 and 59 bushels for two years to be in the top yield group. Variety yield averages had to differ by 5 bushels in 2007 and 7 bushels for two years to be significantly different. The 2007 protein, oil, and lodging score test averages were 35.4%, 20.2%, and 1, respectively (Table 7b). Variety protein and oil values had to average 37.0% and 20.9% or higher, respectively, to be in the top groups for protein and oil in 2007. Variety protein and oil averages had to differ by 0.8% and 0.5%, respectively, to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

Geddes, Group-II (Tables 7a & 7b): The 2007 and two-year test yield averages were 56 and 51 bushels per acre, respectively (Table 7a). Varieties had to average 58 bushels or higher in 2007 and 47 bushels or higher for two years to be in the top yield group. Variety yield averages had to differ by 7 bushels in 2007 to be significantly different, while the yield average differences were non-significant (NS) for two years. The 2007 protein, oil, and lodging score test averages were 33.3%, 19.7%, and 1, respectively (Table 7b). Variety protein and oil values had to average 34.6% and 20.4% or higher, respectively, to be in the top groups for protein and oil in 2007. Variety protein and oil averages had to differ by 1.5% and 0.8%, respectively, to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

Southern test zone, Group-II (Tables 7a & 7b): The 2007 and two-year test yield averages in the Southern zone were 55 and 56 bushels per acre, respectively (Table 7a). The effect of variety on yield differed significantly between the two locations for both 2007 and for two years. Growers are encouraged to evaluate varieties by looking at the 2007 and 2-Yr columns at each location and disregard the yield averages in the Southern zone columns. The 2007 protein, oil, and lodging score test averages were 34.3%, 20.0%, and 1, respectively, across both locations (Table 7b). Like the yield values, the protein, oil, and lodging score values also differed significantly between locations in 2007; therefore, evaluate variety protein and oil performance by looking at the protein and oil columns at each location and not at the Southern zone columns. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

NON-ROUNDUP READY SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS

SOUTH SHORE, Conventional tillage, Northeast Research Farm

BERESFORD, Conventional tillage, Southeast SD Agricultural Experiment Stn.

Note: Yields are reported as 2007 averages or 2-yr averages (2006-07)

South Shore, Group-0 (Tables 8a & 8b): The 2007 and two-year test yield averages were 47 and 35 bushels per acre, respectively (Table 8a). Varieties had to average 42 bushels or higher in 2007 and 34 bushels or higher for two years to be in the top yield group. There were no significant differences in yield average among the varieties tested in 2007 and for two years. The 2007 protein, oil, and lodging score test averages were 35.5%, 19.1%, and 1, respectively (Table 8b). Variety protein and oil values had to average 35.5% and 19.5% or higher, respectively, to be in the top groups for protein and oil in 2007. Variety protein and oil averages had to differ by 1.0% and 0.4%, respectively, to be significantly different. Variety lodging score values did not differ among varieties; therefore, they were not significantly different.

South Shore, Group-I (Tables 8a & 8b): The 2007 and two-year test yield averages were 47 and 34 bushels per acre, respectively (Table 8a). Varieties had to average 47 bushels or higher in 2007 to be in the top performance group for yield, while there were no significant differences in yield average among the varieties tested for two years. Variety yield averages had to differ by 3 bushels or more in 2007 to be significantly different. The 2007 protein, oil, and lodging score test averages were 36.3%, 18.1%, and 2, respectively (Table 8b). Variety protein and oil values had to average 37.0% and 18.1% or higher, respectively, to be in the top groups for protein and oil in 2007. Variety protein and oil averages had to differ by 0.9% and 0.7%, respectively, to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

Brookings, Group-0 (Tables 9a & 9b): The 2007 and two-year test yield averages were 56 bushels and 46 bushels per acre, respectively (Table 9a). All varieties tested in 2007 and for two years were in the top yield group because the yield average differences among them were non-significant (NS). The 2007 protein, oil, and lodging score test averages were 37.0%, 19.5%, and 1, respectively (Table 9b). Variety protein and oil values had to average 37.7% and 20.0% or higher, respectively, to be in the top groups for protein and oil in 2007. Variety protein and oil averages had to differ by 0.9% and 0.3%, respectively, to be significantly different. Variety lodging score values did not differ among varieties; therefore, they were not significantly different.

Brookings, Group-I (Tables 9a & 9b): The 2007 and two-year test yield averages were 53 bushels and 50 bushels per acre,

respectively (Table 9a). Varieties had to average 53 bushels or higher in 2007 and 48 bushels or higher for two years to be in the top performance group for yield. Variety yield averages had to differ by 3 bushels or more in 2007 to be significantly different, while the average differences among the varieties for two years were non-significant (NS). The 2007 protein, oil, and lodging score test averages were 37.4%, 19.8%, and 1, respectively (Table 9b). Variety protein values had to average 38.6% to be in the top performance group for protein in 2007. Variety protein averages had to differ by 1.1% to be significantly different. Variety oil and lodging score values did not differ among varieties; therefore, they were not significantly different.

Brookings, Group-II (Tables 9a & 9b): The 2007 and two-year test yield averages were 47 bushels and 50 bushels per acre, respectively (Table 9a). Varieties had to average 49 bushels or higher in 2007 and 46 bushels or higher for two years to be in the top yield group. Variety yield averages had to differ by 5 bushels in 2007 to be significantly different, while the average differences among the varieties for two years were non-significant. The 2007 protein, oil, and lodging score test averages were 37.4%, 19.1%, and 1, respectively (Table 9b). Variety protein and oil values had to average 38.0% and 18.9% or higher, respectively, to be in the top groups for protein and oil in 2007. Variety protein and oil averages had to differ by 0.8% and 0.7%, respectively, to be significantly different. Variety lodging score values did not differ among varieties; therefore, they were not significantly different.

Beresford, Group-I (Tables 10a & 10b): The 2007 and two-year test yield averages were 41 and 51 bushels per acre, respectively (Table 10a). All varieties tested in 2007 and for two years were in the top yield group because the yield average differences among them were non-significant (NS). The 2007 protein, oil, and lodging score test averages were 35.0%, 20.4%, and 1, respectively (Table 10b). Variety protein and oil values had to average 36.2% and 20.7% or higher, respectively, to be in the top groups for protein and oil in 2007. Variety protein and oil averages had to differ by 0.9% and 0.3%, respectively, to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

Beresford, Group-II (Tables 10a & 10b): The 2007 and two-year test yield averages were 44 and 54 bushels per acre, respectively (Table 10a). All varieties tested in 2007 and for two years were in the top yield group because the yield average differences among them were non-significant (NS). The 2007 protein, oil, and lodging score test averages were 35.4%, 19.9%, and 1, respectively (Table 10b). Variety protein and oil values had to average 36.5% and 20.2% or higher, respectively, to be in the top groups for protein and oil in 2007. Variety protein and oil averages had to differ by 0.9% and 0.5%, respectively, to be significantly different. Variety lodging score values did not differ among varieties; therefore, they were not significantly different.

Table A. Monthly nearest weather station totals for precipitation and average temperatures; and their departures from normal (DFN) for the 2007 growing season

Source: South Dakota Office of Climate and Weather. 2007. D. Todey and C. Shukla.

Station (Test site)	Variable		Monthly data beginning April 1 and ending September 30						
			April	May	June	July	Aug.	Sept.	Totals
Aberdeen Airport (Warner)	Precip.- inches	'07 DFN*	3.42 1.83	12.23 9.54	2.43 -1.06	0.79 -2.13	2.20 -0.22	1.61 -0.19	22.68 7.77
		Avg.Temp. -°F	'07 DFN	41 -4.1	60 2.5	69 2.1	74 1.6	68 -2.1	60 0.5
South Shore Shore (NE Farm)	Precip.- inches	'07 DFN	2.53 0.53	1.99 -0.73	0.95 -2.88	0.83 -0.24	1.93 0.53	5.66 3.77	13.89 0.98
		Avg.Temp. -°F	'07 DFN	40 -3.4	58 2.6	66 1.2	71 0.7	68 0.2	61 3.0
DeSmet/ (Bancroft)	Precip.- inches	'07 DFN	3.42 1.21	4.25 1.17	2.27 -1.65	1.05 -2.50	4.27 1.41	2.16 -0.20	17.42 -0.56
		Avg.Temp. -°F	'07 DFN	44 -1.8	62 4.0	69 1.6	74 2.2	70 -0.1	62 2.0
Brookings 2NE	Precip.- inches	'07 DFN	3.62 1.59	1.86 -1.09	2.99 -1.24	0.14 -2.97	6.45 3.51	1.00 -1.28	16.06 -0.39
		Avg.Temp. -°F	'07 DFN	41 -3.3	61 4.0	68 2.1	72 0.8	68 -0.2	61 1.6
Centerville “(SE Farm,” Beresford)	Precip.- inches	'07 DFN	3.04 0.57	3.49 -0.16	2.16 -1.79	0.00 -3.35	4.95 2.12	1.96 -0.30	15.60 -2.91
		Avg.Temp. -°F	'07 DFN	46 -1.6	64 4.5	70 0.5	75 1.6	73 0.8	64 1.4
Platte**/ Academy*** (Geddes)	Precip.- inches	'07 DFN	1.76 -0.85	5.68 1.88	6.24 2.83	1.47 -1.69	4.78 2.31	1.51 -0.88	21.44 3.60
		Avg.Temp. -°F	'07 DFN	44 -1.3	62 4.2	69 1.5	76 2.3	72 0.7	65 3.5

* DFN - how much a variable for one year is greater or less (-) than the long-term average

** Precipitation data

*** Temperature data

Table B. Description of soybean trial locations- soil type, tillage methods, previous crop, herbicides, seed inoculants used, a dated seeded.

Location (County)	Soils & Management		Previous crop	Herbicides				Nitragin Soybean Soil Implant	Date seeded
				Applied at label rates					
	Type	Tillage Method		Roundup Ready		Non-Roundup Ready		In-furrow at label rate	
				Pre	Post	Pre	Post		
Warner (Brown)	Harmony-Aberdeen silty clay loam, 0-2% slope	No-till	Corn	None	Roundup once	-	-	Yes	May 24
South Shore (Codington)	Kransburg silty clay loam, 3-6% slope	Conven- tional	S. Wheat	None	Roundup twice	None	Harmony/ Poast split	Yes	May 31
Bancroft (Kingsbury)	Houdek-Stickney- Tetonka loam, 0-3% slope	No-till	Corn	None	Roundup once	-	-	Yes	June 6
Brookings (Brookings)	Barnes clay loam, 0-2% slope	Conven- tional	S. Wheat	None	Roundup twice	None	Harmony/ Poast/ Basagran split	Yes	May 21
Geddes (Chas. Mix)	Highmore-Walke silt loam, 0-2% slope	No-till	Corn	None	Roundup once	-	-	Yes	May 26
Beresford (Clay)	Egan-Clarno-Trent silty clay loam, 0-2% slope	Conven- tional	Corn	None	Roundup/ Assure II/ Kicker plus	None	Raptor/ Assure II/ Kicker plus	Yes	June 9

Table C. Gene race resistance to Phytophthora root rot

Gene	Race Resistance
0	None- No strain resistance
1A	1-2,10-11,13,15-18,24
1B	1,3-9,13-15,18,21-22
1C	1-3,6-11,13,15,17,21,23-24
1K	1-11,13-15,17-18,21-22,24
2	1-5,9-20
3	1-5,8-9,11,13-14,16,18,23,25
4	1-4,10,12-16,18-21,25
5	1-5,8-9,11-14,18,20,25
6	1-4,10,12,14-16,18-21,25
7	16,18,19
K6	1-22,24-25
C3	1-10,13-18,22-25
B3	1-9,13-16,18,21-23,25
MIX	Resistant & Susceptible Plants
NR	Not reported

Table D. 2007 Roundup Ready™ soybean entries by brand/variety, maturity group, and gene for *Phytophthora* root rot resistance as reported by entrants; and performance table number(s)

Brand / Variety	Mat. Grp.	Gene Resistance	Table No.(s)	Brand / Variety	Mat. Grp.	Gene Resistance	Table No.(s)
ASGROW/ AG0701	0.7	Not Reported	1	HEFTY/ EXP168R	1.6	rps1 - None	2,4
ASGROW/ AG0803	0.8	Rps1k	1	HEFTY/ EXP198R	1.9	rps1 - None	4
ASGROW/ AG1102	1.1	Rps1k	2,4	HEFTY/ EXP218RN	2.1	Rps1c	5,7
ASGROW/ AG1403	1.4	Rps1k	2,4	HEFTY/ EXP248R	2.4	Rps3	7
ASGROW/ AG1702	1.7	Rps1k	2,4,6	HEFTY/ EXP298RN	2.9	Rps1c	7
ASGROW/ AG2002	1.9	Rps1c	2,4	KALTENBERG/ KB196RR	1.9	Rps1k	4,6
ASGROW/ AG2108	2.1	Rps1k	5	KALTENBERG/ KB203RR	2	Not Reported	5
ASGROW/ AG2406	2.4	Rps1c	5,7	KALTENBERG/ KB247RR	2.4	Rps1 (Rps1a)	7
ASGROW/ AG2603	2.6	Rps1c	7	KALTENBERG/ KB268RR	2.7	Not Reported	7
ASGROW/ AG2606	2.6	Rps1c	7	KRUGER/ EXP19A07	1.6	Rps1k	2,4,6
ASGROW/ AG2906	2.9	Not Reported	7	KRUGER/ K-042RR	0.4	Rps1 (Rps1a)	1,3
ASGROW/ DKB22-52	2.2	rps1 - None	5	KRUGER/ K-056RR	0.6	Rps1 (Rps1a)	1,3
ASGROW/ DKB25-51	2.5	Rps1k	7	KRUGER/ K-072+RR	0.8	Rps1 (Rps1a)	1,3
ASGROW/ DKB27-52	2.7	Rps1c	7	KRUGER/ K-072RR	0.7	Rps1 (Rps1a)	1,3
COYOTE/ 4523RR	2.3	Rps1k	5,7	KRUGER/ K-091RR	0.9	rps1 - None	1,3
COYOTE/ 4527RR	2.7	Rps1k	5,7	KRUGER/ K-098RR	0.9	rps1 - None	1,3
COYOTE/ 4719RR	1.9	Rps1k	2,4	KRUGER/ K-100RR	1	Rps1k	2,4
COYOTE/ 9524RR	2.4	Rps1k	5	KRUGER/ K-120RR	1.2	Rps1k	2,4,6
COYOTE/ EXP722NRR	2.2	Rps1k	5,7	KRUGER/ K-140RR	1.5	Rps1k	2,4,6
COYOTE/ EXP725NRR	2.5	Rps1k	5,7	KRUGER/ K-142RR	1.4	Rps1k	2,4,6
COYOTE/ EXP728NRR	2.7	Rps1k	5,7	KRUGER/ K-170RR/SCN	1.7	Not Reported	2,4,6
DAIRYLAND/ DSR-0701/RR	0.7	Rps1k	1	KRUGER/ K-194RR	1.9	Rps1k	2,4,6
DAIRYLAND/ DSR-0903/RR	0.9	Not Reported	1,3	KRUGER/ K-195+RR/SCN	1.9	Rps1k	2,4,6
DAIRYLAND/ DSR-1301/RR	1.3	Not Reported	2,4	KRUGER/ K-201RR/SCN	2	Rps1c	5,7
DAIRYLAND/ DSR-1601/RR	1.6	Rps1k	4	KRUGER/ K-234RR	2.4	Not Reported	5,7
DAIRYLAND/ DSR-2200/RR	2.2	Not Reported	7	KRUGER/ K-239RR	2.3	rps1 - None	5,7
DAIRYLAND/ DSR-2300/RR	2.3	Not Reported	7	KRUGER/ K-248RR/SCN	2.5	rps1 - None	5,7
DAIRYLAND/ DSR-2600/RR	2.6	Rps1k	7	KRUGER/ K-256RR	2.5	Not Reported	5,7
DAIRYLAND/ DSR-2770/RR	2.7	Rps1k	7	KRUGER/ K-259RR	2.6	Rps1k	5,7
DAIRYLAND/ DSR1500RRSTS	1.5	Not Reported	2,4	KRUGER/ K-271RR	2.7	rps1 - None	7
DAIRYLAND/ DSR1701RRSTS	1.7	Not Reported	4	KRUGER/ K-275RR/SCN	2.8	Rps1c	7
DAIRYLAND/ DSR1850RRSTS	1.8	Not Reported	4	LATHAM/ EXP-E1700R	1.7	rps1 - None	4
FARM/ ADVANTAGE 7194N	1.9	Rps1c	4	LATHAM/ EXP-E2250R	2.2	Rps1c	7
FARM/ ADVANTAGE 7223N	2.2	Rps1k	5,7	LATHAM/ EXP-E2458RV	2.4	Rps1c	7
FARM/ ADVANTAGE 7233N	2.3	Rps1k	7	LATHAM/ L1950R	1.9	Rps1k	4
FARM/ ADVANTAGE 7254N	2.5	Rps1k	7	LATHAM/ L2085R	2	Rps1c	7
GOLD/ COUNTRY 2509RR	0.9	Not Reported	1	LATHAM/ L2158R	2	Rps1k	7
GOLD/ COUNTRY 2713RR	1.3	Not Reported	2	LATHAM/ L2337R	2.3	rps1 - None	7
GOLD/ COUNTRY 2815RR	1.5	Not Reported	2,4	LATHAM/ L2500R	2.5	rps1 - None	7
GOLD/ COUNTRY 3817RR	1.7	Not Reported	2,4	LATHAM/ L2780RV	2.7	rps1 - None	7
GOLD/ COUNTRY 3825NRR	2.5	Not Reported	7	LATHAM/ L2810R	2.8	rps1 - None	7
GOLD/ COUNTRY 8716RR	1.6	Not Reported	2	MUSTANG/ M-066RR	0.6	Rps1 (Rps1a)	1
GOLD/ COUNTRY 9822RR	2.2	Not Reported	7	MUSTANG/ M-075RR	0.7	Rps1 (Rps1a)	1
HEFTY/ 067R	0.6	rps1 - None	1	MUSTANG/ M-095RR	0.9	rps1 - None	1,3
HEFTY/ 117R	1.1	rps1 - None	2	MUSTANG/ M-096RR	0.9	rps1 - None	1,3
HEFTY/ 137R	1.3	Rps1k	2,4	MUSTANG/ M-097RR	0.9	Rps1c	1,3
HEFTY/ 226R	2.2	Rps1 (Rps1a)	7	MUSTANG/ M-115RR	1.1	Rps1c	2,4
HEFTY/ 257RN	2.5	rps1 - None	7	MUSTANG/ M-168RR	1.6	rps1 - None	2,4
HEFTY/ 266R	2.6	Rps1c	7	MUSTANG/ M-207RR	2	Rps1 (Rps1a)	5
HEFTY/ 277RN	2.7	Rps1k	7	MUSTANG/ M-228NRR	2.2	Rps1k	7

Table D. 2007 Roundup Ready™ soybean entries by brand/variety, maturity group, and gene for *Phytophthora* root rot resistance as reported by entrants; and performance table number(s)

Brand / Variety	Mat. Grp.	Gene Resistance	Table No.(s)	Brand / Variety	Mat. Grp.	Gene Resistance	Table No.(s)
MUSTANG/ M-237RR	2.3	Rps1k	7	PRAIRIE/ BR. PB-1954RR	1.9	rps1 - None	2,4,6
MUSTANG/ M-238NRR	2.3	Rps1k	7	PRAIRIE/ BR. PB-1956RR	1.9	Rps1c	2,4,6
MUSTANG/ M-246NRR	2.4	rps1 - None	7	PRAIRIE/ BR. PB-2117NRR	2.1	Rps1k	5
MUSTANG/ M-264RR	2.6	Rps1k	7	PRAIRIE/ BR. PB-2147RR	2.1	rps1 - None	5
MUSTANG/ M-277NRR	2.7	Rps1c	7	PRAIRIE/ BR. PB-2207NRR	2.2	Rps1k	5
MUSTANG/ M-318RR	2	Rps1c	7	PRAIRIE/ BR. PB-2216RR	2.2	Rps1 (Rps1a)	5
MUSTANG/ T-138RR	1.3	Rps1 (Rps1a)	2	PRAIRIE/ BR. PB-2243RR	2.2	Rps1k	5,7
NORTHSTAR/ NS 1012RR	1	Not Reported	2	PRAIRIE/ BR. PB-2337NRR	2.3	Rps1k	5
NORTHSTAR/ NS 1123RR	1.1	Not Reported	2,4	PRAIRIE/ BR. PB-2396RR	2.3	rps1 - None	5
NORTHSTAR/ NS 1311RR	1.3	Not Reported	2,4	PRAIRIE/ BR. PB-2421RR	2.4	Rps1k	5,7
NORTHSTAR/ NS 1312RR	1.3	Not Reported	2,4	PRAIRIE/ BR. PB-2447RR	2.4	rps1 - None	7
NUTECH/ NT-0886RR	0.8	Not Reported	1	PRAIRIE/ BR. PB-2456RR	2.4	Rps1k	5
NUTECH/ NT-0889RR	0.8	Not Reported	1	PRAIRIE/ BR. PB-2515RR	2.5	Rps1k	5,7
NUTECH/ NT-0990RR	0.9	Not Reported	1,3	PRAIRIE/ BR. PB-2565RR	2.5	Rps1c	7
NUTECH/ NT-1212RR	1.2	Not Reported	2	PRAIRIE/ BR. PB-2636NRR	2.6	Rps1k	7
NUTECH/ NT-1766RR	1.7	Not Reported	2,4	PRAIRIE/ BR. PB-2667NRR	2.6	Rps1c	7
NUTECH/ NT-1808RR/SCN	1.8	Rps1c	6	PRAIRIE/ BR. PB-2697NRR	2.6	Rps1c	7
NUTECH/ NT-1991RR	1.9	Rps1k	2,4,6	PRAIRIE/ BR. PB-2707RR	2.7	Rps1k	7
NUTECH/ NT-2220RR	2.2	Not Reported	5,7	PRAIRIE/ BR. PB-EX117NRR	1.8	Rps1k	6
NUTECH/ NT-6105	0.9	Rps1k	1,3	PRAIRIE/ BR. PB-EX147RR	1.8	rps1 - None	6
NUTECH/ NT-6133	1.3	Not Reported	2,4	PRAIRIE/ BR. PB-EX207RR	1.9	Rps1k	4,6
NUTECH/ NT-6145	1.4	Not Reported	2	PRAIRIE/ BR. PB-EX228RR	1.9	rps1 - None	6
NUTECH/ NT-6156	1.5	Not Reported	4	PRAIRIE/ BR. PB-EX271RR	2.7	Rps1c	7
NUTECH/ NT-6166	1.6	Rps1k	2,4	RENK/ RS124NRR	1.2	Rps1c	4
NUTECH/ NT-6175	1.7	Not Reported	4	RENK/ RS147RR	1.4	Not Reported	4
NUTECH/ NT-6211	2.1	Not Reported	5,7	RENK/ RS187NRR	1.8	Rps1k	4
NUTECH/ NT-6219	2.1	Not Reported	7	RENK/ RS204NRR	2	Rps1k	5
NUTECH/ NT-6242	2.4	Not Reported	5,7	RENK/ RS247NRR	2.4	Rps1c	7
NUTECH/ NT-6255	2.5	Rps3	7	RENK/ RS253RR	2.5	Not Reported	7
NUTECH/ NT-6281	2.8	Rps1k	7	RENK/ RS277NRR	2.7	Not Reported	7
NUTECH/ NT-7193RR/SCN	1.9	Rps1k	4,6	RG/ 607RR	0.7		1,3
NUTECH/ NT-7205+RR	1.9	Rps1k	2,4,6	SD/ 1092RR	0.9	Rps1k	1,3
NUTECH/ NT-7206	2.6	Rps1k	7	SD/ 1111RR	1.1	Rps1 (Rps1a)	2,4,6
NUTECH/ NT-7222	2.2	Rps1k	7	SD/ 1161RR/SCN	1.6	Rps1 (Rps1a)	2,4,6
NUTECH/ NT-7227	2.2	Rps1k	5	SEEDS 2000/ 2090RR	0.9	Not Reported	1
NUTECH/ NT-7234RR	2.3	Rps1k	5	SEEDS 2000/ 2120RR	1.2	Rps1k	2
NUTECH/ NT-7282	2.8	Rps1c	7	STINE/ 1008-4	1	rps1 - None	2,4
NUTECH/ NT-7293	2.9	Rps1k	7	STINE/ 1108-4	1.1	rps1 - None	2
PRAIRIE/ BR. PB-0636RR	0.6	Rps1k	1	STINE/ 1432-4	1.4	Rps1k	2,4
PRAIRIE/ BR. PB-0923RR	0.9	Rps1k	1,3	STINE/ 1468-4	1.4	rps1 - None	2,4
PRAIRIE/ BR. PB-0936RR	0.9	rps1 - None	1,3	STINE/ 1916-4	1.9	rps1 - None	2,4
PRAIRIE/ BR. PB-0954RR	0.9	rps1 - None	1,3	STINE/ 1918-4	1.9	rps1 - None	2,4
PRAIRIE/ BR. PB-1007RR	0.9	Rps1k	1,3	STINE/ 2523-4	2.5	Rps1k	7
PRAIRIE/ BR. PB-1337RR	1.3	rps1 - None	2,4	STINE/ 2862-4	2.8	Rps1k	7
PRAIRIE/ BR. PB-1557NRR	1.5	Rps1k	2,4	THUNDER/ 2511RR	1.1	Rps1k	4
PRAIRIE/ BR. PB-1597RR	1.5	rps1 - None	2,4	THUNDER/ 2608NRR	0.8	Rps1k	1
PRAIRIE/ BR. PB-1607RR	1.6	Rps1k	2,4	THUNDER/ 2709RR	0	Rps1k	1
PRAIRIE/ BR. PB-1737NRR	1.7	rps1 - None	2,4,6	THUNDER/ 2811RR	1.1	Rps1k	4
PRAIRIE/ BR. PB-1754RR	1.7	Rps1 (Rps1a)	2,4,6	THUNDER/ 709RR	0.9	Rps1c	1
PRAIRIE/ BR. PB-1914RR	1.9	rps1 - None	6	WENSMAN/ W 2090RR	0.9	Not Reported	1

Table D. 2007 Roundup Ready™ soybean entries by brand/variety, maturity group, and gene for *Phytophthora* root rot resistance as reported by entrants; and performance table number(s)

Brand / Variety	Mat. Grp.	Gene Resistance	Table No.(s)	Brand / Variety	Mat. Grp.	Gene Resistance	Table No.(s)
WENSMAN/ W 2108RR	1	Not Reported	2	PUBLIC/ SD02R-48	1	Not Reported	2,4
WENSMAN/ W 2124RR	1.2	Not Reported	2,4	PUBLIC/ SD02R-5	2	Not Reported	5,7
WENSMAN/ W 2147NRR	1.4	Not Reported	2,4	PUBLIC/ SD02R-51	1	Not Reported	2,4
WENSMAN/ W 2166RR	1.6	Not Reported	2,4,6	PUBLIC/ SD02R-8	1	Not Reported	2,4
WENSMAN/ W 2172NRR	1.7	Not Reported	2,4,6	PUBLIC/ SD03-1774R	0	Not Reported	1,3
WENSMAN/ W 2195NRR	1.9	Not Reported	4,6	PUBLIC/ SD03-2006R	2	Not Reported	5,7
WENSMAN/ W 2200NRR	2	Not Reported	5,7	PUBLIC/ SD03-2222R	2	Not Reported	5,7
WENSMAN/ W 2222NRR	2.2	Not Reported	5,7	PUBLIC/ SD03-2271R	0	Not Reported	1,3
WENSMAN/ W 2253RR	2.5	Not Reported	7	PUBLIC/ SD03-2768R	0	Not Reported	1,3
WENSMAN/ W 2300RR	2.3	Not Reported	7	PUBLIC/ SD03-3493R	0	Not Reported	1,3
ZILLER/ BT 7083NR	0.8	Rps1k	1	PUBLIC/ SD03-3580R	0	Not Reported	1,3
ZILLER/ BT 7156NR	1.5	rps1 - None	2,4	PUBLIC/ SD03-3920R	0	Not Reported	1,3
ZILLER/ BT 7186NR	1.8	Rps1k	6	PUBLIC/ SDX00R-017-52	1	Not Reported	2,4
ZILLER/ BT 7208NR	2	Rps1c	5	PUBLIC/ SDX00R-020-18	2	Not Reported	5,7
ZILLER/ BT 7217NR	2.1	Rps1k	7	PUBLIC/ SDX00R-035-56	2	Not Reported	5,7
PUBLIC/ SD(LD)05-16118	2	Not Reported	5,7	PUBLIC/ SDX00R-053-46	1	Not Reported	2,4
PUBLIC/ SD(LD)05-16121	1	Not Reported	2,4	PUBLIC/ SDX01R-00403109	1	Not Reported	2,4
PUBLIC/ SD(LD)05-16137	2	Not Reported	5,7	PUBLIC/ SDX01R-007039	2	Not Reported	5,7
PUBLIC/ SD00-1018R	1	Not Reported	2,4	PUBLIC/ SDX04R-68-1-9	1	Not Reported	2,4
PUBLIC/ SD01-1120R	1	Not Reported	2,4				

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Table 1a. Roundup Ready™ maturity group-0 soybean variety yield averages- northern South Dakota locations, 2006-2007

Brand/Variety (By 2-yr then 2007 zone yield)	Average DTM*	Northern Averages by Location				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2007	Bu/Acre 2-Yr
		Bu/Acre 2007	Bu/Acre 2-Yr	Bu/Acre 2007	Bu/Acre 2-Yr		
NUTECH/ NT-0886RR	117	57	43	55	46	56	45
KRUGER/ K-072RR	116	58	46	50	43	54	45
PRAIRIE/ BR. PB-0936RR	117	55	44	53	45	54	45
MUSTANG/ M-096RR	117	54	45	52	44	53	45
NUTECH/ NT-0990RR	117	54	42	52	45	53	44
HEFTY/ 067R	114	56	43	54	42	55	43
DAIRYLAND/ DSR-0903/RR	115	53	43	54	43	54	43
SEEDS 2000/ 2090RR	116	54	43	51	43	53	43
MUSTANG/ M-095RR	116	51	42	51	44	51	43
NUTECH/ NT-0889RR	116	52	42	49	44	51	43
KRUGER/ K-098RR	116	52	42	49	43	51	43
PRAIRIE/ BR. PB-0923RR	116	54	41	51	42	53	42
WENSMAN/ W 2090RR	117	53	41	50	42	52	42
THUNDER/ 709RR	118	50	41	48	43	49	42
ASGROW/ AG0803	117	52	41	49	41	51	41
DAIRYLAND/ DSR-0701/RR	112	52	42	50	40	51	41
KRUGER/ K-056RR	115	53	43	47	39	50	41
KRUGER/ K-042RR	113	51	42	48	39	50	41
MUSTANG/ M-097RR	116	51	42	44	40	48	41
MUSTANG/ M-066RR	115	55	40	47	39	51	40
PRAIRIE/ BR. PB-0954RR	117	52	40	45	40	49	40
MUSTANG/ M-075RR	111	53	41	45	37	49	39
SD/ 1092RR	116	46	38	48	40	47	39
GOLD/ COUNTRY 2509RR	116	.	.	46	42	.	.
NUTECH/ NT-6105	119	52	.	55	.	54	.
KRUGER/ K-072+RR	117	54	.	54	.	54	.
KRUGER/ K-091RR	117	53	.	55	.	54	.
PRAIRIE/ BR. PB-1007RR	119	54	.	54	.	54	.
ASGROW/ AG0701	114	54	.	52	.	53	.
PRAIRIE/ BR. PB-0636RR	114	52	.	53	.	53	.
PUBLIC/ SD03-2768R	120	49	.	51	.	50	.
PUBLIC/ SD03-3493R	117	53	.	46	.	50	.
THUNDER/ 2608NRR	111	52	.	43	.	48	.
PUBLIC/ SD03-1774R	115	52	.	44	.	48	.
THUNDER/ 2709RR	116	48	.	45	.	47	.
PUBLIC/ SD03-2271R	115	49	.	44	.	47	.
PUBLIC/ SD03-3580R	116	47	.	44	.	46	.
RG/ 607RR	110	46	.	43	.	45	.
PUBLIC/ SD03-3920R	116	45	.	45	.	45	.
ZILLER/ BT 7083NR	.	52	.	.	.	.	.
Test avg. :	116	52	42	49	42	51	42
High avg. :	120	58	46	55	46	56	45
Low avg. :	110	45	38	43	37	45	39
# Lsd (.05):	3		NS	4	NS	**	**
## TPG-avg. :		55	38	51	37		
@ Coef. Var.:	3	6	5	6	4	6	
No. Entries:	40	39	23	39	24	40	23

* DTM= days to maturity at Warner when seeded May 24, 2007; South Shore is missing due to an early frost

LSD,(.05)= amount values in a column must differ to be significantly different or if they were non-significant (NS)

TPG-avg. = minimum value to qualify for top performance group

@ Coef. Var.= a measure of trial experimental error, 15% or less is best

** The effect of variety differed significantly between locations for both 2007 and for two years. Therefore, evaluate varieties by looking at the 2007 and 2-yr columns at each location, not by looking at the Northern zone columns

Table 1b. Roundup Ready™ maturity group-0 soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2007

Brand/Variety (By 2007 zone protein)	Average DTM*	Northern Averages by Location						Northern Zone Averages		
		South Shore			Warner			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)**	Protein (%)	Oil (%)	Lodging (1-5)**			
SD/ 1092RR	.	37.9	19.2	3	33.5	20.5	1	35.7	19.8	2
SEEDS 2000/ 2090RR	.	37.2	18.3	1	34.1	19.7	1	35.7	19.0	1
PRAIRIE/ BR. PB-0954RR	.	36.6	19.5	2	33.8	20.2	1	35.2	19.9	2
KRUGER/ K-098RR	.	36.5	19.5	2	33.7	20.3	1	35.1	19.9	1
RG/ 607RR	.	36.6	19.6	2	33.6	21.3	1	35.1	20.4	2
THUNDER/ 2608NRR	.	36.0	19.2	3	33.9	20.0	1	35.0	19.6	2
NUTECH/ NT-0889RR	.	36.1	19.0	2	33.3	20.4	1	34.7	19.7	2
NUTECH/ NT-0886RR	.	36.3	18.9	1	33.1	20.3	1	34.7	19.6	1
KRUGER/ K-072RR	.	35.7	19.0	1	33.6	20.1	1	34.6	19.6	1
THUNDER/ 2709RR	.	35.5	19.2	2	33.7	19.9	1	34.6	19.5	2
WENSMAN/ W 2090RR	.	36.3	19.4	2	32.8	20.4	1	34.6	19.9	2
MUSTANG/ M-096RR	.	36.3	19.8	1	32.8	20.5	1	34.5	20.2	1
KRUGER/ K-072+RR	.	35.8	19.0	1	33.0	20.2	1	34.4	19.6	1
PUBLIC/ SD03-2271R	.	36.0	19.2	2	32.8	20.6	1	34.4	19.9	1
MUSTANG/ M-095RR	.	35.9	19.2	3	32.8	20.6	1	34.4	19.9	2
PUBLIC/ SD03-3580R	.	36.4	19.3	2	32.2	21.2	1	34.3	20.3	1
PRAIRIE/ BR. PB-0923RR	.	36.2	19.1	1	32.4	20.4	1	34.3	19.8	1
DAIRYLAND/ DSR-0701/RR	.	36.2	19.2	1	32.4	20.4	1	34.3	19.8	1
DAIRYLAND/ DSR-0903/RR	.	36.1	19.5	1	32.3	20.8	1	34.2	20.1	1
KRUGER/ K-091RR	.	35.9	19.5	1	32.4	20.7	1	34.2	20.1	1
MUSTANG/ M-066RR	.	35.3	20.3	2	32.9	20.3	1	34.1	20.3	1
KRUGER/ K-056RR	.	36.0	20.2	2	32.3	20.4	1	34.1	20.3	1
MUSTANG/ M-075RR	.	35.6	19.0	1	32.6	20.4	1	34.1	19.7	1
NUTECH/ NT-0990RR	.	35.8	19.1	1	32.3	20.3	1	34.1	19.7	1
KRUGER/ K-042RR	.	36.0	20.3	2	31.7	21.6	1	33.9	20.9	1
NUTECH/ NT-6105	.	35.8	19.0	1	31.8	20.2	1	33.8	19.6	1
PRAIRIE/ BR. PB-0936RR	.	35.9	19.1	1	31.4	20.8	1	33.7	20.0	1
MUSTANG/ M-097RR	.	35.4	19.1	1	31.9	20.5	1	33.6	19.8	1
THUNDER/ 709RR	.	35.8	19.0	1	31.4	20.7	1	33.6	19.8	1
PRAIRIE/ BR. PB-1007RR	.	35.2	18.7	1	32.0	20.1	1	33.6	19.4	1
PUBLIC/ SD03-1774R	.	35.4	20.0	2	31.7	21.3	1	33.5	20.6	1
PUBLIC/ SD03-3920R	.	35.6	18.8	2	31.3	20.7	1	33.5	19.7	1
PUBLIC/ SD03-3493R	.	35.3	19.7	2	31.5	21.1	1	33.4	20.4	1
PRAIRIE/ BR. PB-0636RR	.	34.9	19.5	2	32.0	20.2	1	33.4	19.8	2
ASGROW/ AG0803	.	34.5	19.9	3	32.3	20.5	1	33.4	20.2	2
ASGROW/ AG0701	.	34.7	19.7	1	31.4	20.2	1	33.1	20.0	1
HEFTY/ 067R	.	34.6	19.4	2	31.4	20.3	1	33.0	19.9	2
PUBLIC/ SD03-2768R	.	35.2	19.6	2	29.8	21.0	1	32.5	20.3	2
GOLD/ COUNTRY 2509RR	34.0	20.1	1	.	.	.
ZILLER/ BT 7083NR	.	36.0	19.3	2	.	.	.	.	.	.
Test avg.:	.	35.9	19.3	2	32.5	20.5	1	34.2	19.9	1
High avg.:	.	37.9	20.3	3	34.1	21.6	1	35.7	20.9	2
Low avg.:	.	34.5	18.3	1	29.8	19.7	1	32.5	19.0	1
# LSD(.05):	.	0.9	0.5	1	1.2	0.5	NS	***	***	***
## TPG-avg.:	.	37.1	19.9	1	33.0	21.2	1	.	.	.
@ Coef. Var.:	.	2	2	41	2	1	0	2	1	35
No. Entries:	.	39	39	39	39	39	39	38	38	38

* DTM= average days from seeding (South Shore- May 31, Warner- May 24, 2007) to maturity, a missing value indicates the site received a hard frost before the variety reached maturity

** Lodging, 1= all plants erect, 5= all plant flat

*** The effect of variety differed significantly between locations for 2007. Therefore, evaluate varieties by looking at the 2007 columns at each location, not by looking at the Northern zone 2007 column.

LSD(.05)= amount values in a column must differ to be significantly different or if they were non-significant (NS)

TPG-avg. = minimum value to qualify for top performance group

@ Coef. Var.= a measure of trial experimental error, 15% or less is best

Table 2a. Roundup Ready™ maturity group-I soybean variety yield averages- northern South Dakota locations, 2006-2007

Brand/Variety (By 2-yr then 2007 zone yield)	Average DTM*	Northern Averages by Location				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2007	Bu/Acre 2-Yr
		Bu/Acre 2007	Bu/Acre 2-Yr	Bu/Acre 2007	Bu/Acre 2-Yr		
NUTECH/ NT-7205+RR	123	53	40	60	49	57	45
WENSMAN/ W 2108RR	117	55	40	58	49	57	45
ASGROW/ AG1702	121	53	40	56	47	55	44
PRAIRIE/ BR. PB-1954RR	123	50	41	53	46	52	44
ASGROW/ AG1102	118	54	40	59	46	57	43
HEFTY/ 117R	118	54	39	60	46	57	43
NUTECH/ NT-1991RR	124	47	38	61	47	54	43
KRUGER/ K-194RR	123	48	39	56	47	52	43
NUTECH/ NT-1766RR	121	46	39	56	47	51	43
KRUGER/ K-140RR	118	54	40	55	43	55	42
GOLD/ COUNTRY 2713RR	119	52	40	53	43	53	42
PRAIRIE/ BR. PB-1754RR	122	50	40	55	44	53	42
PUBLIC/ SDX00R-017-52	120	47	39	53	44	50	42
HEFTY/ 137R	118	51	38	54	43	53	41
DAIRYLAND/ DSR-1301/RR	119	50	38	53	44	52	41
MUSTANG/ M-115RR	117	49	37	52	44	51	41
PUBLIC/ SD02R-8	123	45	36	54	45	50	41
KRUGER/ K-100RR	116	52	40	52	40	52	40
DAIRYLAND/ DSR1500RRSTS	119	47	37	55	43	51	40
SD/ 1161RR/SCN	123	49	38	53	41	51	40
SD/ 1111RR	118	51	38	50	39	51	39
PUBLIC/ SD00-1018R	118	46	36	51	41	49	39
PUBLIC/ SD01-1120R	123	45	36	48	41	47	39
KRUGER/ K-120RR	115	50	37	48	38	49	38
PUBLIC/ SDX00R-053-46	121	42	35	49	41	46	38
WENSMAN/ W 2166RR	120	57	.	62	.	60	.
MUSTANG/ M-168RR	121	56	.	62	.	59	.
HEFTY/ EXP168R	120	55	.	63	.	59	.
STINE/ 1468-4	121	56	.	62	.	59	.
NUTECH/ NT-6133	118	53	.	60	.	57	.
GOLD/ COUNTRY 2815RR	120	52	.	61	.	57	.
STINE/ 1008-4	116	56	.	58	.	57	.
WENSMAN/ W 2124RR	119	53	.	61	.	57	.
PRAIRIE/ BR. PB-1337RR	119	52	.	60	.	56	.
PRAIRIE/ BR. PB-1597RR	119	55	.	56	.	56	.
NUTECH/ NT-6166	122	52	.	58	.	55	.
KRUGER/ EXP19A07	123	47	.	62	.	55	.
STINE/ 1432-4	121	52	.	57	.	55	.
PRAIRIE/ BR. PB-1607RR	121	52	.	57	.	55	.
NORTHSTAR/ NS 1012RR	119	54	.	56	.	55	.
ASGROW/ AG1403	119	48	.	59	.	54	.
MUSTANG/ T-138RR	118	53	.	55	.	54	.
KRUGER/ K-195+RR/SCN	122	53	.	54	.	54	.
WENSMAN/ W 2147NRR	121	52	.	55	.	54	.
NORTHSTAR/ NS 1311RR	117	54	.	54	.	54	.

Table 2a. Roundup Ready™ maturity group-I soybean variety yield averages- northern locations (continued)

Brand/Variety (By 2-yr then 2007 zone yield)	Average DTM*	Northern Averages by Location				Northern Zone Averages	
		South Shore		Warner		Bu/Acre 2007	Bu/Acre 2-Yr
		Bu/Acre 2007	Bu/Acre 2-Yr	Bu/Acre 2007	Bu/Acre 2-Yr		
PRAIRIE/ BR. PB-1557NRR	122	50	.	55	.	53	.
WENSMAN/ W 2172NRR	121	51	.	54	.	53	.
PUBLIC/ SD(LD)05-16121	123	49	.	57	.	53	.
NUTECH/ NT-6145	118	53	.	50	.	52	.
KRUGER/ K-142RR	119	50	.	54	.	52	.
PRAIRIE/ BR. PB-1956RR	124	43	.	61	.	52	.
SEEDS 2000/ 2120RR	116	50	.	53	.	52	.
PUBLIC/ SDX01R-00403109	114	49	.	53	.	51	.
PUBLIC/ SD02R-48	121	47	.	54	.	51	.
PRAIRIE/ BR. PB-1737NRR	121	49	.	51	.	50	.
ASGROW/ AG2002	123	46	.	52	.	49	.
KRUGER/ K-170RR/SCN	122	48	.	50	.	49	.
PUBLIC/ SD02R-51	123	46	.	52	.	49	.
NUTECH/ NT-1212RR	121	49	.	47	.	48	.
PUBLIC/ SDX04R-68-1-9	121	36	.	42	.	39	.
COYOTE/ 4719RR	.	50	.	.	.	.	.
GOLD/ COUNTRY 8716RR	.	52	40	.	.	.	.
GOLD/ COUNTRY 3817RR	.	51	.	.	.	.	.
STINE/ 1918-4	.	51	39	.	.	.	.
STINE/ 1108-4	116	.	.	54	41	.	.
STINE/ 1916-4	.	49	.	.	.	.	.
ZILLER/ BT 7156NR	.	49	.	.	.	.	.
NORTHSTAR/ NS 1312RR	.	45	.	.	.	.	.
NORTHSTAR/ NS 1123RR	.	52	.	.	.	.	.
Test avg. :	120	50	39	55	44	53	42
High avg. :	124	57	41	63	49	60	45
Low avg. :	114	36	35	42	38	39	38
# Lsd (.05) :		3	NS	5	6	**	***
## TPG-avg. :		54	35	58	43		
@ Coef. Var. :		4	6	6	7	5	30
No. Entries :	61	68	27	61	26	60	25

* DTM= days to maturity at Warner when seeded May 24, 2007; South Shore is missing due to an early frost

LSD,(.05)= amount values in a column must differ to be significantly different or if they were non-significant (NS)

TPG-avg. = minimum value to qualify for top performance group

@ Coef. Var.= a measure of trial experimental error, 15% or less is best

** The effect of variety differed significantly between locations for 2007. Therefore, evaluate varieties by looking at the 2007 columns at each location, not by looking at the Northern zone 2007 column.

*** A coefficient of variation value of 30% indicates there was too much experimental error associated with the 2-yr means to make a valid comparison between varieties using means in this column.

Table 2b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2007

Brand/Variety (By zone protein)	Average DTM*	Northern Averages by Location						Northern Zone Averages		
		South Shore			Warner			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)**	Protein (%)	Oil (%)	Lodging (1-5)**			
PUBLIC/ SDX04R-68-1-9	.	37.3	18.2	3	33.6	18.9	2	35.5	18.6	3
KRUGER/ K-170RR/SCN	.	36.1	18.7	2	34.5	19.1	1	35.3	18.9	2
PRAIRIE/ BR. PB-1737NRR	.	36.5	18.9	2	34.1	19.2	1	35.3	19.1	1
PUBLIC/ SDX01R-00403109	.	37.3	19.3	1	33.3	20.3	1	35.3	19.8	1
PRAIRIE/ BR. PB-1754RR	.	37.4	18.3	1	32.4	19.8	1	34.9	19.0	1
DAIRYLAND/ DSR-1301/RR	.	37.0	18.5	1	32.7	20.4	1	34.8	19.4	1
DAIRYLAND/ DSR1500RRSTS	.	37.1	18.5	1	32.2	20.0	1	34.7	19.3	1
NUTECH/ NT-7205+RR	.	35.7	19.0	1	33.4	19.9	1	34.6	19.5	1
STINE/ 1008-4	.	35.6	19.3	1	33.2	20.2	1	34.4	19.8	1
KRUGER/ K-100RR	.	36.2	19.3	1	32.5	20.8	1	34.4	20.1	1
NUTECH/ NT-1766RR	.	35.9	18.1	1	32.8	19.5	1	34.3	18.8	1
ASGROW/ AG1702	.	35.4	19.5	1	33.1	19.8	1	34.3	19.7	1
PRAIRIE/ BR. PB-1956RR	.	37.1	20.7	2	31.4	20.4	1	34.2	20.6	2
SD/ 1161RR/SCN	.	35.4	19.2	1	32.8	19.9	1	34.1	19.6	1
NUTECH/ NT-6133	.	35.5	19.2	1	32.5	19.8	1	34.0	19.5	1
PRAIRIE/ BR. PB-1954RR	.	36.1	19.1	2	31.9	19.9	1	34.0	19.5	2
WENSMAN/ W 2108RR	.	35.3	19.4	1	32.7	20.3	1	34.0	19.9	1
ASGROW/ AG2002	.	36.6	19.0	2	31.3	20.2	1	34.0	19.6	1
KRUGER/ K-194RR	.	35.0	18.8	1	32.9	19.2	1	34.0	19.0	1
SEEDS 2000/ 2120RR	.	35.8	19.0	1	32.0	19.9	1	33.9	19.4	1
KRUGER/ K-140RR	.	34.9	19.6	1	32.7	20.6	1	33.8	20.1	1
PRAIRIE/ BR. PB-1337RR	.	35.8	18.9	1	31.7	20.0	1	33.8	19.5	1
PUBLIC/ SD01-1120R	.	35.9	19.4	2	31.7	20.5	1	33.8	20.0	2
HEFTY/ 117R	.	35.3	19.5	1	32.2	20.3	1	33.8	19.9	1
NUTECH/ NT-6166	.	34.8	19.3	1	32.7	19.7	1	33.8	19.5	1
KRUGER/ K-120RR	.	35.5	18.8	1	32.0	19.6	1	33.8	19.2	1
NORTHSTAR/ NS 1012RR	.	35.4	19.4	1	32.0	20.4	1	33.7	19.9	1
ASGROW/ AG1403	.	35.2	19.3	1	32.2	19.7	1	33.7	19.5	1
KRUGER/ EXP19A07	.	35.2	19.0	1	32.0	20.7	1	33.6	19.8	1
NORTHSTAR/ NS 1311RR	.	35.3	19.7	1	31.9	20.6	1	33.6	20.2	1
NUTECH/ NT-1991RR	.	34.8	19.2	1	32.3	19.4	1	33.6	19.3	1
WENSMAN/ W 2124RR	.	35.8	19.1	2	31.2	20.2	1	33.5	19.6	1
KRUGER/ K-142RR	.	35.0	19.9	1	32.0	20.7	1	33.5	20.3	1
NUTECH/ NT-6145	.	34.8	19.8	1	32.0	20.4	1	33.4	20.1	1
HEFTY/ 137R	.	34.8	19.4	1	32.0	23.5	1	33.4	21.5	1
PRAIRIE/ BR. PB-1607RR	.	35.1	19.1	1	31.6	20.0	1	33.4	19.6	1
MUSTANG/ T-138RR	.	35.1	19.2	1	31.6	20.1	1	33.3	19.7	1
PUBLIC/ SD00-1018R	.	35.4	19.6	2	31.2	21.0	1	33.3	20.3	2
GOLD/ COUNTRY 2713RR	.	34.9	19.8	1	31.5	20.9	1	33.2	20.4	1
PUBLIC/ SD02R-48	.	34.6	19.5	1	31.7	20.1	1	33.1	19.8	1
SD/ 1111RR	.	34.2	20.2	2	31.9	20.9	1	33.1	20.6	2
KRUGER/ K-195+RR/SCN	.	34.6	20.1	1	31.4	20.7	1	33.0	20.4	1
STINE/ 1432-4	.	34.5	19.7	1	31.6	20.8	1	33.0	20.3	1
PUBLIC/ SD02R-51	.	34.4	19.4	1	31.4	19.8	1	32.9	19.6	1
ASGROW/ AG1102	.	33.9	19.1	1	31.9	20.1	1	32.9	19.6	1
PUBLIC/ SD02R-8	.	34.3	19.4	1	31.3	20.3	1	32.8	19.8	1
PUBLIC/ SDX00R-017-52	.	35.1	19.9	2	30.5	21.1	1	32.8	20.5	1
PRAIRIE/ BR. PB-1557NRR	.	34.4	19.8	1	31.1	20.8	1	32.8	20.3	1
WENSMAN/ W 2172NRR	.	34.0	19.9	1	31.5	20.5	1	32.8	20.2	1
PUBLIC/ SDX00R-053-46	.	34.7	19.4	3	30.7	20.4	1	32.7	19.9	2

Table 2b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- northern South Dakota locations, 2007 (continued)

Brand/Variety (By zone protein)	Average DTM*	Northern Averages by Location						Northern Zone Averages		
		South Shore			Warner			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)**	Protein (%)	Oil (%)	Lodging (1-5)**			
STINE/ 1468-4	.	34.5	19.8	1	30.8	20.9	1	32.6	20.3	1
PRAIRIE/ BR. PB-1597RR	.	34.8	19.7	1	30.4	21.0	1	32.6	20.4	1
WENSMAN/ W 2166RR	.	34.5	19.7	1	30.7	20.8	1	32.6	20.3	1
GOLD/ COUNTRY 2815RR	.	34.4	19.7	1	30.7	20.8	1	32.5	20.3	1
WENSMAN/ W 2147NRR	.	34.2	19.8	1	30.7	20.8	1	32.5	20.3	1
NUTECH/ NT-1212RR	.	34.4	19.7	1	30.1	20.4	1	32.3	20.0	1
PUBLIC/ SD(LD)05-16121	.	33.4	19.6	1	31.1	19.9	1	32.3	19.8	1
MUSTANG/ M-115RR	.	34.1	19.6	1	30.2	20.7	1	32.2	20.2	1
MUSTANG/ M-168RR	.	34.4	19.9	1	29.9	21.1	1	32.2	20.5	1
HEFTY/ EXP168R	.	34.1	19.4	1	29.9	21.1	1	32.0	20.3	1
COYOTE/ 4719RR	.	35.2	19.3	1	.	.	.	.	.	.
GOLD/ COUNTRY 8716RR	.	35.1	19.2	1	.	.	.	.	.	.
GOLD/ COUNTRY 3817RR	.	33.3	20.0	2	.	.	.	.	.	.
STINE/ 1918-4	.	35.0	19.3	1	.	.	.	.	.	.
STINE/ 1108-4	32.4	20.3	1	.	.	.
STINE/ 1916-4	.	36.2	19.0	1	.	.	.	.	.	.
ZILLER/ BT 7156NR	.	36.2	19.3	1	.	.	.	.	.	.
NORTHSTAR/ NS 1312RR	.	35.9	18.9	1	.	.	.	.	.	.
NORTHSTAR/ NS 1123RR	.	35.5	19.0	1	.	.	.	.	.	.
Test avg. :	.	35.3	19.3	1	31.9	20.3	1	33.6	19.8	1
High avg. :	.	37.4	20.7	3	34.5	23.5	2	35.5	21.5	3
Low avg. :	.	33.3	18.1	1	29.9	18.9	1	32.0	18.6	1
# Lsd(.05) :	.	1.0	0.5	1	1.3	1.0	NS	***	***	***
## TPG-avg. :	.	36.5	20.3	1	33.3	22.6	1			
@ Coef.Var. :	.	2	2	34	3	3	0	2	3	26
No. Entries :	.	68	68	68	61	61	61	60	60	60

* DTM= days from seeding (South Shore- May 31, Warner- May 24, 2007) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity

** Lodging, 1= all plants erect, 5= all plant flat

*** The effect of variety differed significantly between locations for 2007. Therefore, evaluate varieties by looking at the 2007 columns at each location, not by looking at the Northern zone 2007 column.

LSD(.05)= amount values in a column must differ to be significantly different or if they were non-significant (NS)

TPG-avg. = minimum value to qualify for top performance group

@ Coef. Var.= a measure of trial experimental error, 15% or less is best

Table 3a. Roundup Ready™ maturity group-0 soybean variety yield averages- central South Dakota locations, 2006-2007.

Brand/Variety (By 2-yr then 2007 zone yield)	Average DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft			
		Bu/Acre 2007	Bu/Acre 2-Yr	Bu/Acre 2007	Bu/Acre 2-Yr	Bu/Acre 2007	Bu/Acre 2-Yr
KRUGER/ K-072RR	113	61	59	66	57	64	58
MUSTANG/ M-095RR	114	62	59	60	54	61	57
PRAIRIE/ BR. PB-0954RR	115	61	57	61	54	61	56
DAIRYLAND/ DSR-0903/RR	111	62	57	60	53	61	55
PRAIRIE/ BR. PB-0923RR	114	58	56	63	54	61	55
KRUGER/ K-098RR	114	60	57	59	53	60	55
PRAIRIE/ BR. PB-0936RR	115	59	57	60	53	60	55
MUSTANG/ M-096RR	115	59	54	63	54	61	54
MUSTANG/ M-097RR	114	57	54	62	52	60	53
KRUGER/ K-056RR	111	50	48	63	55	57	52
SD/ 1092RR	113	51	49	57	50	54	50
KRUGER/ K-072+RR	115	63	.	65	.	64	.
NUTECH/ NT-6105	118	61	.	64	.	63	.
PRAIRIE/ BR. PB-1007RR	119	62	.	62	.	62	.
NUTECH/ NT-0990RR	114	62	.	59	.	61	.
KRUGER/ K-091RR	115	60	.	61	.	61	.
KRUGER/ K-042RR	110	57	.	63	.	60	.
PUBLIC/ SD03-1774R	112	57	.	61	.	59	.
PUBLIC/ SD03-3493R	116	57	.	59	.	58	.
PUBLIC/ SD03-2271R	112	55	.	56	.	56	.
PUBLIC/ SD03-2768R	114	56	.	55	.	56	.
PUBLIC/ SD03-3580R	113	56	.	55	.	56	.
PUBLIC/ SD03-3920R	114	54	.	54	.	54	.
RG/ 607RR	110	48	.	58	.	53	.
Test avg.:	114	58	55	60	54	59	55
High avg.:	119	63	59	66	57	64	58
Low avg.:	110	48	48	54	50	53	50
# Lsd (.05):		5	4	4	NS	**	NS
## TPG-avg.:		58	55	62	50		50
@ Coef. Var.:	24	5	5	4	6	5	13
No. Entries:		24	11	24	11	29	11

* DTM= days to maturity at Brookings and Bancroft when seeded May 21 and June 6, 2007, respectively

LSD,(.05)= amount values in a column must differ to be significantly different or if they were non-significant (NS)

TPG-avg. = minimum value to qualify for top performance group

@ Coef. Var.= a measure of trial experimental error, 15% or less is best

** The effect of variety differed significantly between locations for 2007. Therefore, evaluate varieties by looking at the 2007 columns at each location, not by looking at the Northern zone 2007 column.

Table 3b. Roundup Ready™ maturity group-0 soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2007

Brand/Variety (By 2007 zone protein)	Average DTM*	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)**	Protein (%)	Oil (%)	Lodging (1-5)**			
SD/ 1092RR	.	39.6	18.8	1	36.9	18.8	2	38.3	18.8	1
RG/ 607RR	.	38.2	19.5	1	36.1	20.2	2	37.2	19.9	2
KRUGER/ K-098RR	.	37.9	19.2	1	35.5	19.2	3	36.7	19.2	2
PUBLIC/ SD03-3580R	.	37.4	19.7	1	36.1	19.5	2	36.7	19.6	1
PRAIRIE/ BR. PB-0954RR	.	37.7	19.3	1	35.6	19.5	2	36.7	19.4	2
KRUGER/ K-072+RR	.	37.0	19.5	1	35.8	19.3	1	36.4	19.4	1
PUBLIC/ SD03-3493R	.	37.1	19.8	1	35.6	19.6	2	36.4	19.7	1
MUSTANG/ M-095RR	.	37.7	19.3	2	35.0	19.5	2	36.3	19.4	2
PUBLIC/ SD03-2271R	.	37.2	19.6	1	35.4	19.5	2	36.3	19.6	2
DAIRYLAND/ DSR-0903/RR	.	36.8	20.2	1	35.6	20.1	2	36.2	20.1	1
KRUGER/ K-072RR	.	37.0	19.5	1	35.4	19.3	1	36.2	19.4	1
PRAIRIE/ BR. PB-0923RR	.	36.4	19.3	1	35.7	19.1	1	36.1	19.2	1
NUTECH/ NT-6105	.	36.3	19.6	1	35.8	18.9	1	36.0	19.2	1
MUSTANG/ M-096RR	.	36.7	19.7	1	35.1	19.7	1	35.9	19.7	1
PRAIRIE/ BR. PB-1007RR	.	36.3	19.3	1	35.4	18.6	1	35.9	18.9	1
PUBLIC/ SD03-3920R	.	36.1	19.5	1	35.5	18.9	1	35.8	19.2	1
KRUGER/ K-091RR	.	36.2	19.6	1	35.2	19.0	1	35.7	19.3	1
KRUGER/ K-056RR	.	36.9	19.5	1	34.2	20.2	1	35.6	19.9	1
PRAIRIE/ BR. PB-0936RR	.	36.0	19.6	1	35.0	19.2	1	35.5	19.4	1
NUTECH/ NT-0990RR	.	36.1	19.6	1	34.7	19.1	1	35.4	19.4	1
MUSTANG/ M-097RR	.	35.6	19.8	1	35.0	19.4	2	35.3	19.6	1
PUBLIC/ SD03-2768R	.	36.1	19.8	2	33.7	19.3	2	34.9	19.6	2
PUBLIC/ SD03-1774R	.	35.6	20.6	1	34.1	20.6	1	34.8	20.6	1
KRUGER/ K-042RR	.	35.6	20.9	1	33.8	20.8	1	34.7	20.8	1
Test avg. :	.	36.8	19.6	1	35.3	19.5	1	36.0	19.5	1
High avg. :	.	39.6	20.9	2	36.9	20.8	3	38.3	20.8	2
High avg. :	.	35.6	18.8	1	33.7	18.6	1	34.7	18.8	1
* LSD(.05) :	.	0.6	0.3	NS	0.9	0.5	1	***	0.3	1
## TPG-avg. :	.	39.1	20.7	2	36.1	20.4	1		20.5	1
### Coef.Var. :	.	1	1	0	2	2	33	1	1	28
No. Entries :	.	24	24	24	24	24	24	48	48	48

* DTM= average days from seeding (Brookings- May 21, Bancroft- June 6, 2007) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity

** Lodging, 1= all plants erect, 5= all plant flat

*** The effect of variety differed significantly between locations for 2007. Therefore, evaluate varieties by looking at the 2007 columns at each location, not by looking at the Central zone 2007 column.

LSD(.05)= amount values in a column must differ to be significantly different or if they were non-significant (NS)

TPG-avg. = minimum value to qualify for top performance group

@ Coef. Var.= a measure of trial experimental error, 15% or less is best

Table 4a. Roundup Ready™ maturity group-I soybean variety yield averages- central South Dakota locations, 2006-2007

Brand/Variety (By 2-yr then 2007 zone yield)	Average DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2007	Bu/Acre 2-Yr
		Bu/Acre 2007	Bu/Acre 2-Yr	Bu/Acre 2007	Bu/Acre 2-Yr		
STINE/ 1918-4	119	62	61	59	60	61	61
KRUGER/ K-195+RR/SCN	117	63	60	60	60	62	60
WENSMAN/ W 2195NRR	120	64	60	59	57	62	59
NUTECH/ NT-7205+RR	120	58	59	63	58	61	59
KRUGER/ K-194RR	119	62	60	57	58	60	59
PRAIRIE/ BR. PB-1754RR	116	62	58	58	59	60	59
NUTECH/ NT-1991RR	119	61	60	54	57	58	59
PRAIRIE/ BR. PB-1956RR	121	60	59	56	59	58	59
KRUGER/ K-100RR	113	62	59	62	57	62	58
KRUGER/ K-120RR	115	61	56	60	59	61	58
PRAIRIE/ BR. PB-1954RR	119	57	57	58	58	58	58
ASGROW/ AG1702	118	64	60	56	54	60	57
LATHAM/ L1950R	119	60	58	56	56	58	57
WENSMAN/ W 2172NRR	116	63	58	59	54	61	56
ASGROW/ AG1102	113	55	54	62	58	59	56
DAIRYLAND/ DSR-1301/RR	115	61	58	57	53	59	56
KRUGER/ K-140RR	116	56	55	59	56	58	56
DAIRYLAND/ DSR1500RRSTS	114	60	57	56	55	58	56
SD/ 1161RR/SCN	118	58	54	57	57	58	56
MUSTANG/ M-115RR	115	58	56	55	55	57	56
DAIRYLAND/ DSR1701RRSTS	119	59	56	53	56	56	56
HEFTY/ 137R	115	49	52	60	60	55	56
ASGROW/ AG2002	120	62	60	55	49	59	55
PUBLIC/ SDX01R-00403109	113	55	54	54	55	55	55
PUBLIC/ SDX00R-017-52	118	56	55	51	54	54	55
PUBLIC/ SD02R-8	119	54	55	51	52	53	54
PUBLIC/ SD01-1120R	118	55	55	55	51	55	53
PUBLIC/ SDX00R-053-46	117	51	51	53	53	52	52
SD/ 1111RR	114	53	51	54	50	54	51
PUBLIC/ SD00-1018R	113	47	48	54	48	51	48
HEFTY/ EXP168R	117	68	.	63	.	66	.
PRAIRIE/ BR. PB-1597RR	116	67	.	64	.	66	.
MUSTANG/ M-168RR	113	65	.	62	.	64	.
NUTECH/ NT-6156	116	65	.	63	.	64	.
NUTECH/ NT-6133	117	63	.	63	.	63	.
NUTECH/ NT-6166	121	64	.	62	.	63	.
HEFTY/ EXP198R	121	66	.	60	.	63	.
PRAIRIE/ BR. PB-1337RR	116	62	.	63	.	63	.
WENSMAN/ W 2147NRR	116	67	.	59	.	63	.
WENSMAN/ W 2166RR	115	66	.	59	.	63	.
THUNDER/ 2811RR	112	61	.	62	.	62	.
KRUGER/ K-170RR/SCN	119	64	.	59	.	62	.
WENSMAN/ W 2124RR	116	62	.	61	.	62	.
STINE/ 1916-4	121	64	.	58	.	61	.
PRAIRIE/ BR. PB-1557NRR	114	64	.	57	.	61	.

**Table 4a. Roundup Ready™ maturity group-I soybean variety yield averages- central locations
(continued)**

Brand/Variety (By 2-yr then 2007 zone yield)	Average DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2007	Bu/Acre 2-Yr
		Bu/Acre 2007	Bu/Acre 2-Yr	Bu/Acre 2007	Bu/Acre 2-Yr		
ASGROW/ AG1403	118	59	.	61	.	60	.
NUTECH/ NT-6175	117	64	.	56	.	60	.
NUTECH/ NT-7193RR/SCN	118	63	.	57	.	60	.
DAIRYLAND/ DSR-1601/RR	119	60	.	59	.	60	.
DAIRYLAND/ DSR1850RRSTS	121	60	.	59	.	60	.
PRAIRIE/ BR. PB-1607RR	119	61	.	59	.	60	.
THUNDER/ 2511RR	115	60	.	58	.	59	.
LATHAM/ EXP-E1700R	117	59	.	59	.	59	.
PRAIRIE/ BR. PB-1737NRR	117	60	.	57	.	59	.
PRAIRIE/ BR. PB-EX207RR	120	63	.	55	.	59	.
NUTECH/ NT-1766RR	115	58	.	57	.	58	.
KRUGER/ EXP19A07	118	58	.	58	.	58	.
GOLD/ COUNTRY 3817RR	116	58	.	58	.	58	.
NORTHSTAR/ NS 1312RR	114	58	.	55	.	57	.
KRUGER/ K-142RR	117	54	.	58	.	56	.
PUBLIC/ SD(LD)05-16121	119	56	.	51	.	54	.
PUBLIC/ SD02R-51	114	58	.	50	.	54	.
PUBLIC/ SD02R-48	114	57	.	48	.	53	.
PUBLIC/ SDX04R-68-1-9	115	38	.	40	.	39	.
COYOTE/ 4719RR	.	63	58	.	.	.	.
FARM/ ADVANTAGE 7194N	.	65	.	.	.	.	.
GOLD/ COUNTRY 2815RR	.	65	.	.	.	.	.
KALTENBERG/ KB196RR	.	62	.	.	.	.	.
STINE/ 1008-4	112	.	.	63	.	.	.
STINE/ 1432-4	115	.	.	59	.	.	.
STINE/ 1468-4	114	.	.	63	.	.	.
ZILLER/ BT 7156NR	.	62	58	.	.	.	.
NORTHSTAR/ NS 1311RR	120	61	.	.	.	.	.
NORTHSTAR/ NS 1123RR	111	.	.	62	.	.	.
RENK/ RS124NRR	120	57	.	.	.	.	.
RENK/ RS147RR	119	58	.	.	.	.	.
RENK/ RS187NRR	.	62	.	.	.	.	.
Test avg.:	117	60	57	58	56	59	56
High avg.:	121	68	61	64	60	66	61
Low avg.:	111	38	48	40	48	39	48
# Lsd (.05):		5	5	4	**	3	4
## TPG-avg.:		63	56	60		63	57
### Coef.Var.:		5	6	5	10	5	9
No. Entries:	70	73	32	68	30	64	30

* DTM= days to maturity at Bancroft when seeded June 6, 2007; Brookings is missing due to an early frost
LSD,(.05)= amount values in a column must differ to be significantly different or if they were non-significant (NS)
TPG-avg. = minimum value to qualify for top performance group
@ Coef. Var.= a measure of trial experimental error, 15% or less is best
** Variety averages did not differ significantly for the 2-yr period at Bancroft. There was, however, a significant difference in averages between the years 2006 and 2007. Therefore, evaluate varieties by looking at the 2-yr column under the Northern zone averages.

Table 4b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2007

Brand/Variety (By 2007 zone protein)	Average DTM*	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)**	Protein (%)	Oil (%)	Lodging (1-5)**			
DAIRYLAND/ DSR1701RRSTS	.	38.3	19.8	1	36.4	18.7	2	37.4	19.3	1
DAIRYLAND/ DSR1500RRSTS	.	38.2	20.1	1	36.1	18.8	2	37.1	19.5	1
KRUGER/ K-170RR/SCN	.	38.1	19.9	2	36.0	18.8	2	37.0	19.4	2
DAIRYLAND/ DSR1850RRSTS	.	37.6	20.3	1	36.4	18.9	1	37.0	19.6	1
PRAIRIE/ BR. PB-1737NRR	.	38.4	19.9	2	35.5	18.9	1	37.0	19.4	2
PUBLIC/ SDX01R-00403109	.	38.8	20.1	2	34.9	20.2	1	36.8	20.2	2
PRAIRIE/ BR. PB-1337RR	.	37.7	20.3	1	35.9	18.5	1	36.8	19.4	1
WENSMAN/ W 2124RR	.	38.1	19.9	1	35.4	18.8	1	36.8	19.4	1
SD/ 1161RR/SCN	.	38.2	19.8	1	35.2	18.6	1	36.7	19.2	1
NUTECH/ NT-6133	.	38.0	20.0	1	35.4	18.5	1	36.7	19.3	1
DAIRYLAND/ DSR-1301/RR	.	37.6	20.3	1	35.7	19.0	1	36.7	19.7	1
PRAIRIE/ BR. PB-1754RR	.	37.5	19.8	2	35.8	18.7	1	36.7	19.2	1
HEFTY/ EXP198R	.	37.6	20.1	1	35.3	19.1	1	36.5	19.6	1
THUNDER/ 2511RR	.	37.9	20.2	1	34.8	19.8	1	36.4	20.0	1
KRUGER/ EXP19A07	.	37.1	20.3	1	35.4	19.4	1	36.3	19.8	1
NORTHSTAR/ NS 1312RR	.	37.4	20.2	2	35.0	19.2	1	36.2	19.7	2
PUBLIC/ SDX04R-68-1-9	.	38.3	19.4	3	33.8	19.3	3	36.1	19.4	3
STINE/ 1916-4	.	37.2	20.2	1	34.9	18.7	1	36.1	19.5	1
ASGROW/ AG1702	.	36.9	20.5	1	35.2	19.3	1	36.0	19.9	1
NUTECH/ NT-1766RR	.	37.1	19.6	1	34.9	18.7	1	36.0	19.2	1
KRUGER/ K-100RR	.	37.4	20.4	1	34.5	19.9	1	36.0	20.2	1
PUBLIC/ SDX00R-053-46	.	37.8	20.0	2	34.0	19.4	3	35.9	19.7	3
DAIRYLAND/ DSR-1601/RR	.	37.6	20.1	1	34.2	19.5	1	35.9	19.8	1
KRUGER/ K-120RR	.	37.3	19.6	1	34.5	19.1	1	35.9	19.4	1
NUTECH/ NT-6175	.	36.7	20.6	1	35.1	19.4	1	35.9	20.0	1
THUNDER/ 2811RR	.	37.0	20.0	1	34.5	19.2	1	35.8	19.6	1
PRAIRIE/ BR. PB-1954RR	.	37.0	20.1	2	34.5	19.0	2	35.8	19.6	2
ASGROW/ AG1403	.	36.9	20.3	1	34.5	18.6	1	35.7	19.5	1
KRUGER/ K-140RR	.	37.1	20.7	1	34.1	19.9	1	35.6	20.3	1
HEFTY/ 137R	.	37.5	20.3	1	33.7	19.7	1	35.6	20.0	1
NUTECH/ NT-6166	.	36.3	20.3	1	34.8	19.0	1	35.5	19.7	1
STINE/ 1918-4	.	36.3	20.5	1	34.7	19.7	1	35.5	20.1	1
PUBLIC/ SD01-1120R	.	37.0	20.7	2	34.0	19.9	4	35.5	20.3	3
NUTECH/ NT-7205+RR	.	36.0	20.5	1	34.8	19.4	1	35.4	20.0	1
LATHAM/ L1950R	.	36.7	20.1	1	34.1	19.0	1	35.4	19.6	1
PRAIRIE/ BR. PB-1607RR	.	36.5	20.4	1	34.3	18.9	1	35.4	19.7	1
NUTECH/ NT-1991RR	.	37.0	20.4	1	33.7	18.6	1	35.4	19.5	1
KRUGER/ K-195+RR/SCN	.	36.3	21.1	1	34.3	20.3	1	35.3	20.7	1
PUBLIC/ SD02R-51	.	37.5	20.2	1	33.1	19.6	1	35.3	19.9	1
PUBLIC/ SDX00R-017-52	.	36.2	21.5	1	34.3	20.1	1	35.3	20.8	1
KRUGER/ K-142RR	.	36.5	21.1	1	34.0	20.0	1	35.3	20.6	1
PUBLIC/ SD00-1018R	.	37.0	21.2	2	33.5	20.3	2	35.3	20.8	2
ASGROW/ AG2002	.	35.7	20.4	1	34.7	19.3	1	35.2	19.8	1
PUBLIC/ SD02R-8	.	37.7	20.3	1	32.6	20.0	1	35.2	20.2	1
WENSMAN/ W 2195NRR	.	36.1	21.0	1	34.1	20.3	1	35.1	20.7	1

Table 4b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2007 (continued)

Brand/Variety (By 2007 zone protein)	Average DTM*	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)**	Protein (%)	Oil (%)	Lodging (1-5)**			
SD/ 1111RR	.	37.7	20.6	3	32.4	20.4	3	35.1	20.5	3
PUBLIC/ SD02R-48	.	37.1	20.3	1	32.9	19.4	1	35.0	19.9	1
ASGROW/ AG1102	.	36.9	20.0	3	32.8	19.4	1	34.9	19.7	2
KRUGER/ K-194RR	.	36.1	20.4	1	33.6	19.3	1	34.8	19.8	1
NUTECH/ NT-7193RR/SCN	.	35.7	21.1	1	33.8	20.1	1	34.8	20.6	1
PRAIRIE/ BR. PB-EX207RR	.	35.5	21.0	1	33.5	20.0	1	34.5	20.5	1
MUSTANG/ M-168RR	.	35.1	21.5	1	33.8	19.7	1	34.5	20.6	1
WENSMAN/ W 2147NRR	.	35.7	21.2	1	33.2	20.3	1	34.5	20.8	1
NUTECH/ NT-6156	.	34.9	21.5	1	33.9	19.9	1	34.4	20.7	1
WENSMAN/ W 2172NRR	.	35.6	21.4	1	33.1	20.1	1	34.4	20.7	1
PRAIRIE/ BR. PB-1557NRR	.	35.4	21.2	1	33.3	20.3	1	34.3	20.8	1
HEFTY/ EXP168R	.	34.9	21.5	1	33.4	19.9	1	34.2	20.7	1
WENSMAN/ W 2166RR	.	34.9	21.5	1	33.3	19.6	1	34.1	20.6	1
PUBLIC/ SD(LD)05-16121	.	35.8	20.5	1	32.5	19.7	1	34.1	20.1	1
PRAIRIE/ BR. PB-1956RR	.	35.7	20.6	1	32.5	20.0	3	34.1	20.3	2
PRAIRIE/ BR. PB-1597RR	.	35.2	21.4	1	33.0	19.6	1	34.1	20.5	1
MUSTANG/ M-115RR	.	35.8	20.5	3	31.9	19.8	2	33.8	20.2	2
GOLD/ COUNTRY 3817RR	.	35.9	20.5	3	31.6	20.1	3	33.8	20.3	3
LATHAM/ EXP-E1700R	.	35.4	21.0	3	31.6	20.4	3	33.5	20.7	3
COYOTE/ 4719RR	.	36.0	20.5	1	.	.	.	.	.	.
FARM/ ADVANTAGE 7194N	.	35.5	21.1	1	.	.	.	.	.	.
GOLD/ COUNTRY 2815RR	.	35.2	21.3	1	.	.	.	.	.	.
KALTENBERG/ KB196RR	.	37.0	20.7	1	.	.	.	.	.	.
STINE/ 1008-4	35.1	19.4	1	.	.	.
STINE/ 1432-4	34.0	20.3	1	.	.	.
STINE/ 1468-4	33.7	20.2	1	.	.	.
ZILLER/ BT 7156NR	.	37.7	20.4	2	.	.	.	.	.	.
NORTHSTAR/ NS 1311RR	.	37.9	20.4	1	.	.	.	.	.	.
NORTHSTAR/ NS 1123RR	35.7	18.8	1	.	.	.
RENK/ RS124NRR	.	36.2	20.4	3	.	.	.	.	.	.
RENK/ RS147RR	.	38.9	19.5	1	.	.	.	.	.	.
RENK/ RS187NRR	.	35.5	21.4	1	.	.	.	.	.	.
Test avg. :	.	36.8	20.5	1	34.2	19.5	1	35.5	20.0	1
High avg. :	.	38.9	21.5	3	36.4	20.4	4	37.4	20.8	3
Low avg. :	.	34.9	19.4	1	31.6	18.5	1	33.5	19.2	1
# LSD(.05) :	.	1.0	0.5	1	0.9	0.4	1	***	***	1
## TPG-avg. :	.	38.0	21.1	1	35.6	20.1	1	.	.	1
@ Coef. Var. :	.	2	1	34	2	2	27	1	.	32
No. Entries :	.	73	73	73	68	68	68	64	64	64

* DTM= average days from seeding (Brookings - May 21, Bancroft- June 6, 2007) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity

** Lodging, 1= all plants erect, 5= all plant flat

*** The effect of variety differed significantly between locations for 2007. Therefore, evaluate varieties by looking at the 2007 columns at each location, not by looking at the Central zone 2007 column.

LSD(.05)= amount values in a column must differ to be significantly different or if they were non-significant (NS)

TPG-avg. = minimum value to qualify for top performance group

@ Coef. Var.= a measure of trial experimental error, 15% or less is best

Table 5a. Roundup Ready™ maturity group-II soybean variety yield averages- central South Dakota locations, 2006-2007

Brand/Variety (By 2-yr then 2007 zone yield)	Average DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2007	Bu/Acre 2-Yr
		Bu/Acre 2007	Bu/Acre 2-Yr	Bu/Acre 2007	Bu/Acre 2-Yr		
ASGROW/ DKB22-52	121	62	60	61	57	62	59
MUSTANG/ M-207RR	119	58	60	59	58	59	59
PRAIRIE/ BR. PB-2243RR	118	57	58	61	60	59	59
PRAIRIE/ BR. PB-2456RR	120	59	57	59	60	59	59
KRUGER/ K-234RR	119	60	59	58	55	59	57
WENSMAN/ W 2200NRR	118	61	60	57	54	59	57
KRUGER/ K-259RR	124	58	56	56	57	57	57
PUBLIC/ SDX00R-020-18	114	55	57	59	56	57	57
PRAIRIE/ BR. PB-2421RR	120	57	57	55	56	56	57
NUTECH/ NT-2220RR	120	57	57	60	55	59	56
PRAIRIE/ BR. PB-2216RR	120	58	56	57	53	58	55
PUBLIC/ SDX01R-007039	120	56	56	57	54	57	55
PUBLIC/ SD02R-5	115	58	57	51	53	55	55
KRUGER/ K-201RR/SCN	117	63	.	60	.	62	.
PRAIRIE/ BR. PB-2207NRR	119	64	.	59	.	62	.
NUTECH/ NT-6211	119	62	.	60	.	61	.
HEFTY/ EXP218RN	118	62	.	60	.	61	.
WENSMAN/ W 2222NRR	119	63	.	59	.	61	.
NUTECH/ NT-7234RR	121	57	.	62	.	60	.
PRAIRIE/ BR. PB-2117NRR	120	64	.	56	.	60	.
PRAIRIE/ BR. PB-2147RR	119	61	.	58	.	60	.
PRAIRIE/ BR. PB-2337NRR	120	64	.	56	.	60	.
NUTECH/ NT-7227	120	63	.	55	.	59	.
NUTECH/ NT-6242	122	58	.	59	.	59	.
KRUGER/ K-239RR	122	59	.	58	.	59	.
PRAIRIE/ BR. PB-2515RR	122	59	.	59	.	59	.
PRAIRIE/ BR. PB-2396RR	121	57	.	58	.	58	.
COYOTE/ 9524RR	121	57	56	56	.	57	.
PUBLIC/ SD(LD)05-16118	120	59	.	55	.	57	.
KRUGER/ K-256RR	119	56	.	55	.	56	.
KRUGER/ K-248RR/SCN	121	59	.	51	.	55	.
PUBLIC/ SDX00R-035-56	120	55	.	54	.	55	.
PUBLIC/ SD(LD)05-16137	115	57	.	50	.	54	.
PUBLIC/ SD03-2006R	115	60	.	45	.	53	.
PUBLIC/ SD03-2222R	121	51	.	45	.	48	.
ASGROW/ AG2108	.	62	.	.	.	.	.
ASGROW/ AG2406	119	.	.	59	.	.	.
COYOTE/ 4523RR	118	.	.	57	.	.	.
COYOTE/ 4527RR	124	.	.	54	.	.	.
COYOTE/ EXP722NRR	.	60	.	.	.	.	.

**Table 5a. Roundup Ready™ maturity group-II soybean variety yield averages- central locations
(continued)**

Brand/Variety (By 2-yr then 2007 zone yield)	Average DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Bu/Acre 2007	Bu/Acre 2-Yr
		Bu/Acre 2007	Bu/Acre 2-Yr	Bu/Acre 2007	Bu/Acre 2-Yr		
COYOTE/ EXP725NRR	.	62	.	.	.	.	.
COYOTE/ EXP728NRR	.	58	.	.	.	.	.
FARM/ ADVANTAGE 7223N	120	.	.	57	.	.	.
KALTENBERG/ KB203RR	.	52	.	.	.	.	.
ZILLER/ BT 7208NR	.	63	.	.	.	.	.
RENK/ RS204NRR	.	64	.	.	.	.	.
Test avg. :	119	59	58	57	56	58	57
High value :	124	64	60	62	60	62	59
Low avg. :	114	51	56	45	53	48	55
# Lsd (.05) :		5	NS	4	NS	3	NS
## TPG-avg. :		59	56	58	53	59	55
@ Coef. Var. :		5	5	5	9	5	8
No. Entries :	34	42	14	39	13	35	13

* DTM= days to maturity at Bancroft when seeded June 6, 2007; Brookings is missing due to an early frost
LSD,(.05)= amount values in a column must differ to be significantly different or if they were non-significant (NS)
TPG-avg. = minimum value to qualify for top performance group
@ Coef. Var.= a measure of trial experimental error, 15% or less is best

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Table 5b. Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- central South Dakota locations, 2007

Brand/Variety (By 2007 zone protein)	Average DTM*	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Protein (%)	Oil (%)	Lodging (1-5)**
		Protein (%)	Oil (%)	Lodging (1-5)**	Protein (%)	Oil (%)	Lodging (1-5)**			
PUBLIC/ SDX01R-007039	.	37.8	19.0	2	36.7	18.5	2	37.3	18.8	2
PRAIRIE/ BR. PB-2216RR	.	37.7	19.5	2	36.2	19.1	2	37.0	19.3	2
NUTECH/ NT-7227	.	37.7	19.4	1	36.1	19.5	1	36.9	19.5	1
PRAIRIE/ BR. PB-2337NRR	.	37.4	19.4	1	36.3	19.7	1	36.9	19.6	1
KRUGER/ K-239RR	.	36.9	19.8	1	35.3	19.5	1	36.1	19.7	1
NUTECH/ NT-6211	.	37.4	19.8	1	34.6	19.2	1	36.0	19.5	1
PRAIRIE/ BR. PB-2147RR	.	37.0	19.6	1	34.8	19.6	1	35.9	19.6	1
PRAIRIE/ BR. PB-2396RR	.	37.2	19.4	1	34.6	19.8	1	35.9	19.6	1
PRAIRIE/ BR. PB-2421RR	.	36.5	19.7	1	35.2	19.1	2	35.8	19.4	1
PUBLIC/ SDX00R-020-18	.	37.2	19.9	2	34.5	19.6	1	35.8	19.8	2
KRUGER/ K-234RR	.	37.2	19.0	2	34.1	19.8	2	35.6	19.4	2
NUTECH/ NT-2220RR	.	36.3	19.4	1	34.9	19.0	2	35.6	19.2	1
KRUGER/ K-256RR	.	37.2	19.0	1	33.9	19.2	1	35.5	19.1	1
KRUGER/ K-248RR/SCN	.	35.9	20.1	2	35.2	19.5	1	35.5	19.8	1
PRAIRIE/ BR. PB-2456RR	.	36.5	19.1	1	34.5	19.3	2	35.5	19.2	2
NUTECH/ NT-6242	.	35.6	19.6	1	35.1	20.1	1	35.4	19.9	1
KRUGER/ K-201RR/SCN	.	36.0	20.4	2	34.8	19.6	1	35.4	20.0	1
WENSMAN/ W 2200NRR	.	36.1	20.2	1	34.5	19.8	1	35.3	20.0	1
KRUGER/ K-259RR	.	35.8	19.7	1	34.2	19.4	1	35.0	19.6	1
PRAIRIE/ BR. PB-2117NRR	.	36.1	20.1	1	33.7	20.2	1	34.9	20.2	1
PUBLIC/ SD02R-5	.	36.9	19.6	1	32.8	19.5	1	34.9	19.6	1
PUBLIC/ SD03-2222R	.	35.9	20.1	1	33.8	19.7	1	34.9	19.9	1
ASGROW/ DKB22-52	.	36.0	20.1	1	33.6	19.7	1	34.8	19.9	1
COYOTE/ 9524RR	.	35.5	20.1	1	33.9	19.8	1	34.7	20.0	1
MUSTANG/ M-207RR	.	36.1	20.1	1	33.3	19.1	1	34.7	19.6	1
PUBLIC/ SDX00R-035-56	.	36.2	19.6	2	33.2	19.2	1	34.7	19.4	2
NUTECH/ NT-7234RR	.	35.7	20.0	1	33.7	20.0	1	34.7	20.0	1
PRAIRIE/ BR. PB-2243RR	.	36.1	20.1	1	33.2	20.3	1	34.7	20.2	1
PRAIRIE/ BR. PB-2515RR	.	34.2	20.2	1	34.7	19.6	1	34.5	19.9	1
WENSMAN/ W 2222NRR	.	35.4	20.3	1	33.2	20.3	1	34.3	20.3	1
HEFTY/ EXP218RN	.	34.9	20.8	1	33.5	20.1	1	34.2	20.5	1
PRAIRIE/ BR. PB-2207NRR	.	34.8	20.3	1	33.1	20.2	1	34.0	20.3	1
PUBLIC/ SD(LD)05-16118	.	35.3	19.7	1	32.3	19.7	1	33.8	19.7	1
PUBLIC/ SD(LD)05-16137	.	35.5	19.8	2	31.6	20.1	1	33.5	20.0	1
PUBLIC/ SD03-2006R	.	35.8	20.8	2	31.0	20.5	1	33.4	20.7	1
ASGROW/ AG2108	.	35.3	20.0	1	.	.	.	.	.	.
ASGROW/ AG2406	34.9	19.9	1	.	.	.
COYOTE/ 4523RR	35.8	18.3	1	.	.	.
COYOTE/ 4527RR	34.6	19.9	1	.	.	.
COYOTE/ EXP722NRR	.	38.1	19.6	1	.	.	.	.	.	.
COYOTE/ EXP725NRR	.	36.4	18.9	1	.	.	.	.	.	.
COYOTE/ EXP728NRR	.	36.9	19.1	1	.	.	.	.	.	.
FARM/ ADVANTAGE 7223N	35.5	18.8	1	.	.	.
KALTENBERG/ KB203RR	.	35.9	19.7	1	.	.	.	.	.	.
ZILLER/ BT 7208NR	.	35.4	20.8	1	.	.	.	.	.	.
RENK/ RS204NRR	.	35.8	20.8	1	.	.	.	.	.	.
Test avg.:	.	36.3	19.8	1	34.3	19.6	1	35.2	19.7	1
High avg.:	.	38.1	20.8	2	36.7	20.5	2	37.3	20.7	2
Low avg.:	.	34.2	18.9	1	31.0	18.3	1	33.4	18.8	1
# LSD(.05):	.	0.8	0.5	1	1.0	0.5	1	***	***	1
## TPG-avg.:	.	37.4	20.4	1	35.8	20.1	1	.	.	1
### Coef.Var.:	.	1	1	36	2	2	25	2	2	32
No. Entries:	.	42	42	42	39	39	39	70	70	70

* DTM= average days from seeding (Brookings- May 21, Bancroft- June 6, 2007) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity

** Lodging, 1= all plants erect, 5= all plant flat

*** The effect of variety differed significantly between locations for 2007. Therefore, evaluate varieties by looking at the 2007 columns at each location, not by looking at the Central zone 2007 column.

LSD(.05)= amount values in a column must differ to be significantly different or if they were non-significant (NS)

TPG-avg. = minimum value to qualify for top performance group

@ Coef. Var.= a measure of trial experimental error, 15% or less is best

Table 6a. Roundup Ready™ maturity group-I soybean variety yield averages- southern South Dakota locations, 2006-2007

Brand/Variety (By 2-yr then 2007 zone yield)	Average DTM*	Southern Averages by Location				Southern Zone Averages	
		Beresford		Geddes		Bu/Acre 2007	Bu/Acre 2-Yr
		Bu/Acre 2007	Bu/Acre 2-Yr	Bu/Acre 2007	Bu/Acre 2-Yr		
PRAIRIE/ BR. PB-1956RR	115	56	61	60	56	58	59
ASGROW/ AG1702	109	57	59	56	53	57	56
NUTECH/ NT-1991RR	114	55	58	58	53	57	56
KRUGER/ K-194RR	113	54	57	57	53	56	55
PRAIRIE/ BR. PB-1954RR	112	59	59	53	50	56	55
WENSMAN/ W 2172NRR	110	55	59	56	51	56	55
KRUGER/ K-195+RR/SCN	112	54	59	55	51	55	55
WENSMAN/ W 2195NRR	110	54	57	53	51	54	54
KRUGER/ K-140RR	108	53	54	59	50	56	52
SD/ 1161RR/SCN	110	52	56	53	48	53	52
SD/ 1111RR	109	47	47	48	43	48	45
NUTECH/ NT-7205+RR	116	59	.	58	.	59	.
KRUGER/ EXP19A07	110	56	.	59	.	58	.
WENSMAN/ W 2166RR	110	56	.	60	.	58	.
PRAIRIE/ BR. PB-EX228RR	116	56	.	58	.	57	.
NUTECH/ NT-7193RR/SCN	111	54	.	58	.	56	.
PRAIRIE/ BR. PB-1914RR	114	54	.	56	.	55	.
PRAIRIE/ BR. PB-EX147RR	113	56	.	54	.	55	.
KRUGER/ K-142RR	109	51	.	57	.	54	.
KRUGER/ K-170RR/SCN	110	56	.	51	.	54	.
PRAIRIE/ BR. PB-1754RR	110	57	.	51	.	54	.
KRUGER/ K-120RR	105	52	.	53	.	53	.
PRAIRIE/ BR. PB-1737NRR	110	54	.	52	.	53	.
PRAIRIE/ BR. PB-EX117NRR	113	55	.	51	.	53	.
PRAIRIE/ BR. PB-EX207RR	113	55	.	51	.	53	.
NUTECH/ NT-1808RR/SCN	112	55	.	49	.	52	.
KALTENBERG/ KB196RR	109	57	.	.	.	.	.
ZILLER/ BT 7186NR	108	58	.	.	.	.	.
Test avg. :	111	55	57	55	51	55	54
High avg. :	116	59	61	60	56	59	59
Low avg. :	105	47	47	48	43	48	45
# Lsd (.05) :		4	7	6	6	4	5
## TPG-avg. :		55	54	54	50	55	54
@ Coef. Var. :		4	5	6	7	5	10
No. Entries :	28	28	11	26	11	26	11

* DTM= days to maturity at Beresford and Geddes when seeded June 9 and May 26, 2007, respectfully

LSD,(.05)= amount values in a column must differ to be significantly different or if they were non-significant (NS)

TPG-avg. = minimum value to qualify for top performance group

@ Coef. Var.= a measure of trial experimental error, 15% or less is best

Table 6b. Roundup Ready™ maturity group-I soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2007

Brand/Variety (By 2007 zone protein)	Average DTM*	Southern Averages by Location						Southern Zone Averages		
		Beresford			Geddes			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
KRUGER/ K-170RR/SCN	.	36.7	20.3	1	34.4	20.2	1	35.6	20.3	1
PRAIRIE/ BR. PB-1754RR	.	37.2	20.2	1	33.3	20.1	1	35.3	20.2	1
PRAIRIE/ BR. PB-1737NRR	.	36.6	20.7	1	33.7	20.2	1	35.2	20.5	1
SD/ 1161RR/SCN	.	36.2	20.6	1	33.3	20.3	1	34.8	20.4	1
KRUGER/ EXP19A07	.	35.6	21.1	1	33.6	20.9	1	34.6	21.0	1
PRAIRIE/ BR. PB-EX147RR	.	35.6	20.8	1	33.2	20.5	1	34.4	20.7	1
ASGROW/ AG1702	.	35.3	21.1	1	33.5	20.4	1	34.4	20.7	1
PRAIRIE/ BR. PB-1914RR	.	35.8	20.8	1	33.0	20.6	1	34.4	20.7	1
NUTECH/ NT-7205+RR	.	36.0	20.9	1	32.7	20.7	1	34.4	20.8	1
NUTECH/ NT-1808RR/SCN	.	35.2	21.2	1	33.2	20.5	1	34.2	20.9	1
NUTECH/ NT-1991RR	.	35.3	20.7	1	32.6	20.2	1	34.0	20.5	1
SD/ 1111RR	.	35.8	22.0	2	32.1	21.6	1	34.0	21.8	2
PRAIRIE/ BR. PB-EX117NRR	.	35.8	21.1	1	32.0	21.2	1	33.9	21.1	1
WENSMAN/ W 2195NRR	.	35.4	21.4	1	32.3	21.4	1	33.9	21.4	1
KRUGER/ K-140RR	.	35.3	21.5	1	32.4	21.0	1	33.8	21.3	1
NUTECH/ NT-7193RR/SCN	.	35.2	21.4	1	32.5	21.3	1	33.8	21.4	1
KRUGER/ K-142RR	.	34.8	21.9	1	32.5	21.0	1	33.7	21.5	1
KRUGER/ K-195+RR/SCN	.	34.9	21.7	1	32.4	21.4	1	33.7	21.6	1
WENSMAN/ W 2172NRR	.	35.1	21.8	1	32.1	21.5	1	33.6	21.7	1
PRAIRIE/ BR. PB-1954RR	.	35.1	20.9	1	32.0	20.7	1	33.6	20.8	1
KRUGER/ K-194RR	.	34.9	20.9	1	32.0	20.2	1	33.5	20.6	1
KRUGER/ K-120RR	.	34.8	20.7	1	32.1	20.0	1	33.4	20.3	1
PRAIRIE/ BR. PB-EX228RR	.	35.1	20.5	1	31.5	20.4	1	33.3	20.4	1
PRAIRIE/ BR. PB-1956RR	.	34.4	21.2	1	31.8	20.8	1	33.1	21.0	1
PRAIRIE/ BR. PB-EX207RR	.	34.2	21.2	1	30.7	21.3	1	32.5	21.3	1
WENSMAN/ W 2166RR	.	33.5	22.1	1	31.3	21.5	1	32.4	21.8	1
KALTENBERG/ KB196RR	.	35.8	21.3	1	.	.	.	.	.	.
ZILLER/ BT 7186NR	.	36.3	20.6	1	.	.	.	.	.	.
Test avg. :	.	35.4	21.1	1	32.5	20.8	1	34.0	20.9	1
High avg. :	.	37.2	22.1	2	34.4	21.6	1	35.6	21.8	2
Low avg. :	.	33.5	20.2	1	30.7	20.0	1	32.4	20.2	1
# LSD(.05) :	.	0.8	0.4	1	1.2	0.4	NS	***	***	1
## TPG-avg. :	.	36.5	21.8	1	33.3	21.3	1			1
@ Coef. Var. :	.	1	1	0	2	1	0	2	1	0
No. Entries :	0	28	28	28	26	26	26	26	26	26

* DTM= average days from seeding (Beresford- June 9, Geddes- May 26, 2007) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity

** Lodging, 1= all plants erect, 5= all plant flat

*** The effect of variety differed significantly between locations for 2007. Therefore, evaluate varieties by looking at the 2007 columns at each location, not by looking at the Southern zone 2007 column.

LSD(.05)= amount values in a column must differ to be significantly different or if they were non-significant (NS)

TPG-avg. = minimum value to qualify for top performance group

@ Coef. Var.= a measure of trial experimental error, 15% or less is best

Table 7a. Roundup Ready™ maturity group-II soybean variety yield averages- southern South Dakota locations, 2006-2007

Brand/Variety (By 2-yr then 2007 zone yield)	Average DTM*	Southern Averages by Location				Southern Zone Averages	
		Beresford		Geddes		Bu/Acre 2007	Bu/Acre 2-Yr
		Bu/Acre 2007	Bu/Acre 2-Yr	Bu/Acre 2007	Bu/Acre 2-Yr		
ASGROW/ DKB25-51	115	56	66	62	55	59	61
PRAIRIE/ BR. PB-2243RR	115	59	61	64	54	62	58
LATHAM/ L2810R	118	57	62	59	54	58	58
NUTECH/ NT-2220RR	115	53	61	58	54	56	58
PRAIRIE/ BR. PB-2421RR	115	55	62	59	52	57	57
DAIRYLAND/ DSR-2200/RR	113	52	60	58	53	55	57
MUSTANG/ M-264RR	119	56	61	57	51	57	56
KRUGER/ K-234RR	114	57	61	57	51	57	56
KRUGER/ K-259RR	118	54	60	56	52	55	56
MUSTANG/ M-237RR	114	57	59	57	51	57	55
DAIRYLAND/ DSR-2600/RR	115	57	60	56	49	57	55
DAIRYLAND/ DSR-2300/RR	113	52	60	51	50	52	55
PRAIRIE/ BR. PB-2636NRR	117	52	55	59	52	56	54
WENSMAN/ W 2200NRR	111	55	60	52	48	54	54
WENSMAN/ W 2253RR	118	51	57	52	50	52	54
LATHAM/ L2500R	113	54	61	48	47	51	54
MUSTANG/ M-246NRR	113	53	56	56	49	55	53
PUBLIC/ SD02R-5	112	53	57	57	49	55	53
PRAIRIE/ BR. PB-2565RR	117	53	56	53	50	53	53
NUTECH/ NT-6211	113	58	.	65	.	62	.
LATHAM/ EXP-E2250R	115	58	.	62	.	60	.
ASGROW/ DKB27-52	117	56	.	62	.	59	.
NUTECH/ NT-7206	115	56	.	61	.	59	.
NUTECH/ NT-6255	116	57	.	60	.	59	.
MUSTANG/ M-238NRR	113	56	.	60	.	58	.
LATHAM/ L2337R	113	56	.	59	.	58	.
PRAIRIE/ BR. PB-2515RR	116	52	.	64	.	58	.
WENSMAN/ W 2222NRR	114	55	.	61	.	58	.
ASGROW/ AG2603	116	55	.	59	.	57	.
NUTECH/ NT-6219	115	55	.	58	.	57	.
NUTECH/ NT-7222	113	57	.	56	.	57	.
KRUGER/ K-239RR	115	54	.	60	.	57	.
LATHAM/ L2158R	114	57	.	57	.	57	.
GOLD/ COUNTRY 9822RR	114	53	.	60	.	57	.
PRAIRIE/ BR. PB-2447RR	115	55	.	59	.	57	.
PRAIRIE/ BR. PB-2667NRR	116	55	.	58	.	57	.
PUBLIC/ SDX00R-035-56	116	54	.	57	.	56	.
KRUGER/ K-256RR	115	56	.	53	.	55	.
LATHAM/ EXP-E2458RV	115	54	.	56	.	55	.
LATHAM/ L2780RV	117	53	.	56	.	55	.
DAIRYLAND/ DSR-2770/RR	118	53	.	56	.	55	.
PRAIRIE/ BR. PB-2707RR	118	54	.	55	.	55	.
PRAIRIE/ BR. PB-EX271RR	116	52	.	57	.	55	.
PUBLIC/ SD(LD)05-16137	111	54	.	56	.	55	.
PUBLIC/ SD03-2006R	112	52	.	58	.	55	.
ASGROW/ AG2406	113	55	.	53	.	54	.
NUTECH/ NT-6242	117	52	.	55	.	54	.
NUTECH/ NT-6281	118	52	.	56	.	54	.
KRUGER/ K-275RR/SCN	116	52	.	56	.	54	.
LATHAM/ L2085R	112	52	.	56	.	54	.

Table 7a. Roundup Ready™ maturity group-II soybean variety yield averages- southern South Dakota locations (continued)

Brand/Variety (By 2-yr then 2007 zone yield)	Average DTM*	Southern Averages by Location				Southern Zone Averages	
		Beresford		Geddes		Bu/Acre 2007	Bu/Acre 2-Yr
		Bu/Acre 2007	Bu/Acre 2-Yr	Bu/Acre 2007	Bu/Acre 2-Yr		
PUBLIC/ SDX00R-020-18	111	52	.	55	.	54	.
PUBLIC/ SD(LD)05-16118	114	53	.	54	.	54	.
ASGROW/ AG2906	118	50	.	55	.	53	.
MUSTANG/ M-228NRR	113	53	.	53	.	53	.
KRUGER/ K-201RR/SCN	111	54	.	51	.	53	.
KRUGER/ K-271RR	118	52	.	54	.	53	.
PUBLIC/ SDX01R-007039	115	51	.	54	.	53	.
MUSTANG/ M-318RR	120	49	.	54	.	52	.
NUTECH/ NT-7282	119	54	.	49	.	52	.
GOLD/ COUNTRY 3825NRR	116	52	.	52	.	52	.
PRAIRIE/ BR. PB-2697NRR	116	52	.	51	.	52	.
WENSMAN/ W 2300RR	119	49	.	54	.	52	.
ASGROW/ AG2606	116	50	.	52	.	51	.
MUSTANG/ M-277NRR	117	51	.	51	.	51	.
NUTECH/ NT-7293	117	51	.	50	.	51	.
HEFTY/ 277RN	117	52	.	49	.	51	.
KRUGER/ K-248RR/SCN	115	52	.	50	.	51	.
PUBLIC/ SD03-2222R	118	50	.	50	.	50	.
COYOTE/ 4523RR	109	50	.	.	.	.	.
COYOTE/ 4527RR	122	.	.	61	.	.	.
COYOTE/ EXP722NRR	118	.	.	56	.	.	.
COYOTE/ EXP725NRR	110	56	.	.	.	.	.
COYOTE/ EXP728NRR	117	53	.	.	.	.	.
FARM/ ADVANTAGE 7254N	111	56	.	.	.	.	.
FARM/ ADVANTAGE 7223N	116	.	.	59	.	.	.
FARM/ ADVANTAGE 7233N	119	.	.	59	.	.	.
HEFTY/ 226R	115	.	.	57	51	.	.
HEFTY/ 266R	119	.	.	53	49	.	.
HEFTY/ EXP218RN	106	55	.	.	.	.	.
HEFTY/ 257RN	109	50	.	.	.	.	.
HEFTY/ EXP298RN	117	55	.	.	.	.	.
HEFTY/ EXP248R	119	.	.	55	.	.	.
KALTENBERG/ KB247RR	112	51	.	.	.	.	.
KALTENBERG/ KB268RR	114	51	.	.	.	.	.
STINE/ 2523-4	108	53	.	.	.	.	.
STINE/ 2862-4	112	47	.	.	.	.	.
ZILLER/ BT 7217NR	112	55	.	.	.	.	.
RENK/ RS253RR	112	54	.	.	.	.	.
RENK/ RS277NRR	115	58	.	.	.	.	.
RENK/ RS247NRR	106	52	.	.	.	.	.
Test avg. :	115	54	60	56	51	55	56
High avg. :	122	59	66	65	55	62	61
Low avg. :	106	47	55	48	47	50	53
# Lsd (.06) :		4	7	7	NS	**	**
## TPG-avg. :		55	59	58	47		
@ Coef. Var. :		5	7	8	7	6	13
No. Entries :	90	83	19	75	21	68	19

* DTM= days to maturity at Beresford and Geddes when seeded June 9 and May 26, 2007, respectively

LSD,(.05)= amount values in a column must differ to be significantly different or if they were non-significant (NS)

TPG-avg. = minimum value to qualify for top performance group

@ Coef. Var.= a measure of trial experimental error, 15% or less is best

** The effect of variety differed significantly between locations for both 2007 and two years. Therefore, evaluate varieties by looking at the 2007 and 2-yr columns at each location, not by looking at the Northern zone columns.

Table 7b. Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2007

Brand/Variety (By 2007 zone protein)	Average DTM*	Southern Averages by Location						Southern Zone Averages		
		Beresford			Geddes			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
ASGROW/ AG2606	.	37.7	18.9	1	36.0	18.8	1	36.9	18.9	1
PUBLIC/ SDX01R-007039	.	37.3	19.3	2	36.0	18.9	1	36.6	19.1	2
MUSTANG/ M-238NRR	.	36.8	20.3	1	35.2	19.8	1	36.0	20.0	1
DAIRYLAND/ DSR-2770/RR	.	36.6	20.1	1	35.4	18.9	1	36.0	19.5	1
MUSTANG/ M-277NRR	.	36.5	19.1	1	35.1	18.7	1	35.8	18.9	1
NUTECH/ NT-6281	.	36.9	19.7	1	34.6	19.4	1	35.7	19.6	1
LATHAM/ L2780RV	.	37.0	19.4	1	34.5	19.4	1	35.7	19.4	1
PRAIRIE/ BR. PB-2707RR	.	36.9	19.7	2	34.4	19.2	1	35.7	19.4	2
GOLD/ COUNTRY 9822RR	.	36.4	20.4	1	34.9	19.4	1	35.6	19.9	1
MUSTANG/ M-318RR	.	36.6	19.6	1	34.5	19.0	1	35.6	19.3	1
KRUGER/ K-271RR	.	36.4	20.0	1	34.6	19.2	1	35.5	19.6	1
KRUGER/ K-239RR	.	36.0	20.7	1	34.7	19.4	1	35.4	20.1	1
WENSMAN/ W 2253RR	.	35.9	20.0	1	34.8	18.8	1	35.4	19.4	1
ASGROW/ AG2906	.	36.6	19.3	1	33.9	19.0	1	35.3	19.2	1
DAIRYLAND/ DSR-2200/RR	.	36.3	20.4	1	34.1	19.7	1	35.2	20.1	1
PRAIRIE/ BR. PB-2565RR	.	36.0	19.7	1	34.2	19.2	1	35.1	19.5	1
LATHAM/ L2500R	.	36.3	19.9	1	34.0	19.6	1	35.1	19.7	1
ASGROW/ AG2603	.	35.8	19.8	1	34.4	18.9	1	35.1	19.4	1
LATHAM/ L2158R	.	35.8	20.7	1	34.2	19.9	1	35.0	20.3	1
MUSTANG/ M-246NRR	.	35.9	20.2	1	33.8	19.6	1	34.8	19.9	1
MUSTANG/ M-228NRR	.	36.0	19.9	1	33.4	19.5	1	34.7	19.7	1
NUTECH/ NT-7293	.	35.8	18.8	1	33.4	18.4	1	34.6	18.6	1
GOLD/ COUNTRY 3825NRR	.	35.4	20.4	1	33.8	19.7	1	34.6	20.1	1
LATHAM/ EXP-E2458RV	.	35.2	20.3	1	34.0	19.5	1	34.6	19.9	1
KRUGER/ K-256RR	.	36.1	19.4	1	33.0	19.5	1	34.6	19.5	1
WENSMAN/ W 2300RR	.	36.1	19.9	1	33.0	19.4	1	34.6	19.7	1
NUTECH/ NT-7282	.	36.2	19.8	2	32.8	19.6	1	34.5	19.7	2
LATHAM/ L2085R	.	35.7	20.6	1	33.4	20.1	1	34.5	20.3	1
NUTECH/ NT-2220RR	.	35.2	20.1	1	33.8	19.1	1	34.5	19.6	1
KRUGER/ K-201RR/SCN	.	35.1	20.7	1	33.5	20.0	1	34.3	20.4	1
PUBLIC/ SDX00R-020-18	.	35.0	20.7	1	33.6	19.8	1	34.3	20.3	1
ASGROW/ AG2406	.	35.4	20.9	1	33.1	20.7	1	34.3	20.8	1
NUTECH/ NT-6242	.	35.6	20.3	1	32.9	19.9	1	34.3	20.1	1
NUTECH/ NT-6211	.	34.9	20.8	1	33.5	20.1	1	34.2	20.4	1
PRAIRIE/ BR. PB-2421RR	.	35.1	20.2	1	33.3	19.6	1	34.2	19.9	1
MUSTANG/ M-264RR	.	34.7	20.5	1	33.6	19.4	1	34.1	20.0	1
NUTECH/ NT-7206	.	35.4	20.5	1	32.8	20.4	1	34.1	20.5	1
KRUGER/ K-234RR	.	34.8	20.3	1	33.4	19.7	1	34.1	20.0	1
PRAIRIE/ BR. PB-2243RR	.	35.2	20.3	1	33.0	20.1	1	34.1	20.2	1
NUTECH/ NT-6255	.	34.8	19.8	1	33.4	19.4	1	34.1	19.6	1
HEFTY/ 277RN	.	35.2	20.0	1	32.8	19.5	1	34.0	19.8	1
PRAIRIE/ BR. PB-EX271RR	.	35.4	20.8	1	32.5	20.5	1	34.0	20.6	1
WENSMAN/ W 2200NRR	.	35.0	20.7	1	33.0	20.1	1	34.0	20.4	1
KRUGER/ K-248RR/SCN	.	35.4	20.3	1	32.4	20.3	1	33.9	20.3	1
LATHAM/ L2337R	.	35.0	20.6	1	32.7	20.0	1	33.9	20.3	1
PRAIRIE/ BR. PB-2667NRR	.	34.8	20.1	1	32.9	19.3	1	33.9	19.7	1
MUSTANG/ M-237RR	.	34.7	20.3	1	32.7	19.8	1	33.7	20.1	1
LATHAM/ L2810R	.	34.7	20.4	1	32.7	19.6	1	33.7	20.0	1
KRUGER/ K-259RR	.	35.0	20.5	1	32.3	19.8	1	33.7	20.2	1
PRAIRIE/ BR. PB-2697NRR	.	34.7	20.4	1	32.5	19.9	1	33.6	20.2	1

Table 7b. Roundup Ready™ maturity group-II soybean variety protein, oil, and lodging score averages- southern South Dakota locations, 2007 (continued)

Brand/Variety (By 2007 zone protein)	Average DTM*	Southern Averages by Location						Southern Zone Averages		
		Beresford			Geddes			Protein (%)	Oil (%)	Lodging (1-5)*
		Protein (%)	Oil (%)	Lodging (1-5)*	Protein (%)	Oil (%)	Lodging (1-5)*			
DAIRYLAND/ DSR-2300/RR	.	35.5	20.3	1	31.7	20.2	1	33.6	20.2	1
WENSMAN/ W 2222NRR	.	34.7	20.6	1	32.3	20.4	1	33.5	20.5	1
ASGROW/ DKB27-52	.	34.8	20.3	1	32.1	19.7	1	33.5	20.0	1
DAIRYLAND/ DSR-2600/RR	.	35.1	20.1	1	31.8	19.6	1	33.5	19.9	1
PRAIRIE/ BR. PB-2447RR	.	34.7	20.7	1	32.1	19.9	1	33.4	20.3	1
PUBLIC/ SD02R-5	.	34.5	21.1	1	32.2	20.7	1	33.3	20.9	1
PUBLIC/ SD03-2222R	.	34.4	20.9	1	32.3	20.2	1	33.3	20.6	1
PRAIRIE/ BR. PB-2636NRR	.	33.8	20.9	2	32.7	20.1	2	33.2	20.5	2
PUBLIC/ SD(LD)05-16118	.	33.9	20.6	1	32.5	19.7	1	33.2	20.2	1
KRUGER/ K-275RR/SCN	.	34.2	20.9	1	32.3	20.1	1	33.2	20.5	1
NUTECH/ NT-7222	.	34.2	20.9	1	32.0	20.6	1	33.1	20.8	1
PUBLIC/ SD03-2006R	.	33.6	21.3	1	32.1	21.1	1	32.9	21.2	1
PUBLIC/ SD(LD)05-16137	.	33.1	20.9	1	32.0	20.2	1	32.6	20.6	1
PUBLIC/ SDX00R-035-56	.	34.3	20.0	2	30.7	20.4	1	32.5	20.2	2
NUTECH/ NT-6219	.	33.7	20.9	1	31.1	20.7	1	32.4	20.8	1
LATHAM/ EXP-E2250R	.	33.5	21.0	1	31.1	20.4	1	32.3	20.7	1
ASGROW/ DKB25-51	.	33.4	21.0	1	31.2	20.8	1	32.3	20.9	1
PRAIRIE/ BR. PB-2515RR	.	33.5	20.9	1	30.7	20.4	1	32.1	20.7	1
COYOTE/ 4523RR	.	35.4	19.7	1	.	.	.	.	.	.
COYOTE/ 4527RR	33.6	19.6	1	.	.	.
COYOTE/ EXP722NRR	34.8	19.9	1	.	.	.
COYOTE/ EXP725NRR	.	35.9	20.0	1	.	.	.	.	.	.
COYOTE/ EXP728NRR	.	36.3	19.9	2	.	.	.	.	.	.
FARM/ ADVANTAGE 7254N	.	35.7	19.7	1	.	.	.	.	.	.
FARM/ ADVANTAGE 7223N	34.1	19.6	1	.	.	.
FARM/ ADVANTAGE 7233N	35.3	19.6	1	.	.	.
HEFTY/ 226R	33.1	19.4	1	.	.	.
HEFTY/ 266R	34.2	19.3	1	.	.	.
HEFTY/ EXP218RN	.	34.5	21.3	1	.	.	.	.	.	.
HEFTY/ 257RN	.	35.7	20.2	1	.	.	.	.	.	.
HEFTY/ EXP298RN	.	35.7	19.9	1	.	.	.	.	.	.
HEFTY/ EXP248R	32.2	19.3	1	.	.	.
KALTENBERG/ KB247RR	.	35.7	20.7	1	.	.	.	.	.	.
KALTENBERG/ KB268RR	.	36.5	20.1	1	.	.	.	.	.	.
STINE/ 2523-4	.	36.0	19.6	1	.	.	.	.	.	.
STINE/ 2862-4	.	36.1	18.9	1	.	.	.	.	.	.
ZILLER/ BT 7217NR	.	35.7	20.9	1	.	.	.	.	.	.
RENK/ RS253RR	.	37.0	19.6	1	.	.	.	.	.	.
RENK/ RS277NRR	.	34.8	20.0	1	.	.	.	.	.	.
RENK/ RS247NRR	.	35.1	20.7	1	.	.	.	.	.	.
Test avg. :	.	35.4	20.2	1	33.3	19.7	1	34.3	20.0	1
High avg. :	.	37.7	21.3	2	36.0	21.1	2	36.9	21.2	2
Low avg. :	.	33.1	18.8	1	30.7	18.4	1	32.1	18.6	1
# LSD(.05) :	.	0.8	0.5	1	1.5	0.8	1	***	***	1
## TPG-avg. :	.	37.0	20.9	1	34.6	20.4	1	2	2	1
@ Coef. Var. :	.	1	1	8	3	2	7	68	68	8
No. Entries :	0	83	83	83	75	75	75	68	68	68

* DTM= average days from seeding (Beresford- June 9, Geddes- May 26, 2007) to maturity; a missing value indicates the site received a hard frost before the variety reached maturity

** Lodging, 1= all plants erect, 5= all plant flat

*** The effect of variety differed significantly between locations for 2007. Therefore, evaluate varieties by looking at the 2007 columns at each location, not by looking at the Southern zone 2007 column.

LSD(.05)= amount values in a column must differ to be significantly different or if they were non-significant (NS)

TPG-avg. = minimum value to qualify for top performance group

@ Coef. Var.= a measure of trial experimental error, 15% or less is best

Table E. 2007 Conventional soybean entries by brand/variety, maturity group, and gene for Phtophthora root rot resistance as reported by entrants; and performance table number(s)

Brand / Variety	Mat. Grp.	Gene Resistance	Table No. (s)	Brand / Variety	Mat. Grp.	Gene Resistance	Table No. (s)
DAIRYLAND/ DSR-22/STSUL	2.2	Not reported	9,10	PUBLIC/ SD03-2154	0	Rps1k	8,9
RICHLAND/ ORGANICS EX16	1	Not reported	8	PUBLIC/ SD03-2327	0	Rps1k	8,9
PUBLIC/ SHEYENNE	0	Rps3	8,9	PUBLIC/ SD03-483	2	rps1 - None	9,10
PUBLIC/ SURGE	0.7	Rps1 (Rps1a)	8,9	PUBLIC/ SD04CV-254	1	rps1 - None	8,9,10
PUBLIC/ HAMLIN	0.9	Rps1k	8,9	PUBLIC/ SD04CV-263	2	rps1 - None	9,10
PUBLIC/ SD00-732	2	Not reported	9,10	PUBLIC/ SD04CV-277	1	rps1 - None	8,9,10
PUBLIC/ SD02-1138	0	Rps1c	8,9	PUBLIC/ SD04CV-405	0	rps1 - None	8,9
PUBLIC/ SD02-22	2	Not reported	9,10	PUBLIC/ SD04CV-460	2	rps1 - None	9,10
PUBLIC/ SD02-833	1	Rps1k	8,9,10	PUBLIC/ SD04CV-519	0	rps1 - None	8,9
PUBLIC/ SD02-906	1	Rps1k	8,9,10	PUBLIC/ SD04CV-534	0	rps1 - None	8,9
PUBLIC/ SD02-911	1	Rps1k	8,9,10	PUBLIC/ SD04CV-620	1	rps1 - None	8,9,10
PUBLIC/ SD02-96	2	Not reported	9,10	PUBLIC/ SD04CV-907	2	rps1 - None	9,10
PUBLIC/ SD03-1537	1	Rps1k	8,9,10	PUBLIC/ SD04CV-941	2	rps1 - None	9,10
PUBLIC/ SD03-1607	1	Rps1k	8,9,10				

Strain or race resistance by gene type is reported in table B

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Table 8a. Non-Roundup Ready™ maturity group-0 and -I soybean variety yield averages-South Shore, South Dakota, 2006-2007

Brand/Variety (By maturity group & 2007 yield)	Average DTM*	Averages by Maturity Group			
		MG-0		MG-I	
		Bu/Acre 2007	Bu/Acre 2-Yr	Bu/Acre 2007	Bu/Acre 2-Yr
PUBLIC/ SHEYENNE	.	52	.	.	.
PUBLIC/ SD04CV-534	.	49	.	.	.
PUBLIC/ SD02-1138	.	48	.	.	.
PUBLIC/ SD03-2154	.	48	34	.	.
PUBLIC/ SURGE	.	48	35	.	.
PUBLIC/ HAMLIN	.	47	35	.	.
PUBLIC/ SD03-2327	.	47	37	.	.
PUBLIC/ SD04CV-405	.	45	.	.	.
PUBLIC/ SD04CV-519	.	42	.	.	.
PUBLIC/ SD04CV-620	.	.	.	50	.
PUBLIC/ SD03-1537	.	.	.	50	.
PUBLIC/ SD04CV-277	.	.	.	48	.
PUBLIC/ SD02-906	.	.	.	48	34
PUBLIC/ SD03-1607	.	.	.	47	35
PUBLIC/ SD04CV-254	.	.	.	46	.
PUBLIC/ SD02-911	.	.	.	45	33
PUBLIC/ SD02-833	.	.	.	44	.
RICHLAND/ ORGANICS EX16	.	.	.	43	.
Test avg.:	.	47	35	47	34
High avg.:	.	52	37	50	35
Low avg. :	.	42	34	43	33
# LSD (.05):	.	NS	NS	3	NS
## TPG-value:	.	42	34	47	33
@ Coef. Var.:	.	6	5	3	5
No. Entries:	18	9	4	9	3

* DTM= days to maturity when seeded May 31, 2007; data is missing due to an early frost

LSD (.05)= amount values in a column must differ to be significantly different or if the were non-significant (NS)

TPG-avg. = minimum value to qualify for top performance group

@ Coef. Var.= a measure of trial experimental error, 15% or less is best

Table 8b. Non-Roundup Ready™ maturity group-0 and -I soybean variety protein, oil, and lodging score averages- South Shore, South Dakota, 2007

Brand/Variety (By maturity group & protein)	Average DTM*	2007 Averages by Maturity Group					
		MG-0			MG-I		
		Protein %	Oil %	Lodging* (1-5)	Protein %	Oil %	Lodging* (1-5)
PUBLIC/ SD04CV-405	.	36.4	18.2	2	.	.	.
PUBLIC/ HAMLIN	.	36.3	19.2	1	.	.	.
PUBLIC/ SURGE	.	36.3	19.0	1	.	.	.
PUBLIC/ SD03-2327	.	36.2	18.8	1	.	.	.
PUBLIC/ SD04CV-519	.	35.9	18.6	1	.	.	.
PUBLIC/ SD04CV-534	.	35.6	19.8	1	.	.	.
PUBLIC/ SD03-2154	.	34.9	19.4	2	.	.	.
PUBLIC/ SD02-1138	.	34.4	19.5	2	.	.	.
PUBLIC/ SHEYENNE	.	33.7	19.8	1	.	.	.
RICHLAND/ ORGANICS EX16	37.8	16.4	3
PUBLIC/ SD04CV-620	37.6	18.2	1
PUBLIC/ SD02-911	36.4	18.5	2
PUBLIC/ SD03-1537	36.1	18.0	3
PUBLIC/ SD03-1607	36.1	18.0	1
PUBLIC/ SD02-906	35.9	18.7	2
PUBLIC/ SD04CV-254	35.8	18.1	1
PUBLIC/ SD04CV-277	35.8	18.5	1
PUBLIC/ SD02-833	35.6	18.3	2
Test avg. :	.	35.5	19.1	1	36.3	18.1	2
High avg. :	.	36.4	19.8	2	37.8	18.7	3
Low avg. :	.	33.7	18.2	1	35.6	16.4	1
# LSD(.05) :	.	1.0	0.4	NS	0.9	0.7	1
## TPG-avg. :	.	35.5	19.5	2	37.0	18.1	1
@ Coef. Var. :	.	2	2	35	2	2	32
No. Entries :	.	9	9	9	9	9	9

* DTM= days to maturity when seeded May 31, 2007; a missing value indicates the site received a hard frost before the variety reached maturity

** Lodging, 1= all plants erect, 5= all plant flat

LSD(.05)= amount values in a column must differ to be significantly different or if they were non-significant (NS)

TPG-avg. = minimum value to qualify for top performance group

@ Coef. Var.= a measure of trial experimental error, 15% or less is best

Table 9a. Non-Roundup Ready™ maturity group-0, -I & -II soybean variety yield averages- Brookings, South Dakota, 2006-2007

Brand/Variety (By maturity group & 2007 yield)	Average DTM*	Averages by Maturity Group					
		MG-0		MG-I		MG-II	
		Bu/Acre 2007	Bu/Acre 2-Yr	Bu/Acre 2007	Bu/Acre 2-Yr	Bu/Acre 2007	Bu/Acre 2-Yr
PUBLIC/ SD02-1138	.	59	.	.	.	.	.
PUBLIC/ HAMLIN	.	58	46	.	.	.	.
PUBLIC/ SD03-2327	.	58	47	.	.	.	.
PUBLIC/ SD04CV-405	.	57	.	.	.	.	.
PUBLIC/ SD04CV-519	.	56	.	.	.	.	.
PUBLIC/ SD03-2154	.	56	47	.	.	.	.
PUBLIC/ SD04CV-534	.	55	.	.	.	.	.
PUBLIC/ SHEYENNE	.	55	.	.	.	.	.
PUBLIC/ SURGE	.	54	43	.	.	.	.
PUBLIC/ SD02-833	.	.	.	56	.	.	.
PUBLIC/ SD04CV-254	.	.	.	55	.	.	.
PUBLIC/ SD04CV-277	.	.	.	55	.	.	.
PUBLIC/ SD03-1537	.	.	.	54	.	.	.
PUBLIC/ SD04CV-620	.	.	.	53	.	.	.
PUBLIC/ SD02-911	.	.	.	51	50	.	.
PUBLIC/ SD03-1607	.	.	.	51	48	.	.
PUBLIC/ SD02-906	.	.	.	49	51	.	.
PUBLIC/ SD02-22	54	53
DAIRYLAND/ DSR-22/STSUL	51	50
PUBLIC/ SD00-732	51	51
PUBLIC/ SD03-483	49	.
PUBLIC/ SD04CV-460	46	.
PUBLIC/ SD04CV-263	45	.
PUBLIC/ SD02-96	43	46
PUBLIC/ SD04CV-941	43	.
PUBLIC/ SD04CV-907	42	.
Test avg. :	.	56	46	53	50	47	50
High avg. :	.	59	47	56	51	54	53
Low avg. :	.	54	43	49	48	42	46
# LSD (.05) :	.	NS	NS	3	NS	5	NS
## TPG-avg. :	.	54	43	53	48	49	46
@ Coef. Var. :	.	3	4		6	6	7
No. Entries :	26	9	4	3	3	9	4

* DTM= days to maturity when seeded May 21, 2007; data is missing due to an early frost

LSD (.05)= amount values in a column must differ to be significantly different or if differences are non-significant

TPG-avg. = minimum value to qualify for top performance group

@ Coef. Var.= a measure of trial experimental error, 15% or less is best

Table 9b. Non-Roundup Ready™ maturity group-0, -I & -II soybean variety protein, oil, and lodging score averages- Brookings, South Dakota, 2007

Brand/Variety (By maturity group & protein)	Average DTM*	2007 Averages by Maturity Group								
		MG-0			MG-I			MG-II		
		Protein (%)	Oil (%)	Lodging* (1-5)	Protein (%)	Oil (%)	Lodging* (1-5)	Protein (%)	Oil (%)	Lodging* (1-5)
PUBLIC/ SURGE	.	38.5	19.3	1	.	.	.	.	.	.
PUBLIC/ HAMLIN	.	38.0	19.2	1	.	.	.	.	.	.
PUBLIC/ SD04CV-405	.	37.7	19.0	1	.	.	.	.	.	.
PUBLIC/ SD04CV-534	.	37.4	19.8	1	.	.	.	.	.	.
PUBLIC/ SD04CV-519	.	37.2	19.0	1	.	.	.	.	.	.
PUBLIC/ SD03-2327	.	36.6	20.1	1	.	.	.	.	.	.
PUBLIC/ SD03-2154	.	36.5	19.8	1	.	.	.	.	.	.
PUBLIC/ SHEYENNE	.	36.1	19.3	1	.	.	.	.	.	.
PUBLIC/ SD02-1138	.	35.1	20.2	1	.	.	.	.	.	.
PUBLIC/ SD04CV-620	39.6	19.7	1	.	.	.
PUBLIC/ SD03-1537	38.0	19.9	1	.	.	.
PUBLIC/ SD02-906	37.8	19.7	1	.	.	.
PUBLIC/ SD02-833	37.2	19.7	1	.	.	.
PUBLIC/ SD03-1607	37.0	20.1	1	.	.	.
PUBLIC/ SD02-911	36.9	19.8	1	.	.	.
PUBLIC/ SD04CV-254	36.6	19.8	1	.	.	.
PUBLIC/ SD04CV-277	36.5	20.0	1	.	.	.
PUBLIC/ SD03-483	38.7	19.0	1
PUBLIC/ SD04CV-907	38.4	18.5	1
PUBLIC/ SD00-732	38.3	19.4	1
PUBLIC/ SD04CV-460	37.8	19.4	1
PUBLIC/ SD02-96	37.4	19.5	1
DAIRYLAND/ DSR-22/STSUL	36.8	19.5	1
PUBLIC/ SD04CV-941	36.5	17.7	1
PUBLIC/ SD02-22	36.5	19.1	1
PUBLIC/ SD04CV-263	35.9	19.3	1
Test avg. :	.	37.0	19.5	1	37.4	19.8	1	37.4	19.1	1
High avg. :	.	38.5	20.2	1	39.6	20.1	1	38.7	19.5	1
Low avg. :	.	35.1	19.0	1	36.5	19.7	1	35.9	17.7	1
# LSD (.05) :	.	0.9	0.3	NS	1.1	NS	NS	0.8	0.7	NS
## TPG-avg. :	.	37.7	20.0	1	38.6	19.7	1	38.0	18.9	1
@ Coef. Var. :	.	1	1	0	2	1	0	1	2	0
No. Entries :	.	9	9	9	8	8	8	9	9	9

* DTM= days to maturity when seeded May 21, 2007; a missing value indicates the site received a hard frost before the variety reached maturity

** Lodging, 1= all plants erect, 5= all plant flat

LSD(.05)= amount values in a column must differ to be significantly different or if they were non-significant (NS)

TPG-avg. = minimum value to qualify for top performance group

@ Coef. Var.= a measure of trial experimental error, 15% or less is best

**Table 10a. Non-Roundup Ready™ maturity group-I & -II soybean variety yield averages-
Beresford, South Dakota, 2006-2007**

Brand/Variety (By maturity group & 2007 yield)	Average DTM*	Averages by Maturity Group			
		MG-I		MG-II	
		Bu/Acre 2007	Bu/Acre 2-Yr	Bu/Acre 2007	Bu/Acre 2-Yr
PUBLIC/ SD03-1607	107	43	51	.	.
PUBLIC/ SD04CV-254	108	42	.	.	.
PUBLIC/ SD02-906	108	42	50	.	.
PUBLIC/ SD02-911	108	42	.	.	.
PUBLIC/ SD03-1537	105	42	.	.	.
PUBLIC/ SD04CV-620	109	41	.	.	.
PUBLIC/ SD02-833	106	40	.	.	.
PUBLIC/ SD04CV-277	110	37	.	.	.
PUBLIC/ SD00-732	108	.	.	49	55
DAIRYLAND/ DSR-22/STSUL	111	.	.	47	54
PUBLIC/ SD02-22	111	.	.	45	54
PUBLIC/ SD02-96	111	.	.	45	51
PUBLIC/ SD04CV-263	110	.	.	44	.
PUBLIC/ SD03-483	111	.	.	44	.
PUBLIC/ SD04CV-907	113	.	.	43	.
PUBLIC/ SD04CV-460	115	.	.	42	.
PUBLIC/ SD04CV-941	112	.	.	41	.
Test avg. :	109	41	51	44	54
High avg. :	115	43	51	49	55
Low avg. :	105	37	50	41	51
# LSD (.05) :		NS	NS	NS	NS
## TPG-avg. :		37	50	41	51
@ Coef. Var. :		11	10	6	6
No. Entries :	17	8	2	9	4

* DTM= average days from seeding on June 9, 2007 to maturity

LSD (.05)= amount values in a column must differ to be significantly different or if differences are non-significant (NS)

TPG-avg. = minimum value to qualify for top performance group

@ Coef. Var.= a measure of trial experimental error, 15% or less is best

Table 10b. Non-Roundup Ready™ maturity group-I & -II soybean variety protein, oil, and lodging score averages- Beresford, South Dakota, 2007

Brand/Variety (By maturity group & protein)	Average DTM*	2007 Averages by Maturity Group					
		MG-I			MG-II		
		Protein %	Oil %	Lodging* (1-5)	Protein %	Oil %	Lodging* (1-5)
PUBLIC/ SD04CV-620	.	37.0	20.3	2	.	.	.
PUBLIC/ SD02-833	.	35.3	20.2	2	.	.	.
PUBLIC/ SD03-1607	.	35.0	20.5	1	.	.	.
PUBLIC/ SD02-911	.	34.9	20.4	1	.	.	.
PUBLIC/ SD03-1537	.	34.8	20.2	2	.	.	.
PUBLIC/ SD02-906	.	34.7	20.9	1	.	.	.
PUBLIC/ SD04CV-254	.	34.3	20.0	1	.	.	.
PUBLIC/ SD04CV-277	.	33.6	20.9	1	.	.	.
PUBLIC/ SD03-483	37.3	19.9	1
PUBLIC/ SD04CV-907	36.9	19.8	1
PUBLIC/ SD02-96	36.0	20.6	1
PUBLIC/ SD00-732	35.9	20.4	1
PUBLIC/ SD04CV-460	35.5	19.7	1
PUBLIC/ SD02-22	35.2	19.6	1
DAIRYLAND/ DSR-22/STSUL	34.2	19.8	1
PUBLIC/ SD04CV-941	34.2	18.5	2
PUBLIC/ SD04CV-263	33.4	20.4	1
Test avg.:	.	35.0	20.4	1	35.4	19.9	1
High avg.:	.	37.0	20.9	2	37.3	20.6	2
Low avg.:	.	33.6	20.0	1	33.4	18.5	1
# LSD (.05):	.	0.9	0.3	1	0.9	0.5	NS
## TPG-avg.:	.	36.2	20.7	1	36.5	20.2	2
@ Coef. Var.:	.	1	1	28	1	1	24
No. Entries:	.	8	8	8	9	9	9

* DTM= days to maturity when seeded June 9, 2007; a missing value indicates the site received a hard frost before the variety reached maturity

** Lodging, 1= all plants erect, 5= all plant flat

LSD(.05)= amount values in a column must differ to be significantly different or if they were non-significant (NS)

TPG-avg. = minimum value to qualify for top performance group

@ Coef. Var.= a measure of trial experimental error, 15% or less is best

Table F. Mailing addresses of entrants in the 2007 soybean trials.

Entrant name (brand name), mailing address
Coyote Seed Mills (Coyote), Inc., PO Box 16, Bridgewater, SD 57319-0016
Dairyland Seed Co., Inc. (Dairyland), PO Box 958, West Bend, WI 53095
Farm Advantage (Farm Advantage), 1275 Hwy 69, Belmont, IA 50421
Gold Country Seed Inc. (Gold Country Seed), 16506 Hwy 15 N., Hutchinson, MN 55350
Hefty Seed Co. (Hefty), 47504 252nd St., Baltic, SD 57003
Kaltenberg Seeds (Kaltenberg), 5506 State Rd 19, Box 278, Waunakee, WI 53597-0278
Kruger Seed Co. (Kruger), 33938 160th Ave., PO Box A, Dike, IA 50624
Latham Seed Co. (Latham), 131 180th St, Alexander, IA 50420-8028
Monsanto (Asgrow), 102 West Carol Ave., Courtland, IL 60112
Mustang Seeds (Mustang), PO Box 466, Madison, SD 57042
Northstar Genetics (Northstar), 14602 50th St. SE, Leonard, ND 58052
Nutech Seed, LLC (Nutech), 40321 130th Ave., Leland, IA 50453
Prairie Brand Seed Co. (Prairie Brand), 15 X Ave., Story City, IA 50248
Renk Seed Co. (Renk), 6809 Wilburn Rd., Sun Prairie, WI 53590
Roughrider Genetics (RG), 1735 NDSU Research Park Drive, Fargo, ND 58105
SDSU Soybean Breeding Program (Experimentals), Plant Science Dept, Brookings, SD 57007
Seeds 2000 (Seeds 2000), PO Box 200, Breckenridge, MN 56520
Sodak Genetics (Sodak), 1200 North Campus Dr., Brookings, SD 57007
Stine Seed Co.(Stine), 22555 Laredo Trail, Adel, IA 50003
Thunder Seed Inc. (Thunder), 3008 210th St. W., Hawley, MN 56549
Wensman Seed Co.(Wensman), PO Box 190, Wadena, MN 56482
Ziller Seed Co.Inc.(Ziller), 76374 380th St., Bird Island, MN 55310

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SOYBEAN

Variety Performance Trials—2008 Results



South Dakota State University • Cooperative Extension Service • U.S. Department of Agriculture

The crop performance trials are available at <http://plantsci.sdstate.edu/varietytrials/vartrial.html>

Tables for the 2008 Soybean Performance Trials

A	Monthly nearest weather station precipitation totals and average temperature; and their departures from average for 2008.	7
B	Description of trial locations, soil types, tillage methods, prior crop, herbicide usage, and dates seeded.	8
C	Gene race resistance to <i>Phytophthora</i> root rot	8
D	Glyphosate-resistant entries with yield table numbers.	9-10
E	Entrants (brand name) mailing addresses (after yield tables).	11
F	Explanation of yield and lodging score table footnotes	11

Glyphosate-Resistant Soybean Trial Results

1a	Glyphosate-resistant maturity group-0 soybean variety yield and lodging averages-northern South Dakota locations, 2007-2008	12
1b	Glyphosate-resistant maturity group-0 soybean variety protein and oil averages-northern South Dakota locations, 2008. Entries are sorted by 2008 zone protein.	13
2a	Glyphosate-resistant maturity group-I soybean variety yield and lodging averages-northern South Dakota locations, 2007-2008	14-15
2b	Glyphosate-resistant maturity group-I soybean variety protein and oil averages-northern South Dakota locations, 2008. Entries are sorted by 2008 zone protein.	16-17
3a	Glyphosate-resistant maturity group-0 soybean variety yield and lodging averages-central South Dakota locations, 2007-2008	18
3b	Glyphosate-resistant maturity group-0 soybean variety protein and oil averages-central South Dakota locations, 2008. Entries are sorted by 2008 zone protein.	19
4a	Glyphosate-resistant maturity group-I soybean variety yield and lodging averages-central South Dakota locations, 2007-2008	20-21
4b	Glyphosate-resistant maturity group-I soybean variety protein and oil averages-central South Dakota locations, 2008. Entries are sorted by 2008 zone protein.	22-23
5a	Glyphosate-resistant maturity group-II soybean variety yield and lodging averages-central South Dakota locations, 2007-2008	24
5b	Glyphosate-resistant maturity group-II soybean variety protein and oil averages-central South Dakota locations, 2008. Entries are sorted by 2008 zone protein.	25
6a	Glyphosate-resistant maturity group-I soybean variety yield and lodging averages-southern South Dakota locations, 2007-2008	26
6b	Glyphosate-resistant maturity group-I soybean variety protein and oil averages-southern South Dakota locations, 2008. Entries are sorted by 2008 zone protein.	27
7a	Glyphosate-resistant maturity group-II soybean variety yield and lodging averages-southern South Dakota locations, 2007-2008	28-29
7b	Glyphosate-resistant maturity group-II soybean variety protein and oil averages-southern South Dakota locations, 2008. Entries are sorted by 2008 zone protein.	30-31

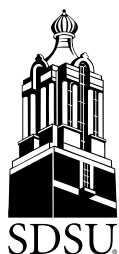
Non-Glyphosate-Resistant Soybean Trial Results

8a	Non-glyphosate-resistant maturity group-0 and -I soybean variety yield and lodging averages-South Shore, 2007-2008.	32
8b	Non-glyphosate-resistant maturity group-0 and -I soybean variety protein and oil averages-South Shore, 2008.	32

EC 775—Precision Planted Soybeans 2008 Crop Performance Results

is available electronically on the internet

<http://agbiopubs.sdstate.edu/articles/EC775-08.pdf>



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SOYBEAN

Variety Performance Trials–2008 Results

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Soybean production is greatly affected by variety selection. This circular reports the agronomic performance of entries in the 2008 South Dakota performance trials for glyphosate-resistant and conventional or non-glyphosate-resistant soybean varieties. Major factors in variety selection include yield, maturity, lodging resistance, and *Phytophthora* root rot resistance.

General

Soybean varieties are classified according to maturity groups that in turn are adapted to maturity zones. Maturity zones are based on day length and therefore affected by latitude. The very early maturity group-00 varieties are best suited to Canada and bordering regions of the U.S., while maturity group-0, group-I, and group-II varieties are suited to South Dakota. The later groups III-VIII are suited to Iowa, Nebraska, and south to Texas.

These soybean trial results are reported according to the prevalent maturity zones in South Dakota (see map). The glyphosate-resistant soybean variety trials were conducted by the following test zones and locations: Northern test zone: Maturity groups-0 and -I at South Shore and Warner; Central test zone: Maturity groups-0, -I, and -II at Brookings and Bancroft; Southern test zone: Maturity groups-I and -II at Beresford and Geddes.

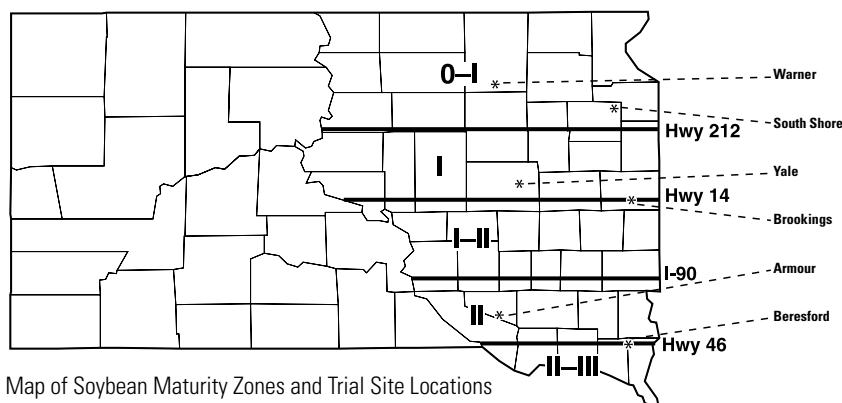
The conventional non-glyphosate-resistant soybean variety trials are conducted at the following SDSU affiliated research farms: Northeast Research Farm, South Shore- Maturity groups-0 and -I; SDSU Plant Science Farm, Brookings- Maturity groups-0, -I, and -II; and the Southeast SD Agricultural Experiment Station, Beresford- Maturity groups-I and -II. There are transi-

tion areas where varieties of two maturity groups may perform similarly. In such cases rainfall and or elevation may moderate the affect of latitude on maturity. In most cases, an earlier maturity group may be seeded in a zone suited to a later maturity group. This is only practical if seeding is delayed, or if reseeding following hail, or if double cropping.

Phytophthora root rot (PRR) is an important soybean disease in South Dakota and is often controlled or managed with the use of resistant varieties. Resistance to *Phytophthora* root rot is fungus-race specific. Thus, resistance to one PRR race does not always impart resistance to other races. Knowledge of the prevalent PRR races in your area is important. If you suspect you have a PRR problem then use of varieties with a wide range of resistance is strongly suggested (see discussion of *Phytophthora* under General Test procedures).

An alternative method of control is the use of “tolerant varieties.” Tolerant varieties are not resistant to PRR in the seedling stage. Thus, a PRR fungicide must be applied to protect them. Currently, we do not evaluate variety field tolerance; therefore, field tolerance ratings are not available.

Certified seed is the best source of seed and the only way to be assured of the genetic purity of the variety seeded. In addition, inoculation of seed with the appropriate nitrogen-fixing bacterium is a good practice. Always inoculate if seeding soybeans in soils not previously cropped to soybeans. On older soybean soils there is no guarantee that beneficial bacteria will be present to naturally inoculate planted seed. Therefore, inoculation of seed at



Map of Soybean Maturity Zones and Trial Site Locations

planting is an inexpensive means of increasing the percentage of plants that will fix nitrogen in the current crop year.

Yield

Yields are obtained from the South Dakota Crop Performance Testing Program (CPT). Current-year yields are included for each entry tested along with 2-year averages where varieties have been tested for two years. Yield test averages and least significant difference (LSD) values are rounded-off to the nearest bushel and printed at the bottom of each yield column.

The LSD value can be used to determine if varieties differ in yield per acre. For example, assume variety A averages 30 bu., B averages 25 bu., and the calculated LSD value is 4 bu. The average difference between varieties A and B is 5 bu (30-25=5). Since the average difference of 5 bu. is greater than the test LSD value of 4 bu., variety A (30 bu.) is significantly higher in yield than for B (25 bu.). In contrast, if variety A averages 28 bu. and B averages 25 bu., the average difference would be 3 bu (28-25=3). In this case, both varieties would have a similar yield average because their difference of 3 bu. is less than the test LSD value of 4 bu.

Use LSD values to identify the best-yielding varieties. The LSD value at the bottom of each yield column is used to calculate a minimum top yield value. For example, if the highest column yield value is 50 bu., subtract the LSD value of 5 bu. to obtain an intermediate value of 45 bu. (50 - 5 = 45). The minimum top yield value has to be greater than this intermediate value of 45 bu. and since the yield values are rounded to the nearest bushel it must be at least 46 bu. Thus, varieties with an average of 46 bu. or higher are included in the top-yield group. Note: Entries tested for two years may also have a top yield group value in the 2008 yield column.

NOTE: Each company selects the appropriate maturity group trial (maturity group-0, -I, or -II trial) and locations for their entries. Companies generally have one or more maturity group checks for their varieties. There are, however, no standard regional or national check varieties for maturity. A late group-I variety from one company may be similar in maturity to an early group-I, or an early group-II variety from another company because they use different check varieties for maturity. Therefore, this testing program does not guarantee that entries are placed in the appropriate maturity group trial. Borderline entries with maturity ratings at or near the arbitrary breaks between the late group-0's and early group-I's and between the late group-I's and early-group-II's may crossover in some test trials. It is suggested you note the reported maturity rating of every entry you are considering. Since all entries at a location are seeded the same day, one can compare the relative difference in days to maturity among varieties tested at that location. Use caution when comparing the maturity rating of a variety over many locations. Variations in soil moisture and temperature often differ between locations resulting in some maturity variations over locations.

The efforts of D. Doyle, SDSU Agronomy Farm; A. Heuer, NE Research Farm, South Shore; and R. Berg and staff, SE Research Farm, Beresford in obtaining the data are gratefully acknowledged. Also, the assistance and cooperation of our farmer co-operators: Allen and Inel Ryckman, Warner, SD; Curtis Syb-

esma, Geddes, SD; and Erland Weerts, Bancroft, SD is gratefully acknowledged.

Protein and Oil Content

The 2008 protein and oil values (adjusted to a 13% moisture) were determined using a calibrated FOSS TECATOR Model Infratec 1229 Grain Analyzer. Three replicates of every variety in each trial were tested. Samples of known protein and oil were tested by the SDSU Agricultural Experiment Station Biochemistry Laboratory and were used to calibrate the analyzer.

Weather and Seasonal Precipitation

Seasonal rainfall and its distribution and average temperatures at weather reporting stations nearest each test trial are reported in Table A for the period April 1 to September 30. Seasonal precipitation totals were above average at Aberdeen (2.22") and Mitchell (1.61"); near average at South Shore (-0.62"), Huron (0.47"), and Centerville (Beresford-SE Farm 0.50"); and below average at Brookings (-4.81"). The greatest moisture deficit of -3.78" from June through August was at Brookings. Station temperatures varied from about 0 to -9o below average in April, May, and June; and from 0-2o F in July and August. Effects of the cool spring in May that delayed planting or inhibited early seedling growth at some of the locations can be seen in table A.

General Test Procedures

These procedures apply to both the glyphosate-resistant and conventional non-glyphosate-resistant soybean trials except for the chemical weed control imposed. Trial locations, soil types, tillage methods, previous crops, pesticide usage, and seeding dates are indicated in table B.

Test Procedures: A row spacing of 30 inches was used at all locations. The seeding rate was 165,000 seeds per acre for all varieties and locations. Test plots consist of 4-row plots, 20 feet long, with three replications at all locations. Soybean inoculation was accomplished by applying Nitragin brand Soybean Soil Implant down the seed tube, according to label instructions and rates, during seeding. Seeding at all locations was accomplished using a Monosem precision row crop planter. The center two rows of each plot were harvested for yield.

Yield: Plots were harvested at 15% seed moisture or less. Yields were calculated on a 13% moisture content basis and expressed in bushels per acre. Harvest was accomplished using a Massey Ferguson 8XP small plot combine.

Reporting variety maturity: Variety maturity is reported as "Days to maturity" or DTM. Entries are mature when 95% of the pods have turned brown. Each maturity value is obtained by determining the average number of days from seeding to maturity for two replicates and expressing as DTM at each location. Table DTM values are an average of four replicates (two for each location) unless data is at a location; and in such cases the DTM average is based on two replications.

Lodging Score: Scores at maturity are based on the erectness of the main stem of plants within each variety. 1= all plants erect, 2= slight lodging, 3= some lodging at a 45o-angle, 4= severe lodging, and 5= all plants flat.

Phytophthora Root Rot (PRR): The gene resistance of each variety to PRR is supplied by each seed company (proprietary entries) or by the USDA (Uniform Soybean Tests, Northern States, public entries). A key for each type of PRR gene and the race resistance it imparts to a variety is given in Table C. Spe-

cific race resistance to PRR as reported by seed company, can be determined by noting the PRR gene in the variety index table D (glyphosate-resistant) and referencing the gene back to table C to find the range of race resistance. Currently, races -1, -3, and -4 are the most common races in South Dakota.

GLYPHOSATE-RESISTANT SOYBEAN VARIETY TRIAL RESULTS

Note: Yield averages are reported 2-yr (2007-08) or 2008.

NORTHERN TEST ZONE

SOUTH SHORE- Conventional tillage, Northeast Research Farm
WARNER- Minimum-tillage, Allen & Inel Ryckman Farm (farm cooperators)

South Shore, Group-0 (Tables 1a & 1b): The two-year and 2008 test-yield averages were 49 and 43 bushels per acre, respectively (Table 1a). Varieties had to average 46 and 49 bushels or higher to be in the top yield group for two years and for 2008, respectively. Variety yield differences among the two-year averages were not significant (NS); while the 2008 variety yield differences had to differ by 4 bushels to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for lodging resistance and had to differ by 1 to be significantly different.

The 2008 protein and oil test averages were 39.5% and 18.8%, respectively (Table 1b). Variety protein and oil values had to average 41.5% and 19.6% or higher, respectively, to be in the top groups for protein and oil 2008. Variety protein and oil averages had to differ by 0.7% and 0.5%, respectively, to be significantly different.

Warner, Group-0 (Tables 1a & 1b): The two-year and 2008 test-yield averages were 47 and 41 bushels per acre, respectively (Table 1a). Varieties had to average 43 and 46 bushels or higher to be in the top yield group for two years and for 2008, respectively. Variety yield differences among the two-year averages were not significant (NS); while the 2008 variety yield differences had to differ by 4 bushels to be significantly different. Variety lodging score values did not differ among varieties therefore they were not significantly different.

The 2008 protein and oil test averages were 38.7% and 18.2%, respectively (Table 1b). Variety protein and oil values had to average 40.1% and 18.5% or higher, respectively, to be in the top groups for protein and oil in 2008. Variety protein and oil averages had to differ by 1.7% and 0.9%, respectively, to be significantly different.

Northern test zone, Group-0 (Tables 1a & 1b): The two-year and 2008 test-yield averages were 48 and 42 bushels per acre, respectively, and the lodging score average was 2. (Table 1a). The effect of variety on yield and lodging score differed significantly between the two locations for both the two-year and 2008 periods. Growers are encouraged to evaluate varieties by looking at both yield columns and the lodging score column at each location and disregard the Northern zone columns.

The 2008 northern zone protein and oil test averages were 39.2% and 18.5%, respectively (Table 1b). Variety protein and oil

values had to average 41.1% and 19.1% or higher, respectively, to be in the top groups for protein and oil. Variety protein and oil averages had to differ by 0.9% and 0.5%, respectively, to be significantly different.

South Shore, Group-I (Tables 2a & 2b): The two-year and 2008 test-yield averages were 48 and 45 bushels per acre, respectively (Table 2a). Varieties had to average 49 bushels and 48 bushels or higher to be in the top yield group for two years and for 2008, respectively. Variety yield averages had to differ by 5 bushels for two years and 3 bushels for 2008 to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for lodging resistance and had to differ by 1 to be significantly different.

The 2008 protein and oil test averages were 39.0% and 18.9%, respectively (Table 2b). Variety protein and oil values had to average 39.9% and 20.7% or higher, respectively, to be in the top groups for protein and oil 2008. Variety protein and oil averages had to differ by 0.9% and 0.5%, respectively, to be significantly different.

Warner, Group-I (Tables 2a & 2b): The two-year and 2008 test-yield averages were 48 and 38 bushels per acre, respectively (Table 2a). Varieties had to average 43 and 39 bushels or higher to be in the top yield group for two years and for 2008, respectively. Variety yield differences among the two-year averages were not significant (NS); while the 2008 variety yield differences had to differ by 6 bushels to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for lodging resistance and had to differ by 1 to be significantly different.

The 2008 protein and oil test averages were 38.5% and 18.0%, respectively (Table 2b). Variety protein and oil values had to average 39.1% and 18.9% or higher, respectively, to be in the top groups for protein and oil 2008. Variety protein and oil averages had to differ by 1.7% and 1.1%, respectively, to be significantly different.

Northern test zone, Group-I (Tables 2a & 2b): The two-year and 2008 test-yield averages were 48 and 41 bushels per acre, respectively (Table 2a). Variety yield differences among the two-year averages were not significant (NS). In contrast, the effect of variety on the 2008 yield and lodging score average differed significantly between the two locations in 2008. Growers are encouraged to evaluate the yield and lodging resistance potential of varieties by looking at the 2008 yield and lodging score columns at each location and disregard the averages of these variables in the Northern zone columns.

The 2008 protein and oil test averages were 38.8% and 18.5%, respectively, (Table 2b). Variety protein and oil values had to average 39.2% and 20.0% or higher, respectively, to be in the top groups for protein and oil 2008. Variety protein and oil averages had to differ by 1.0% and 0.6%, respectively, to be significantly different.

CENTRAL TEST ZONE

BROOKINGS– Conventional tillage, SDSU Plant Science Research Farm

BANCROFT- No-till, Erland Weerts (farm cooperater)

Brookings, Group-0 (Tables 3a & 3b): The two-year and 2008 test-yield averages were 52 and 42 bushels per acre, respectively (Table 3a). Varieties had to average 51 bushels and 44 bushels or higher to be in the top yield group for two years and for 2008, respectively. Variety yield averages had to differ by 4 bushels for both the two-year and 2008 periods to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2008.

The 2008 protein and oil test averages were 39.4% and 19.0%, respectively (Table 3b). Variety protein and oil values had to average 37.9% and 19.2% or higher, respectively, to be in the top groups for protein and oil 2008. Variety protein and oil averages had to differ by 4.0% and 1.2%, respectively, to be significantly different.

Bancroft, Group-0 (Tables 3a & 3b): The two-year and 2008 test-yield averages were 57 and 50 bushels per acre, respectively (Table 3a). Varieties had to average 57 and 54 bushels or higher to be in the top yield group for 2008 and for two years, respectively. Variety yield averages had to differ by 5 bushels for both two years and in 2008 to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for lodging resistance and had to differ by 1 to be significantly different.

The 2008 protein and oil test averages were 41.1% and 20.2%, respectively (Table 3b). Variety protein and oil values had to average 42.4% and 20.9% or higher, respectively, to be in the top groups for protein and oil 2008. Variety protein and oil averages had to differ by 1.2% and 0.7%, respectively, to be significantly different.

Central test zone, Group-0 (Tables 3a & 3b): The two-year and 2008 test-yield averages were 54 and 47 bushels per acre, respectively (Table 2a). Varieties had to average 57 bushels and 50 bushels or higher to be in the top yield group for two years and for 2008, respectively. Variety yield averages had to differ by 2 bushels for two years and 3 bushels for 2008 to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for lodging resistance and had to differ by 1 to be significantly different.

The 2008 protein and oil test averages were 40.3% and 19.6%, respectively, (Table 3b). Variety protein and oil values had to average 40.8% and 20.1% or higher, respectively, to be in the top groups for protein and oil 2008. Variety protein and oil averages had to differ by 2.0% and 0.7%, respectively, to be significantly different.

Brookings, Group-I (Tables 4a & 4b): The two-year and 2008 test-yield averages were 53 and 44 bushels per acre, respectively (Table 4a). Varieties had to average 54 and 46 bushels or higher to be in the top yield group for 2008 and for two years, respectively. Variety yield averages had to differ by 5 bushels for two years and 4 bushel for 2008 to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2008.

The 2008 protein and oil test averages were 38.5% and 19.3%, respectively (Table 4b). Variety protein and oil values had to average 39.9% and 20.0% or higher, respectively, to be in the top groups for protein and oil 2008. Variety protein and oil averages both had to differ by 0.7% to be significantly different.

Bancroft, Group-I (Tables 4a & 4b): The two-year and 2008 test-yield averages were 55 and 51 bushels per acre, respectively (Table 4a). Varieties had to average 48 and 41 bushels or higher to be in the top yield group for 2008 and for two years, respectively. Variety yield averages had to differ by 5 bushels for both the two-year and 2008 periods to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for lodging resistance and had to differ by 1 to be significantly different.

The 2008 protein and oil test averages were 40.3% and 20.2%, respectively (Table 4b). Variety protein and oil values had to average 41.5% and 20.9% or higher, respectively, to be in the top groups for protein and oil 2008. Variety protein and oil averages had to differ by 1.3% and 0.6%, respectively, to be significantly different.

Central test zone, Group-I (Tables 4a & 4b): The two-year and 2008 test-yield averages were 54 and 48 bushels per acre, respectively, and the lodging score average was 1 (Table 4a). The effect of variety on yield and lodging score differed significantly between the two locations for both the two-year and 2008 periods. Growers are encouraged to evaluate varieties by looking at both yield columns and the lodging score column at each location and disregard the Central zone columns.

The 2008 protein and oil test averages were 39.4% and 19.7%, respectively (Table 4b). Variety protein and oil values had to average 40.9% and 20.9% or higher, respectively, to be in the top groups for protein and oil 2008. Variety protein and oil averages had to differ by 0.7% and 0.4%, respectively, to be significantly different.

Brookings, Group-II (Tables 5a & 5b): The two-year and 2008 test-yield averages were 53 and 47 bushels per acre, respectively (Table 2a). Varieties had to average 50 and 48 bushels or higher to be in the top yield group for two years and for 2008, respectively. Variety yield differences among the two-year averages were not significant (NS); while the 2008 variety yield differences had to differ by 6 bushels to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2008.

The 2008 protein and oil test averages were 36.9% and 18.8%, respectively (Table 5b). Variety protein and oil values had to

average 39.3% and 19.0% or higher, respectively, to be in the top groups for protein and oil 2008. Variety protein and oil averages had to differ by 0.9% and 0.6%, respectively, to be significantly different.

Bancroft, Group-II (Tables 5a & 5b): The two-year and 2008 test-yield average was 54 and 50 bushels per acre in 2008 and for two years, respectively (Table 5a). Likewise, varieties had to average 54 bushels or higher in 2008 and 53 bushel or higher to be in the top yield group for two years. Variety yield averages had to differ by 6 bushels for two years and for 2008 to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for lodging resistance and had to differ by 1 to be significantly different.

The 2008 protein and oil test averages were 40.1% and 19.8%, respectively (Table 5b). Variety protein and oil values had to average 40.4% and 20.0% or higher, respectively, to be in the top groups for protein and oil 2008. Variety protein and oil averages had to differ by 2.2% and 0.8%, respectively, to be significantly different.

Central test zone, Group-II (Tables 5a & 5b): The two-year and 2008 test-yield averages were 54 and 49 bushels per acre, respectively (Table 2a). Varieties had to average 55 bushels and 50 bushels or higher to be in the top yield group for two years and for 2008, respectively. Variety yield averages had to differ by 3 bushels for two years and 4 bushels for 2008 to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for lodging resistance and had to differ by 1 to be significantly different.

The 2008 protein and oil test averages were 38.6% and 19.3%, respectively, (Table 5b). Variety protein and oil values had to average 39.6% and 19.6% or higher, respectively, to be in the top groups for protein and oil 2008. Variety protein and oil averages had to differ by 1.2% and 0.5%, respectively, to be significantly different.

SOUTHERN TEST ZONE

BERESFORD– Conventional tillage, Southeast SD Agricultural Experiment Stn.

GEDDES- No-till, Curtis Sybesma (farm cooperater)

Beresford, Group-I (Tables 6a & 6b): The two-year and 2008 test-yield averages were 48 and 42 bushels per acre, respectively (Table 2a). Varieties had to average 49 bushels and 45 bushels or higher to be in the top yield group for two years and for 2008, respectively. Variety yield averages had to differ by 5 bushels for two years and 4 bushels for 2008 to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for lodging resistance and had to differ by 1 to be significantly different.

The 2008 protein and oil test averages were 36.9% and 19.3%, respectively (Table 6b). Variety protein and oil values had to average 38.3% and 19.7% or higher, respectively, to be in the top groups for protein and oil 2008. Variety protein and oil averages had to differ by 0.7% and 0.4%, respectively, to be significantly different.

Geddes, Group-I (Tables 6a & 6b): The two-year and 2008 test-yield averages were 52 and 48 bushels per acre, respectively (Table 1a). Varieties had to average 47 and 48 bushels or higher to be in the top yield group for two years and for 2008, respectively. Variety yield differences among the two-year averages were not significant (NS); while the 2008 variety yield differences had to differ by 6 bushels to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2008.

The 2008 protein and oil test averages were 36.7% and 19.9%, respectively (Table 6b). Variety protein and oil values had to average 37.3% and 19.9% or higher, respectively, to be in the top groups for protein and oil 2008. Variety protein and oil averages had to differ by 2.0% and 1.1%, respectively, to be significantly different.

Southern test zone, Group-I (Tables 6a & 6b): The two-year and 2008 test-yield averages were 50 and 45 bushels per acre, respectively, and the lodging score average was 2 (Table 1a). The effect of variety on yield and lodging score differed significantly between the two locations for both the two-year and 2008 periods. Growers are encouraged to evaluate varieties by looking at both yield columns and the lodging score column at each location and disregard the Southern zone columns.

The 2008 protein and oil test averages were 36.8% and 19.6%, respectively, (Table 6b). Variety protein and oil values had to average 38.2% and 19.8% or higher, respectively, to be in the top groups for protein and oil 2008. Variety protein and oil averages had to differ by 1.0% and 0.6%, respectively, to be significantly different.

Beresford, Group-II (Tables 7a & 7b): The two-year and 2008 test-yield averages were 49 and 44 bushels per acre, respectively (Table 4a). Varieties had to average 49 and 51 bushels or higher to be in the top yield group for 2008 and for two years, respectively. Variety yield averages had to differ by 6 bushels for two years and 5 bushel for 2008 to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging and lodging values had to differ by 1 to be significantly different.

The 2008 protein and oil test averages were 36.6% and 19.0%, respectively (Table 7b). Variety protein and oil values had to average 38.0% and 19.4% or higher, respectively, to be in the top groups for protein and oil 2008. Variety protein and oil averages had to differ by 1.1% and 0.5%, respectively, to be significantly different.

Geddes, Group-II (Tables 7a & 7b): The two-year and 2008 test-yield averages were 55 and 53 bushels per acre, respectively (Table 4a). Varieties had to average 55 and 53 bushels or higher to be in the top yield group for 2008 and for two years, respectively. Variety yield averages had to differ by 6 bushels for both two years and for 2008 to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging and lodging values had to differ by 1 to be significantly different.

The 2008 protein and oil test averages were 37.0% and 19.5%, respectively (Table 7b). Variety protein and oil values had to average 38.5% and 19.9% or higher, respectively, to be in the top groups for protein and oil 2008. Variety protein and oil averages had to differ by 2.1% and 1.1%, respectively, to be significantly different.

Southern test zone, Group-II (Tables 7a & 7b): The two-year and 2008 test-yield averages were 52 and 48 bushels per acre, respectively, and the lodging score average was 1 (Table 1a). The effect of variety on yield and lodging score differed significantly

between the two locations for both the two-year and 2008 periods. Growers are encouraged to evaluate varieties by looking at both yield columns and the lodging score column at each location and disregard the Southern zone columns.

The 2008 protein and oil test averages were 36.8% and 19.3%, respectively, (Table 7b). Variety protein and oil values had to average 37.6% and 19.7% or higher, respectively, to be in the top groups for protein and oil 2008. Variety protein and oil averages had to differ by 1.1% and 0.6%, respectively, to be significantly different.

NON-GLYPHOSATE-RESISTANT SOYBEAN VARIETY TRIAL RESULTS

Note: Yield averages are reported 2-yr (2007-08) or 2008.

SOUTH SHORE– Conventional tillage, Northeast Research Farm

South Shore, Group-0 (Tables 8a & 8b): The two-year and 2008 test-yield averages were 43 and 35 bushels per acre, respectively (Table 8a). Varieties had to average 43 bushels or higher for two years and 36 bushels or higher for 2008 to be in the top yield group. There were no significant differences in yield average among the varieties tested for two years; while in 2008 averages had to differ by 5 bushel to be significantly different. Variety lodging score values had to equal 2 or lower to be in the top performance group for lodging and lodging values had to differ by 1 to be significantly different.

The 2008 protein and oil test averages were 40.0% and 18.3%, respectively (Table 8b). Variety protein and oil values had to average 40.0% and 17.9% or higher, respectively, to be in the top groups for protein and oil 2008. Variety protein averages had to differ by 1.4% to be significantly different. Variety oil average differences were non-significant(NS; therefore the varieties did not differ in oil content.

South Shore, Group-I (Tables 8a & 8b): There was only one entry in this trial so there were no differences in yield, lodging score, protein, and oil content to compare.

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Table A. Nearest weather station precipitation accumulation and average daily temperatures for each growing season month in 2008 and their departures from average (DFA). Source: South Dakota Office of Climate and Weather.

Station (Test site)	Variable	Monthly data - April 1 to September 30						Total
		April	May	June	July	Aug	Sept	
Aberdeen Airport (Warner)	Precip.- inches '08	0.86	2.19	3.21	6.26	1.24	3.62	17.38
	1971-2000 avg.	1.83	2.69	3.49	2.92	2.42	1.81	15.16
	DFA*	-0.97	-0.50	-0.28	3.34	-1.18	1.81	2.22
	Avg.Temp. -°F '08	43	49	65	73	71	62	
1971-2000 avg.	45	58	67	72	71	60		
DFA	-2	-9	-2	1	0	2		
South Shore (NE Farm)	Precip.- inches '08	0.57	2.67	4.48	4.04	1.74	2.25	15.75
	1971-2000 avg.	1.96	2.61	4.01	2.91	2.85	2.03	16.37
	DFA	-1.39	0.06	0.47	1.13	-1.11	0.22	-0.62
	Avg.Temp. -°F '08	39	53	62	70	68	59	
1971-2000 avg.	43	56	65	70	68	58		
DFA	-4	-3	-3	0	0	1		
Huron (Bancroft)	Precip.- inches '08	0.19	4.33	4.51	2.47	2.79	1.48	15.77
	1971-2000 avg.	2.29	3.00	3.28	2.86	2.07	1.80	15.30
	DFA	-2.10	1.33	1.23	-0.39	0.72	-0.32	0.47
	Avg.Temp. -°F '08	41	50	66	74	73	62	
1971-2000 avg.	46	58	68	73	72	61		
DFA	-5	-8	-2	1	1	1		
Brookings (Agronomy Farm)	Precip.- inches '08	0.84	2.76	5.60	1.60	0.67	1.46	12.93
	1971-2000 avg.	2.03	2.95	4.23	3.11	2.94	2.48	17.74
	DFA	-1.19	-0.19	1.37	-1.51	-2.27	-1.02	-4.81
	Avg.Temp. -°F '08	41	48	64	71	69	62	
1971-2000 avg.	44	57	66	71	69	59		
DFA	-3	-9	-2	0	0	3		
Centerville, 6 SE (Beresford-SE Farm)	Precip.- inches '08	1.84	5.76	4.68	2.63	1.70	2.40	19.01
	1971-2000 avg.	2.47	3.65	3.95	3.35	2.83	2.26	18.51
	DFA	-0.63	2.11	0.73	-0.72	-1.13	0.14	0.50
	Avg.Temp. -°F '08	44	57	69	75	71	62	
1971-2000 avg.	47	60	69	74	72	62		
DFA	-3	-3	0	1	-1	0		
Mitchell (Geddes)	Precip.- inches '08	3.31	5.9	4.9	2.46	0.76	1.07	18.40
	1971-2000 avg.	2.71	3.33	3.52	2.64	2.32	2.27	16.79
	DFA	0.60	2.57	1.38	-0.18	-1.56	-1.20	1.61
	Avg.Temp. -°F '08	44	51	68	76	73	66	
1971-2000 avg.	47	59	69	74	72	62		
DFA	-3	-8	-1	2	1	4		

* DFA - departure from normal, difference current year is greater or less (-) than the long-term average.

Table B. Description of trial locations- soil type, tillage methods, previous crop, herbicides and inoculants used, and seeding dates.

Location (County)	Soils & Management			Herbicides Applied at label rates				Nitragin Soybean Soil Implant	Date seeded
	Type	Tillage Method	Previous crop	Glyphosate Trials		Non- glyphosate Trials		Down seed tube at label rate	
				Pre	Post	Pre	Post		
Warner (Brown)	Harmony-Aberdeen silty clay loam, 0-2% slope	No-till	Corn	None	Roundup once	-	-	Yes	May 27
South Shore (Codington)	Kranzburg silty clay loam, 3-6% slope	Conven- tional	S. Wheat	2 pt, Dual II Magnum	Roundup once	2 pt, Dual II Magnum	Pursuit	Yes	May 31
Bancroft (Kingsbury)	Houdek-Stickney- Tetonka loam, 0-3% slope	No-till	Corn	None	Roundup once	-	-	Yes	May 28
Brookings (Brookings)	Barnes clay loam, 0-2% slope	Conven- tional	S. Wheat	None	Roundup twice	None	Harmony/ Poast/ Basagran split	Yes	May 23
Geddes (Chas. Mix)	Highmore-Walke silt loam, 0-2% slope	No-till	Corn	None	Roundup once	-	-	Yes	June 12
Beresford (Clay)	Egan-Clarno-Trent silty clay loam, 0-2% slope	Conven- tional	Corn	None	Roundup once/ 6oz. Assure	Trial was abandoned following an error in herbicide application			

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Table C. Phytophthora root rot race resistance by gene.

Gene	Gene Code	Race Resistance
rps1	0	None
Rps1, Rps1a	1A	1-2,10-11,13,15-18,24
Rps1b	1B	1,3-9,13-15,18,21-22
Rps1c	1C	1-3,6-11,13,15,17,21,23-24
Rps1k	1K	1-11,13-15,17-18,21-22,24
Rps2	2	1-5,9-20
Rps3	3	1-5,8-9,11,13-14,16,18,23,25
Rps4	4	1-4,10,12-16,18-21,25
Rps5	5	1-5,8-9,11-14,18,20,25
Rps6	6	1-4,10,12,14-16,18-21,25
Rsp7	7	16,18,19
Rps1k, Rps6	K6	1-22,24-25
Rps1c, Rps3	C3	1-10,13-18,22-25
Rps1b	B3	1-9,13-16,18,21-23,25
MIX	MIX	Resistant & Susceptible Plants
NR	NR	Not Reported

Table D. Index to 2008 Glyphosate-resistant soybean entries by brand/variety, maturity group, gene code for Phytophthora root rot (PRR) resistance as reported by entrants, and performance table number(s). Use table C to determine entry PRR resistance.

Brand / Variety	Mat. Grp.	Gene Code	Table No.(s)	Brand / Variety	Mat. Grp.	Gene Code	Table No.(s)
ASGROW/ AG0808	0.8	1K	1	HEFTY/ EXP089R	0.8	1K	1
ASGROW/ AG1102	1.1	1K	2,4	HEFTY/ EXP139R	1.3	0	2
ASGROW/ AG1403	1.4	0	2,4	HEFTY/ EXP159RN	1.5	1K	2,4
ASGROW/ AG1406	1.4	0	2,4	HEFTY/ EXP179RN	1.7	0	4
ASGROW/ AG1702	1.7	1K	2,4	HEFTY/ EXP199R	1.9	0	4
ASGROW/ AG1802	1.8	1K	2,4	HEFTY/ EXP229RN	2.2	0	5,7
ASGROW/ AG2002	1.9	1C	4	HEFTY/ EXP259RN	2.5	1K	7
ASGROW/ AG2108	2.1	0	5	HEFTY/ EXP279RN	2.7	1C	7
ASGROW/ AG2403	2.4	1K	7	JGL/ EXP 601	1.8	0	4,6
ASGROW/ AG2406	2.4	1C	7	JGL/ EXP 602	0.9	0	1,3
ASGROW/ AG2909	2.9	1C	7	JGL/ EXP 603	0.9	1C	1,3
ASGROW/ DKB22-52	2.2	0	5	KALTENBERG/ KB1809RR	1.8	0	4
ASGROW/ DKB25-51	2.5	1K	7	KALTENBERG/ KB196RR	1.9	1K	4
ASGROW/ DKB27-52	2.7	1C	7	KALTENBERG/ KB249RR	2.4	0	7
DAIRYLAND/ DSR-0903/RR	0.9	NR	1	KALTENBERG/ KB2609RR	2.6	0	7
DAIRYLAND/ DSR-1055/RR	1	NR	2	KALTENBERG/ KB278RR	2.7	0	7
DAIRYLAND/ DSR-1601/RR	1.6	1K	4	KRUGER/ EXPKX1987R	1.9	NR	2,4,6
DAIRYLAND/ DSR-2200/RR	2.2	NR	7	KRUGER/ K-042RR	0.4	1A	1,3
DAIRYLAND/ DSR-2600/RR	2.6	1K	7	KRUGER/ K-058RR	0.5	1K	1,3
DAIRYLAND/ DSR-2770/RR	2.7	1K	7	KRUGER/ K-072+RR	0.8	1A	1,3
DAIRYLAND/ DSR1302RRSTS	1.3	1K	2	KRUGER/ K-079RR	0.7	1K	1,3
DAIRYLAND/ DSR1850RRSTS	1.8	NR	4	KRUGER/ K-091RR	0.9	0	1,3
DAIRYLAND/ DST10-000/RR	1	NR	2	KRUGER/ K-100RR	1	1K	2,4
DAIRYLAND/ DST14-002/RR	1.4	NR	2	KRUGER/ K-129RR	1.2	0	2,4
DAIRYLAND/ DST24-004/RR	2.4	NR	7	KRUGER/ K-142RR	1.4	1K	2,4,6
DAIRYLAND/ DST25-002/RR	2.5	NR	7	KRUGER/ K-147RR/SCN	1.2	1K	2
G-2 GENETICS/ 6099	0.9	1C	1,3	KRUGER/ K-163RR	1.6	1K	2,4,6
G-2 GENETICS/ 7095	0.9	1K	1	KRUGER/ K-167RR/SCN	1.6	1K	2,4,6
G-2 GENETICS/ 7151	1.5	K6	2,4	KRUGER/ K-170RR/SCN	0.7	0	2,4,6
G-2 GENETICS/ 7186	1.8	1K	4,6	KRUGER/ K-189RR/SCN	1.8	1K	2,4,6
G-2 GENETICS/ 7226	2.2	1K	5,7	KRUGER/ K-194RR	1.9	1K	2,4,6
G-2 GENETICS/ 7241	2.4	1K	7	KRUGER/ K-195+RR/SCN	1.9	1K	4,6
G-2 GENETICS/ 7255	2.5	1K	7	KRUGER/ K-201RR/SCN	2	1C	5,7
GOLD COUNTRY/ 1913RR	1.3	0	2	KRUGER/ K-204RR/SCN	2	1K	5,7
GOLD COUNTRY/ 1915NRR	1.5	1K	2,4	KRUGER/ K-228RR/SCN	2.2	1K	5,7
GOLD COUNTRY/ 1918RR	1.8	1K	4,6	KRUGER/ K-239RR	2.3	0	5,7
GOLD COUNTRY/ 2509RR	0.9	0	1	KRUGER/ K-248RR/SCN	2.4	0	5,7
GOLD COUNTRY/ 2713RR	1.3	1K	2	KRUGER/ K-249RR/SCN	2.4	0	5
GOLD COUNTRY/ 2815RR	1.5	0	2,4	KRUGER/ K-251RR/SCN	2.5	1K	5,7
GOLD COUNTRY/ 8820NRR	2	1K	7	KRUGER/ K-256RR	2.5	1K	5,7
GOLD COUNTRY/ 9822RR	2.2	1K	7	KRUGER/ K-271RR	2.7	1K	7
HEFTY/ 117R	1.1	0	2	KRUGER/ K-274RR/SCN	2.7	0	7
HEFTY/ 168R	1.6	0	2,4	KRUGER/ K-275RR/SCN	2.7	1K	7
HEFTY/ 218RN	2.1	1C	5,7	LATHAM/ EXP-E2680R	2.6	0	7
HEFTY/ 248R	2.4	3	7	LATHAM/ EXP-E2935R	2.9	1K	7
LATHAM/ L1738R	1.7	0	4	NUTECH/ NT-0886	0.8	NR	1
LATHAM/ L1983R	1.9	1C	4	NUTECH/ NT-0990	0.9	NR	1,3
LATHAM/ L2158R	2.1	1K	7	NUTECH/ NT-1808/SCN RR	1.8	1C	4
LATHAM/ L2285R	2.2	1K	7	NUTECH/ NT-2324+RR/SCN	2.3	NR	7
LATHAM/ L2303R	2.3	0	7	NUTECH/ NT-6205+RR	1.9	1K	2,4,6
LATHAM/ L2348R	2.3	1K	7	NUTECH/ NT-6234RR	2.3	1K	5
LATHAM/ L2658R	2.6	1C	7	NUTECH/ NT-7193+RR/SCN	1.9	1K	4,6
LATHAM/ L2740R	2.7	0	7	NUTECH/ NT-7206	2	1K	7
MUSTANG/ M-089RR	0.8	1K	1	PIONEER/ 91Y90	1.9	0	2,4
MUSTANG/ M-095RR	0.9	0	1,3	PIONEER/ 92M61	2.6	0	7

Table D. Index to 2008 Glyphosate-resistant soybean entries (Continued).

Brand / Variety	Mat. Grp.	Gene Code	Table No.(s)	Brand / Variety	Mat. Grp.	Gene Code	Table No.(s)
MUSTANG/ M-096RR	0.9	0	1,3	PIONEER/ 92Y30	2.3	1K	5,7
MUSTANG/ M-139RR	1.3	NR	2	PIONEER/ 93M11	2.9	1K	7
MUSTANG/ M-159NRR	1.5	1K	4	PRAIRIE BR./ EXP PB-0186	0.6	0	1
MUSTANG/ M-168RR	1.6	0	2,4	PRAIRIE BR./ EXP PB-1170	1.9	0	4,6
MUSTANG/ M-177NRR	1.7	1K	4	PRAIRIE BR./ EXP PB-1182	1	1C	2,4
MUSTANG/ M-190NRR	1.9	1C	4	PRAIRIE BR./ EXP PB-1189	1.8	0	6
MUSTANG/ M-199RR	1.9	0	4,6	PRAIRIE BR./ EXP PB-1470	1.9	0	6
MUSTANG/ M-207RR	2	0	5	PRAIRIE BR./ EXP PB-2024	2.4	0	5
MUSTANG/ M-209NRR	2	0	5,7	PRAIRIE BR./ EXP PB-2082	1.9	0	2,4,6
MUSTANG/ M-217NRR	2.1	1K	5	PRAIRIE BR./ EXP PB-2083	1.9	0	6
MUSTANG/ M-219RR	2.1	0	5,7	PRAIRIE BR./ EXP PB-2086	2.6	0	7
MUSTANG/ M-237RR	2.3	1K	7	PRAIRIE BR./ EXP PB-2182	2.2	1K	5
MUSTANG/ M-246NRR	2.4	0	7	PRAIRIE BR./ EXP PB-2282	1.9	1K	6
MUSTANG/ M-264RR	2.6	1K	7	PRAIRIE BR./ PB-0738RR	0.7	1K	1
MUSTANG/ M-277NRR	2.7	0	7	PRAIRIE BR./ PB-0923RR	0.9	1K	1
MUSTANG/ M-318RR	3.1	1C	7	PRAIRIE BR./ PB-0936RR	0.9	0	1
MUSTANG/M-115RR	1.1	1C	2,4	PRAIRIE BR./ PB-0954RR	0.9	0	1
NORTHSTAR/ NS 1012RR	1	NR	2	PRAIRIE BR./ PB-1337RR	1.3	0	2,4
NORTHSTAR/ NS 1212RR	1.2	NR	2	PRAIRIE BR./ PB-1358RR	1.2	0	2
NORTHSTAR/ NS 1311RR	1.3	NR	2	PRAIRIE BR./ PB-1578NRR	1.5	1K	2,4
NORTHSTAR/ NS 1423RR	1.4	NR	2	PRAIRIE BR./ PB-1597RR	1.5	0	2,4
NUTECH/ 6105	0.9	1K	1,3	PRAIRIE BR./ PB-1607RR	1.6	1K	2
NUTECH/ 6133	1.3	NR	2,4	PRAIRIE BR./ PB-1754RR	1.7	0	2,4
NUTECH/ 6134	1.3	NR	2	PRAIRIE BR./ PB-1918RR	1.8	0	2,4,6
NUTECH/ 6156	1.5	NR	2,4	PRAIRIE BR./ PB-1954RR	1.9	0	2,4,6
NUTECH/ 6193	1.9	NR	4,6	PRAIRIE BR./ PB-1956RR	1.9	1C	2,4,6
NUTECH/ 6211	2.1	NR	5,7	PRAIRIE BR./ PB-2058NRR	1.9	1K	4,6
NUTECH/ 6212	2.1	NR	5	PRAIRIE BR./ PB-2117NRR	2.1	0	5
NUTECH/ 6224	2.3	NR	7	PRAIRIE BR./ PB-2147RR	2.1	0	5
NUTECH/ 6242	2.4	NR	5	PRAIRIE BR./ PB-2207NRR	2.2	1K	5,7
NUTECH/ 6242	2.5	NR	7	PRAIRIE BR./ PB-2243RR	2.2	1K	5,7
NUTECH/ 7154	1.5	NR	2	PRAIRIE BR./ PB-2337NRR	2.3	1K	5
NUTECH/ 7176	1.8	NR	6	PRAIRIE BR./ PB-2421RR	2.4	1K	5,7
NUTECH/ 7251	2.5	NR	7	PRAIRIE BR./ PB-2515RR	2.5	1K	5,7
NUTECH/ 7274	2.7	NR	7	PRAIRIE BR./ PB-2558NRR	2.5	1K	5,7
PRAIRIE BR./ PB-2565RR	2.5	1C	7	SODAK GEN./ 1161RR/SCN	1.6	1A	2,4,6
PRAIRIE BR./ PB-2698NRR	2.6	1K	7	STINE/ 1008-4	1	0	2
PRAIRIE BR./ PB-2897NRR	2.8	1C	7	STINE/ 1108-4	1.1	0	2,4
PRAIRIE BR./ PB-3058NRR	2.9	1C	7	STINE/ 1568-4	1.5	0	2,4
PROSEED/ 61-00	1	0	2	STINE/ 2432-94	2.4	1C	7
PROSEED/ 80-90	0.9	0	1	STINE/ 2532-94	2.5	1C	7
PROSEED/ 81-30	1.3	0	2,4	THUNDER/ 2908RR	0.8	1K	1
PROSEED/ 81-50	1.5	1K	4	THUNDER/ 2910RR	1	NR	2
PROSEED/ 81-90	1.9	C3	6	THUNDER/ 2911RR	1.1	1C	4
PROSEED/ 82-00	2	1K	7	WENSMAN/ W 2090RR	0.9	0	1
RENK/ RS129NRR	1.2	1C	4	WENSMAN/ W 2108RR	1	0	2
RENK/ RS179NRR	1.7	NR	4	WENSMAN/ W 2126RR	1.2	0	2
RENK/ RS187NRR	1.8	1C	4	WENSMAN/ W 2152NRR	1.5	1K	4
RENK/ RS204NRR	2	1C	5	WENSMAN/ W 2166RR	1.6	0	2,4
RENK/ RS239RR	2.3	1K	7	WENSMAN/ W 2195NRR	1.9	1K	4
RENK/ RS259NRR	2.5	NR	7	WENSMAN/ W 2196RR	1.9	0	4,6
RENK/ RS277NRR	2.7	NR	7	WENSMAN/ W 2222NRR	2.2	1K	7
SEEDS 2000/ 2090RR	0.9	NR	1	ZILLER/ BT 7156NR	1.5	0	2,4
SEEDS 2000/ 2120RR	1.2	1K	2	ZILLER/ BT 7208NR	2	1C	5,7
SODAK GEN./ 1071RR	0.7	NR	1,3	ZILLER/ BT 7217NR	2.1	1K	7
SODAK GEN./ 1093RR	0.9	NR	1,3	ZILLER/ EXP 37411NR	1.2	1C	2
SODAK GEN./ 1111RR	1.1	1A	2,4,6				

Table E. Mailing addresses of entrants in the 2008 soybean trials.

Entrant name (brand name), mailing address
Dairyland Seed Co., Inc. (Dairyland), PO Box 958, West Bend, WI 53095
Gold Country Seed Inc. (Gold Country Seed), 16506 Hwy 15 N., PO Box 604, Hutchinson, MN 55350
G2 Genetics (G2), 36131 Hwy 69, Forest City, IA 50436
Hefty Seed Co. (Hefty), 47504 252nd St., Baltic, SD 57003
JGL, Inc. (JGL), 1550 Pidco Dr., Plymouth, IN 46563
Kaltenberg Seeds (Kaltenberg), 5506 State Rd 19, PO Box 278, Waunakee, WI 53597-0278
Kruger Seed Co. (Kruger), 33938 160th Ave., PO Box A, Dike, IA 50624
Latham Seed Co. (Latham), 131 180th St, Alexander, IA 50420-8028
Monsanto (Asgrow), 102 West Carol Ave., Cortland, IL 60112
Mustang Seeds (Mustang), PO Box 466, Madison, SD 57042
Northstar Genetics (Northstar), 14602 50th St. SE, Leonard, ND 58052
Nutech Seed, LLC (Nutech), 36131 Hwy 69, Forest City, IA 50436
Pioneer Hi-Bred Intl. (Pioneer), 151 St. Andrews Ct., Mankato, MN 56001
Prairie Brand Seed Co. (Prairie Brand), 15 X Ave., Story City, IA 50248
Proseed (Proseed), 705 East Brewster St., Harvey, ND 58341
Renk Seed Co. (Renk), 6809 Wilburn Rd., Sun Prairie, WI 53590
Richland Organics, Inc. (Richland Organics), 100 North Tenth St, Breckenridge, MN 56520
SDSU Soybean Breeding Program (Experimentals), Plant Science Dept, Brookings, SD 57007
Seeds 2000 (Seeds 2000), PO Box 200, Breckenridge, MN 56520
Sodak Genetics (Sodak), 1200 North Campus Dr., Brookings, SD 57007
Stine Seed Co.(Stine), 22555 Laredo Trail, Adel, IA 50003
Thunder Seed Inc. (Thunder), 3008 210th St. W., Hawley, MN 56549
Wensman Seed Co.(Wensman), 67784 330th St., Watkins, MN 55389
Ziller Seed Co.Inc.(Ziller), 76374 380th St., Bird Island, MN 55310

Table F. Explanation of yield and lodging score table footnotes.

No.	Explanation of footnotes
[1]	Days to maturity (DTM) – the number of days from seeding to 95% brown pod. If data is missing, the site was likely exposed to an early frost that prevented the collection of valid maturity data.
[2]	Lodging scores: 0= all plants erect, 3= 50% of plants lodged at 45°-angle, 5= all plants flat.
[3]	Least Significant Difference (LSD 0.05) – the difference two averages within a column must equal or exceed to be significantly different from one another at the 0.05 level of probability. If the difference is less than the LSD value the difference between the averages is not significant (NS).
[4]	TPG-avg. – the minimum value within a column that entry yield averages must equal or exceed to qualify for the TPG.
[5]	TPG-avg. – the maximum value within a column that lodging score averages must equal or be less than to qualify for the TPG.
[6]	Coefficient of variation (C.V.) - the percent of experimental error associated with a test trial. Ideally, the CV value for yield is less than 15%. Values less than 5% tend to be less common while values of 6 to 15% are more common. Occasionally, values exceed 15%; this means the trial contained too much experimental error to be a valid test; thus, no data for that table column is not reported.

Table 1a. Glyphosate-resistant maturity group-0 soybean variety yield and lodging averages- northern South Dakota locations, 2007-2008. Entries are sorted by 2-Yr then by 2008 zone yield.

Brand/Variety	DTM [1]	Northern Averages by Location						Northern Zone Averages		
		South Shore			Warner			Yield-bu/a		2008 Lodg. (1-5) [2]
		Yield-bu/a		2008 Lodg. (1-5) [2]	Yield-bu/a		2008 Lodg. (1-5) [2]	2-Yr	2008	2008 Lodg. (1-5) [2]
		2-Yr	2008		2-Yr	2008				
NUTECH/ NT-0886RR	116	54	52	1	52	49	2	53	51	1
KRUGER/ K-072+RR	116	53	51	1	51	49	2	52	50	2
NUTECH/ NT-6105	116	49	46	1	51	46	2	50	46	1
KRUGER/ K-091RR	115	50	46	2	49	42	2	50	44	2
NUTECH/ NT-0990RR	114	52	50	2	46	40	2	49	45	2
PRAIRIE/ BR. PB-0923RR	115	51	48	1	46	41	1	49	45	1
PRAIRIE/ BR. PB-0936RR	114	50	46	2	47	42	2	49	44	2
SEEDS 2000/ 2090RR	116	50	46	1	46	41	2	48	44	1
MUSTANG/ M-096RR	115	46	39	2	49	45	3	48	42	2
MUSTANG/ M-095RR	114	47	43	3	47	44	3	47	44	3
WENSMAN/ W 2090RR	113	49	44	3	45	41	3	47	43	3
PRAIRIE/ BR. PB-0954RR	114	47	43	3	44	43	3	46	43	3
DAIRYLAND/ DSR-0903/RR	112	47	40	1	45	37	2	46	39	2
KRUGER/ K-042RR	111	46	40	1	43	38	3	45	39	2
ASGROW/ AG0808	113	.	42	2	.	44	3	.	43	3
PRAIRIE BR./ PB-0738RR	115	.	43	3	.	40	3	.	42	3
THUNDER/ 2908RR	114	.	44	2	.	38	3	.	41	3
HEFTY/ EXP089R	114	.	43	2	.	38	3	.	41	2
KRUGER/ K-058RR	112	.	44	2	.	37	3	.	41	2
KRUGER/ K-079RR	111	.	42	1	.	39	2	.	41	1
JGL/ EXP 603	116	.	42	3	.	40	4	.	41	4
JGL/ EXP 602	111	.	39	1	.	41	2	.	40	1
PROSEED/ 80-90	112	.	42	2	.	37	2	.	40	2
G-2 GENETICS/ 7095	112	.	39	1	.	39	2	.	39	1
SODAK GEN./ 1071RR	111	.	38	2	.	39	3	.	39	3
G-2 GENETICS/ 6099	112	.	38	2	.	38	3	.	38	3
SODAK GEN./ 1093RR	111	.	40	2	.	36	2	.	38	2
PRAIRIE BR./ EXP PB-01860	113	.	38	2	.	36	4	.	37	3
MUSTANG/ M-089RR	117	.	42	2	.	.	.	.	.	.
GOLD COUNTRY/ 2509RR	114	.	42	3	.	.	.	.	.	.
Test avg.:	114	49	43	2	47	41	2	48	42	2
High avg.:	117	54	52	3	52	49	4	53	51	4
Low avg.:	111	46	38	1	43	36	1	45	37	1
[3] Test LSD (.05):	.	NS	4	1	NS	4	1	*	*	*
[4] Min.TPG-avg.:	.	46	49	.	43	46	.	.	.	.
[5] Max.TPG-avg.:	.	.	.	1	.	.	1	.	.	.
[6] Test Coef. Var.:	.	4	6	6	6	6	22	.	.	.
No. Entries:	60	14	31	31	14	29	29	.	.	.

[1] DTM= days to maturity from seeding dates of May 31 at South Shore and May 27 at Warner.

Note that additional table footnotes are explained in Table F.

* There was a significant variety by location interaction for the yield and lodging variables. Therefore, evaluate these variables by using the 2-yr and 2008 yield and 2008 lodging columns for each location.

Table 1b. Glyphosate-resistant maturity group-0 soybean variety protein and oil averages- northern South Dakota locations, 2008. Entries are sorted by 2008 zone protein.

Brand/Variety	DTM*	Northern Averages by Location				Northern Zone Averages	
		South Shore		Warner		Protein %	Oil %
		Protein %	Oil %	Protein %	Oil %		
KRUGER/ K-079RR	111	42.1	18.5	41.7	17.7	41.9	18.1
KRUGER/ K-058RR	112	41.8	18.4	40.2	17.9	41.0	18.2
JGL/ EXP 602	111	41.3	18.4	39.8	17.9	40.6	18.2
SEEDS 2000/ 2090RR	116	40.8	17.9	40.3	17.4	40.6	17.6
SODAK GEN./ 1093RR	111	40.4	18.8	40.3	18.1	40.4	18.4
NUTECH/ NT-0990RR	114	40.2	18.3	40.2	17.8	40.2	18.0
PRAIRIE/ BR. PB-0936RR	114	40.2	18.4	40.0	17.9	40.1	18.2
KRUGER/ K-091RR	115	40.1	18.4	39.5	18.0	39.8	18.2
PRAIRIE/ BR. PB-0923RR	115	40.0	18.8	39.1	18.2	39.5	18.5
PROSEED/ 80-90	112	39.9	19.4	39.1	18.5	39.5	19.0
DAIRYLAND/ DSR-0903/RR	112	40.0	19.0	39.0	18.2	39.5	18.6
WENSMAN/ W 2090RR	113	39.8	19.0	39.1	18.1	39.5	18.6
MUSTANG/ M-095RR	114	40.2	19.3	38.6	18.4	39.4	18.9
KRUGER/ K-042RR	111	39.4	19.4	39.4	18.4	39.4	18.9
SODAK GEN./ 1071RR	111	40.1	18.9	38.2	17.4	39.1	18.2
KRUGER/ K-072+RR	116	39.5	19.1	38.7	18.6	39.1	18.8
JGL/ EXP 603	116	39.8	17.8	38.2	17.4	39.0	17.6
G-2 GENETICS/ 6099	112	39.2	18.2	38.8	17.8	39.0	18.0
PRAIRIE/ BR. PB-0954RR	114	39.7	19.3	38.1	18.8	38.9	19.0
G-2 GENETICS/ 7095	112	39.4	19.2	38.3	18.3	38.9	18.8
NUTECH/ NT-0886RR	116	39.7	18.9	37.1	18.1	38.4	18.5
MUSTANG/ M-096RR	115	38.9	18.9	37.7	19.3	38.3	19.1
NUTECH/ NT-6105	116	39.1	18.9	37.0	18.9	38.1	18.9
PRAIRIE BR./ PB-0738RR	115	38.2	19.0	37.4	18.0	37.8	18.5
HEFTY/ EXP089R	114	37.7	18.8	37.4	18.3	37.5	18.6
ASGROW/ AG0808	113	38.0	19.5	37.0	19.0	37.5	19.3
THUNDER/ 2908RR	114	37.9	18.9	36.8	18.0	37.4	18.5
PRAIRIE BR./ EXP PB-0186	113	36.6	20.0	36.1	19.1	36.4	19.5
MUSTANG/ M-089RR	117	37.5	18.7	.	.	.	.
GOLD COUNTRY/ 2509RR	114	39.6	18.9	.	.	.	.
Test avg.:	114	39.6	18.8	38.7	18.2	39.2	18.5
High avg.:	117	42.1	20.0	41.7	19.3	41.9	19.5
Low avg.:	111	36.6	17.8	36.1	17.4	36.4	17.6
[3] LSD(.05):		0.7	0.5	1.7	0.9	0.9	0.5
[4] Min.TPG-avg.:		41.5	19.6	40.1	18.5	41.1	19.1
[6] Coef. Var.:		1	2	3	3	2	2
No. Entries:	60	31	31	29	29	58	58

[1] DTM= days to maturity from seeding dates of May 31 at South Shore and May 27 at Warner.

Note that additional table footnotes are explained in Table F.

Table 2a. Glyphosate-resistant maturity group-I soybean variety yield and lodging averages- northern South Dakota locations, 2007-2008. Entries are sorted by 2-Yr then by 2008 zone yield.

Brand/Variety	DTM [1]	Northern Averages by Location						Northern Zone Averages		
		South Shore			Warner			Yield-bu/a		2008 Lodg.
		Yield-bu/a		2008 Lodg. (1-5) [2]	Yield-bu/a		2008 Lodg. (1-5) [2]	2-Yr	2008	2008 Lodg. (1-5) [2]
		2-Yr	2008		2-Yr	2008				
HEFTY/ EXP168R	114	52	49	1	51	40	2	52	45	2
WENSMAN/ W 2166RR	114	53	50	1	51	39	2	52	45	2
MUSTANG/ M-168RR	114	52	48	1	51	39	2	52	44	2
STINE/ 1008-4	115	52	49	1	50	42	1	51	46	1
HEFTY/ 117R	114	50	46	1	52	43	3	51	45	2
PRAIRIE/ BR. PB-1597RR	115	52	48	1	48	40	2	50	44	2
NUTECH/ NT-7205+RR	119	50	47	1	49	37	2	50	42	2
WENSMAN/ W 2108RR	114	51	46	1	48	38	3	50	42	2
PRAIRIE BR./ PB-1954RR	118	49	47	3	48	42	3	49	45	3
NORTHSTAR/ NS 1012RR	115	49	45	1	49	43	2	49	44	2
ASGROW/ AG1102	115	49	43	2	49	39	3	49	41	3
NUTECH/ NT-6133	114	50	46	1	48	36	3	49	41	2
PRAIRIE BR./ PB-1337RR	115	49	46	1	48	36	2	49	41	2
PRAIRIE BR./ PB-1754RR	118	49	47	1	47	39	2	48	43	2
ASGROW/ AG1702	117	50	46	1	46	36	2	48	41	2
ASGROW/ AG1403	115	48	47	1	47	35	2	48	41	2
KRUGER/ K-100RR	115	47	42	1	46	41	2	47	42	2
SEEDS 2000/ 2120RR	115	48	45	1	46	38	2	47	42	2
PRAIRIE/ BR. PB-1607RR	117	48	43	1	46	36	2	47	40	2
KRUGER/ K-170RR/SCN	119	46	45	2	46	42	2	46	44	2
KRUGER/ K-194RR	117	45	43	1	45	34	2	45	39	2
SODAK GEN./ 1161RR/SCN	115	46	43	3	44	34	3	45	39	3
KRUGER/ K-142RR	115	47	43	2	43	33	2	45	38	2
PRAIRIE/ BR. PB-1956RR	121	42	42	2	47	32	3	45	37	2
SODAK GEN./ 1111RR	114	42	33	3	44	37	4	43	35	3
NUTECH/ 6156	116	.	48	1	.	44	2	.	46	1
PROSEED/ 81-30	114	.	47	1	.	42	3	.	45	2
THUNDER/ 2910RR	114	.	47	1	.	41	3	.	44	2
STINE/ 1108-4	114	.	45	1	48	43	3	.	44	2
PIONEER/ 91Y90	118	.	48	1	.	37	3	.	43	2
KRUGER/ K-163RR	118	.	48	1	.	37	2	.	43	2
PRAIRIE BR./ EXP PB-2082	122	.	47	2	.	39	2	.	43	2
PRAIRIE BR./ PB-1578NRR	117	.	47	1	.	39	2	.	43	1
PROSEED/ 61-00	115	.	45	1	.	41	3	.	43	2
ASGROW/ AG1802	118	.	45	1	.	38	2	.	42	1
MUSTANG/ M-139RR	114	.	46	2	.	38	3	.	42	3
KRUGER/ K-167RR/SCN	118	.	47	1	.	37	2	.	42	2
KRUGER/ EXP KX1987R	118	.	45	3	.	39	2	.	42	2
PRAIRIE BR./ PB-1358RR	115	.	45	2	.	38	3	.	42	2
NUTECH/ 6134	114	.	46	1	.	36	3	.	41	2
NUTECH / 7154	117	.	45	1	.	37	2	.	41	2
HEFTY/ EXP139R	115	.	46	2	.	36	3	.	41	2
KRUGER/ K-129RR	114	.	47	2	.	35	3	.	41	2
KRUGER/ K-147RR/SCN	116	.	42	2	.	39	2	.	41	2
PRAIRIE BR./ PB-1918RR	118	.	46	2	.	36	2	.	41	2
HEFTY/ EXP159RN	117	.	44	1	.	35	2	.	40	1
G-2 GENETICS/ 7151	114	.	44	2	.	35	3	.	40	3
NORTHSTAR/ NS 1212RR	115	.	43	1	.	36	2	.	40	2
DAIRYLAND/ DST14-002/RR	116	.	43	1	.	35	2	.	39	2

Table 2a. Glyphosate-resistant maturity group-I soybean variety yield and lodging averages- northern South Dakota locations, 2007-2008 (continued).

Brand/Variety	DTM [1]	Northern Averages by Location						Northern Zone Averages		
		South Shore			Warner			Yield-bu/a		2008 Lodg. (1-5) [2]
		Yield-bu/a		2008 Lodg. (1-5) [2]	Yield-bu/a		2008 Lodg. (1-5) [2]	2-Yr	2008	2008 Lodg. (1-5) [2]
		2-Yr	2008		2-Yr	2008				
PRAIRIE BR/. EXP PB-1182	116	.	41	3	.	36	4	.	39	3
WENSMAN/ W 2126RR	114	.	41	2	.	36	3	.	39	3
NORTHSTAR/ NS 1423RR	116	.	42	2	.	35	2	.	39	2
KRUGER/ K-189RR/SCN	118	.	41	1	.	34	1	.	38	1
ASGROW/ AG1406	116	.	43	1	.	31	3	.	37	2
DAIRYLAND/ DSR-1055/RR	112	.	38	2	.	32	3	.	35	2
MUSTANG/ M-115RR	114	.	.	.	47	42	4	.	.	.
GOLD COUNTRY/ 2713RR	118	49	46	1	.	.	.	.	.	.
GOLD COUNTRY/ 2815RR	116	50	48	1	.	.	.	.	.	.
GOLD COUNTRY/ 1913RR	114	.	48	1	.	.	.	.	.	.
GOLD COUNTRY/ 1915NRR	119	.	43	1	.	.	.	.	.	.
DAIRYLAND/ DST10-000/RR	117	.	42	3	.	.	.	.	.	.
DAIRYLAND/ DSR1302RRSTS	114	.	.	.	.	35	3	.	.	.
STINE/ 1568-4	116	.	.	.	.	37	2	.	.	.
ZILLER/ BT 7156NR	117	46	43	2	.	.	.	.	.	.
ZILLER/ EXP 37411NR	117	.	41	3	.	.	.	.	.	.
NORTHSTAR/ NS 1311RR	115	49	43	1	.	.	.	.	.	.
Test avg. :	116	48	45	1	48	38	2	48	41	2
High avg. :	122	53	50	3	52	44	4	52	46	3
Low avg. :	112	42	33	1	43	31	1	43	34	1
[3] Test LSD (.05):	.	5	3	1	NS	6	1	NS	*	*
[4] Min.TPG-avg. :	.	49	48	.	43	39	.	43	.	.
[5] Max.TPG-avg. :	.	.	.	1	.	.	1	.	.	.
[6] Test Coef. Var.:	.	4	4	31	7	9	19	6	.	.
No. Entries:	125	30	65	65	28	60	60	52	.	.

[1] DTM= days to maturity from seeding dates of May 31 at South Shore and May 27 at Warner.

Note that additional table footnotes are explained in Table F.

* There was a significant variety by location interaction for yield and lodging in 2008. Therefore, evaluate these variables by using the 2008 yield and lodging columns for each location.

Table 2b. Glyphosate-resistant maturity group-I soybean variety protein and oil averages- northern South Dakota locations, 2008. Entries are sorted by 2008 zone protein.

Brand/Variety	DTM*	Northern Averages by Location				Northern Zone Averages	
		South Shore		Warner		Protein %	Oil %
		Protein %	Oil %	Protein %	Oil %		
WENSMAN/ W 2108RR	114	39.5	18.2	40.7	17.1	40.1	17.7
PRAIRIE/ BR. PB-1754RR	118	40.3	18.5	39.7	17.6	40.0	18.0
SEEDS 2000/ 2120RR	115	39.9	18.1	39.8	16.5	39.8	17.3
NUTECH/ 6134	114	39.8	19.0	39.8	17.9	39.8	18.5
NORTHSTAR/ NS 1212RR	115	39.4	17.9	39.9	16.1	39.7	17.0
PROSEED/ 61-00	115	39.6	18.5	39.7	17.5	39.7	18.0
MUSTANG/ M-139RR	114	39.7	18.6	39.4	18.4	39.6	18.5
NUTECH/ NT-6133	114	38.9	18.4	40.2	16.8	39.5	17.6
HEFTY/ EXP139R	115	39.6	18.6	39.4	18.1	39.5	18.3
KRUGER/ K-129RR	114	40.1	18.7	39.0	17.5	39.5	18.1
PRAIRIE/ BR. PB-1337RR	115	39.1	18.1	39.9	16.6	39.5	17.4
NORTHSTAR/ NS 1012RR	115	39.6	18.6	39.4	18.1	39.5	18.3
PRAIRIE BR./ PB-1358RR	115	39.6	18.8	39.2	18.2	39.4	18.5
STINE/ 1108-4	114	39.4	18.4	39.3	18.1	39.4	18.2
DAIRYLAND/ DST14-002/RR	116	39.5	18.7	39.3	17.9	39.4	18.3
G-2 GENETICS/ 7151	114	39.2	18.3	39.5	16.9	39.3	17.6
THUNDER/ 2910RR	114	39.5	18.7	39.1	17.8	39.3	18.3
STINE/ 1008-4	115	38.8	18.8	39.8	17.6	39.3	18.2
PRAIRIE BR./ EXP PB-2082	122	40.4	20.9	38.1	18.5	39.3	19.7
PROSEED/ 81-30	114	39.8	18.6	38.7	18.3	39.2	18.5
PRAIRIE/ BR. PB-1956RR	121	40.7	21.1	37.7	19.9	39.2	20.5
ASGROW/ AG1406	116	39.4	19.0	39.0	18.0	39.2	18.5
KRUGER/ K-189RR/SCN	118	40.1	18.5	38.2	18.1	39.2	18.3
PRAIRIE/ BR. PB-1607RR	117	39.3	19.1	38.9	17.2	39.1	18.1
WENSMAN/ W 2126RR	114	38.7	18.6	39.5	17.7	39.1	18.2
PIONEER/ 91Y90	118	39.2	19.3	39.0	17.5	39.1	18.4
KRUGER/ K-142RR	115	38.7	19.1	39.5	17.5	39.1	18.3
HEFTY/ 117R	114	39.0	18.3	39.1	17.9	39.1	18.1
PRAIRIE BR./ EXP PB-1182	116	39.3	17.1	38.8	17.1	39.1	17.1
KRUGER/ K-170RR/SCN	119	40.4	19.7	37.6	18.8	39.0	19.2
ASGROW/ AG1702	117	38.7	18.7	39.1	17.7	38.9	18.2
SODAK GEN./ 1161RR/SCN	115	39.3	18.8	38.3	17.9	38.8	18.3
ASGROW/ AG1403	115	38.4	18.5	39.2	16.8	38.8	17.7
KRUGER/ EXPKX1987R	118	39.7	19.1	37.8	18.7	38.8	18.9
HEFTY/ EXP168R	114	38.1	19.1	39.1	17.6	38.6	18.4
KRUGER/ K-163RR	118	38.7	19.3	38.4	18.1	38.6	18.7
PRAIRIE BR./ PB-1918RR	118	38.8	19.1	38.2	18.6	38.5	18.9
KRUGER/ K-147RR/SCN	116	38.9	19.2	38.1	18.4	38.5	18.8
MUSTANG/ M-168RR	114	38.2	19.3	38.8	17.9	38.5	18.6
NORTHSTAR/ NS 1423RR	116	38.6	19.2	38.3	17.9	38.5	18.6
PRAIRIE/ BR. PB-1954RR	118	38.9	19.2	37.7	18.3	38.3	18.8
PRAIRIE/ BR. PB-1597RR	115	38.1	19.2	38.4	18.1	38.3	18.7
WENSMAN/ W 2166RR	114	37.8	19.2	38.4	18.1	38.1	18.6
HEFTY/ EXP159RN	117	37.2	19.5	38.7	17.9	38.0	18.7

Table 2b. Glyphosate-resistant maturity group-I soybean variety protein and oil averages- northern South Dakota locations, 2008 (continued).

Brand/Variety	DTM*	Northern Averages by Location				Northern Zone Averages	
		South Shore		Warner		Protein %	Oil %
		Protein %	Oil %	Protein %	Oil %		
ASGROW/ AG1802	118	38.3	19.7	37.5	18.7	37.9	19.2
KRUGER/ K-100RR	115	38.4	18.8	37.3	18.9	37.9	18.9
DAIRYLAND/ DSR-1055/RR	112	37.5	18.9	38.2	18.0	37.9	18.4
NUTECH/ 7154	117	38.2	19.4	37.4	18.6	37.8	19.0
KRUGER/ K-194RR	117	38.1	18.6	37.4	17.9	37.8	18.3
PRAIRIE BR./ PB-1578NRR	117	38.2	19.6	36.8	18.6	37.5	19.1
NUTECH/ 6156	116	37.9	19.3	37.1	18.9	37.5	19.1
KRUGER/ K-167RR/SCN	118	38.2	20.1	36.7	19.1	37.5	19.6
ASGROW/ AG1102	115	37.6	18.5	37.2	18.3	37.4	18.4
NUTECH/ NT-7205+RR	119	37.9	19.6	36.6	19.0	37.3	19.3
SODAK GEN./ 1111RR	114	37.5	18.9	35.9	19.2	36.7	19.1
MUSTANG/M-115RR	114	.	.	36.5	19.1	.	.
GOLD/ COUNTRY 2713RR	118	38.6	18.9	.	.	.	.
GOLD/ COUNTRY 2815RR	116	37.6	19.3	.	.	.	.
GOLD COUNTRY/ 1913RR	114	39.6	18.6	.	.	.	.
GOLD COUNTRY/ 1915NRR	119	38.2	19.8	.	.	.	.
DAIRYLAND/ DST10-000/RR	117	39.4	18.6	.	.	.	.
DAIRYLAND/ DSR1302RRSTS	114	.	.	38.4	17.4	.	.
STINE/ 1568-4	116	.	.	38.3	17.8	.	.
ZILLER/ BT 7156NR	117	40.5	18.4	.	.	.	.
ZILLER/ EXP 37411NR	117	39.5	17.8	.	.	.	.
NORTHSTAR/ NS 1311RR	115	38.9	19.3	.	.	.	.
Test avg. :	116	39.0	18.9	38.5	18.0	38.8	18.5
High avg. :	122	40.7	21.1	40.7	19.9	40.1	20.5
Low avg. :	112	37.2	17.1	35.9	16.1	36.7	17.0
[3] LSD(.05) :		0.9	0.5	1.7	1.1	1.0	0.6
[4] Min.TPG-avg. :		39.9	20.7	39.1	18.9	39.2	20.0
[6] Coef. Var. :		1	2	3	4	2	3
No. Entries :	125	65	65	60	60	114	114

[1] DTM= days to maturity from seeding dates of May 31 at South Shore and May 27 at Warner.
Note that additional table footnotes are explained in Table F.

Table 3a. Glyphosate-resistant maturity group-0 soybean variety yield and lodging averages- central South Dakota locations, 2007-2008. Entries are sorted by 2-Yr then by 2008 zone yield.

Brand/Variety	DTM [1]	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Yield-bu/a		2008 Lodg.
		Yield-bu/a		2008 Lodg. (1-5) [2]	Yield-bu/a		2008 Lodg. (1-5) [2]	2-Yr	2008	2008 Lodg. (1-5) [2]
		2-Yr	2008		2-Yr	2008				
KRUGER/ K-072+RR	115	54	45	1	61	58	1	58	52	1
NUTECH/ 6105	116	54	47	1	60	56	1	57	52	1
KRUGER/ K-091RR	113	53	46	1	58	55	1	56	51	1
MUSTANG/ M-096RR	114	53	47	1	58	52	2	56	50	2
NUTECH/ NT-0990	113	54	46	1	56	53	1	55	50	1
MUSTANG/ M-095RR	113	53	43	1	56	52	2	55	48	2
KRUGER/ K-042RR	110	49	42	1	56	50	1	53	46	1
KRUGER/ K-058RR	112	.	44	1	.	52	2	.	48	2
KRUGER/ K-079RR	111	.	44	1	.	52	1	.	48	1
JGL/ EXP 602	109	.	43	1	.	50	1	.	47	1
SODAK GEN./ 1071RR	111	.	40	1	.	49	2	.	45	2
JGL/ EXP 603	117	.	40	1	.	47	3	.	44	2
G-2 GENETICS/ 6099	111	.	41	1	.	45	2	.	43	2
SODAK GEN./ 1093RR	112	.	38	1	.	48	2	.	43	1
Test avg. :	113	52	42	1	57	50	2	54	47	1
High avg. :	117	54	47	1	61	58	3	58	52	2
Low avg. :	109	49	38	1	56	45	1	53	43	1
[3] Test LSD (.05):	.	4	4	0	5	5	1	2	3	1
[4] Min.TPG-avg. :	.	51	44	.	57	54	.	57	50	.
[5] Max.TPG-avg. :	.	.	.	1	.	.	1	.	.	1
[6] Test Coef. Var.:	.	5	6	0	4	5	33	4	6	30

[1] DTM= days to maturity from seeding dates of May 23 at Brookings and May 28 at Bancroft.
 Note that additional table footnotes are explained in Table F.

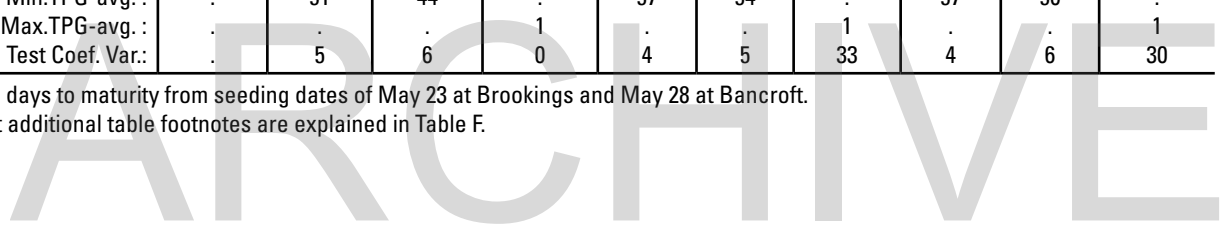


Table 3b. Glyphosate-resistant maturity group-0 soybean variety protein and oil averages-central South Dakota locations, 2008. Entries are sorted by 2008 zone protein.

Brand/Variety	DTM*	Central Averages by Location				Northern Zone Averages	
		Brookings		Bancroft		Protein %	Oil %
		Protein %	Oil %	Protein %	Oil %		
KRUGER/ K-079RR	111	41.8	18.6	43.5	19.9	42.7	19.3
JGL/ EXP 602	109	40.7	18.5	42.7	19.3	41.7	18.9
KRUGER/ K-058RR	112	40.6	19.1	42.4	20.4	41.5	19.8
SODAK GEN./ 1093RR	112	40.2	19.2	42.0	19.7	41.1	19.5
SODAK GEN./ 1071RR	111	39.6	19.2	42.4	20.3	41.0	19.8
KRUGER/ K-042RR	110	40.6	19.4	40.7	20.9	40.6	20.1
MUSTANG/ M-095RR	113	40.4	18.8	40.5	20.3	40.5	19.6
JGL/ EXP 603	117	39.8	17.5	41.0	19.5	40.4	18.5
G-2 GENETICS/ 6099	111	39.6	18.2	41.1	19.5	40.3	18.8
NUTECH/ NT-0990	113	39.4	19.5	41.0	19.5	40.2	19.5
KRUGER/ K-091RR	113	39.0	19.6	41.1	20.0	40.1	19.8
MUSTANG/ M-096RR	114	39.1	19.6	40.6	20.4	39.9	20.0
NUTECH/ 6105	116	38.8	19.2	39.8	20.3	39.3	19.8
KRUGER/ K-072+RR	115	33.8	19.0	41.2	20.3	37.5	19.6
Test avg. :	113	39.4	19.0	41.1	20.2	40.3	19.6
High avg. :	117	41.8	20.3	43.5	21.5	42.7	20.7
Low avg. :	109	33.8	17.5	39.1	19.3	37.5	18.5
[3] LSD(.05) :		4.0	1.2	1.2	0.7	2.0	0.7
[4] Min.TPG-avg. :		37.9	19.2	42.4	20.9	40.8	20.1
[6] Coef. Var. :		6	4	2	2	5	3
No. Entries :	38	19	19	19	19	38	38

[1] DTM= days to maturity from seeding dates of May 23 at Brookings and May 28 at Bancroft.
 Note that additional table footnotes are explained in Table F.

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Table 4a. Glyphosate-resistant maturity group-I soybean variety yield and lodging averages- central South Dakota locations, 2007-2008. Entries are sorted by 2-Yr then by 2008 zone yield.

Brand/Variety	DTM [1]	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Yield-bu/a		2008 Lodg. (1-5) [2]
		Yield-bu/a		2008 Lodg. (1-5) [2]	Yield-bu/a		2008 Lodg. (1-5) [2]	2-Yr	2008	
		2-Yr	2008		2-Yr	2008				
HEFTY/ 168R	115	58	47	1	59	56	1	59	52	1
MUSTANG/ M-168RR	115	56	47	1	59	55	1	58	51	1
WENSMAN/ W 2166RR	117	56	47	1	57	56	1	57	52	1
KRUGER/ K-100RR	116	54	45	1	59	56	1	57	51	1
PRAIRIE BR./ PB-1337RR	117	54	46	1	59	56	2	57	51	2
NUTECH/ 6156	116	55	46	1	58	54	2	57	50	1
PRAIRIE BR./ PB-1597RR	116	55	43	1	59	54	2	57	49	1
ASGROW/ AG1403	118	53	47	1	59	56	2	56	52	1
KRUGER/ K-195+RR/SCN	119	56	49	1	56	52	1	56	51	1
WENSMAN/ W 2195NRR	119	55	46	1	57	55	1	56	51	1
NUTECH/ 6133	117	53	43	1	59	55	2	56	49	2
ASGROW/ AG1102	117	50	45	1	59	57	2	55	51	2
NUTECH/ NT-6205+RR	121	52	47	1	56	49	1	54	48	1
NUTECH/ NT-7193+RR/SCN	121	54	45	1	54	51	1	54	48	1
KRUGER/ K-170RR/SCN	120	54	45	1	53	47	2	54	46	2
ASGROW/ AG1702	117	54	44	1	52	48	1	53	46	1
PRAIRIE BR./ PB-1754RR	118	52	43	1	53	47	2	53	45	2
PRAIRIE BR./ PB-1954RR	119	49	42	1	54	51	3	52	47	2
PRAIRIE BR./ PB-1956RR	121	51	42	1	53	49	3	52	46	2
SODAK GEN./ 1161RR/SCN	116	50	43	1	53	48	3	52	46	2
KRUGER/ K-194RR	119	52	42	1	52	47	2	52	45	1
DAIRYLAND/ DSR-1601/RR	118	50	40	1	54	49	2	52	45	2
DAIRYLAND/ DSR1850RRSTS	120	50	40	1	54	50	2	52	45	2
KRUGER/ K-142RR	116	48	41	1	54	49	2	51	45	1
ASGROW/ AG2002	120	52	42	1	48	41	2	50	42	2
SODAK GEN./ 1111RR	114	47	41	1	51	49	3	49	45	2
ASGROW/ AG1802	117	.	46	1	.	55	1	.	51	1
STINE/ 1108-4	115	.	43	1	.	57	2	.	50	2
PRAIRIE BR./ EXP PB-2082	122	.	44	1	.	56	1	.	50	1
PRAIRIE BR./ PB-1578NRR	119	.	47	1	.	53	2	.	50	1
PROSEED/ 81-50	117	.	47	1	.	53	1	.	50	1
MUSTANG/ M-159NRR	118	.	46	1	.	52	1	.	49	1
THUNDER/ 2911RR	118	.	43	1	.	54	4	.	49	3
NUTECH/ 6193	122	.	42	1	.	56	2	.	49	2
HEFTY/ EXP159RN	119	.	46	1	.	51	1	.	49	1
KRUGER/ K-163RR	118	.	45	1	.	53	1	.	49	1
KRUGER/ K-167RR/SCN	118	.	45	1	.	53	2	.	49	1
LATHAM/ L1983R	118	.	45	1	.	52	1	.	49	1
STINE/ 1568-4	119	.	45	1	.	53	1	.	49	1
PRAIRIE BR./ PB-2058NRR	119	.	48	1	.	50	1	.	49	1
WENSMAN/ W 2152NRR	117	.	44	1	.	54	1	.	49	1
MUSTANG/ M-177NRR	117	.	43	1	.	53	1	.	48	1
KRUGER/ K-129RR	114	.	43	1	.	53	2	.	48	1
KRUGER/ EXPKX1987R	120	.	45	1	.	51	2	.	48	2

Table 4a. Glyphosate-resistant maturity group-I soybean variety yield and lodging averages- central South Dakota locations, 2007-2008 (continued).

Brand/Variety	DTM [1]	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Yield-bu/a		2008 Lodg. (1-5) [2]
		Yield-bu/a		2008 Lodg. (1-5) [2]	Yield-bu/a		2008 Lodg. (1-5) [2]	2-Yr	2008	
		2-Yr	2008		2-Yr	2008				
PRAIRIE BR./ EXP PB-1170	120	.	45	1	.	50	1	.	48	1
PRAIRIE BR./ PB-1918RR	121	.	44	1	.	52	2	.	48	1
ASGROW/ AG1406	116	.	42	1	.	51	2	.	47	2
MUSTANG/ M-199RR	121	.	44	1	.	49	3	.	47	2
PIONEER/ 91Y90	117	.	41	1	.	52	3	.	47	2
HEFTY/ EXP179RN	119	.	43	1	.	51	2	.	47	2
KRUGER/ K-189RR/SCN	120	.	43	1	.	50	1	.	47	1
LATHAM/ L1738R	118	.	45	1	.	49	2	.	47	2
JGL/ EXP 601	119	.	44	1	.	49	3	.	47	2
PRAIRIE BR./ EXP PB-1182	117	.	43	1	.	51	4	.	47	2
PROSEED/ 81-30	115	.	42	1	.	51	2	.	47	1
HEFTY/ EXP199R	119	.	43	1	.	49	2	.	46	2
WENSMAN/ W 2196RR	120	.	43	1	.	48	2	.	46	2
MUSTANG/ M-190NRR	121	.	43	1	.	46	2	.	45	2
G-2 GENETICS/ 7186	115	.	43	1	.	46	3	.	45	2
NUTECH/ NT-1808/SCN RR	120	.	43	1	.	44	1	.	44	1
G-2 GENETICS/ 7151	115	.	43	1	.	44	3	.	44	2
MUSTANG/M-115RR	116	.	.	.	53	52	3	.	.	.
GOLD COUNTRY/ 2815RR	120	57	49	1	.	.	.	.	.	.
GOLD COUNTRY/ 1915NRR	119	.	44	1	.	.	.	.	.	.
GOLD COUNTRY/ 1918RR	122	.	44	1	.	.	.	.	.	.
KALTENBERG/ KB196RR	123	52	43	1	.	.	.	.	.	.
KALTENBERG/ KB1809RR	124	.	43	1	.	.	.	.	.	.
ZILLER/ BT 7156NR	120	52	42	1	.	.	.	.	.	.
RENK/ RS187NRR	120	54	45	1	.	.	.	.	.	.
RENK/ RS179NRR	121	.	44	1	.	.	.	.	.	.
RENK/ RS129NRR	118	.	43	1	.	.	.	.	.	.
Test avg.:	118	53	44	1	55	51	2	54	48	1
High avg.:	124	58	49	1	59	57	4	59	52	3
Low avg.:	112	47	40	1	48	41	1	49	41	1
[3] Test LSD (.05):	.	5	4	0	5	5	1	*	*	*
[4] Min.TPG-avg.:	.	54	46	.	55	53	.	.	.	.
[5] Max.TPG-avg.:	.	.	.	1	.	.	1	.	.	.
[6] Test Coef. Var.:	.	5	6	0	6	6	1	.	.	.

[1] DTM= days to maturity from seeding dates of May 23 at Brookings and May 28 at Bancroft.

Note that additional table footnotes are explained in Table F.

* There was a significant variety by location interaction for the yield and lodging variables. Therefore, evaluate these variables by using the 2-yr and 2008 yield and 2008 lodging columns for each location.

Table 4b. Glyphosate-resistant maturity group-I soybean variety protein and oil averages- central South Dakota locations, 2008. Entries are sorted by 2008 zone protein.

Brand/Variety	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Protein (%)	Oil (%)
		Protein (%)	Oil (%)	Protein (%)	Oil (%)		
PRAIRIE BR./ PB-1754RR	118	40.5	18.3	42.5	19.1	41.5	18.7
ASGROW/ AG2002	120	39.2	19.0	42.7	18.9	41.0	19.0
G-2 GENETICS/ 7151	115	39.7	18.2	41.4	19.7	40.6	18.9
DAIRYLAND/ DSR1850RRSTS	120	39.6	18.7	41.5	19.8	40.6	19.2
LATHAM/ L1738R	118	39.1	19.3	41.8	19.8	40.5	19.5
KRUGER/ EXPKX1987R	120	39.4	19.2	41.1	19.8	40.3	19.5
KRUGER/ K-170RR/SCN	120	39.2	19.4	41.3	20.1	40.3	19.8
PRAIRIE BR./ EXP PB-1182	117	39.7	17.3	40.7	19.6	40.2	18.5
PROSEED/ 81-30	115	39.3	19.2	41.1	20.1	40.2	19.7
KRUGER/ K-129RR	114	39.3	19.2	41.1	20.0	40.2	19.6
HEFTY/ EXP199R	119	39.3	19.4	41.0	19.9	40.1	19.6
MUSTANG/ M-199RR	121	39.5	19.3	40.7	19.7	40.1	19.5
STINE/ 1108-4	115	39.3	19.4	40.9	19.9	40.1	19.7
NUTECH/ 6193	122	39.2	19.0	40.8	20.1	40.0	19.5
HEFTY/ EXP179RN	119	39.0	19.1	41.0	20.0	40.0	19.6
THUNDER/ 2911RR	118	39.6	17.5	40.2	19.8	39.9	18.6
HEFTY/ 168R	115	38.6	19.7	41.1	20.2	39.9	20.0
PRAIRIE BR./ EXP PB-1170	120	38.9	19.9	40.8	20.5	39.8	20.2
G-2 GENETICS/ 7186	115	38.5	18.9	41.1	19.8	39.8	19.3
PRAIRIE BR./ PB-1337RR	117	39.2	18.6	40.4	19.7	39.8	19.2
KRUGER/ K-189RR/SCN	120	38.2	19.3	41.4	20.0	39.8	19.7
MUSTANG/ M-190NRR	121	39.1	20.2	40.4	20.0	39.8	20.1
PRAIRIE BR./ PB-1918RR	121	39.1	19.1	40.5	19.8	39.8	19.5
NUTECH/ 6133	117	39.5	18.5	40.0	19.8	39.7	19.1
ASGROW/ AG1406	116	39.2	19.3	40.1	20.5	39.7	19.9
WENSMAN/ W 2196RR	120	38.7	18.9	40.7	19.9	39.7	19.4
JGL/ EXP 601	119	38.8	18.7	40.5	19.1	39.7	18.9
ASGROW/ AG1702	117	38.4	19.1	40.9	19.5	39.6	19.3
KRUGER/ K-142RR	116	38.6	19.4	40.5	20.2	39.6	19.8
MUSTANG/ M-168RR	115	38.0	19.8	41.0	20.1	39.5	19.9
NUTECH/ NT-1808/SCN RR	120	38.0	19.3	41.0	19.6	39.5	19.5
DAIRYLAND/ DSR-1601/RR	118	38.9	18.9	40.0	20.4	39.5	19.7
SODAK GEN./ 1161RR/SCN	116	38.8	19.2	40.1	20.2	39.5	19.7
PRAIRIE BR./ PB-2058NRR	119	38.6	20.2	40.3	20.2	39.4	20.2
PIONEER/ 91Y90	117	38.3	18.7	40.4	19.7	39.4	19.2
NUTECH/ 6156	116	38.3	19.5	40.4	20.3	39.4	19.9
KRUGER/ K-100RR	116	39.1	18.9	39.6	20.4	39.4	19.6
PRAIRIE BR./ PB-1954RR	119	38.5	19.2	39.9	20.0	39.2	19.6
KRUGER/ K-195+RR/SCN	119	37.8	19.8	40.2	20.5	39.0	20.2
ASGROW/ AG1403	118	38.2	19.0	39.9	20.2	39.0	19.6
KRUGER/ K-194RR	119	38.4	18.7	39.6	19.9	39.0	19.3
NUTECH/ NT-7193+RR/SCN	121	37.6	20.2	40.4	20.8	39.0	20.5
PRAIRIE BR./ PB-1597RR	116	37.9	19.8	40.1	20.0	39.0	19.9
KRUGER/ K-163RR	118	37.8	19.5	40.0	19.9	38.9	19.7
STINE/ 1568-4	119	37.9	19.2	39.9	20.2	38.9	19.7

Table 4b. Glyphosate-resistant maturity group-I soybean variety protein and oil averages- central South Dakota locations, 2008 (continued).

Brand/Variety	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Protein (%)	Oil (%)
		Protein (%)	Oil (%)	Protein (%)	Oil (%)		
ASGROW/ AG1802	117	37.5	19.7	40.2	20.8	38.9	20.3
PRAIRIE BR./ EXP PB-2082	122	37.3	19.6	40.2	20.0	38.7	19.8
NUTECH/ NT-6205+RR	121	37.4	19.8	40.0	20.5	38.7	20.2
WENSMAN/ W 2166RR	117	38.3	20.0	39.1	20.7	38.7	20.3
PRAIRIE BR./ PB-1956RR	121	38.0	20.6	39.2	20.6	38.6	20.6
WENSMAN/ W 2152NRR	117	37.4	20.0	39.9	20.6	38.6	20.3
PRAIRIE BR./ PB-1578NRR	119	37.6	19.9	39.5	20.9	38.6	20.4
WENSMAN/ W 2195NRR	119	37.6	20.0	39.5	20.8	38.6	20.4
LATHAM/ L1983R	118	37.3	20.0	39.7	20.4	38.5	20.2
KRUGER/ K-167RR/SCN	118	37.3	19.9	39.6	20.9	38.5	20.4
MUSTANG/ M-159NRR	118	37.5	20.0	39.3	20.8	38.4	20.4
HEFTY/ EXP159RN	119	37.3	19.9	39.6	20.4	38.4	20.2
PROSEED/ 81-50	117	37.1	19.9	39.7	20.8	38.4	20.4
MUSTANG/ M-177NRR	117	37.4	20.1	39.3	20.5	38.4	20.3
SODAK GEN./ 1111RR	114	37.5	20.5	38.4	21.4	38.0	20.9
ASGROW/ AG1102	117	37.4	18.4	38.3	20.3	37.9	19.4
MUSTANG/M-115RR	116	.	.	38.4	21.2	.	21.2
GOLD COUNTRY/ 2815RR	120	37.7	19.6	.	.	.	19.6
GOLD COUNTRY/ 1915NRR	119	37.2	20.0	.	.	.	20.0
GOLD COUNTRY/ 1918RR	122	38.7	19.4	.	.	.	19.4
KALTENBERG/ KB196RR	123	38.3	19.5	.	.	.	19.5
KALTENBERG/ KB1809RR	124	39.1	19.4	.	.	.	19.4
ZILLER/ BT 7156NR	120	39.0	19.3	.	.	.	19.3
RENK/ RS187NRR	120	37.0	20.2	.	.	.	20.2
RENK/ RS179NRR	121	38.7	19.0	.	.	.	19.0
RENK/ RS129NRR	118	40.1	17.1	.	.	.	17.1
Test avg. :	118	38.5	19.3	40.3	20.2	39.4	19.7
High avg. :	124	40.5	20.6	42.7	21.4	41.5	21.2
Low avg. :	112	37.0	17.1	38.1	18.9	37.9	17.1
[3] LSD(.05) :		0.7	0.7	1.3	0.6	0.7	0.4
[4] Min.TPG-avg. :		39.9	20.0	41.5	20.9	40.9	20.9
[6] Coef. Var. :		1	1	2	2	2	2
No. Entries :	146	77	77	69	69	136	146

[1] DTM= days to maturity from seeding dates of May 23 at Brookings and May 28 at Bancroft.
Note that additional table footnotes are explained in Table F.

Table 5a. Glyphosate-resistant maturity group-II soybean variety yield and lodging averages- central South Dakota locations, 2007-2008. Entries are sorted by 2-Yr then by 2008 zone yield.

Brand/Variety	DTM [1]	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Yield-bu/a		2008 Lodg. (1-5) [2]
		Yield-bu/a		2008 Lodg. (1-5) [2]	Yield-bu/a		2008 Lodg. (1-5) [2]	2-Yr	2008	2008 Lodg. (1-5) [2]
		2-Yr	2008		2-Yr	2008				
ASGROW/ DKB22-52	122	56	50	1	58	55	1	57	53	1
PRAIRIE BR./ PB-2243RR	120	54	52	1	57	54	1	56	53	1
NUTECH/ NT-6234RR	122	53	48	1	59	55	1	56	52	1
PRAIRIE BR./ PB-2117NRR	120	56	48	1	55	55	1	56	52	1
PRAIRIE BR./ PB-2147RR	122	54	46	1	58	57	1	56	52	1
NUTECH/ 6211	121	55	49	1	56	52	1	56	51	1
HEFTY/ 218RN	121	55	49	1	54	48	1	55	49	1
PRAIRIE BR./ PB-2207NRR	121	55	46	1	54	50	2	55	48	1
NUTECH/ 6242	127	54	50	1	54	49	2	54	50	1
PRAIRIE BR./ PB-2337NRR	122	55	46	1	53	50	1	54	48	1
PRAIRIE BR./ PB-2515RR	124	52	45	1	55	51	2	54	48	2
KRUGER/ K-256RR	123	53	50	1	52	49	2	53	50	2
PRAIRIE BR./ PB-2421RR	123	51	44	1	54	52	2	53	48	2
MUSTANG/ M-207RR	121	52	45	1	54	49	1	53	47	1
KRUGER/ K-239RR	125	53	46	1	53	48	2	53	47	2
KRUGER/ K-201RR/SCN	121	54	44	1	52	45	1	53	45	1
KRUGER/ K-248RR/SCN	124	53	47	1	50	49	1	52	48	1
MUSTANG/ M-219RR	122	.	48	1	.	58	1	.	53	1
MUSTANG/ M-209NRR	121	.	48	1	.	55	1	.	52	1
KRUGER/ K-204RR/SCN	120	.	49	1	.	55	1	.	52	1
KRUGER/ K-249RR/SCN	123	.	50	1	.	53	1	.	52	1
ASGROW/ AG2108	119	56	49	1	.	52	1	.	51	1
PRAIRIE BR./ EXP PB-2024	124	.	47	1	.	54	2	.	51	1
PRAIRIE BR./ PB-2558NRR	123	.	50	1	.	52	2	.	51	1
G-2 GENETICS/ 7226	122	.	51	1	.	48	1	.	50	1
KRUGER/ K-228RR/SCN	121	.	46	1	.	51	1	.	49	1
KRUGER/ K-251RR/SCN	122	.	45	1	.	51	1	.	48	1
PRAIRIE BR./ EXP PB-2182	122	.	49	1	.	47	2	.	48	2
NUTECH/ 6212	121	.	42	1	.	48	1	.	45	1
MUSTANG/ M-217NRR	124	.	39	1	.	.	.	.	.	.
PIONEER/ 92Y30	125	.	53	1	.	.	.	.	.	.
HEFTY/ EXP229RN	123	.	49	1	.	.	.	.	.	.
ZILLER/ BT 7208NR	124	57	51	1	.	.	.	.	.	.
RENK/ RS204NRR	120	54	44	1	.	.	.	.	.	.
Test avg.:	122	53	47	1	54	50	2	54	49	1
High avg.:	127	57	53	1	59	58	4	57	53	2
Low avg.:	119	50	39	1	50	45	1	52	45	1
[3] Test LSD (.05):	.	NS	6	0	6	6	1	3	4	1
[4] Min.TPG-avg.:	.	50	48	.	54	53	.	55	50	.
[5] Max.TPG-avg.:	.	.	.	1	.	.	1	.	.	1
[6] Test Coef. Var.:	.	7	8	0	6	7	25	6	8	22

[1] DTM= days to maturity from seeding dates of May 23 at Brookings and May 28 at Bancroft. Note that additional table footnotes are explained in Table F.

Table 5b. Glyphosate-resistant maturity group-II soybean variety protein and oil averages- central South Dakota locations, 2008. Entries are sorted by 2008 zone protein.

Brand/Variety	DTM*	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Protein (%)	Oil (%)
		Protein (%)	Oil (%)	Protein (%)	Oil (%)		
KRUGER/ K-249RR/SCN	123	38.7	17.9	42.5	18.6	40.6	18.3
PRAIRIE BR./ PB-2558NRR	123	38.6	17.8	42.4	19.0	40.5	18.4
KRUGER/ K-201RR/SCN	121	38.7	18.6	42.1	18.9	40.4	18.7
NUTECH/ 6211	121	38.4	18.5	41.4	19.7	39.9	19.1
PRAIRIE BR./ PB-2337NRR	122	38.6	18.8	40.8	19.9	39.7	19.4
KRUGER/ K-256RR	123	38.3	18.2	41.0	19.3	39.7	18.8
KRUGER/ K-239RR	125	38.2	18.4	40.9	19.6	39.6	19.0
PRAIRIE BR./ PB-2147RR	122	38.0	18.6	41.0	20.0	39.5	19.3
PRAIRIE BR./ PB-2421RR	123	37.6	18.2	40.7	19.8	39.2	19.0
KRUGER/ K-251RR/SCN	122	37.9	17.9	39.9	19.4	38.9	18.7
MUSTANG/ M-219RR	122	37.3	18.6	40.1	19.6	38.7	19.1
G-2 GENETICS/ 7226	122	36.9	19.0	40.3	19.7	38.6	19.4
NUTECH/ 6242	127	36.9	19.3	40.2	19.7	38.6	19.5
HEFTY/ 218RN	121	36.3	19.3	40.5	20.2	38.4	19.8
PRAIRIE BR./ EXP PB-2182	122	36.4	18.8	40.2	19.8	38.3	19.3
PRAIRIE BR./ PB-2117NRR	120	36.6	19.1	39.9	20.3	38.3	19.7
KRUGER/ K-248RR/SCN	124	36.1	19.5	40.3	19.9	38.2	19.7
ASGROW/ DKB22-52	122	36.7	19.0	39.5	20.2	38.1	19.6
ASGROW/ AG2108	119	36.0	18.9	40.1	19.8	38.0	19.3
MUSTANG/ M-209NRR	121	36.7	18.7	39.3	20.6	38.0	19.6
NUTECH/ 6212	121	36.4	18.4	39.7	19.7	38.0	19.1
KRUGER/ K-204RR/SCN	120	35.8	19.4	40.2	20.2	38.0	19.8
MUSTANG/ M-207RR	121	36.4	17.8	39.4	19.3	37.9	18.6
PRAIRIE BR./ PB-2515RR	124	35.8	18.8	39.9	20.2	37.9	19.5
PRAIRIE BR./ EXP PB-2024	124	36.0	18.8	39.6	20.0	37.8	19.4
KRUGER/ K-228RR/SCN	121	36.1	19.2	39.3	20.3	37.7	19.8
PRAIRIE BR./ PB-2207NRR	121	36.0	19.3	38.9	20.3	37.5	19.8
NUTECH/ NT-6234RR	122	35.8	19.2	38.6	20.7	37.2	20.0
PRAIRIE BR./ PB-2243RR	120	36.5	19.4	35.3	20.5	35.9	20.0
MUSTANG/ M-217NRR	124	35.8	19.2	.	.	.	.
PIONEER/ 92Y30	125	35.8	19.4	.	.	.	.
HEFTY/ EXP229RN	123	36.6	19.2	.	.	.	.
ZILLER/ BT 7208NR	124	35.7	19.5	.	.	.	.
RENK/ RS204NRR	120	35.8	19.1	.	.	.	.
Test avg. :	122	36.9	18.8	40.1	19.8	38.6	19.3
High avg. :	127	40.1	19.5	42.5	20.7	40.7	20.0
Low avg. :	119	35.5	17.8	35.3	18.6	35.9	18.3
[3] LSD(.05) :		0.9	0.6	2.2	0.8	1.2	0.5
[4] Min.TPG-avg. :		39.3	19.0	40.4	20.0	39.6	19.6
[6] Coef. Var. :		2	2	3	3	3	2
No. Entries :	73	39	39	34	34	68	68

[1] DTM= days to maturity from seeding dates of May 23 at Brookings and May 28 at Bancroft.
Note that additional table footnotes are explained in Table F.

Table 6a. Glyphosate-resistant maturity group-I soybean variety yield and lodging averages- southern South Dakota locations, 2007-2008. Entries are sorted by 2-Yr then by 2008 zone yield.

Brand/Variety	DTM [1]	Southern Averages by Location						Southern Zone Averages		
		Beresford			Geddes			Yield-bu/a		2008 Lodg.
		Yield-bu/a		2008 Lodg. (1-5) [2]	Yield-bu/a		2008 Lodg. (1-5) [2]	2-Yr	2008	2008 Lodg. (1-5) [2]
		2-Yr	2008		2-Yr	2008				
PRAIRIE/ BR. PB-EX228RR	107	52	47	1	55	53	1	54	50	1
PRAIRIE/ BR. PB-1956RR	106	51	47	1	54	48	1	53	48	1
NUTECH/ NT-7205+RR	104	51	44	1	54	50	1	53	47	1
KRUGER/ K-195+RR/SCN	103	48	43	1	54	53	1	51	48	1
PRAIRIE/ BR. PB-1954RR	102	53	48	2	48	44	1	51	46	1
PRAIRIE/ BR. PB-EX147RR	102	49	42	1	52	50	1	51	46	1
KRUGER/ K-170RR/SCN	102	50	44	1	50	50	1	50	47	1
PRAIRIE/ BR. PB-EX117NRR	102	51	47	1	49	46	1	50	47	1
NUTECH/ NT-7193RR/SCN	101	48	42	1	51	45	1	50	44	1
KRUGER/ K-194RR	102	44	35	1	53	49	1	49	42	1
SODAK GEN./ 1161RR/SCN	101	45	39	1	50	47	1	48	43	1
KRUGER/ K-142RR	100	43	35	1	52	47	1	48	41	1
SODAK GEN./ 1111RR	98	40	33	3	47	47	1	44	40	2
PRAIRIE BR./ PB-2058NRR	103	.	48	1	.	53	1	.	51	1
PRAIRIE BR./ EXP PB-2282	104	.	47	1	.	53	1	.	50	1
PROSEED/ 81-90	104	.	44	1	.	53	1	.	49	1
MUSTANG/ M-199RR	102	.	45	1	.	49	1	.	47	1
NUTECH/ 6193	103	.	45	1	.	49	1	.	47	1
PRAIRIE BR./ EXP PB-1189	104	.	45	1	.	49	1	.	47	1
WENSMAN/ W 2196RR	103	.	42	1	.	52	1	.	47	1
KRUGER/ EXPKX1987R	102	.	43	1	.	48	1	.	46	1
PRAIRIE BR./ EXP PB-2083	105	.	45	1	.	47	1	.	46	1
KRUGER/ K-163RR	101	.	41	1	.	49	1	.	45	1
KRUGER/ K-167RR/SCN	99	.	42	1	.	48	1	.	45	1
G-2 GENETICS/ 7186	101	.	41	1	.	49	1	.	45	1
PRAIRIE BR./ PB-1918RR	104	.	42	1	.	46	1	.	44	1
JGL/ EXP 601	100	.	36	1	.	45	1	.	41	1
NUTECH/ 7176	99	.	33	1	.	45	1	.	39	1
KRUGER/ K-189RR/SCN	100	.	32	1	.	46	1	.	39	1
GOLD COUNTRY/ 1918RR	100	.	36	1	.	.	.	.	.	.
Test avg. :	102	48	42	1	52	48	1	50	45	1
High avg. :	107	53	48	3	55	53	1	54	51	2
Low avg. :	98	40	32	1	47	44	1	44	39	1
[3] Test LSD (.05):	.	5	4	1	NS	6	0	*	*	*
[4] Min.TPG-avg. :	.	49	45	.	47	48	.	.	.	.
[5] Max.TPG-avg. :	.	.	.	1	.	.	1	.	.	.
[6] Test Coef. Var.:	.	5	5	27	7	8	0	.	.	.

[1] DTM= days to maturity from seeding dates of June 13 at Beresford and June 12 at Geddes.

Note that additional table footnotes are explained in Table F.

* There was a significant variety by location interaction for the yield and lodging variables. Therefore, evaluate these variables by using the 2-yr and 2008 yield and 2008 lodging columns for each location.

Table 6b. Glyphosate-resistant maturity group-I soybean variety protein and oil averages- southern South Dakota locations, 2008. Entries are sorted by 2008 zone protein.

Brand/Variety	DTM [1]	Southern Averages by Location				Southern Zone Averages	
		Beresford		Geddes		Protein (%)	Oil (%)
		Protein (%)	Oil (%)	Protein (%)	Oil (%)		
NUTECH/ 7176	99	38.9	18.0	39.2	20.9	39.1	19.4
KRUGER/ K-170RR/SCN	102	37.9	19.1	38.4	19.7	38.2	19.4
SODAK GEN./ 1161RR/SCN	101	37.4	18.6	38.3	20.4	37.8	19.5
PRAIRIE/ BR. PB-EX147RR	102	37.5	19.2	37.9	20.1	37.7	19.7
KRUGER/ EXPKX1987R	102	36.7	19.3	38.4	19.8	37.6	19.5
JGL/ EXP 601	100	37.7	18.5	37.3	19.0	37.5	18.8
KRUGER/ K-189RR/SCN	100	37.7	18.6	36.9	19.6	37.3	19.1
PRAIRIE BR./ PB-2058NRR	103	37.2	19.7	37.3	19.9	37.3	19.8
PROSEED/ 81-90	104	37.5	19.6	37.0	20.0	37.2	19.8
MUSTANG/ M-199RR	102	37.2	19.3	37.1	19.6	37.2	19.5
WENSMAN/ W 2196RR	103	36.9	19.7	37.2	19.5	37.1	19.6
NUTECH/ NT-7193RR/SCN	101	36.3	19.5	37.7	19.9	37.0	19.7
KRUGER/ K-142RR	100	37.3	18.7	36.5	20.8	36.9	19.7
PRAIRIE/ BR. PB-EX117NRR	102	36.6	19.6	37.0	20.1	36.8	19.9
KRUGER/ K-195+RR/SCN	103	37.1	19.9	36.5	20.6	36.8	20.2
PRAIRIE BR./ PB-1918RR	104	37.4	19.4	36.1	18.8	36.8	19.1
KRUGER/ K-194RR	102	36.6	18.7	36.9	20.2	36.7	19.5
PRAIRIE/ BR. PB-1954RR	102	37.1	19.2	36.3	19.7	36.7	19.4
KRUGER/ K-167RR/SCN	99	36.8	19.6	36.3	20.0	36.5	19.8
G-2 GENETICS/ 7186	101	36.7	19.3	36.4	19.9	36.5	19.6
SODAK GEN./ 1111RR	98	36.6	19.3	36.1	20.2	36.3	19.7
NUTECH/ 6193	103	36.6	19.2	36.0	19.0	36.3	19.1
PRAIRIE/ BR. PB-EX228RR	107	36.0	19.3	36.5	19.9	36.3	19.6
NUTECH/ NT-7205+RR	104	36.8	19.5	35.7	20.2	36.2	19.8
PRAIRIE BR./ EXP PB-2282	104	35.8	19.8	35.7	20.1	35.8	20.0
PRAIRIE BR./ EXP PB-1189	104	35.6	20.0	35.9	19.9	35.7	19.9
PRAIRIE BR./ EXP PB-2083	105	35.2	20.0	36.2	20.6	35.7	20.3
KRUGER/ K-163RR	101	36.3	18.8	34.6	19.3	35.5	19.1
PRAIRIE/ BR. PB-1956RR	106	34.9	19.9	35.0	20.0	35.0	20.0
GOLD COUNTRY/ 1918RR	100	38.2	18.3	.	.	.	.
Test avg. :	102	36.9	19.3	36.7	19.9	36.8	19.6
High avg. :	107	38.9	20.0	39.2	20.9	39.1	20.3
Low avg. :	98	34.9	18.0	34.6	18.8	35.0	18.8
[3] LSD(.05) :		0.7	0.4	2.0	1.1	1.0	0.6
[4] Min.TPG-avg. :		38.3	19.7	37.3	19.9	38.2	19.8
[6] Coef. Var. :		2	1	3	3	2	2
No. Entries :	63	32	32	31	31	62	62

[1] DTM= days to maturity from seeding dates of June at Beresford and June 12 at Geddes.

Note that additional table footnotes are explained in Table F.

Table 7a. Glyphosate-resistant maturity group-II soybean variety yield and lodging averages- southern South Dakota locations, 2007-2008. Entries are sorted by 2-Yr then by 2008 zone yield.

Brand/Variety	DTM [1]	Southern Averages by Location						Southern Zone Averages		
		Beresford			Geddes			Yield-bu/a		2008 Lodg. (1-5) [2]
		Yield-bu/a		2008 Lodg. (1-5) [2]	Yield-bu/a		2008 Lodg. (1-5) [2]	2-Yr	2008	
		2-Yr	2008		2-Yr	2008				
ASGROW/ DKB27-52	110	52	49	1	58	54	1	55	52	1
WENSMAN/ W 2222NRR	104	51	46	1	58	55	1	55	51	1
PRAIRIE/ BR. PB-2243RR	93	50	40	1	60	57	1	55	49	1
ASGROW/ AG2406	107	54	52	1	53	54	1	54	53	1
MUSTANG/ M-264RR	111	53	49	1	55	53	1	54	51	1
NUTECH/ NT-7206	105	49	42	1	59	57	1	54	50	1
NUTECH/ NT-6211	104	48	38	1	59	54	1	54	46	1
KRUGER/ K-275RR/SCN	109	51	49	2	55	54	1	53	52	2
KRUGER/ K-256RR	107	51	47	1	54	54	1	53	51	1
KRUGER/ K-239RR	107	48	42	1	57	54	1	53	48	1
ASGROW/ DKB25-51	106	48	41	1	57	51	1	53	46	1
DAIRYLAND/ DSR-2770/RR	110	49	45	1	54	52	1	52	49	1
DAIRYLAND/ DSR-2600/RR	109	50	43	1	54	52	1	52	48	1
MUSTANG/ M-237RR	106	49	41	1	54	52	1	52	47	1
LATHAM/ L2158R	104	48	40	1	55	54	1	52	47	1
PRAIRIE BR./ PB-2515RR	108	46	41	1	58	52	1	52	47	1
KRUGER/ K-271RR	111	48	43	1	53	52	1	51	48	1
MUSTANG/ M-246NRR	106	48	43	1	53	50	1	51	47	1
DAIRYLAND/ DSR-2200/RR	107	45	39	1	56	53	1	51	46	1
PRAIRIE BR./ PB-2421RR	105	48	40	1	53	47	1	51	44	1
MUSTANG/ M-277NRR	111	47	42	1	53	54	1	50	48	1
PRAIRIE BR./ PB-2565RR	107	48	43	2	51	50	1	50	47	1
NUTECH/ NT-6242	109	48	43	1	52	49	1	50	46	1
KRUGER/ K-248RR/SCN	108	46	40	1	52	54	1	49	47	1
KRUGER/ K-201RR/SCN	104	46	37	1	51	51	1	49	44	1
MUSTANG/ M-318RR	113	43	37	1	51	47	1	47	42	1
PIONEER/ 93M11	112	.	53	1	.	56	1	.	55	1
LATHAM/ L2658R	108	.	54	1	.	56	1	.	55	1
LATHAM/ L2740R	112	.	49	1	.	57	1	.	53	1
ASGROW/ AG2909	112	.	50	1	.	54	1	.	52	1
PIONEER/ 92Y30	105	.	48	1	.	56	1	.	52	1
NUTECH/ NT-2324+RR/SCN	106	.	47	1	.	57	1	.	52	1
KRUGER/ K-228RR/SCN	105	.	45	1	.	56	1	.	51	1
LATHAM/ L2285R	105	.	44	1	.	57	1	.	51	1
PRAIRIE BR./ PB-2207NRR	105	.	47	1	.	55	1	.	51	1
PRAIRIE BR./ PB-2558NRR	106	.	44	1	.	58	1	.	51	1
HEFTY/ EXP229RN	105	.	45	1	.	55	1	.	50	1
KRUGER/ K-204RR/SCN	104	.	45	1	.	55	1	.	50	1
KALTENBERG/ KB249RR	106	.	42	1	.	57	1	.	50	1
ASGROW/ AG2403	105	.	41	1	.	56	1	.	49	1
PIONEER/ 92M61	107	.	47	1	.	50	1	.	49	1
NUTECH/ 6224	107	.	46	1	.	52	1	.	49	1
NUTECH/ 7251	106	.	40	1	.	58	1	.	49	1

Table 7a. Glyphosate-resistant maturity group-II soybean variety yield and lodging averages- southern South Dakota locations, 2007-2008 (continued).

Brand/Variety	DTM [1]	Southern Averages by Location						Southern Zone Averages		
		Beresford			Geddes			Yield-bu/a		2008 Lodg. (1-5) [2]
		Yield-bu/a		2008 Lodg. (1-5) [2]	Yield-bu/a		2008 Lodg. (1-5) [2]	2-Yr	2008	
		2-Yr	2008		2-Yr	2008				
KRUGER/ K-251RR/SCN	105	.	44	1	.	53	1	.	49	1
DAIRYLAND/ DST24-004/RR	107	.	44	2	.	53	1	.	49	1
PROSEED/ 82-00	103	.	45	1	.	53	1	.	49	1
HEFTY/ EXP248R	108	.	45	1	53	51	1	.	48	1
HEFTY/ EXP259RN	106	.	42	1	.	53	1	.	48	1
PRAIRIE BR./ PB-2897NRR	112	.	43	1	.	53	1	.	48	1
PRAIRIE BR./ PB-3058NRR	111	.	49	1	.	47	1	.	48	1
NUTECH / 7274	108	.	40	1	.	53	1	.	47	1
KRUGER/ K-274RR/SCN	108	.	43	1	.	50	1	.	47	1
LATHAM/ EXP-E2680R	108	.	41	1	.	52	1	.	47	1
LATHAM/ EXP-E2935R	110	.	45	1	.	48	1	.	47	1
DAIRYLAND/ DST25-002/RR	105	.	48	2	.	45	1	.	47	1
KALTENBERG/ KB2609RR	107	.	41	1	.	50	1	.	46	1
G-2 GENETICS/ 7255	110	.	42	1	.	50	1	.	46	1
PRAIRIE BR./ PB-2698NRR	107	.	42	1	.	50	1	.	46	1
PRAIRIE BR./ EXP PB-2086	108	.	42	1	.	49	1	.	46	1
KALTENBERG/ KB278RR	111	.	42	1	.	48	1	.	45	1
G-2 GENETICS/ 7226	104	.	37	1	.	52	1	.	45	1
G-2 GENETICS/ 7241	102	.	41	1	.	48	1	.	45	1
LATHAM/ L2303R	106	.	36	1	.	51	1	.	44	1
LATHAM/ L2348R	104	.	35	1	.	52	1	.	44	1
MUSTANG/ M-209NRR	103	.	43	1	.	.	.	.	.	.
MUSTANG/ M-219RR	103	.	38	1	.	.	.	.	.	.
HEFTY/ EXP218RN	103	48	42	1	.	.	.	.	.	.
HEFTY/ EXP279RN	109	.	47	1	.	.	.	.	.	.
GOLD COUNTRY/ 9822RR	106	48	43	1	.	.	.	.	.	.
GOLD COUNTRY/ 8820NRR	103	.	44	1	.	.	.	.	.	.
STINE/ 2432-94	107	.	51	1	.	.	.	.	.	.
STINE/ 2532-94	110	.	43	2	.	.	.	.	.	.
ZILLER/ BT 7208NR	103	.	41	1	.	.	.	.	.	.
ZILLER/ BT 7217NR	102	48	41	1	.	.	.	.	.	.
RENK/ RS277NRR	112	53	48	1	.	.	.	.	.	.
RENK/ RS259NRR	105	.	46	1	.	.	.	.	.	.
RENK/ RS239RR	106	.	46	1	.	.	.	.	.	.
Test avg. :	107	49	44	1	55	53	1	52	48	1
High avg. :	113	54	55	2	60	58	2	55	55	2
Low avg. :	93	43	35	1	51	45	1	47	42	1
[3] Test LSD (.05):	.	6	5	1	6	6	1	*	*	*
[4] Min.TPG-avg. :	.	49	51	.	55	53	.	.	.	.
[5] Max.TPG-avg. :	.	.	.	1	.	.	1	.	.	.
[6] Test Coef. Var.:	.	6	7	21	8	6	16	.	.	.

[1] DTM= days to maturity from seeding dates of June 13 at Beresford and June 12 at Geddes.

Note that additional table footnotes are explained in Table F.

* There was a significant variety by location interaction for the yield and lodging variables. Therefore, evaluate these variables by using the 2-yr and 2008 yield and 2008 lodging columns for each location.

Table 7b. Glyphosate-resistant maturity group-II soybean variety protein and oil averages- southern South Dakota locations, 2008. Entries are sorted by 2008 zone protein.

Brand/Variety	DTM [1]	Southern Averages by Location				Southern Zone Averages	
		Beresford		Geddes		Protein (%)	Oil (%)
		Protein (%)	Oil (%)	Protein (%)	Oil (%)		
DAIRYLAND/ DSR-2770/RR	110	38.0	18.9	39.1	18.5	38.6	18.7
MUSTANG/ M-318RR	113	36.4	19.1	40.5	18.4	38.5	18.8
PRAIRIE BR./ PB-3058NRR	111	37.5	18.2	39.1	18.7	38.3	18.5
NUTECH/ 7251	106	38.1	18.2	38.5	18.9	38.3	18.6
KRUGER/ K-271RR	111	38.3	18.5	38.3	19.2	38.3	18.9
KALTENBERG/ KB249RR	106	37.3	18.9	39.1	18.8	38.2	18.9
KRUGER/ K-274RR/SCN	108	37.4	18.8	39.0	19.4	38.2	19.1
ASGROW/ AG2909	112	37.3	18.2	39.1	18.5	38.2	18.4
MUSTANG/ M-277NRR	111	38.2	18.2	37.8	18.1	38.0	18.1
DAIRYLAND/ DST24-004/RR	107	37.9	18.7	37.6	18.6	37.8	18.6
PRAIRIE BR./ PB-2558NRR	106	37.7	18.6	37.8	19.3	37.8	19.0
PRAIRIE/ BR. PB-2565RR	107	37.4	19.0	38.1	18.9	37.7	19.0
DAIRYLAND/ DSR-2200/RR	107	37.3	18.9	37.8	19.9	37.6	19.4
KRUGER/ K-251RR/SCN	105	37.1	18.5	37.8	19.0	37.4	18.8
G-2 GENETICS/ 7241	102	37.3	18.2	37.4	19.0	37.4	18.6
KRUGER/ K-256RR	107	37.0	18.3	37.7	19.3	37.4	18.8
DAIRYLAND/ DSR-2600/RR	109	37.8	19.0	36.7	19.7	37.3	19.3
PRAIRIE BR./ PB-2698NRR	107	36.6	19.0	37.8	19.0	37.2	19.0
KRUGER/ K-201RR/SCN	104	37.0	18.7	37.4	19.7	37.2	19.2
DAIRYLAND/ DST25-002/RR	105	37.6	19.1	36.7	19.7	37.2	19.4
PRAIRIE BR./ EXP PB-2086	108	36.4	18.8	37.6	19.3	37.0	19.1
NUTECH/ NT-6211	104	37.0	18.8	36.9	20.3	37.0	19.6
MUSTANG/ M-246NRR	106	37.2	18.8	36.6	19.0	36.9	18.9
NUTECH/ NT-6242	109	36.5	19.3	37.3	19.5	36.9	19.4
HEFTY/ EXP259RN	106	36.6	18.7	37.2	19.7	36.9	19.2
ASGROW/ AG2406	107	36.8	19.7	36.9	20.2	36.9	19.9
NUTECH/ 6224	107	37.4	18.9	36.3	19.4	36.8	19.1
KRUGER/ K-239RR	107	37.0	19.0	36.6	18.7	36.8	18.9
LATHAM/ L2740R	112	35.8	18.6	37.8	19.0	36.8	18.8
PIONEER/ 93M11	112	36.8	19.4	36.8	20.2	36.8	19.8
LATHAM/ L2348R	104	37.0	18.5	36.6	18.8	36.8	18.6
KALTENBERG/ KB2609RR	107	36.3	19.0	37.2	18.8	36.8	18.9
G-2 GENETICS/ 7255	110	37.2	18.8	36.2	19.4	36.7	19.1
HEFTY/ EXP248R	108	36.3	18.5	37.0	18.8	36.7	18.7
LATHAM/ L2303R	106	36.6	19.2	36.6	20.0	36.6	19.6
NUTECH/ NT-2324+RR/SCN	106	36.1	19.5	37.1	20.4	36.6	20.0
LATHAM/ EXP-E2680R	108	36.1	19.0	37.0	19.0	36.6	19.0
PRAIRIE/ BR. PB-2421RR	105	36.7	18.8	36.4	19.3	36.5	19.1
PRAIRIE BR./ PB-2897NRR	112	36.0	18.9	37.1	19.9	36.5	19.4
G-2 GENETICS/ 7226	104	36.0	18.8	37.1	18.5	36.5	18.7
HEFTY/ EXP229RN	105	36.1	19.3	36.9	20.4	36.5	19.9
MUSTANG/ M-264RR	111	36.2	18.9	36.8	19.8	36.5	19.4
LATHAM/ L2158R	104	36.5	19.1	36.4	20.4	36.5	19.8
ASGROW/ AG2403	105	36.3	19.3	36.5	20.5	36.4	19.9
NUTECH/ NT-7206	105	36.5	19.5	36.3	20.0	36.4	19.8
KRUGER/ K-248RR/SCN	108	36.1	19.3	36.6	20.6	36.4	20.0
NUTECH/ 7274	108	36.4	18.9	36.2	18.9	36.3	18.9

Table 7b. Glyphosate-resistant maturity group-II soybean variety protein and oil averages- southern South Dakota locations, 2008 (continued).

Brand/Variety	DTM [1]	Southern Averages by Location				Southern Zone Averages	
		Beresford		Geddes		Protein (%)	Oil (%)
		Protein (%)	Oil (%)	Protein (%)	Oil (%)		
KALTENBERG/ KB278RR	111	36.7	18.7	35.9	19.2	36.3	19.0
PROSEED/ 82-00	103	36.3	19.3	36.2	19.9	36.3	19.6
MUSTANG/ M-237RR	106	36.6	18.7	35.8	18.8	36.2	18.8
PIONEER/ 92Y30	105	35.8	19.8	36.6	20.2	36.2	20.0
KRUGER/ K-228RR/SCN	105	35.4	19.7	37.0	20.6	36.2	20.1
PIONEER/ 92M61	107	35.5	19.4	36.9	20.9	36.2	20.1
PRAIRIE/ BR. PB-2515RR	108	35.6	19.4	36.6	19.7	36.1	19.6
PRAIRIE/ BR. PB-2243RR	93	35.7	19.3	36.5	19.8	36.1	19.5
LATHAM/ EXP-E2935R	110	36.4	19.5	35.5	20.1	36.0	19.8
LATHAM/ L2658R	108	35.7	18.9	35.8	20.5	35.8	19.7
ASGROW/ DKB25-51	106	35.9	19.3	35.1	19.4	35.5	19.4
KRUGER/ K-204RR/SCN	104	35.8	19.6	35.2	20.3	35.5	20.0
LATHAM/ L2285R	105	35.2	19.7	35.7	20.7	35.4	20.2
KRUGER/ K-275RR/SCN	109	35.2	19.5	35.5	20.6	35.3	20.0
ASGROW/ DKB27-52	110	34.9	19.2	35.4	19.8	35.2	19.5
PRAIRIE BR./ PB-2207NRR	105	35.4	19.5	34.9	20.5	35.2	20.0
WENSMAN/ W 2222NRR	104	35.0	19.7	35.1	20.3	35.1	20.0
MUSTANG/ M-209NRR	103	36.0	19.2	.	.	.	.
MUSTANG/ M-219RR	103	36.7	18.7	.	.	.	.
HEFTY/ EXP218RN	103	36.2	19.7	.	.	.	.
HEFTY/ EXP279RN	109	39.0	17.4	.	.	.	.
GOLD/ COUNTRY 9822RR	106	36.6	19.0	.	.	.	.
GOLD COUNTRY/ 8820NRR	103	35.7	19.6	.	.	.	.
STINE/ 2432-94	107	37.7	18.2	.	.	.	.
STINE/ 2532-94	110	37.6	18.5	.	.	.	.
ZILLER/ BT 7208NR	103	36.2	19.4	.	.	.	.
ZILLER/ BT 7217NR	102	36.5	19.2	.	.	.	.
RENK/ RS277NRR	112	35.5	19.1	.	.	.	.
RENK/ RS259NRR	105	37.8	17.6	.	.	.	.
RENK/ RS239RR	106	36.2	19.4	.	.	.	.
Test avg. :	107	36.6	19.0	37.0	19.5	36.8	19.3
High avg. :	113	39.0	19.8	40.5	20.9	38.6	20.2
Low avg. :	93	34.3	17.4	34.9	18.1	35.0	18.1
[3] LSD(.05) :		1.1	0.5	2.1	1.1	1.1	0.6
[4] Min.TPG-avg. :		38.0	19.4	38.5	19.9	37.6	19.7
[6] Coef. Var. :		2	2	3	3	3	3
No. Entries :	149	81	81	68	68	136	136

[1] DTM= days to maturity from seeding dates of June at Beresford and June 12 at Geddes.

Note that additional table footnotes are explained in Table F.

Table 8a. Non-glyphosate-resistant maturity group-0 and -I soybean variety yield and lodging averages- South Shore, 2007-08.

BRAND/VARIETY	DTM [1]	Yield average (bu/a) by maturity group					
		MG-0			MG-I		
		Yield-bu/a		2008 Lodg. (1-5) [2]	Yield-bu/a		2008 Lodg. (1-5) [2]
		2008	2-yr		2008	2-yr	
PUBLIC/ HAMLIN	119	40	43	2	.	.	.
PUBLIC/ SURGE	117	39	43	3	.	.	.
PUBLIC/ MN0701	117	36	.	2	.	.	.
RICHLAND ORGAN./ EXP0508	114	32	.	3	.	.	.
RICHLAND ORGAN./ MK9532	112	29	.	3	.	.	.
RICHLAND ORGAN./ MK0649	112	29	.	3	.	.	.
RICHLAND ORGAN./ MK1016	121	.	.	.	32	37	3
Test avg.:	119	35	43	3	32	37	3
High avg.:	125	40	43	3	32	37	3
Low avg.:	112	29	43	2	32	37	3
[3] LSD (.05):	.	5	0	1	0	0	0
[4] Min. TPG avg.:	.	36	43	.	32	37	.
[5] Max. TPG avg.:	.	.	.	2	.	.	3
[6] Coef. Var.:	.	9	7	17	0	0	0

[1] DTM= days to maturity from seeding dates of May 31 at South Shore.
Note that additional table footnotes are explained in Table F.



Table 8b. Non-glyphosate-resistant maturity group-0 and -I soybean variety protein and oil averages- South Shore, 2008.

BRAND/VARIETY by maturity group & protein average	DTM*	Northern protein and oil averages by maturity group in 2008			
		MG-0		MG-I	
		Protein %	Oil %	Protein %	Oil %
PUBLIC/ SURGE	117	41.3	17.9	.	.
PUBLIC/ MN0701	117	40.9	17.9	.	.
PUBLIC/ HAMLIN	119	40.7	18.3	.	.
RICHLAND ORGAN./ MK0649	112	40.6	18.4	.	.
RICHLAND ORGAN./ EXP0508	114	39.2	18	.	.
RICHLAND ORGAN./ MK9532	112	37.4	19.1	.	.
RICHLAND ORGAN./ MK1016	121	.	.	40.5	18.5
Test avg.:	119	40.0	18.3	40.5	18.5
High avg.:	125	41.3	19.1	40.5	18.5
Low avg.:		37.4	17.9	40.5	18.5
[3] LSD(.05):		1.4	NS	.	.
[4] Min. TPG avg.:		40	17.9	40.5	18.5
[6] Coef. Var.:	4	2	3	2	4

[1] DTM= days to maturity from seeding dates of May 31 at South Shore and May 27 at Warner.
Note that additional table footnotes are explained in Table F.

EC 775
Revised
Annually

SOYBEAN

Variety Performance Trials—2009 Results

AVG FIVE



South Dakota State University • Cooperative Extension Service • U.S. Department of Agriculture

The crop performance trials are available at <http://plantsci.sdstate.edu/varietytrials/vartrial.html>

Tables for the 2009 Soybean Performance Trials

A	Monthly nearest weather station precipitation totals and average temperature; and their departures from average for 2009	7
B	Description of trial locations, soil types, tillage methods, prior crop, herbicide usage, and dates seeded	8
C	Gene race resistance to <i>Phytophthora</i> root rot	8
D	Glyphosate-resistant entries with yield table numbers	9-10
E	Non-glyphosate-resistant entries with yield table numbers	11
F	Explanation of yield and lodging score table footnotes.	11
G	Entrants (brand name) mailing addresses (after yield tables)	12

Glyphosate-Resistant Soybean Trial Results

1a	Glyphosate-resistant maturity group-O soybean variety yield and lodging averages-northern South Dakota locations, 2008-2009	13
1b	Glyphosate-resistant maturity group-O soybean variety protein and oil averages-northern South Dakota locations, 2009	14
2a	Glyphosate-resistant maturity group-I soybean variety yield and lodging averages-northern South Dakota locations, 2008-2009	15-16
2b	Glyphosate-resistant maturity group-I soybean variety protein and oil averages-northern South Dakota locations, 2009	17-18
3a	Glyphosate-resistant maturity group-O soybean variety yield and lodging averages-central South Dakota locations, 2008-2009	19
3b	Glyphosate-resistant maturity group-O soybean variety protein and oil averages-central South Dakota locations, 2009	20
4a	Glyphosate-resistant maturity group-I soybean variety yield and lodging averages-central South Dakota locations, 2008-2009	21-22
4b	Glyphosate-resistant maturity group-I soybean variety protein and oil averages-central South Dakota locations, 2009	23-24
5a	Glyphosate-resistant maturity group-II soybean variety yield and lodging averages-central South Dakota locations, 2008-2009	25
5b	Glyphosate-resistant maturity group-II soybean variety protein and oil averages-central South Dakota locations, 2009	26
6a	Glyphosate-resistant maturity group-I soybean variety yield and lodging averages-southern South Dakota locations, 2008-2009	27
6b	Glyphosate-resistant maturity group-I soybean variety protein and oil averages-southern South Dakota locations, 2009	28
7a	Glyphosate-resistant maturity group-II soybean variety yield and lodging averages-southern South Dakota locations, 2008-2009	29-30
7b	Glyphosate-resistant maturity group-II soybean variety protein and oil averages-southern South Dakota locations, 2009	31-32

Non-Glyphosate-Resistant Soybean Trial Results

8a	Non-glyphosate-resistant maturity group-O and -I soybean variety yield and lodging averages-South Shore, 2008-2009	33
8b	Non-glyphosate-resistant maturity group-O and -I soybean variety protein and oil averages-South Shore, 2009	34
9a	Non-glyphosate-resistant maturity group-O, -I and -II soybean variety yield and lodging averages-Brookings, 2008-2009	35
9b	Non-glyphosate-resistant maturity group-O, -I and -II soybean variety protein and oil averages-Brookings, 2009	36
10a	Non-glyphosate-resistant maturity group-I and -II soybean variety yield and lodging averages-Beresford, 2008-2009	37
10b	Non-glyphosate-resistant maturity group-I and -II soybean variety protein and oil averages-Beresford, 2009	38

**EC 775—Precision Planted Soybeans 2009 Crop Performance Results
is available electronically on the internet**

<http://agbiopubs.sdstate.edu/articles/EC775-09.pdf>



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SOYBEAN

Variety Performance Trials–2009 Results

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Soybean production is greatly affected by variety selection. This circular reports the agronomic performance of entries in the 2009 South Dakota performance trials for glyphosate-resistant and conventional or non-glyphosate-resistant soybean varieties. Major factors in variety selection include yield, maturity, lodging resistance, and *Phytophthora* root rot resistance.

General

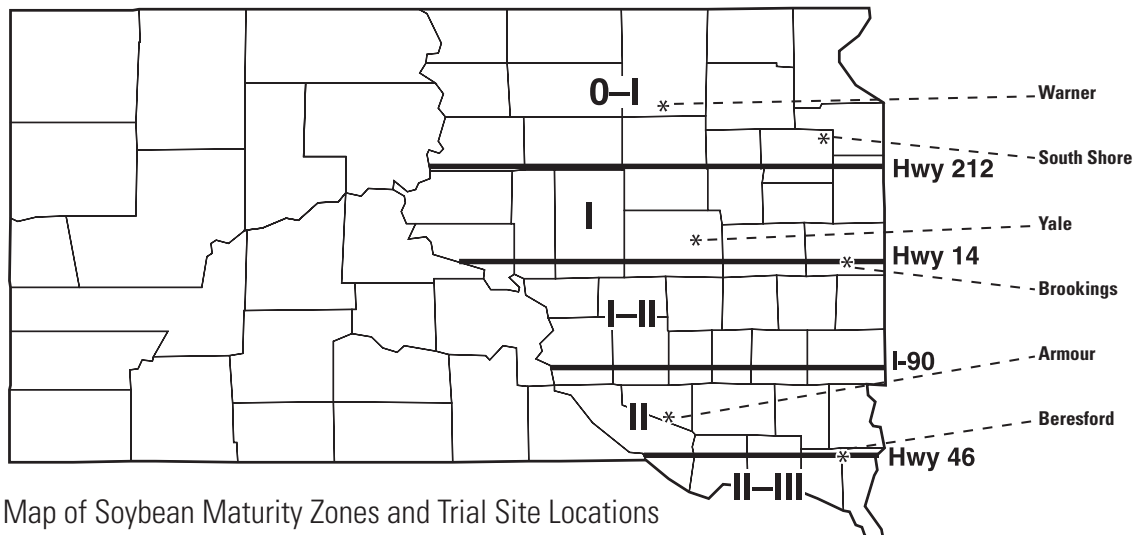
Soybean varieties are classified according to maturity groups that, in turn, are adapted to maturity zones. Maturity zones are based on day length and are therefore affected by latitude. The very early maturity group-00 varieties are best suited to Canada and bordering regions of the U.S., while maturity group-0, group-I, and group-II varieties are suited to South Dakota. The later groups III-VIII are suited to Iowa, Nebraska, and south to Texas.

These soybean trial results are reported according to the prevalent maturity zones in South Dakota (see map). The glyphosate-resistant soybean variety trials were conducted in the following test zones and locations: Northern test zone: maturity groups-0 and -I at South Shore and Warner; Central test zone: maturity groups-0, -I, and -II at Brookings and Bancroft; and Southern test zone: maturity groups-I and -II at Beresford and Geddes.

The conventional non-glyphosate-resistant soybean variety trials are conducted at the following SDSU-affiliated research farms: Northeast Research Farm, South Shore - Maturity groups -0 and -I; SDSU Plant Science Farm, Brookings - Maturity groups -0, -I, and -II; and the Southeast SD Agricultural Experiment Station, Beresford - Maturity groups -I and -II. There are transition areas where varieties of two maturity groups may perform similarly. In such cases, rainfall and or elevation may moderate the effect of latitude on maturity. In most cases, an earlier maturity group may be seeded in a zone suited to a later maturity group; this is only practical if seeding is delayed, or if reseeding following hail, or if double-cropping.

Phytophthora root rot (PRR) is an important soybean disease in South Dakota and is often controlled or managed with the use of resistant varieties. Resistance to *Phytophthora* root rot is fungus-race specific. Thus, resistance to one PRR race does not always impart resistance to other races. Knowledge of the prevalent PRR races in your area is important. If you suspect you have a PRR problem, then the use of varieties with a wide range of rot resistance is strongly suggested (see discussion of *Phytophthora* under “General Test Procedures”).

An alternative method of control is the use of “tolerant varieties.” Tolerant varieties are not resistant to PRR in the seedling stage. Thus, a PRR fungicide must be applied to protect them.



Map of Soybean Maturity Zones and Trial Site Locations

Currently, we do not evaluate variety field tolerance; therefore, field tolerance ratings are not available.

Certified seed is the best source of seed and the only way to be assured of the genetic purity of the variety seeded. In addition, inoculation of seed with the appropriate nitrogen-fixing bacterium is a good practice. Always inoculate if seeding soybeans in soils not previously cropped to soybeans. On older soybean soils, there is no guarantee that beneficial bacteria will be present to naturally inoculate planted seed. Therefore, inoculation of seed at planting is an inexpensive means of increasing the percentage of plants that will fix nitrogen in the current crop year.

Yield

Yields are obtained from the South Dakota Crop Performance Testing Program (CPT). Current-year yields are included for each entry tested, along with 2-year averages where varieties have been tested for two years. Yield test averages and least significant difference (LSD) values are rounded-off to the nearest bushel and printed at the bottom of each yield column.

The LSD value can be used to determine if varieties differ in yield per acre. For example, assume variety A averages 30 bu., variety B averages 25 bu., and the calculated LSD value is 4 bu. The average difference between varieties A and B is 5 bu ($30-25=5$). Since the average difference of 5 bu. is greater than the test LSD value of 4 bu., variety A (30 bu.) is significantly higher in yield than for B (25 bu.). In contrast, if variety A averages 28 bu. and B averages 25 bu., the average difference would be 3 bu ($28-25=3$). In this case, both varieties would have a similar yield average, because their difference of 3 bu. is less than the test LSD value of 4 bu.

Use LSD values to identify the best-yielding varieties. The LSD value at the bottom of each yield column is used to calculate a minimum top-yield value. For example, if the highest column yield value is 50 bu., subtract the LSD value of 5 bu. to obtain an intermediate value of 45 bu. ($50 - 5 = 45$). The minimum top yield value has to be greater than this intermediate value of 45 bu., and because the yield values are rounded to the nearest bushel, it must be at least 46 bu. Thus, varieties with an average of 46 bu. or higher are included in the top-yield group. **Note: Entries tested for two years may also have a top-yield group value in the 2009-yield column.**

NOTE: Each company selects the appropriate maturity group trial (maturity group-0, -I, or -II trial) and locations for their entries. Companies generally have one or more maturity-group checks for their varieties. There are, however, no standard regional or national check varieties for maturity. A late group-I variety from one company may be similar in maturity to an early group-I or early group-II variety from another company, because companies use different check varieties for maturity. Therefore, this testing program does not guarantee that entries are placed in the appropriate maturity-group trial. Borderline entries with maturity ratings at or near the arbitrary breaks between the late group-0's and early group-I's and between the late group-I's and early-group-II's may crossover in some test trials. It is suggested that you note the reported maturity rating of every entry you are considering. Since all entries at a location are seeded the same day, one can compare the relative difference in days to maturity among varieties tested at that location. Use caution when

comparing the maturity rating of a variety over many locations. Variations in soil moisture and temperature often differ between locations, resulting in some maturity variations over locations.

The efforts of D. Doyle, SDSU Agronomy Farm; A. Heuer, NE Research Farm, South Shore; and R. Berg and staff, SE Research Farm, Beresford, in obtaining the data are gratefully acknowledged. Also, the assistance and cooperation of our farmer co-operators, Allen and Inel Ryckman, Warner, S.D.; Curtis Sybesma, Geddes, S.D.; and E. Weerts Inc., Bancroft, S.D., is gratefully acknowledged.

Protein and Oil Content

The 2009 protein and oil values (adjusted to a 13% moisture) were determined using a calibrated FOSS TECATOR Model Infratec 1229 Grain Analyzer. Three replicates of every variety in each trial were tested. Samples of known protein and oil were tested by the SDSU Agricultural Experiment Station Biochemistry Laboratory and were used to calibrate the analyzer.

Weather and Seasonal Precipitation

Seasonal rainfall and its distribution and average temperatures at weather reporting stations nearest each test trial are reported in table A for the period April 1 to October 31.

Seasonal precipitation sums were above average at Aberdeen (3.15"), South Shore (2.95"), and Huron (2.25"); near average at Centerville (0.65"); and below average at Brookings (-1.38") and White Lake (-1.37"). The greatest moisture deficits tended to occur at most locations in April and May. In some cases this early season moisture deficits resulted in the delayed emergence of some crops seeded at their normal seeding dates.

Seasonal average temperatures from April to October were at or near normal at Brookings and Centerville. Seasonal temperatures were below average at Aberdeen (-2.37°F), South Shore (-3.07°F), Huron (-2.00°F), and White Lake (-3.13°F). The monthly departures from average temperatures in June, July, and August varied from near normal at Brookings and Centerville to nearly 7°F below average at South Shore and White Lake in July.

In summary, the growing-season precipitation totals for soybeans varied from -1.3" below normal to over 3" above normal across the six locations tested, with the greatest precipitation generally occurring in October.

In addition, the greatest monthly departures from average temperature occurred in June, July, August, and October. The monthly temperatures in June, July, and August varied from near normal at Brookings and Centerville to nearly -7°F at South Shore and White Lake in July.

General Test Procedures

These procedures apply to both the glyphosate-resistant and the conventional non-glyphosate-resistant soybean trials, except for the chemical weed control imposed. Trial locations, soil types, tillage methods, previous crops, pesticide usage, and seeding dates are indicated in table B.

Test Procedures: A row spacing of 30 inches was used at all locations. The seeding rate was 165,000 pure-live-seeds per acre for all varieties and locations. Test plots consist of 4-row plots, 20-feet long, with 3 replications at all locations. Soybean inoculation was accomplished by applying Nitragin-brand Soybean Soil

Implant down the seed tube, according to label instructions and rates, during seeding. Seeding at all locations was accomplished using a Monosem precision row-crop planter. The center 2 rows of each plot were harvested for yield.

Yield: Plots were harvested and yields were adjusted to a 13% moisture content basis and expressed in bushels per acre. Harvest was accomplished using a Massey Ferguson 8XP small-plot combine.

Reporting variety maturity: Variety maturity is reported as “days to maturity,” or DTM. Entries are mature when 95% of the pods have turned brown. Each maturity value is obtained by determining the average number of days from seeding to maturity for two replicates and expressing as DTM at each location. Table DTM values are an average of four replicates (two for each location), unless data is at a location (in such cases, the DTM average is based on 2 replications).

Lodging Score: Scores at maturity are based on the erectness of the main stem of plants within each variety: 1 = all plants erect, 2 = slight lodging, 3 = some lodging at a 45o-angle, 4 = severe lodging, and 5 = all plants flat.

Phytophthora Root Rot (PRR): The gene resistance of each variety to PRR is supplied by each seed company (proprietary entries) or by the USDA (Uniform Soybean Tests, Northern States, public entries). A key for each type of PRR gene and the race resistance it imparts to a variety is given in table C. Specific race resistance to PRR, as reported by seed company, can be determined by noting the PRR gene in the variety index table D (glyphosate-resistant) and table E (non-glyphosate resistant) and referencing the gene back to table C to find the range of race resistance. Currently, races -1, -3, and -4 are the most-common races in South Dakota.

GLYPHOSATE-RESISTANT SOYBEAN VARIETY TRIAL RESULTS

Note: Yield averages are reported for 2-yr (2008-09) and for 2009.

In addition, in each yield table, entries are sorted by the zone 2-year and then by the zone 2009 yield values.

NORTHERN TEST ZONE

SOUTH SHORE- Conventional tillage, Northeast Research Farm
WARNER- Minimum-tillage, Allen & Inel Ryckman Farm (farm cooperators)

South Shore, Group-0 (Tables 1a & 1b): The 2-year and 2009 test-yield averages were **49** and **53** bushels per acre, respectively, and the lodging score average was **1** (table 1a). Varieties had to average **44** and **52** bushels or higher to be in the top-yield group for 2 years and for 2009, respectively. Variety yield differences among the 2-year averages were not significant (NS), while the 2009 variety yield differences had to differ by **7** bushels to be significantly different. Variety lodging score value differences were not significant, so all entries were in the top performance group for lodging resistance. The 2009 protein and oil test averages were **38.1%** and **18.4%**, respectively (table 1b). Variety protein and oil values had to average **40.3%** and **19.2%** or higher, respectively, to be in the top groups for protein and oil in 2009. Variety protein and oil averages had to differ by **1.0%** and **0.6%**, respectively, to be significantly different.

Warner, Group-0 (Tables 1a & 1b): The 2-year and 2009 test-yield averages were **52** and **61** bushels per acre, respectively, and the lodging score average was **1** (table 1a). Varieties had to average **54** and **65** bushels or higher to be in the top yield group for 2 years and for 2009, respectively. Variety yield averages had to differ by **5** bushels for 2 years and **4** bushels for 2009 to be significantly different. Variety lodging score value differences were not significant, so all entries were in the top performance group for lodging resistance. The 2009 protein and oil test averages were **37.9** and **21.1%**, respectively (table 1b). Variety protein values had to average **38.4%** or higher to be in the top groups for protein in 2009. Differences in oil percentage among the varieties tested in 2009 were non-significant (NS). Variety protein averages had to differ by **1.0%** to be significantly different.

Northern test zone, Group-0 (Tables 1a & 1b): The 2-year and 2009 test-yield averages were **50** and **57** bushels per acre, respectively, and the lodging score average was **1** (table 1a). In

2009, the protein and oil averages were **37.9** and **19.7%**, respectively (table 1b). However, there were significant year-by-location interactions for the 2-year yield and the 2009 yield averages; this means variety performance differed by location and year for the 2-year yield and differed by location for the 2009 yield in the Northern zone. In addition, there were significant variety by location interactions for the zone protein and oil averages. Therefore, **soybean producers are encouraged to evaluate variety performance differences for yield, protein, and oil percentage by using the yield, protein, and oil columns listed under each location** and not use the column averages listed for the Northern zone.

South Shore, Group-1 (Tables 2a & 2b): The 2-year and 2009 test-yield averages were **51** and **56** bushels per acre, respectively, and the lodging score average was **1** (table 2a). Varieties had to average **52** bushels and **57** bushels or higher to be in the top yield group for 2 years and for 2009, respectively. Variety yield differences among the 2-year averages were not significant (NS), while the 2009 variety yield differences had to differ by **4** bushels to be significantly different. Variety lodging score value differences were not significant, so all entries were in the top performance group for lodging resistance. The 2009 protein and oil test averages were **35.6** and **17.6%**, respectively (Table 2b). Variety protein and oil values had to average **37.5** and **18.2%** or higher, respectively, to be in the top groups for protein and oil in 2009. Variety protein and oil averages had to differ by **0.9** and **0.7%**, respectively, to be significantly different.

Warner, Group-1 (Tables 2a & 2b): The 2-year and 2009 test-yield averages were **51** and **64** bushels per acre, respectively, and the lodging score average was **1** (Table 2a). Varieties had to average **51** and **66** bushels or higher to be in the top yield group for 2 years and for 2009, respectively. Variety yield averages had to differ by **5** bushels for 2 years and **4** bushels for 2009 to be significantly different. Variety lodging score values had to equal **1** to be in the top performance group for lodging resistance and had to differ by **1** to be significantly different. The 2009 protein and oil test averages were **36.4** and **20.6%**, respectively (table 2b). Variety

protein and oil values had to average **37.0** and **21.0%** or higher, respectively, to be in the top groups for protein and oil in 2009. Variety protein and oil averages had to differ by **2.0** and **1.2%**, respectively, to be significantly different.

Northern test zone, Group-I (Tables 2a & 2b): The 2-year and 2009 test-yield averages were **51** and **60** bushels per acre, respectively, and the lodging score average was **1** (table 2a). In 2009, the protein and oil averages were **35.9** and **19.1%**, respectively (table 2b). However, there were significant year-by-location interactions for the 2-year yield and the 2009 yield averages; this means variety performance differed by location and year for the 2-year yield and differed by location for the 2009 yield in the Northern zone. In addition, there were significant variety by location interactions for the zone protein and oil averages. Therefore, **soybean producers are encouraged to evaluate variety performance differences for yield, protein, and oil percentage by using the yield, protein, and oil columns listed under each location** and not use the column averages listed for the Northern zone.

CENTRAL TEST ZONE

BROOKINGS– Conventional tillage, SDSU Plant Science Research Farm

BANCROFT– No-till, E. Weerts, Inc. (farm cooperators)

Brookings, Group-0 (Tables 3a & 3b): The 2-year and 2009 test-yield averages were **50** and **58** bushels per acre, respectively, and the lodging score average was **1** (table 3a). Varieties had to average **47** bushels and **59** bushels or higher to be in the top yield group for 2 years and for 2009, respectively. Variety yield differences among the 2-year averages were not significant (NS), while the 2009 variety yield differences had to differ by **4** bushels to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2009. The 2009 protein and oil test averages were **38.7** and **17.4%**, respectively, (table 3b). Differences in protein percentage among the varieties tested in 2009 were non-significant (NS). Variety oil values had to average **18.1%** or higher to be in the top groups for oil content in 2009. Variety oil averages had to differ by **0.7%** to be significantly different.

Bancroft, Group-0 (Tables 3a & 3b): The 2-year and 2009 test-yield averages were **48** and **41** bushels per acre, respectively, and the lodging score average was **1** (table 3a). Varieties had to average **44** and **50** bushels or higher to be in the top yield group for 2 years and for 2009, respectively. Variety yield differences among the 2-year averages were not significant, while the 2009 variety yield differences had to differ by **8** bushels to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2009. The 2009 protein and oil test averages were **35.8** and **19.3%**, respectively (table 3b). Variety protein and oil values had to average **36.7** and **20.2%** or higher, respectively, to be in the top groups for protein and oil in 2009. Variety protein and oil averages had to differ by **1.4** and **0.7%**, respectively, to be significantly different.

Central test zone, Group-0 (Tables 3a & 3b): The 2-year and 2009 test-yield averages were **47** and **50** bushels per acre, respectively, and the lodging score average was **1** (table 3a). In 2009, the protein and oil averages were **37.3** and **18.3%**, respectively (table 3b). However, there were significant year-by-location interactions for the 2-year yield and the 2009 yield averages; this means vari-

ety performance differed by location and year for the 2-year yield and differed by location for the 2009 yield in the Central zone. In addition, there were significant variety by location interactions for the zone protein and oil averages. Therefore, **soybean producers are encouraged to evaluate variety performance differences for yield, protein, and oil percentage by using the yield, protein, and oil columns listed under each location** and not use the column averages listed for the Central zone.

Brookings, Group-I (Tables 4a & 4b): The 2-year and 2009 test-yield averages were **52** and **61** bushels per acre, respectively, and the lodging score average was **1** (table 4a). Varieties had to average **51** and **64** bushels or higher to be in the top yield group for 2 years and for 2009, respectively. Variety yield averages had to differ by **4** bushels for both the 2-year and 2009 yield columns to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2009. The 2009 protein and oil test averages were **36.0** and **17.8%**, respectively (table 4b). Variety protein and oil values had to average **37.6** and **18.5%** or higher, respectively, to be in the top groups for protein and oil in 2009. Variety protein and oil averages had to differ by **1.3** and **0.7%**, respectively, to be significantly different.

Bancroft, Group-I (Tables 4a & 4b): The 2-year and 2009 test-yield averages were **48** and **46** bushels per acre, respectively, and the lodging score average was **1** (table 4a). Varieties had to average **46** and **52** bushels or higher to be in the top yield group for 2 years and for 2009, respectively. Variety yield averages had to differ by **12** bushels for 2 years and by **8** bushels for 2009 to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2009. The 2009 protein and oil test averages were **34.9** and **19.6%**, respectively (table 4b). Variety protein and oil values had to average **37.1** and **20.1%** or higher, respectively, to be in the top groups for protein and oil in 2009. Variety protein and oil averages had to differ by **1.5** and **0.8%**, respectively, to be significantly different.

Central test zone, Group-I (Tables 4a & 4b): The 2-year and 2009 test-yield averages were **50** and **54** bushels per acre, respectively, and the lodging score average was **1** (table 4a). In 2009, the protein and oil averages were **35.5** and **18.6%**, respectively (table 4b). However, there were significant year-by-location interactions for the 2-year yield and the 2009 yield averages; this means variety performance differed by location and year for the 2-year yield and differed by location for the 2009 yield in the Central zone. In addition, there were significant variety by location interactions for the zone protein and oil averages. Therefore, **soybean producers are encouraged to evaluate variety performance differences for yield, protein, and oil percentage by using the yield, protein and oil columns listed under each location** and not use the column averages listed for the Central zone.

Brookings, Group-II (Tables 5a & 5b): The 2-year and 2009 test-yield averages were **54** and **59** bushels per acre, respectively, and the lodging score average was **1** (table 5a). Varieties had to average **50** and **60** bushels or higher to be in the top yield group for 2 years and for 2009, respectively. Variety yield differences among the 2-year averages were not significant (NS), while the 2009 variety yield differences had to differ by **4** bushels to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in

2009. The 2009 protein and oil test averages were **37.1** and **17.9%**, respectively (table 5b). Variety protein and oil values had to average **39.2** and **18.8%** or higher, respectively, to be in the top groups for protein and oil in 2009. Variety protein and oil averages had to differ by **1.0** and **0.8%**, respectively, to be significantly different.

Bancroft, Group-II (Tables 5a & 5b): The 2-year and 2009 test-yield average were **47** and **44** bushels per acre, respectively, and the lodging score average was **1** (table 5a). Varieties had to average **45** and **54** bushels or higher to be in the top yield group for 2 years and for 2009, respectively. Variety yield averages had to differ by **6** bushels in both the 2-year and 2009 yield columns to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2009. The 2009 protein and oil test averages were **35.5** and **19.6%**, respectively (table 5b). Variety protein and oil values had to average **36.2** and **19.9%** or higher, respectively, to be in the top groups for protein and oil in 2009. Variety protein and oil averages had to differ by **1.7** and **0.8%**, respectively, to be significantly different.

Central test zone, Group-II (Tables 5a & 5b): The 2-year and 2009 test-yield averages were **51** and **52** bushels per acre, respectively, and the lodging score average was **1** (table 5a). In 2009, the protein and oil averages were **36.3** and **18.8%**, respectively (table 5b). However, there were significant year-by-location interactions for the 2-year yield and the 2009 yield averages; this means variety performance differed by location and year for the 2-year yield and differed by location for the 2009 yield in the Central zone. In addition, there were significant variety by location interactions for the zone protein and oil averages. Therefore, **soybean producers are encouraged to evaluate variety performance differences for yield, protein, and oil percentage by using the yield, protein, and oil columns listed under each location** and not use the column averages listed for the Central zone.

SOUTHERN TEST ZONE

BERESFORD— Conventional tillage, Southeast SD Agricultural Experiment Station.

GEDDES- No-till, Curtis Sybesma (farm cooperater)

Beresford, Group-I (Tables 6a & 6b): The 2-year and 2009 test-yield averages were **53** and **65** bushels per acre, respectively, and the lodging score average was **1** (table 6a). Varieties had to average **51** bushels and **68** bushels or higher to be in the top yield group for 2 years and for 2009, respectively. Variety yield averages had to differ by 7 bushels for 2 years and by 3 bushels for 2009 to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2009. The 2009 protein and oil test averages were **37.4** and **20.7%**, respectively (table 6b). Variety protein and oil values had to average **38.0** and **21.2%** or higher, respectively, to be in the top groups for protein and oil in 2009. Variety protein and oil averages had to differ by **1.4** and **0.9%**, respectively, to be significantly different.

Geddes, Group-I (Tables 6a & 6b): The 2-year and 2009 test-yield averages were **50** and **51** bushels per acre, respectively, and the lodging score average was **1** (table 6a). Varieties had to average **48** and **53** bushels or higher to be in the top yield group for 2 years and for 2009, respectively. Variety yield averages had to differ by **6** bushels for 2 years and by **5** bushels for 2009 to be

significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2009. The 2009 protein and oil test averages were **36.2** and **20.9%**, respectively (table 6b). Variety protein values had to average **36.0%** or higher to be in the top groups for oil content in 2009. Differences in oil percentage among the varieties tested in 2009 were non-significant (NS). Variety protein averages had to differ by **2.9%** to be significantly different.

Southern test zone, Group-I (Tables 6a & 6b): The 2-year and 2009 test-yield averages were **52** and **58** bushels per acre, respectively, and the lodging score average was **1** (table 6a). In 2009, the protein and oil averages were **36.8** and **20.8%**, respectively (table 6b). However, there were significant year-by-location interactions for the 2-year yield and the 2009 yield averages; this means variety performance differed by location and year for the 2-year yield and differed by location for the 2009 yield in the Southern zone. In addition, there were significant variety by location interactions for the zone protein and oil averages. Therefore, **soybean producers are encouraged to evaluate variety performance differences for yield, protein, and oil percentage by using the yield, protein, and oil columns listed under each location** and not use the column averages listed for the Southern zone.

Beresford, Group-II (Tables 7a & 7b): The 2-year and 2009 test-yield averages were **53** and **63** bushels per acre, respectively, and the lodging score average was **1** (table 7a). Varieties had to average **54** and **66** bushels or higher to be in the top yield group for 2 years and for 2009, respectively. Variety yield averages had to differ by **6** bushels for 2 years and by **5** bushels for 2009 to be significantly different. Variety lodging score values had to equal **1** to be in the top performance group for resisting lodging, and lodging values had to differ by **1** to be significantly different. The 2009 protein and oil test averages were **35.8** and **19.0%**, respectively (table 7b). Variety protein and oil values had to average **38.6** and **20.1%** or higher, respectively, to be in the top groups for protein and oil in 2009. Variety protein and oil averages had to differ by **1.0** and **0.7%**, respectively, to be significantly different.

Geddes, Group-II (Tables 7a & 7b): The 2-year and 2009 test-yield averages were **56** and **60** bushels per acre, respectively, and the lodging score average was **1** (table 7a). Varieties had to average **56** and **66** bushels or higher to be in the top yield group for 2 years and for 2009, respectively. Variety yield averages had to differ by **6** bushels for 2 years and by **5** bushels for 2009 to be significantly different. Variety lodging score values had to equal **1** to be in the top performance group for resisting lodging, and lodging values had to differ by **1** to be significantly different. The 2009 protein and oil test averages were **36.2** and **18.8%**, respectively (table 7b). Variety protein and oil values had to average **38.0** and **20.0%** or higher, respectively, to be in the top groups for protein and oil in 2009. Variety protein and oil averages had to differ by **2.0** and **1.1%**, respectively, to be significantly different.

Southern test zone, Group-II (Tables 7a & 7b): The 2-year and 2009 test-yield averages were **55** and **62** bushels per acre, respectively, and the lodging score average was **1** (table 7a). In 2009, the protein and oil averages were **35.9** and **18.9%**, respectively (table 7b). However, there were significant year-by-location interactions for the 2-year yield and the 2009 yield averages; this means variety performance differed by location and year for the 2-year yield and differed by location for the 2009 yield in the

Southern zone. In addition, there were significant variety by location interactions for the zone protein and oil averages. Therefore, **soybean producers are encouraged to evaluate variety performance differences for yield, protein, and oil percentage by using the yield, protein, and oil columns listed under each location** and not use the column averages listed for the Southern zone.

NON-GLYPHOSATE-RESISTANT SOYBEAN VARIETY TRIAL RESULTS

Note: Yield averages are reported 2-yr (2008-09) or for 2009.

SOUTH SHORE– Conventional tillage, Northeast Research Farm

South Shore, Group-0 (Tables 8a & 8b): The 2-year and 2009 test-yield averages were **40** and **46** bushels per acre, respectively, and the lodging score average was **1** (table 8a). Varieties had to average **37** bushels or higher for 2 years and **49** bushels or higher for 2009 to be in the top yield group. Variety yield averages had to differ by **6** bushels for 2 years and by **4** bushels for 2009 to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2009. The 2009 protein and oil test averages were **37.0** and **16.5%**, respectively (table 8b). Variety protein and oil values had to average **40.7** and **16.8%** or higher, respectively, to be in the top groups for protein and oil in 2009. Variety protein and oil averages had to differ by **1.1** and **0.8%**, respectively, to be significantly different.

South Shore, Group-I (Tables 8a & 8b): The 2-year and 2009 test-yield averages were **41** and **43** bushels per acre, respectively, and the lodging score average was **1** (table 8a). Varieties had to average **35** bushels or higher for 2 years and **43** bushels or higher for 2009 to be in the top yield group. Variety yield averages had to differ by **10** bushels for 2 years and by **4** bushels for 2009 to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2009. The 2009 protein and oil test averages were **37.0** and **16.5%**, respectively (table 8b). Variety protein and oil values had to average **38.4** and **17.1%** or higher, respectively, to be in the top groups for protein and oil in 2009. Variety protein and oil averages had to differ by **0.7** and **0.6%**, respectively, to be significantly different.

BROOKINGS– Conventional tillage, SDSU Agronomy Farm

Brookings, Group-0 (Tables 9a & 9b): The 2009 test-yield average was **48** bushels per acre, and the lodging score average was **1** (table 9a). Varieties had to average **54** bushels or higher for 2009 to be in the top yield group. Variety yield averages had to differ by **5** bushels for 2009 to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2009. The 2009 protein and oil test averages were **39.1** and **17.6%**, respectively (table 9b). Variety protein and oil values had to average **42.1** and **18.1%** or higher, respectively, to be in the top groups for protein and oil in 2009. Variety protein and oil averages had to differ by **0.8** and **0.3%**, respectively, to be significantly different.

Brookings, Group-I (Tables 9a & 9b): The 2009 test-yield average was **58** bushels per acre, and the lodging score average was **1** (table 9a). Varieties had to average **60** bushels or higher for 2009 to be in the top yield group. Variety yield averages had to differ by **4** bushels for 2009 to be significantly different. Variety lodging score values indicated there was no difference in lodging

resistance in the varieties tested in 2009. The 2009 protein and oil test averages were **37.4** and **17.8%**, respectively (table 9b). Variety protein and oil values had to average **39.1** and **18.3%** or higher, respectively, to be in the top groups for protein and oil in 2009. Variety protein and oil averages had to differ by **0.8** and **0.7%**, respectively, to be significantly different.

Brookings, Group-II (Tables 9a & 9b): The 2009 test-yield average was **50** bushels per acre, and the lodging score average was **1** (table 9a). Varieties had to average **52** bushels or higher for 2009 to be in the top yield group. Variety yield averages had to differ by **4** bushels for 2009 to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2009. The 2009 protein and oil test averages were **37.4** and **18.4%**, respectively (table 9b). Variety protein and oil values had to average **37.4** and **18.3%** or higher, respectively, to be in the top groups for protein and oil in 2009. Variety protein and oil averages had to differ by **0.9** and **1.0%**, respectively, to be significantly different.

BERESFORD– Conventional tillage, Southeast Agricultural Experiment Station

Beresford, Group-I (Tables 10a & 10b): The 2009 test-yield average was **50** bushels per acre, and the lodging score average was **2** (table 10a). Varieties had to average **48** bushels or higher for 2009 to be in the top yield group. Variety yield averages had to differ by **6** bushels for 2009 to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2009. The 2009 protein and oil test averages were **37.3** and **18.3%**, respectively (table 10b). Variety protein and oil values had to average **38.7** and **18.7%** or higher, respectively, to be in the top groups for protein and oil in 2009. Variety protein and oil averages had to differ by **1.4** and **0.4%**, respectively, to be significantly different.

Beresford, Group-II (Tables 10a & 10b): The 2009 test-yield average was **55** bushels per acre, and the lodging score average was **2** (table 10a). Varieties had to average **55** bushels or higher for 2009 to be in the top yield group. Variety yield averages had to differ by **5** bushels for 2009 to be significantly different. Variety lodging scores had to differ by **1** to be significantly different in lodging resistance. The 2009 protein and oil test averages were **36.2** and **18.8%**, respectively (table 10b). Variety protein and oil values had to average **36.6** and **19.3%** or higher, respectively, to be in the top groups for protein and oil in 2009. Variety protein and oil averages had to differ by **0.8** and **0.6%**, respectively, to be significantly different.

Table A. Nearest weather station precipitation accumulation and average daily temperatures for each growing season month in 2009 and departures from average (DFA), SD Office of Climate and Weather.

Station (Test site)	Variable	Monthly data - April 1 to October 31							Sum or Average
		April	May	June	July	Aug	Sept	Oct	
Aberdeen Airport (Warner)	Precip.- inches '09	1.90	0.47	3.87	2.46	2.83	4.41	4.00	19.94
	1971-2000 avg.	1.83	2.69	3.49	2.92	2.42	1.81	1.63	16.79
	DFA*	0.07	-2.22	0.38	-0.46	0.41	2.60	2.37	3.15
	Avg.Temp. -°F '09	43.0	56.4	64.0	68.0	66.5	63.5	41.4	57.54
1971-2000 avg.	45.4	57.9	66.8	72.2	70.5	59.8	46.8	59.91	
	DFA	-2.4	-1.5	-2.8	-4.2	-4.0	3.7	-5.4	-2.37
South Shore, Northeast Research Farm	Precip.- inches '09	1.09	1.73	2.70	3.97	3.60	1.62	6.53	21.24
	1971-2000 avg.	1.96	2.61	4.01	2.91	2.85	2.03	1.92	18.29
	DFA	-0.87	-0.88	-1.31	1.06	0.75	-0.41	4.61	2.95
	Avg.Temp. -°F '09	40.7	54.3	61.9	64.0	63.9	61.1	38.1	54.86
1971-2000 avg.	43.2	56.0	65.3	70.4	67.8	57.8	45.0	57.93	
	DFA	-2.5	-1.7	-3.4	-6.4	-3.9	3.3	-6.9	-3.07
Huron (Bancroft)	Precip.- inches '09	1.68	2.08	4.45	2.95	1.57	2.54	3.87	19.14
	1971-2000 avg.	2.29	3.00	3.28	2.86	2.07	1.80	1.59	16.89
	DFA	-0.61	-0.92	1.17	0.09	-0.50	0.74	2.28	2.25
	Avg.Temp. -°F '09	44.5	58.5	65.0	69.0	68.5	64.5	42.0	58.86
1971-2000 avg.	46.1	58.2	67.9	73.4	71.5	61.0	47.9	60.86	
	DFA	-1.6	0.3	-2.9	-4.4	-3.0	3.5	-5.9	-2.00
Brookings, SDSU Plant Science Farm	Precip.- inches '09	0.86	2.23	3.32	3.78	1.37	1.25	5.33	18.14
	1971-2000 avg.	2.03	2.95	4.23	3.11	2.94	2.48	1.78	19.52
	DFA	-1.17	-0.72	-0.91	0.67	-1.57	-1.23	3.55	-1.38
	Avg.Temp. -°F '09	44.4	56.9	66.2	70.7	68.5	58.9	46.0	58.80
1971-2000 avg.	44.2	56.7	66.1	70.7	68.6	59.1	46.3	58.81	
	DFA	0.2	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.01
Centerville, 6 SE, Southeast Experiment Station	Precip.- inches '09	1.60	0.94	4.64	4.82	2.08	2.16	4.72	20.96
	1971-2000 avg.	2.47	3.65	3.95	3.35	2.83	2.26	1.80	20.31
	DFA	-0.87	-2.71	0.69	1.47	-0.75	-0.10	2.92	0.65
	Avg.Temp. -°F '09	47.4	59.7	69.5	73.7	71.4	62.6	49.4	61.96
1971-2000 avg.	47.2	59.5	69.4	73.7	71.5	62.3	49.7	61.90	
	DFA	0.2	0.2	0.1	0.0	-0.1	0.3	-0.3	0.06
White Lake (Geddes)	Precip.- inches '09	0.96	1.18	3.11	3.4	2.63	1.72	3.68	16.68
	1971-2000 avg.	2.49	3.6	3.19	2.88	2.21	2.09	1.59	18.05
	DFA	-1.53	-2.42	-0.08	0.52	0.42	-0.37	2.09	-1.37
	Avg.Temp. -°F '09	43.7	58.0	65.1	68.0	67.5	62.7	49.5	59.21
1971-2000 avg.	47.9	59.7	69.0	74.5	72.7	62.8	49.8	62.34	
	DFA	-4.2	-1.7	-3.9	-6.5	-5.2	-0.1	-0.3	-3.13

* DFA - departure from normal, difference current year is greater or less (-) than the long-term average.

Table B. Description of trial locations- soil type, tillage, prior crop, herbicides and inoculants, and seeding dates.

Location (County)	Soils & Management		Prior crop	Herbicides Applied at label rates				Insecticides	Date seeded
	Type	Tillage Method		Glyphosate Trials		Non- glyphosate Trials				Applied at label rates
				Pre	Post	Pre	Post		
Warner (Brown)	Harmony-Aberdeen silty clay loam, 0-2% slope	No-till	Corn	None	Roundup once	-	-	Asana (ground)	May 21
South Shore (Codington)	Kranzburg silty clay loam, 3-6% slope	Conventional	Spring wheat	2 pt, Dual II Magnum	Roundup once	2 pt, Dual II Magnum	Harmony	Warrior (aerial)	May 22
Bancroft (Kingsbury)	Houdek-Stickney-Tetonka loam, 0-3% slope	No-till	Corn	None	Roundup once	-	-	Asana (ground)	May 20
Brookings (Brookings)	Barnes clay loam, 0-2% slope	Conventional	Spring wheat	None	Roundup twice	None	Harmony/Poast	Asana (ground)	May 19
Geddes (Chas. Mix)	Highmore-Walke silt loam, 0-2% slope	No-till	Corn	None	Roundup once	-	-	None	June 1
Beresford (Clay)	Egan-Clarno-Trent silty clay loam, 0-2% slope	Conventional	Corn	None	Roundup once/ Select		Harmony/Classic	None	26-May

* Nitragin Soybean Soil Implant was applied down the seed tube at label rates at planting.

Table C. *Phytophthora* root rot race resistance by gene.

Gene	Gene Code	Race Resistance
rps1	0	None
Rps1, Rps1a	1A	1-2,10-11,13,15-18,24
Rps1b	1B	1,3-9,13-15,18,21-22
Rps1c	1C	1-3,6-11,13,15,17,21,23-24
Rps1k	1K	1-11,13-15,17-18,21-22,24
Rps2	2	1-5,9-20
Rps3	3	1-5,8-9,11,13-14,16,18,23,25
Rps4	4	1-4,10,12-16,18-21,25
Rps5	5	1-5,8-9,11-14,18,20,25
Rps6	6	1-4,10,12,14-16,18-21,25
Rsp7	7	16,18,19
Rps1k, Rps6	K6	1-22,24-25
Rps1c, Rps3	C3	1-10,13-18,22-25
Rps1b	B3	1-9,13-16,18,21-23,25
MIX	MIX	Resistant & Susceptible Plants
NR	NR	Not Reported

Table D. Index to 2009 Glyphosate-resistant soybean entries by brand/variety, maturity group, seed trt., gene code for *Phytophthora* root rot (PRR) resistance as reported by entrants, and performance table no.(s). Use table C to determine entry PRR strain resistance.

Brand / Variety	Mat. Grp.	Seed Trt.	Gene Code*	Table No.(s)	Brand / Variety	Mat. Grp.	Seed Trt.	Gene Code*	Table No.(s)
ASGROW/ AG0803	0.8	Cruiser Maxx	1K	1	GOLD COUNTRY/ EXP 1940	1.9	Acceleron	NR	4
ASGROW/ AG0808	0.8	Cruiser Maxx	1K	1	HEFTY/ 089R	0.8	Not reported	1K	1
ASGROW/ AG1102	1.1	Cruiser Maxx	1K	2	HEFTY/ 108	1	Not reported	1K	2
ASGROW/ AG1403	1.4	Cruiser Maxx	0	2,4	HEFTY/ 117R	1.1	Not reported	0	2
ASGROW/ AG1506	1.5	Cruiser Maxx	1K	2,4	HEFTY/ 139R	1.3	Not reported	0	2
ASGROW/ AG1702	1.7	Cruiser Maxx	1K	2,4	HEFTY/ 159R	1.5	Not reported	1K	2,4
ASGROW/ AG1703	1.7	Cruiser Maxx	1K	2,4	HEFTY/ 168R	1.6	Not reported	0	2,4
ASGROW/ AG2108	2.1	Cruiser Maxx	0	5	HEFTY/ 179R	1.7	Not reported	0	4
ASGROW/ AG2839	2.8	Acceleron+Insecticide	1C	7	HEFTY/ 199R	1.9	Not reported	0	4
ASGROW/ AG2939	2.9	Acceleron+Insecticide	1K	7	HEFTY/ 218RN	2.1	Not reported	1C	5,7
ASGROW/ DKB22-52	2.2	Cruiser Maxx	0	5	HEFTY/ 229R	2.2	Not reported	0	5,7
ASGROW/ DKB27-52	2.7	Cruiser Maxx	1C	7	HEFTY/ 248R	2.4	Not reported	3	7
ASGROW/ RY0809	0.8	Acceleron+Insecticide	1C	1	HEFTY/ 259R	2.5	Not reported	1K	7
ASGROW/ RY0819	0.8	Acceleron+Insecticide	1C	1	HEFTY/ 279R	2.7	Not reported	1C	7
ASGROW/ RY1709	1.7	Acceleron+Insecticide	1K	2,4	HEFTY/ EXP070R	0.7	Not reported	0	1
ASGROW/ RY1719	1.7	Acceleron+Insecticide	0	2,4	HEFTY/ EXP200R	2	Not reported	1K	5,7
ASGROW/ RY2119	2.1	Acceleron+Insecticide	MX	5	KALTENBERG/ EXP 2010	2	Trilex 2000+CelGard	1K	5
ASGROW/ RY2409	2.4	Acceleron+Insecticide	1C	7	KALTENBERG/ EXP 2510	2.5	Trilex 2000+CelGard	NR	7
ASGROW/ RY2419	2.4	Acceleron+Insecticide	1K	7	KALTENBERG/ EXP 2710	2.7	Trilex 2000+CelGard	NR	7
ASGROW/ RY2809	2.8	Acceleron+Insecticide	1C	7	KALTENBERG/ KB1809RR	1.8	Trilex 2000+CelGard	0	4
ASGROW/ RY2929	2.9	Acceleron+Insecticide	MX	7	KALTENBERG/ KB249RR	2.4	Trilex 2000+CelGard	0	7
CHANNEL BRAND/ 2551R2	2.5	Apron Max	1K	7	KALTENBERG/ KB2609RR	2.6	Trilex 2000+CelGard	0	7
CHANNEL BRAND/ 1651R	1.6	Apron Max	1K	2,4	KRUGER/ EXPK2X05A9	0.5	Acceleron	1K	1,3
CHANNEL BRAND/ 2151R	2.1	Apron Max	1K	5	KRUGER/ EXPK2X06A9	0.6	Acceleron	NR	1,3
CHANNEL BRAND/ 2200R2	2.2	Acceleron	1C	5,7	KRUGER/ EXPK2X09A9	0.9	Acceleron	1C	1,3
CHANNEL BRAND/ 2400R2	2.4	Acceleron	1C	7	KRUGER/ EXPK2X10A9	1	Acceleron	1C	2,4
DAIRYLAND/ DSR-0747/R2Y	0.9	Not reported	1C	1	KRUGER/ EXPK2X11B9	1.1	Acceleron	NR	2,4
DAIRYLAND/ DSR-1100/RR	1.1	Not reported	NR	2	KRUGER/ EXPK2X14A9	1.4	Acceleron	1C	2,4,6
DAIRYLAND/ DSR-1200/R2Y	1.2	Not reported	1K	2	KRUGER/ EXPK2X15B9	1.5	Acceleron	C	2,4,6
DAIRYLAND/ DSR-1807/R2Y	1.8	Not reported	1C	4	KRUGER/ EXPK2X16A9	1.6	Acceleron	1K	6
DAIRYLAND/ DSR-2132/R2Y	2.1	Not reported	1C	7	KRUGER/ EXPK2X19B9	1.9	Acceleron	1C	2,4,6
DAIRYLAND/ DSR-2200/RR	2.2	Not reported	NR	7	KRUGER/ EXPK2X21A9	2.1	Acceleron	NR	5,7
DAIRYLAND/ DSR-2440/R2Y	2.4	Not reported	1C	7	KRUGER/ K-042RR	0.4	Cruiser Maxx	1A	1,3
DAIRYLAND/ DSR-2525RRAP	2.5	Not reported	NR	7	KRUGER/ K-058RR	0.5	Cruiser Maxx	1K	1,3
DAIRYLAND/ DSR-2560/RR	2.5	Not reported	NR	7	KRUGER/ K-072+RR	0.8	Cruiser Maxx	1A	1,3
DAIRYLAND/ DSR-2770/RR	2.7	Not reported	1K	7	KRUGER/ K-091RR	0.9	Cruiser Maxx	0	1,3
DAIRYLAND/ DSR1423RRSTS	1.4	Not reported	NR	2,4	KRUGER/ K-129RR	1.2	Cruiser Maxx	0	2,4
DAIRYLAND/ DST11-001R2Y	1.1	Not reported	NR	2	KRUGER/ K-163RR	1.6	Cruiser Maxx	MX	4
DAIRYLAND/ DST14-003R2Y	1.4	Not reported	NR	2,4	KRUGER/ K-167RR/SCN	1.6	Cruiser Maxx	1K	2,4,6
DAIRYLAND/ DST20-002/RR	2	Not reported	NR	7	KRUGER/ K-189RR/SCN	1.8	Cruiser Maxx	1K	2,4,6
DAIRYLAND/ DST22-006R2Y	2.2	Not reported	1K	7	KRUGER/ K-204RR/SCN	2	Cruiser Maxx	1K	5,7
DAIRYLAND/ DST25-003R2Y	2.5	Not reported	NR	7	KRUGER/ K-228RR/SCN	2.2	Cruiser Maxx	1K	7
G-2 GENETICS/ 6088	0.8	Cruiser Maxx	NR	1,3	KRUGER/ K-239RR	2.3	Cruiser Maxx	0	7
G-2 GENETICS/ 6098	0.9	Cruiser Maxx	1K	1,3	KRUGER/ K-249RR/SCN	2.4	Cruiser Maxx	0	5,7
G-2 GENETICS/ 6159	1.5	Cruiser Maxx	1K	2,4,6	KRUGER/ K-271RR	2.7	Cruiser Maxx	1K	7
G-2 GENETICS/ 6247	2.4	Cruiser Maxx	1K	5	KRUGER/ K-274RR/SCN	2.7	Cruiser Maxx	0	7
G-2 GENETICS/ 6279	2.7	Cruiser Maxx	1K	7	KRUGER/ K2-1901	1.9	Acceleron	1K	2,4,6
G-2 GENETICS/ 7129	1.2	Cruiser Maxx	1K	2,4	KRUGER/ K2-2701	2.7	Acceleron	0	5,7
G-2 GENETICS/ 7186	1.7	Cruiser Maxx	1K	4,6	KRUGER/ K2-2801	2.8	Acceleron	1C	7
G-2 GENETICS/ 7208	2	Cruiser Maxx	1C	5,7	MUSTANG/ M-09330	0.9	Trilex 6000	1C	1,3
G-2 GENETICS/ 7212	2.1	Cruiser Maxx	1K	5,7	MUSTANG/ M-09920	0.9	Trilex 6000	1C	1,3
G-2 GENETICS/ 7226	2.2	Cruiser Maxx	1K	5,7	MUSTANG/ M-13320	1.3	Trilex 6000	1C	2,4
G-2 GENETICS/ 7255	2.5	Cruiser Maxx	1K	5	MUSTANG/ M-159NRR	1.5	Trilex 6000	1K	2,4
G-2 GENETICS/ 7288	2.8	Cruiser Maxx	1K	7	MUSTANG/ M-168RR	1.6	Trilex 6000	0	2,4
GOLD COUNTRY/ 1915NRR	1.5	Not reported	1K	2,4	MUSTANG/ M-177NRR	1.7	Trilex 6000	1K	4
GOLD COUNTRY/ 2509RR	0.9	Not reported	0	1	MUSTANG/ M-190NRR	1.9	Trilex 6000	1C	4
GOLD COUNTRY/ 2713RR	1.3	Not reported	1K	2,4	MUSTANG/ M-19990	1.9	Trilex 6000	1C	4
GOLD COUNTRY/ 2815RR	1.5	Not reported	0	2,4	MUSTANG/ M-20420	2	Trilex 6000	1K	5
GOLD COUNTRY/ 8820NRR	2.1	Not reported	1K	5,7	MUSTANG/ M-209NRR	2	Trilex 6000	0	5

Table D. Index to 2009 Glyphosate-resistant soybean entries (Continued).

Brand / Variety	Mat. Grp.	Seed Trt.	Gene Code*	Table No.(s)	Brand / Variety	Mat. Grp.	Seed Trt.	Gene Code*	Table No.(s)
MUSTANG/ M-21320	2.1	Trilex 6000	1C	5	PRAIRIE BR./ PB-1999NRR2	1.9	Acceleron	1K	6
MUSTANG/ M-219RR	2.1	Trilex 6000	0	5	PRAIRIE BR./ PB-2058NRR	1.9	Trilex 6000	1K	4,6
MUSTANG/ M-23530	2.3	Trilex 6000	0	5,7	PRAIRIE BR./ PB-2099NRR2	2	Acceleron	1C	5,7
MUSTANG/ M-24620	2.4	Trilex 6000	1C	5,7	PRAIRIE BR./ PB-2117NRR	2.1	Trilex 6000	0	5
MUSTANG/ M-259NRR	2.4	Trilex 6000	1K	7	PRAIRIE BR./ PB-2147RR	2.1	Trilex 6000	0	5
MUSTANG/ M-270NRR	2.7	Trilex 6000	1C	7	PRAIRIE BR./ PB-2207NRR	2.2	Trilex 6000	1K	5,7
MUSTANG/ M-28929	2.8	Trilex 6000	1C	7	PRAIRIE BR./ PB-2243RR	2.2	Trilex 6000	1K	5
MUSTANG/ M-318RR	2.9	Trilex 6000	1C	7	PRAIRIE BR./ PB-2278RR	1.9	Trilex 6000	0	4,6
NUTECH/ 0886RR	0.8	Cruiser Maxx	NR	1,3	PRAIRIE BR./ PB-2419RR2	2.4	Acceleron	0	5,7
NUTECH/ 0889RR	0.8	Cruiser Maxx	NR	1	PRAIRIE BR./ PB-2439NRR2	2.4	Acceleron	1C	5,7
NUTECH/ 0990RR	0.9	Cruiser Maxx	NR	1,3	PRAIRIE BR./ PB-2515RR	2.5	Trilex 6000	1K	7
NUTECH/ 1808RN	1.8	Cruiser Maxx	1C	4,6	PRAIRIE BR./ PB-2558NRR	2.4	Trilex 6000	0	5,7
NUTECH/ 2324+RN	2.3	Cruiser Maxx	NR	7	PRAIRIE BR./ PB-2667NRR	2.6	Trilex 6000	1C	7
NUTECH/ 2660RN	2.6	Cruiser Maxx	1C	7	PRAIRIE BR./ PB-2828NRR2	2.8	Acceleron	1C	7
NUTECH/ 2707RR	2.7	Cruiser Maxx	NR	7	PROSEED/ 61-00	1	Cruiser Maxx	0	2
NUTECH/ 6122	0.9	Cruiser Maxx	1K	1,3	PROSEED/ 80-90	0.9	Cruiser Maxx	0	1
NUTECH/ 6145	1.4	Cruiser Maxx	NR	2,4	PROSEED/ 81-30	1.3	Cruiser Maxx	0	2,4
NUTECH/ 6156	1.5	Cruiser Maxx	NR	2,4	PROSEED/ 81-50	1.3	Cruiser Maxx	1K	2,4
NUTECH/ 6166	1.6	Cruiser Maxx	1K	2	PROSEED/ 81-90	1.9	Cruiser Maxx	1C	6
NUTECH/ 6191	1.9	Cruiser Maxx	NR	4	PROSEED/ 82-00N	2	Cruiser Maxx	1K	7
NUTECH/ 6193	1.9	Cruiser Maxx	NR	2,4,6	REA/ EXP-1054	1.4	Not reported	1C	2,4
NUTECH/ 6205+RR	1.9	Cruiser Maxx	1K	2,4,6	REA/ EXP-1056	1.6	Not reported	1K	2,4
NUTECH/ 6211	2.1	Cruiser Maxx	NR	5,7	REA/ EXP-1059	1.9	Not reported	1C	2,4
NUTECH/ 6234RR	2.3	Cruiser Maxx	1K	5	REA/ EXP-1062	2.2	Not reported	1C	5
NUTECH/ 6244	2.4	Cruiser Maxx	NR	5,7	REA/ EXP-1064	2.4	Not reported	1C	5
NUTECH/ 7199	1.9	Cruiser Maxx	1C	4	REA/ EXP-1068	2.8	Not reported	1C	5
NUTECH/ 7203	2	Cruiser Maxx	1K	5	RENK/ RS110R2	1.1	Acceleron	1C	4
NUTECH/ 7222	2.2	Cruiser Maxx	1K	5,7	RENK/ RS140NR2	1.4	Acceleron	1C	4
NUTECH/ 7269	2.6	Cruiser Maxx	1C	7	RENK/ RS160NR2	1.6	Acceleron	1K	4
NUTECH/ 7274	2.7	Cruiser Maxx	1K	7	RENK/ RS179NRR	1.7	Not reported	NR	4
PIONEER/ 90Y50	0.5	Cruiser Maxx	1K	1	RENK/ RS180R2	1.8	Acceleron	1C	4
PIONEER/ 90Y80	0.8	Cruiser Maxx	0	1	RENK/ RS200NR2	2	Acceleron	1K	5
PIONEER/ 91Y90	1.9	Cruiser Maxx	0	2,4	RENK/ RS210NR2	2	Acceleron	1C	5
PIONEER/ 92Y10	2.1	Cruiser Maxx	1K	5	RENK/ RS259NRR	2.5	Not reported	NR	7
PIONEER/ 92Y30	2.3	Cruiser Maxx	1K	5,7	RENK/ RS270NR2	2.7	Acceleron	1C	7
PIONEER/ 92Y80	2.8	Cruiser Maxx	1K	7	RENK/ RS277NRR	2.7	Not reported	NR	7
PIONEER/ 93M11	3.1	Cruiser Maxx	1K	7	SEEDS 2000/ 2081RR	0.8	Not reported	1K	1
PRAIRIE BR./ PB-3039NRR2	2.9	Acceleron	1C	7	SEEDS 2000/ 2120RR	1.2	Not reported	1K	2
PRAIRIE BR./ EXP 109	0.9	Acceleron	1C	1,3	SODAK GEN./ SD1093RR	0.9	Not reported	0	1,3
PRAIRIE BR./ EXP 119	0.9	Acceleron	1C	1,3	SODAK GEN./ SD1161RR/SCN	1.6	Not reported	1A	2,4,6
PRAIRIE BR./ EXP 129	0.9	Acceleron	1C	1	SODAK GEN./ SD2081RR	0.8	Not reported	0	1,3
PRAIRIE BR./ EXP 141	1.4	Acceleron	1C	2,4	SODAK GEN./ SD2121RR	1.2	Not reported	1K	2,4,6
PRAIRIE BR./ EXP 158	1.5	Acceleron	0	2,4	STINE/ 1008-4	1	Trilex 6000	0	2
PRAIRIE BR./ EXP 179	1.6	Acceleron	1K	2,4	STINE/ 1108-4	1.1	Trilex 6000	0	2
PRAIRIE BR./ EXP 195	2	Acceleron	1K	5	STINE/ 1423-4	1.4	Trilex 6000	1K	4
PRAIRIE BR./ EXP 199	1.9	Acceleron	1C	2,4,6	STINE/ 1568-4	1.5	Trilex 6000	1K	4
PRAIRIE BR./ EXP 201	1.9	Acceleron	1C	4,6	STINE/ 2062-4	2	Trilex 6000	1K	5
PRAIRIE BR./ EXP 207	2	Acceleron	0	5,7	STINE/ 2420-4	2.4	Trilex 6000	0	7
PRAIRIE BR./ EXP 215	1.9	Acceleron	0	4,6	STINE/ 2538-4	2.5	Trilex 6000	1K	7
PRAIRIE BR./ EXP 217	1.9	Trilex 6000	0	6	STINE/ 3132-4	2.9	Trilex 6000	1C	7
PRAIRIE BR./ EXP 220	1.9	Trilex 6000	1K	6	STINE/ EXP 2482-4	2.4	Trilex 6000	1K	7
PRAIRIE BR./ PB-0779RR	0.7	Trilex 6000	0	1	WENSMAN/ W 2079RR	0.7	Cruiser Maxx	0	1
PRAIRIE BR./ PB-0954RR	0.9	Trilex 6000	0	1	WENSMAN/ W 2112RR	1.1	Cruiser Maxx	NR	2,4
PRAIRIE BR./ PB-0999RR	0.9	Trilex 6000	0	1	WENSMAN/ W 2166RR	1.6	Cruiser Maxx	0	2,4
PRAIRIE BR./ PB-1337RR	1.3	Trilex 6000	0	2	WENSMAN/ W 2222NRR	2.2	Cruiser Maxx	1K	5,7
PRAIRIE BR./ PB-1597RR	1.5	Trilex 6000	0	2,4	WENSMAN/ W 3186R2	1.8	Cruiser Maxx	1C	4,6
PRAIRIE BR./ PB-1918RR	1.9	Trilex 6000	0	2,4,6	WENSMAN/ W 3192NR2	1.9	Cruiser Maxx	1C	4,6
PRAIRIE BR./ PB-1956RR	1.9	Trilex 6000	1C	6	WENSMAN/ W 3280NR2	2.8	Cruiser Maxx	1C	7

NR indicates gene code was not reported by seed entrant.

Table E. Index of 2009 Conventional soybean entries by brand/variety, maturity group, seed trt., and gene code for *Phytophthora* root rot resistance as reported by entrants; and performance table no.(s) Strain or race resistance by gene type is reported in table C.

Brand / Variety	Mat. Grp.	Seed Trt.	Gene Code*	Table No.(s)
MUSTANG/ ML-0979	0.9	Not reported	Rps1k	8,9
MUSTANG/ ML-1520	1.5	Not reported	Rps1k	8,9
MUSTANG/ ML-1889	1.8	Not reported	Rps1c	9
MUSTANG/ ML-2269	2.2	Not reported	rps1 - None	9,10
MUSTANG/ ML-2670	2.6	Not reported	Rps1k	10
PROSEED/ LL81-60	1.6	Cruiser Maxx	Rps1k	9
PROSEED/ LL91-12	1.1	Cruiser Maxx	Rps1k	9
PUBLIC/DAVISON	2.2	Not reported	Rps1 (Rps1a)	9,10
PUBLIC/DEUEL	1.1	Not reported	Rps1k	8,9,10
PUBLIC/HAMLIN	0.9	Not reported	Rps1k	8,9
PUBLIC/MN0806CN	0.8	Not reported	NR	8,9
PUBLIC/MN0908CN	0.9	Not reported	NR	8,9
PUBLIC/MN1410	1.4	Not reported	NR	8,9,10
PUBLIC/MN1505SP	1.5	Not reported	NR	8,9,10
PUBLIC/MN1701CN	1.7	Not reported	NR	10-Aug
PUBLIC/SD00-1501	0	Not reported	NR	8,9
PUBLIC/SD05-240	1	Not reported	NR	8,9
PUBLIC/SD05-248	2	Not reported	NR	9,10
PUBLIC/SD05-273	2	Not reported	NR	9,10
PUBLIC/SD05-274	2	Not reported	NR	9,10
PUBLIC/SD05-767	0	Not reported	NR	8,9
PUBLIC/SURGE	0.7	Not reported	NR	8,9
RICHLAND ORG./ MK0508	0.5	Not reported	rps1 - None	8
RICHLAND ORG./ MK0649	0.6	Not reported	rps1 - None	8
RICHLAND ORG./ MK1016	1	Not reported	rps1 - None	8

* NR indicates gene code was not reported by seed entrant.

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Table F. Explanation of performance table footnotes.

No.	Explanation of footnotes
[1]	Days to maturity (DTM) – the number of days to maturity from seeding to 95% brown pod.
[2]	Lodging scores: 0 = all plants erect, 3 = 50% of plants lodged at 45°-angle, 5 = all plants flat.
[3]	Least Significant Difference (LSD 0.05) – the difference two values within a column must equal or exceed to be significantly different from one another at the 0.05 level of probability. If the difference is less than the LSD value, the difference between the values is nonsignificant (NS).
[4]	TPG-avg. – the minimum value within a column that entry yield values must equal or exceed to qualify for the top-performance group (TPG).
[5]	TPG-avg. – the maximum value within a column that lodging score values must equal or be less than to qualify for the TPG.
[6]	Coefficient of variation (C.V.) – the percent of experimental error associated with a test trial. Ideally, the CV value for yield is less than 15%. Values less than 5% tend to be less common, while values of 6 to 15% are more common. Occasionally, values exceed 15%; this means the trial contained too much experimental error to be a valid test; thus, no data for that table column is reported.

Table G. Mailing addresses of entrants in the 2009 soybean trials.

Entrant name (brand name) & Mailing address
Dairyland Seed Co., Inc. (Dairyland), PO Box 958, West Bend, WI 53095
Gold Country Seed Inc. (Gold Country Seed), 16506 Hwy 15 N., PO Box 604, Hutchinson, MN 55350
G2 Genetics (G2), 36131 Hwy 69N, Forest City, IA 50436
Hefty Seed Co. (Hefty), 47504 252nd St., Baltic, SD 57003
Kaltenberg Seeds (Kaltenberg), 5506 State Rd 19, PO Box 278, Waunakee, WI 53597-0278
Kruger Seed Co. (Kruger), 33938 160th Ave., PO Box A, Dike, IA 50624
Channel Bio. Corp. (Channel), 1551 Hwy 210, Huxley, IA 50124
Monsanto (Asgrow), 102 West Carol Ave., Cortland, IL 60112
Mustang Seeds (Mustang), PO Box 466, Madison, SD 57042
Nutech Seed, LLC (Nutech), 36131 Hwy 69N, Forest City, IA 50436
Pioneer Hi-Bred Intl. (Pioneer), 151 St. Andrews Ct., Mankato, MN 56001
Prairie Brand Seed Co. (Prairie Brand), 15 X Ave., Story City, IA 50248
Proseed (Proseed), 705 East Brewster St., Harvey, ND 58341
REA Hybrids, (REA), 537 Ave. S, Moorhead, MN 56560
Renk Seed Co. (Renk), 6809 Wilburn Rd., Sun Prairie, WI 53590
Richland Organics, Inc. (Richland Organics), 100 Tenth St. North, Breckenridge, MN 56520
Seeds 2000 (Seeds 2000), PO Box 200, Breckenridge, MN 56520
Sodak Genetics (Sodak), 1200 North Campus Dr., Brookings, SD 57007
Stine Seed Co.(Stine), 14605 University Ave., Waukee, IA 50263
Wensman Seed Co.(Wensman), 67784 330th St., Watkins, MN 55389

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Table 1a. Glyphosate-resistant maturity group-0 soybean variety yield and lodging averages- northern South Dakota locations, 2008-2009. Entries are sorted by 2-Yr then by 2009 zone yield.

Brand/Variety	DTM [1]	Northern Averages by Location						Northern Zone Averages			
		South Shore			Warner			Yield-bu/a		2009 Lodg.	
		Yield-bu/a		2009 Lodg.	Yield-bu/a		2009 Lodg.	Yield-bu/a		2009 Lodg.	
		2-Yr	2009	(1-5) [2]	2-Yr	2009	(1-5) [2]	2-Yr	2009	(1-5) [2]	[2]
NUTECH/ NT-0886	126	51	50	1	59	69	1	55	60	1	
NUTECH/ NT-0990	127	52	53	1	51	63	1	52	58	1	
PRAIRIE BR./ PB-0954RR	124	47	52	1	52	60	1	50	56	1	
ASGROW/ AG0808	124	46	49	1	53	61	1	50	55	1	
HEFTY/ EXP089R	124	48	53	1	49	60	1	49	57	1	
SODAK GEN./ SD1093RR	124	44	49	1	48	60	1	46	55	1	
MUSTANG/ M-09330	129	.	57	1	.	65	1	.	61	1	
PRAIRIE BR./ EXP 109	126	.	56	1	.	65	1	.	61	1	
SEEDS 2000/ 2081RR	126	.	57	1	.	62	1	.	60	1	
DAIRYLAND/ DSR-0747/R2Y	123	.	55	1	.	62	1	.	59	1	
PRAIRIE BR./ PB-0999RR	126	.	53	1	.	64	1	.	59	1	
PIONEER/ 90Y80	120	.	53	1	.	63	1	.	58	1	
NUTECH/ 0889RR	124	.	55	1	.	61	1	.	58	1	
NUTECH/ 6122	130	.	50	1	.	65	1	.	58	1	
ASGROW/ RY0809	124	.	54	1	.	59	1	.	57	1	
KRUGER/ EXPK2X09A9	129	.	52	1	.	61	1	.	57	1	
G-2 GENETICS/ 6098	124	.	52	1	.	61	1	.	57	1	
PRAIRIE BR./ PB-0779RR	122	.	54	1	.	59	1	.	57	1	
PRAIRIE BR./ EXP 119	124	.	52	1	.	62	1	.	57	1	
ASGROW/ RY0819	125	.	50	1	.	61	1	.	56	1	
KRUGER/ EXPK2X05A9	124	.	52	1	.	59	1	.	56	1	
PRAIRIE BR./ EXP 129	123	.	51	1	.	60	1	.	56	1	
WENSMAN/ W 2079RR	120	.	53	1	.	59	1	.	56	1	
SODAK GEN./ SD2081RR	123	.	49	1	.	60	1	.	55	1	
ASGROW/ AG0803	125	.	50	1	.	58	1	.	54	1	
KRUGER/ EXPK2X06A9	125	.	50	1	.	55	1	.	53	1	
HEFTY/ EXP070R	120	.	45	1	.	58	1	.	52	1	
MUSTANG/ M-09920	133	.	59	1	.	.	.	.	.	.
PIONEER/ 90Y50	128	.	52	1	.	.	.	.	.	.
KRUGER/ K-042RR	119	.	.	.	49	59	1	.	.	.	
KRUGER/ K-072+RR	124	.	.	.	58	67	1	.	.	.	
KRUGER/ K-091RR	133	53	59	1	.	.	.	.	.	.
KRUGER/ K-058RR	118	48	51	1	.	.	.	.	.	.
GOLD COUNTRY/ 2509RR	131	50	58	1	.	.	.	.	.	.
G-2 GENETICS/ 6088	125	.	.	.	.	66	1	.	.	.
PROSEED/ 80-90	129	47	52	1	.	.	.	.	.	.
Test avg. :	125	49	53	1	52	61	1	50	57	1	
High avg. :	133	53	59	1	59	69	1	55	61	1	
Low avg. :	118	44	45	1	48	55	1	46	52	1	
[3] Test LSD (.05):		NS**	7	NS	5	4	NS	***	***		
[4] Min.TPG-avg. :		44	52	.	54	65	.				
[5] Max.TPG-avg. :		.	.	1	.	.	1				
[6] Test Coef. Var.:		7	8	0	4	4	0				
No. Entries:		10	33	33	8	30	30				

[1] DTM= days to maturity from seeding dates of May 22 at South Shore and May 21 at Warner.

Note that additional table footnotes are explained in Table F.

* Values in **bold type** within a column are included in the top performance group.

** Indicates differences between values within a column were non-significant (NS).

*** There was a significant variety by location interaction for yield. Therefore, evaluate yield by using the yield columns for each location.

Table 1b. Glyphosate-resistant maturity group-0 soybean variety protein and oil averages- northern South Dakota locations, 2009. Entries are sorted by 2009 zone protein.

Brand/Variety	DTM [1]	Northern Averages by Location*				Northern Zone Averages	
		South Shore		Warner		Protein %	Oil %
		Protein %	Oil %	Protein %	Oil %		
PRAIRIE BR./ EXP 109	126	40.0	18.2	39.1	21.1	39.6	19.6
PRAIRIE BR./ EXP 119	124	39.1	17.9	39.3	21.1	39.2	19.5
MUSTANG/ M-09330	129	39.3	17.7	38.7	20.9	39.0	19.3
PRAIRIE BR./ EXP 129	123	39.0	17.5	38.8	20.6	38.9	19.0
KRUGER/ EXPK2X06A9	125	39.6	17.6	37.7	20.4	38.7	19.0
WENSMAN/ W 2079RR	120	38.7	18.2	38.4	21.2	38.5	19.7
NUTECH/ 0889RR	124	38.9	19.5	38.1	21.3	38.5	20.4
PRAIRIE BR./ PB-0999RR	126	38.6	18.0	38.3	21.1	38.5	19.6
ASGROW/ RY0809	124	38.7	17.3	38.1	21.0	38.4	19.1
SODAK GEN./ SD1093RR	124	38.4	18.6	38.3	21.2	38.4	19.9
DAIRYLAND/ DSR-0747/R2Y	123	38.7	18.2	38.0	20.7	38.3	19.4
HEFTY/ EXP070R	120	38.5	18.5	38.0	21.2	38.3	19.8
KRUGER/ EXPK2X05A9	124	38.4	18.6	38.1	21.4	38.3	20.0
NUTECH/ 6122	130	38.4	17.7	37.9	20.6	38.2	19.1
PRAIRIE BR./ PB-0779RR	122	37.9	18.6	38.3	21.4	38.1	20.0
NUTECH/ NT-0990	127	38.0	18.4	37.9	21.3	38.0	19.8
PRAIRIE BR./ PB-0954RR	124	38.0	19.3	38.0	21.1	38.0	20.2
KRUGER/ EXPK2X09A9	129	38.0	19.1	37.7	20.9	37.9	20.0
NUTECH/ NT-0886	126	38.2	17.7	37.2	20.2	37.7	19.0
SODAK GEN./ SD2081RR	123	37.6	17.5	37.0	20.7	37.3	19.1
ASGROW/ RY0819	125	36.9	18.2	37.5	21.0	37.2	19.6
G-2 GENETICS/ 6098	124	36.8	18.5	37.6	21.4	37.2	20.0
ASGROW/ AG0803	125	36.4	19.4	37.7	21.4	37.0	20.4
PIONEER/ 90Y80	120	35.5	19.7	37.2	21.8	36.4	20.8
HEFTY/ EXP089R	124	35.9	19.0	36.7	20.8	36.3	19.9
ASGROW/ AG0808	124	35.7	18.8	36.9	21.1	36.3	20.0
SEEDS 2000/ 2081RR	126	35.2	19.0	37.3	21.4	36.3	20.2
MUSTANG/ M-09920	133	37.4	19.1	.	.	.	.
PIONEER/ 90Y50	128	37.5	18.3	.	.	.	.
KRUGER/ K-042RR	119	.	.	37.5	21.4	.	.
KRUGER/ K-072+RR	124	.	.	38.2	21.2	.	.
KRUGER/ K-091RR	133	38.6	18.4	.	.	.	.
KRUGER/ K-058RR	118	41.2	17.3	.	.	.	.
GOLD COUNTRY/ 2509RR	131	38.8	19.3	.	.	.	.
G-2 GENETICS/ 6088	125	.	.	38.5	21.4	.	.
PROSEED/ 80-90	129	38.8	19.1	.	.	.	.
Test avg. :	125	38.1	18.4	37.9	21.1	37.9	19.7
High avg. :	133	41.2	19.7	39.3	21.8	***	***
Low avg. :		35.2	17.3	36.7	20.2		
[3] LSD(.05) :		1.0	0.6	1.0	NS**		
[4] Min.TPG-avg. :		40.3	19.2	38.4	20.2		
[6] Coef. Var. :		2	2	2	3		
No. Entries :		33	33	30	30		

[1] DTM= days to maturity from seeding dates of May 22 at South Shore and May 21 at Warner.

Note that additional table footnotes are explained in Table F.

* Values in bold type within a column are included in the top-performance group.

** Indicates differences between values within a column were non-significant (NS).

*** There were significant variety by location interactions for protein and oil. Therefore, evaluate yield by using the protein and oil columns for each location.

Table 2a. Glyphosate-resistant maturity group-I soybean variety yield and lodging averages- northern South Dakota locations, 2008-2009. Entries are sorted by 2-Yr then by 2009 zone yield.

Brand/Variety	DTM [1]	Northern Averages by Location						Northern Zone Averages		
		South Shore			Warner			Yield-bu/a		2009 Lodg.
		Yield-bu/a		2009 Lodg. (1-5) [2]	Yield-bu/a		2009 Lodg. (1-5) [2]	2-Yr	2009	2009 Lodg. (1-5) [2]
		2-Yr	2009		2-Yr	2009				
WENSMAN/ W 2166RR	128	55	61	1	53	67	1	54	64	1
HEFTY/ 168R	128	53	57	1	54	68	1	54	63	1
STINE/ 1108-4	126	53	61	1	54	65	1	54	63	1
NUTECH/ 6156	127	52	55	1	56	68	1	54	62	1
MUSTANG/ M-168RR	128	53	59	1	53	67	1	53	63	1
PRAIRIE BR./ PB-1597RR	129	53	59	1	53	67	1	53	63	1
HEFTY/ 117R	127	51	56	1	55	67	1	53	62	1
STINE/ 1008-4	128	50	52	1	56	70	1	53	61	1
PRAIRIE BR./ PB-1337RR	128	52	58	1	51	65	1	52	62	1
NUTECH/ NT-6205+RR	133	52	56	1	52	66	1	52	61	1
ASGROW/ AG1403	130	50	53	1	51	66	1	51	60	1
SEEDS 2000/ 2120RR	128	49	52	1	52	65	1	51	59	1
HEFTY/ EXP159RN	131	49	55	1	50	66	1	50	61	1
ASGROW/ AG1102	127	49	56	1	51	63	1	50	60	1
ASGROW/ AG1702	127	51	55	1	49	63	1	50	59	1
PRAIRIE BR./ PB-1918RR	132	50	54	1	49	61	1	50	58	1
PROSEED/ 81-30	129	49	50	1	51	59	1	50	55	1
HEFTY/ EXP139R	126	50	53	1	48	61	1	49	57	1
KRUGER/ K-129RR	126	49	51	1	48	62	1	49	57	1
SODAK GEN./ SD1161RR/SCN	131	47	52	1	48	61	1	48	57	1
KRUGER/ K-189RR/SCN	133	45	48	1	46	59	1	46	54	1
ASGROW/ RY1719	133	.	61	1	.	68	1	.	65	1
PRAIRIE BR./ EXP 141	130	.	60	1	.	69	1	.	65	1
KRUGER/ EXPK2X11B9	126	.	60	1	.	65	2	.	63	2
KRUGER/ EXPK2X14A9	129	.	59	1	.	67	1	.	63	1
PRAIRIE BR./ EXP 179	133	.	58	1	.	67	1	.	63	1
MUSTANG/ M-159NRR	133	.	60	1	.	63	1	.	62	1
NUTECH/ 6145	132	.	59	1	.	64	1	.	62	1
KRUGER/ EXPK2X10A9	126	.	59	1	.	64	1	.	62	1
DAIRYLAND/ DST11-001R2Y	129	.	57	1	.	66	1	.	62	1
PRAIRIE BR./ EXP 158	132	.	59	1	.	65	2	.	62	1
ASGROW/ AG1506	132	.	58	1	.	64	1	.	61	1
ASGROW/ AG1703	134	.	57	1	.	64	1	.	61	1
ASGROW/ RY1709	132	.	56	1	.	66	1	.	61	1
NUTECH/ 6166	131	.	55	1	.	66	1	.	61	1
DAIRYLAND/ DSR-1100/RR	126	.	57	1	.	65	1	.	61	1
PRAIRIE BR./ EXP 199	129	.	58	1	.	64	1	.	61	1
CHANNEL BRAND/ 1651R	133	.	57	1	.	64	1	.	61	1
PROSEED/ 81-50	132	.	56	1	.	65	1	.	61	1
HEFTY/ 108	127	.	56	1	.	64	1	.	60	1
KRUGER/ EXPK2X15B9	130	.	58	1	.	61	1	.	60	1
KRUGER/ K2-1901	131	.	57	1	.	62	1	.	60	1
KRUGER/ EXPK2X19B9	133	.	57	1	.	62	1	.	60	1
WENSMAN/ W 2112RR	123	.	57	1	.	62	1	.	60	1
SODAK GEN./ SD2121RR	126	.	56	1	.	62	1	.	59	1
DAIRYLAND/ DSR-1200/R2Y	127	.	54	1	.	62	1	.	58	1
G-2 GENETICS/ 6159	128	.	54	1	.	62	1	.	58	1
NUTECH/ 6193	132	.	53	1	.	60	1	.	57	1
G-2 GENETICS/ 7129	126	.	49	1	.	55	1	.	52	1
MUSTANG/ M-13320	137	.	60	1	.	.	.	.	.	.

Table 2a. Glyphosate-resistant maturity group-I soybean variety yield and lodging averages- northern South Dakota locations, 2008-2009 (continued).

Brand/Variety	DTM [1]	Northern Averages by Location						Northern Zone Averages		
		South Shore			Warner					
		Yield-bu/a		2009 Lodg.	Yield-bu/a		2009 Lodg.	Yield-bu/a		2009 Lodg.
		2-Yr	2009	(1-5) [2]	2-Yr	2009	(1-5) [2]	2-Yr	2009	(1-5) [2]
PIONEER/ 91Y90	130	.	.	.	51	66	2	.	.	.
KRUGER/ K-167RR/SCN	135	51	55	1	.	.	.	.	.	.
GOLD COUNTRY/ 2713RR	133	50	53	1	.	.	.	.	.	.
GOLD COUNTRY/ 2815RR	132	54	59	1	.	.	.	.	.	.
GOLD COUNTRY/ 1915NRR	135	52	61	1	.	.	.	.	.	.
DAIRYLAND/ DSR1423RRSTS	130	.	.	.	.	57	2	.	.	.
DAIRYLAND/ DST14-003R2Y	135	.	.	.	.	67	2	.	.	.
REA/ EXP-1054	126	.	.	.	.	67	1	.	.	.
REA/ EXP-1056	127	.	.	.	.	65	1	.	.	.
REA/ EXP-1059	126	.	.	.	.	64	1	.	.	.
PROSEED/ 61-00	121	.	.	.	53	65	1	.	.	.
Test avg.:	129	51	56	1	51	64	1	51	60	1
High avg.:	137	55	61	1	56	70	2	54	65	2
Low avg.:	121	45	48	1	46	55	1	46	52	1
[3] Test LSD (.05):		NS**	4	NS	5	4	1	***	***	
[4] Min.TPG-avg.:		52	57	.	51	66	.			
[5] Max.TPG-avg.:		.	.	1	.	.	1			
[6] Test Coef. Var.:		4	4	0	6	4	10			
No. Entries:		25	54	54	23	56	56			

[1] DTM= days to maturity from seeding dates of May 22 at South Shore and May 21 at Warner.

Note that additional table footnotes are explained in Table F.

* Values in **bold type** within a column are included in the top performance group.

** Indicates differences between values within a column were non-significant (NS).

*** There was a significant variety by location interaction for yield. Therefore, evaluate yield by using the yield columns for each location.

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Table 2b. Glyphosate-resistant maturity group-I soybean variety protein and oil averages-northern South Dakota locations, 2009. Entries are sorted by 2009 zone protein.

Brand/Variety	DTM [1]	Northern Averages by Location*				Northern Zone Averages	
		South Shore		Warner		Protein %	Oil %
		Protein %	Oil %	Protein %	Oil %		
KRUGER/ EXPK2X15B9	130	38.3	17.9	38.9	19.6	38.6	18.8
KRUGER/ EXPK2X10A9	126	37.3	17.0	38.7	19.7	38.0	18.4
KRUGER/ K-189RR/SCN	133	37.8	18.5	37.0	21.2	37.4	19.8
HEFTY/ 108	127	37.3	16.3	37.3	20.2	37.3	18.3
KRUGER/ EXPK2X19B9	133	36.9	17.9	37.6	21.0	37.3	19.5
HEFTY/ EXP139R	126	36.5	17.1	37.8	20.8	37.2	19.0
STINE/ 1008-4	128	37.5	17.1	36.5	20.2	37.0	18.7
WENSMAN/ W 2112RR	123	36.5	16.5	37.4	19.7	36.9	18.1
KRUGER/ K-129RR	126	36.8	17.1	36.8	20.5	36.8	18.8
SODAK GEN./ SD1161RR/SCN	131	36.1	16.9	37.5	19.1	36.8	18.0
DAIRYLAND/ DSR-1100/RR	126	36.3	17.7	37.2	20.1	36.8	18.9
SEEDS 2000/ 2120RR	128	36.6	16.3	36.8	19.6	36.7	17.9
PRAIRIE BR./ EXP 179	133	36.2	18.5	37.1	21.0	36.7	19.7
ASGROW/ RY1719	133	36.2	16.6	37.0	20.6	36.6	18.6
NUTECH/ 6145	132	36.5	17.3	36.7	20.6	36.6	18.9
NUTECH/ 6166	131	35.9	17.5	37.3	20.7	36.6	19.1
ASGROW/ RY1709	132	36.5	18.3	36.5	21.4	36.5	19.9
KRUGER/ EXPK2X14A9	129	36.0	17.4	37.0	20.8	36.5	19.1
DAIRYLAND/ DST11-001R2Y	129	35.8	17.2	37.2	20.1	36.5	18.7
PRAIRIE BR./ EXP 141	130	35.7	17.5	37.2	20.7	36.5	19.1
STINE/ 1108-4	126	36.4	17.0	36.5	19.7	36.5	18.4
ASGROW/ AG1702	127	35.8	18.3	36.9	20.2	36.4	19.2
PROSEED/ 81-30	129	36.4	17.1	36.4	20.5	36.4	18.8
DAIRYLAND/ DSR-1200/R2Y	127	35.8	17.5	36.9	19.6	36.4	18.6
NUTECH/ 6193	132	35.6	16.8	37.1	21.1	36.4	18.9
HEFTY/ 117R	127	36.0	17.3	36.7	19.6	36.4	18.5
SODAK GEN./ SD2121RR	126	35.9	17.4	36.3	19.4	36.1	18.4
PRAIRIE BR./ EXP 199	129	35.9	16.8	36.1	19.3	36.0	18.1
KRUGER/ EXPK2X11B9	126	34.7	17.1	36.9	20.1	35.8	18.6
ASGROW/ AG1403	130	34.8	17.1	36.6	20.7	35.7	18.9
PRAIRIE BR./ PB-1918RR	132	36.6	17.9	34.8	19.8	35.7	18.8
PRAIRIE BR./ PB-1337RR	128	35.3	16.7	36.1	19.7	35.7	18.2
NUTECH/ NT-6205+RR	133	34.4	17.4	36.5	21.7	35.5	19.5
ASGROW/ AG1506	132	34.8	18.3	36.1	22.1	35.4	20.2
CHANNEL BRAND/ 1651R	133	34.9	18.0	35.3	21.8	35.1	19.9
G-2 GENETICS/ 6159	128	35.5	18.0	34.7	21.3	35.1	19.7
PROSEED/ 81-50	132	34.2	18.2	36.0	22.1	35.1	20.2
KRUGER/ K2-1901	131	35.1	17.5	34.9	20.6	35.0	19.1
PRAIRIE BR./ PB-1597RR	129	34.5	17.8	35.5	21.6	35.0	19.7
PRAIRIE BR./ EXP 158	132	34.7	16.6	35.2	21.1	35.0	18.8
NUTECH/ 6156	127	35.0	17.8	34.7	21.3	34.8	19.6
HEFTY/ EXP159RN	131	34.5	18.5	34.4	21.5	34.5	20.0
HEFTY/ 168R	128	34.7	17.8	33.8	20.8	34.3	19.3
ASGROW/ AG1703	134	33.0	18.5	35.5	21.8	34.3	20.2
MUSTANG/ M-168RR	128	34.9	18.0	33.6	20.3	34.2	19.2
MUSTANG/ M-159NRR	133	33.7	18.2	34.8	22.0	34.2	20.1
G-2 GENETICS/ 7129	126	33.8	18.8	34.5	21.0	34.1	19.9
WENSMAN/ W 2166RR	128	34.1	18.3	33.6	20.7	33.9	19.5
ASGROW/ AG1102	127	32.9	16.9	33.8	19.6	33.4	18.3
MUSTANG/ M-13320	137	35.9	17.8	.	.	.	.

Table 2b. Glyphosate-resistant maturity group-I soybean variety protein and oil averages-northern South Dakota locations, 2009 (continued).

Brand/Variety	DTM [1]	Northern Averages by Location*				Northern Zone Averages	
		South Shore		Warner		Protein %	Oil %
		Protein %	Oil %	Protein %	Oil %		
PIONEER/ 91Y90	130	.	.	37.4	20.5	.	.
KRUGER/ K-167RR/SCN	135	35.0	18.5	.	.	.	.
GOLD COUNTRY/ 2713RR	133	36.1	17.6	.	.	.	.
GOLD COUNTRY/ 2815RR	132	34.4	18.4	.	.	.	.
GOLD COUNTRY/ 1915NRR	135	34.0	18.2	.	.	.	.
DAIRYLAND/ DSR1423RRSTS	130	.	.	36.6	20.5	.	.
DAIRYLAND/ DST14-003R2Y	135	.	.	37.8	22.1	.	.
REA/ EXP-1054	126	.	.	37.0	20.9	.	.
REA/ EXP-1056	127	.	.	37.5	21.4	.	.
REA/ EXP-1059	126	.	.	38.3	20.4	.	.
PROSEED/ 61-00	121	.	.	36.8	20.1	.	.
Test avg. :	129	35.6	17.6	36.4	20.6	35.9	19.1
High avg. :	137	38.3	18.8	38.9	22.1	**	**
Low avg. :	121	32.9	16.3	33.6	19.1		
[3] LSD(.05) :		0.9	0.7	2.0	1.2		
[4] Min.TPG-avg. :		37.5	18.2	37.0	21.0		
[6] Coef. Var. :		2.0	2.0	3.0	4.0		
No. Entries :		54.0	54.0	56.0	56.0		

[1] DTM= days to maturity from seeding dates of May 22 at South Shore and May 21 at Warner.

Note that additional table footnotes are explained in Table F.

* Values in bold type within a column are included in the top-performance group.

** There were significant variety by location interactions for protein and oil. Therefore, evaluate yield by using the protein and oil columns for each location.

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Table 3a. Glyphosate-resistant maturity group-0 soybean variety yield and lodging averages- central South Dakota locations, 2008-2009. Entries are sorted by 2-Yr then by 2009 zone yield.

Brand/Variety	DTM [1]	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Yield-bu/a		
		Yield-bu/a		2009 Lodg.	Yield-bu/a		2009 Lodg.	Yield-bu/a		2009 Lodg.
		2-Yr	2009	(1-5) [2]	2-Yr	2009	(1-5) [2]	2-Yr	2009	(1-5) [2]
NUTECH/ 0990RR	131	51*	55	1	44	35	1	48	45	1
SODAK GEN./ SD1093RR	126	47	57	1	45	42	1	46	50	1
G-2 GENETICS/ 6088	126	.	63	1	.	56	1	.	60	1
NUTECH/ 0886RR	127	.	63	1	.	54	1	.	59	1
MUSTANG/ M-09920	126	.	59	1	.	56	1	.	58	1
KRUGER/ EXPK2X09A9	130	.	58	1	.	58	1	.	58	1
PRAIRIE BR./ EXP 119	126	.	61	1	.	49	1	.	55	1
MUSTANG/ M-09330	127	.	61	1	.	46	1	.	54	1
PRAIRIE BR./ EXP 109	126	.	61	1	.	42	1	.	52	1
NUTECH/ 6122	127	.	58	1	.	33	1	.	46	1
KRUGER/ EXPK2X06A9	119	.	56	1	.	32	1	.	44	1
SODAK GEN./ SD2081RR	125	.	55	1	.	25	1	.	40	1
KRUGER/ EXPK2X05A9	122	.	56	1	.	19	1	.	38	1
G-2 GENETICS/ 6098	125	.	57	1	.	16	1	.	37	1
KRUGER/ K-042RR	126	.	.	.	48	47	1	.	.	.
KRUGER/ K-072+RR	132	.	.	.	54	49	1	.	.	.
KRUGER/ K-091RR	123	53	59	1	.	.	.	.	.	.
KRUGER/ K-058RR	115	50	55	1	.	.	.	.	.	.
Test avg.:	126	50	58	1	48	41	1	47	50	1
High avg.:	132	53	63	1	54	58	1	48	60	1
Low avg.:	115	47	55	1	44	16	1	46	37	1
[3] Test LSD (.05):		NS**	4	0	NS**	8	0	***	***	
[4] Min.TPG-avg.:		47	59	.	44	50	.			
[5] Max.TPG-avg.:		.	.	1	.	.	1			
[6] Test Coef. Var.:		5	4	0	7	11	0			
No. Entries:	32	4	16	16	4	16	16	4	28	28

[1] DTM= days to maturity from seeding dates of May 19 at Brookings and May 20 at Bancroft.

* Values in **bold type** within a column are included in the top-performance group.

Note that additional table footnotes are explained in Table F.

** Indicates differences between values within a column were non-significant (NS).

*** There was a significant variety by location interaction for yield. Therefore, evaluate yield by using the yield columns for each location.

Table 3b. Glyphosate-resistant maturity group-0 soybean variety protein and oil averages-central South Dakota locations, 2009. Entries are sorted by 2009 zone protein.

Brand/Variety	DTM [1]	Central Averages by Location*				Northern Zone Averages	
		Brookings		Bancroft		Protein %	Oil %
		Protein %	Oil %	Protein %	Oil %		
MUSTANG/ M-09330	127	40.0	17.1	38.0	18.9	39.0	18.0
PRAIRIE BR./ EXP 109	126	39.6	17.7	37.4	18.5	38.5	18.1
PRAIRIE BR./ EXP 119	126	39.8	17.4	37.0	18.7	38.4	18.1
NUTECH/ 0886RR	127	38.9	17.6	36.4	20.0	37.7	18.8
G-2 GENETICS/ 6088	126	38.7	17.8	36.5	19.6	37.6	18.7
KRUGER/ EXPK2X06A9	119	38.5	16.4	36.4	18.4	37.5	17.4
SODAK GEN./ SD1093RR	126	38.3	18.0	36.3	19.9	37.3	19.0
KRUGER/ EXPK2X05A9	122	38.7	17.6	35.6	19.3	37.2	18.5
KRUGER/ EXPK2X09A9	130	38.4	17.6	35.8	19.2	37.1	18.4
NUTECH/ 0990RR	131	38.2	17.2	35.6	18.9	36.9	18.1
MUSTANG/ M-09920	126	37.8	18.7	35.4	19.1	36.6	18.9
NUTECH/ 6122	127	38.7	16.4	34.2	18.5	36.5	17.4
G-2 GENETICS/ 6098	125	37.3	17.3	35.2	19.3	36.3	18.3
SODAK GEN./ SD2081RR	125	37.7	16.8	33.0	19.9	35.3	18.4
KRUGER/ K-042RR	126	.	.	33.9	20.8	.	.
KRUGER/ K-072+RR	132	.	.	35.9	19.7	.	.
KRUGER/ K-091RR	123	38.8	17.3	.	.	.	.
KRUGER/ K-058RR	115	39.1	17.0	.	.	.	.
Test avg. :	126	38.7	17.4	35.8	19.3	37.3	18.3
High avg. :	132	40.0	18.7	38.0	20.8	***	***
Low avg. :	115	37.3	16.4	33.0	18.4		
[3] LSD(.05) :		NS**	0.7	1.4	0.7		
[4] Min.TPG-avg. :		37.3	18.1	36.7	20.2		
[6] Coef. Var. :		3	2	2	2		
No. Entries :		16	16	16	16		

[1] DTM= days to maturity from seeding dates of May 19 at Brookings and May 20 at Bancroft.

Note that additional table footnotes are explained in Table F.

* Values in bold type within a column are included in the top-performance group.

** Indicates differences between values within a column were non-significant (NS).

*** There were significant variety by location interactions for protein and oil. Therefore, evaluate yield by using the protein and oil columns for each location.

Table 4a. Glyphosate-resistant maturity group-I soybean variety yield and lodging averages- central South Dakota locations, 2008-2009. Entries are sorted by 2-Yr then by 2009 zone yield.

Brand/Variety	DTM [1]	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft					
		Yield-bu/a		2009 Lodg.	Yield-bu/a		2009 Lodg.	Yield-bu/a		2009 Lodg.
		2-Yr	2009	(1-5) [2]	2-Yr	2009	(1-5) [2]	2-Yr	2009	(1-5) [2]
PRAIRIE BR./ PB-2278RR	141	53*	63	1	58	60	1	56	62	1
NUTECH/ 6156	131	54	61	1	53	52	1	54	57	1
ASGROW/ AG1403	128	53	59	1	53	50	1	53	55	1
HEFTY/ 168R	134	53	60	1	52	49	1	53	55	1
WENSMAN/ W 2166RR	134	54	61	1	51	47	1	53	54	1
PIONEER/ 91Y90	137	51	60	1	53	54	1	52	57	1
HEFTY/ 179R	140	51	59	1	53	55	1	52	57	1
NUTECH/ 6193	139	51	60	1	52	48	1	52	54	1
PRAIRIE BR./ PB-1597RR	133	52	61	1	51	47	1	52	54	1
MUSTANG/ M-168RR	133	52	57	1	52	49	1	52	53	1
PRAIRIE BR./ PB-1918RR	140	51	59	1	50	49	1	51	54	1
PRAIRIE BR./ PB-2058NRR	141	55	63	1	47	43	1	51	53	1
MUSTANG/ M-177NRR	138	53	63	1	47	41	1	50	52	1
NUTECH/ 6205+RR	139	55	63	1	45	41	1	50	52	1
MUSTANG/ M-159NRR	136	55	64	1	44	36	1	50	50	1
MUSTANG/ M-190NRR	140	51	60	1	47	49	1	49	55	1
ASGROW/ AG1702	130	51	59	1	46	45	1	49	52	1
HEFTY/ 199R	140	51	59	1	47	45	1	49	52	1
HEFTY/ 159R	136	54	62	1	43	35	1	49	49	1
NUTECH/ 1808RN	142	50	58	1	46	49	1	48	54	1
KRUGER/ K-189RR/SCN	140	52	61	1	43	36	1	48	49	1
PROSEED/ 81-50	138	55	64	1	39	25	1	47	45	1
SODAK GEN./ SD1161RR/SCN	133	49	55	1	38	28	1	44	42	1
PROSEED/ 81-30	132	47	53	1	40	29	1	44	41	1
REA/ EXP-1056	130	.	65	1	.	.	.	.	65	.
RENK/ RS160NR2	128	.	65	1	.	.	.	.	65	.
STINE/ 1423-4	131	.	64	1	.	.	.	.	64	.
GOLD COUNTRY/ 1915NRR	131	54	63	1	.	.	.	.	63	.
REA/ EXP-1054	129	.	63	1	.	.	.	.	63	.
REA/ EXP-1059	128	.	63	1	.	.	.	.	63	.
KRUGER/ K-167RR/SCN	124	54	62	1	.	.	.	.	62	.
RENK/ RS179NRR	135	53	62	1	.	.	.	.	62	.
RENK/ RS140NR2	134	.	62	1	.	.	.	.	62	.
RENK/ RS180R2	130	.	61	1	.	.	.	.	61	.
GOLD COUNTRY/ 2815RR	126	54	60	1	.	.	.	.	60	.
MUSTANG/ M-19990	131	.	63	1	.	54	1	.	59	1
PRAIRIE BR./ EXP 141	137	.	63	1	.	55	1	.	59	1
KRUGER/ EXPK2X14A9	134	.	63	1	.	52	1	.	58	1
KRUGER/ K2-1901	134	.	61	1	.	54	1	.	58	1
GOLD COUNTRY/ EXP 1940	132	.	63	1	.	52	1	.	58	1
DAIRYLAND/ DST14-003R2Y	139	.	61	1	.	54	1	.	58	1
PRAIRIE BR./ EXP 158	134	.	61	1	.	55	1	.	58	1
PRAIRIE BR./ EXP 199	131	.	63	1	.	53	1	.	58	1
CHANNEL BRAND/ 1651R	131	.	63	1	.	52	1	.	58	1
KRUGER/ EXPK2X11B9	132	.	65	1	.	49	1	.	57	1
KALTENBERG/ KB1809RR	133	50	57	1	.	.	.	.	57	.
STINE/ 1568-4	127	51	57	1	.	.	.	.	57	.
PRAIRIE BR./ EXP 179	133	.	68	1	.	46	1	.	57	1
WENSMAN/ W 3192NR2	137	.	63	1	.	51	1	.	57	1
ASGROW/ RY1719	134	.	61	1	.	50	1	.	56	1

Table 4a. Glyphosate-resistant maturity group-I soybean variety yield and lodging averages- central South Dakota locations, 2008-2009 (continued).

Brand/Variety	DTM [1]	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft					
		Yield-bu/a		2009 Lodg.	Yield-bu/a		2009 Lodg.	Yield-bu/a		2009 Lodg.
		2-Yr	2009	(1-5) [2]	2-Yr	2009	(1-5) [2]	2-Yr	2009	(1-5) [2]
MUSTANG/ M-13320	133	.	59	1	.	52	1	.	56	1
KRUGER/ EXPK2X15B9	130	.	59	1	.	52	1	.	56	1
WENSMAN/ W 3186R2	131	.	61	1	.	50	1	.	56	1
ASGROW/ RY1709	136	.	61	1	.	49	1	.	55	1
NUTECH/ 7199	141	.	59	1	.	51	1	.	55	1
KRUGER/ EXPK2X10A9	128	.	62	1	.	48	1	.	55	1
KRUGER/ EXPK2X19B9	136	.	59	1	.	50	1	.	55	1
PRAIRIE BR./ EXP 201	140	.	64	1	.	45	1	.	55	1
RENK/ RS110R2	127	.	55	1	.	.	.	.	55	.
GOLD COUNTRY/ 2713RR	134	.	54	1	.	.	.	.	54	.
DAIRYLAND/ DSR1423RRSTS	133	.	57	1	.	51	1	.	54	1
DAIRYLAND/ DSR-1807/R2Y	136	.	59	1	.	48	1	.	54	1
PRAIRIE BR./ EXP 215	141	.	62	1	.	45	1	.	54	1
SODAK GEN./ SD2121RR	129	.	60	1	.	48	1	.	54	1
WENSMAN/ W 2112RR	123	.	60	1	.	43	1	.	52	1
ASGROW/ AG1703	138	.	62	1	.	39	1	.	51	1
NUTECH/ 6191	139	.	63	1	.	39	1	.	51	1
ASGROW/ AG1506	135	.	57	1	.	43	1	.	50	1
NUTECH/ 6145	137	.	61	1	.	39	1	.	50	1
G-2 GENETICS/ 7186	137	.	58	1	.	42	1	.	50	1
G-2 GENETICS/ 6159	131	.	58	1	.	40	1	.	49	1
G-2 GENETICS/ 7129	129	.	55	1	.	36	1	.	46	1
KRUGER/ K-129RR	135	.	.	.	49	45	1	.	45	.
KRUGER/ K-163RR	144	.	.	.	45	38	1	.	38	.
Test avg. :	135	52	61	1	48	46	1	50	54	1
High avg. :	144	55	68	1	58	60	1	56	65	1
Low avg. :	123	47	53	1	38	25	1	44	38	1
[3] Test LSD (.05):		4	4	0	12	8	0	**	**	
[4] Min.TPG-avg. :		51	64	.	46	52	.			
[5] Max.TPG-avg. :		.	.	1	.	.	1			
[6] Test Coef. Var.:		5	4	0	9	11	0			
No. Entries:		30	72	72	26	59	59			

[1] DTM= days to maturity from seeding dates of May 19 at Brookings and May 20 at Bancroft.

Note that additional table footnotes are explained in Table F.

* Values in **bold type** within a column are included in the top-performance group.

** There was a significant variety by location interaction for yield. Therefore, evaluate yield by using the yield columns for each location.

Table 4b. Glyphosate-resistant maturity group-I soybean variety protein and oil averages- central South Dakota locations, 2009. Entries are sorted by 2009 zone protein.

Brand/Variety	DTM [1]	Central Averages by Location*				Central Zone Averages	
		Brookings		Bancroft		Protein (%)	Oil (%)
		Protein (%)	Oil (%)	Protein (%)	Oil (%)		
PRAIRIE BR./ EXP 215	141	38.8	17.0	38.5	19.0	38.6	18.0
KRUGER/ EXPK2X10A9	128	38.6	17.1	37.5	18.7	38.1	17.9
HEFTY/ 179R	140	38.2	17.2	36.9	18.8	37.5	18.0
KRUGER/ EXPK2X15B9	130	37.8	17.4	37.2	18.3	37.5	17.9
KRUGER/ EXPK2X19B9	136	37.3	17.9	37.1	19.9	37.2	18.9
DAIRYLAND/ DSR-1807/R2Y	136	37.2	16.8	36.3	19.5	36.8	18.2
PRAIRIE BR./ EXP 201	140	36.7	17.5	36.9	18.8	36.8	18.2
WENSMAN/ W 3192NR2	137	36.9	17.8	36.5	19.3	36.7	18.6
NUTECH/ 7199	141	37.0	18.0	36.4	19.7	36.7	18.9
MUSTANG/ M-19990	131	37.1	16.7	36.1	18.9	36.6	17.8
MUSTANG/ M-190NRR	140	37.6	18.3	35.5	19.9	36.6	19.1
WENSMAN/ W 2112RR	123	38.2	16.4	34.9	19.1	36.5	17.8
SODAK GEN./ SD2121RR	129	36.4	17.4	36.6	19.2	36.5	18.3
KRUGER/ K-189RR/SCN	140	36.8	17.8	36.0	19.7	36.4	18.8
PROSEED/ 81-30	132	37.5	17.5	35.3	19.6	36.4	18.5
WENSMAN/ W 3186R2	131	36.7	16.9	36.0	18.1	36.3	17.5
PRAIRIE BR./ PB-1918RR	140	36.4	17.1	36.0	19.7	36.2	18.4
ASGROW/ AG1702	130	37.3	17.3	35.1	19.4	36.2	18.4
HEFTY/ 199R	140	35.8	17.1	36.5	19.9	36.2	18.5
PIONEER/ 91Y90	137	36.5	17.3	35.6	19.2	36.1	18.3
PRAIRIE BR./ EXP 199	131	36.9	16.7	35.0	18.5	36.0	17.6
GOLD COUNTRY/ EXP 1940	132	37.1	17.0	34.7	18.7	35.9	17.9
ASGROW/ RY1719	134	36.2	17.1	35.6	19.8	35.9	18.4
SODAK GEN./ SD1161RR/SCN	133	36.2	17.6	35.4	18.6	35.8	18.1
PRAIRIE BR./ PB-2058NRR	141	36.2	18.2	35.3	20.2	35.7	19.2
NUTECH/ 1808RN	142	36.0	17.9	35.4	19.5	35.7	18.7
NUTECH/ 6193	139	36.1	17.2	35.2	19.6	35.6	18.4
ASGROW/ RY1709	136	36.0	17.9	34.9	19.8	35.5	18.8
G-2 GENETICS/ 7129	129	35.0	18.9	35.6	20.6	35.3	19.8
PRAIRIE BR./ EXP 179	133	36.2	18.0	34.0	19.4	35.1	18.7
PRAIRIE BR./ EXP 141	137	35.3	18.1	34.8	19.2	35.1	18.6
NUTECH/ 6191	139	35.3	18.7	34.7	20.3	35.0	19.5
DAIRYLAND/ DSR1423RRSTS	133	35.4	17.2	34.6	19.7	35.0	18.5
ASGROW/ AG1403	128	35.8	16.9	34.1	19.1	35.0	18.0
KRUGER/ EXPK2X11B9	132	35.9	17.2	34.1	18.1	35.0	17.6
NUTECH/ 6145	137	36.2	18.2	33.6	19.8	34.9	19.0
PROSEED/ 81-50	138	35.1	18.7	34.7	20.4	34.9	19.6
MUSTANG/ M-159NRR	136	34.3	18.6	35.4	20.8	34.9	19.7
PRAIRIE BR./ PB-2278RR	141	35.2	17.5	34.3	18.8	34.8	18.1
G-2 GENETICS/ 7186	137	36.2	18.0	33.1	20.7	34.6	19.3
ASGROW/ AG1506	135	35.8	18.4	33.3	20.2	34.5	19.3
MUSTANG/ M-13320	133	34.8	17.8	34.2	19.4	34.5	18.6
KRUGER/ EXPK2X14A9	134	35.5	18.0	33.6	18.7	34.5	18.3
DAIRYLAND/ DST14-003R2Y	139	34.7	17.9	34.3	19.2	34.5	18.6
PRAIRIE BR./ EXP 158	134	35.0	17.6	34.0	19.5	34.5	18.5
G-2 GENETICS/ 6159	131	35.8	18.2	33.0	20.7	34.4	19.5
WENSMAN/ W 2166RR	134	34.5	17.9	34.2	20.5	34.3	19.2
NUTECH/ 6205+RR	139	34.1	18.1	34.4	19.8	34.2	19.0
HEFTY/ 168R	134	34.6	18.1	33.7	20.0	34.2	19.1
KRUGER/ K2-1901	134	34.0	18.0	34.2	19.4	34.1	18.7

Table 4b. Glyphosate-resistant maturity group-I soybean variety protein and oil averages- central South Dakota locations, 2009 (continued).

Brand/Variety	DTM [1]	Central Averages by Location*				Central Zone Averages	
		Brookings		Bancroft		Protein (%)	Oil (%)
		Protein (%)	Oil (%)	Protein (%)	Oil (%)		
MUSTANG/ M-168RR	133	34.8	18.3	33.2	20.8	34.0	19.6
PRAIRIE BR./ PB-1597RR	133	35.4	18.0	32.6	20.2	34.0	19.1
MUSTANG/ M-177NRR	138	34.2	19.1	33.6	20.8	33.9	20.0
NUTECH/ 6156	131	35.3	18.3	32.4	19.7	33.9	19.0
HEFTY/ 159R	136	34.3	18.6	33.4	20.4	33.9	19.5
ASGROW/ AG1703	138	34.6	18.8	32.9	20.0	33.8	19.4
CHANNEL BRAND/ 1651R	131	34.6	18.4	32.9	20.1	33.7	19.3
KRUGER/ K-129RR	135	.	.	35.5	19.8	.	.
KRUGER/ K-163RR	144	.	.	34.7	19.9	.	.
KRUGER/ K-167RR/SCN	124	36.2	18.1	.	.	.	.
GOLD COUNTRY/ 2713RR	134	36.0	17.8	.	.	.	.
GOLD COUNTRY/ 2815RR	126	36.1	18.0	.	.	.	.
GOLD COUNTRY/ 1915NRR	131	34.3	18.4	.	.	.	.
KALTENBERG/ KB1809RR	133	35.3	17.9	.	.	.	.
STINE/ 1568-4	127	35.8	17.9	.	.	.	.
STINE/ 1423-4	131	33.9	18.5	.	.	.	.
REA/ EXP-1054	129	35.0	18.0	.	.	.	.
REA/ EXP-1056	130	36.2	17.4	.	.	.	.
REA/ EXP-1059	128	37.0	16.9	.	.	.	.
RENK/ RS179NRR	135	38.0	17.4	.	.	.	.
RENK/ RS110R2	127	36.5	16.8	.	.	.	.
RENK/ RS140NR2	134	35.0	18.1	.	.	.	.
RENK/ RS160NR2	128	36.9	18.1	.	.	.	.
RENK/ RS180R2	130	36.6	17.2	.	.	.	.
Test avg. :	135	36.0	17.8	34.9	19.6	35.5	18.6
High avg. :	144	38.8	19.1	38.5	20.8	**	**
Low avg. :	123	33.9	16.4	32.4	18.1		
[3] LSD(.05) :		1.3	0.7	1.5	0.8		
[4] Min.TPG-avg. :		37.6	18.5	37.1	20.1		
[6] Coef. Var. :		2	2	3	3		
No. Entries :		72	72	59	59		

[1] DTM= days to maturity from seeding dates of May 19 at Brookings and May 20 at Bancroft.

Note that additional table footnotes are explained in Table F.

* Values in bold type within a column are included in the top-performance group.

** There were significant variety by location interactions for protein and oil. Therefore, evaluate yield by using the protein and oil columns for each location.

Table 5a. Glyphosate-resistant maturity group-II soybean variety yield and lodging averages- central South Dakota locations, 2008-2009. Entries are sorted by 2-Yr then by 2009 zone yield.

Brand/Variety	DTM [1]	Central Averages by Location						Central Zone Averages		
		Brookings			Bancroft			Yield-bu/a		2009 Lodg.
		Yield-bu/a		2009 Lodg.	Yield-bu/a		2009 Lodg.	Yield-bu/a		2009 Lodg.
		2-Yr	2009	(1-5) [2]	2-Yr	2009	(1-5) [2]	2-Yr	2009	(1-5) [2]
ASGROW/ AG2108	137	54*	58	1	51	50	1	53	54	1
KRUGER/ K-204RR/SCN	134	55	60	1	50	45	1	53	53	1
NUTECH/ 6234RR	139	53	59	1	51	47	1	52	53	1
ASGROW/ DKB22-52	131	55	60	1	48	42	1	52	51	1
PRAIRIE BR./ PB-2117NRR	139	52	56	1	50	45	1	51	51	1
MUSTANG/ M-219RR	133	52	56	1	50	43	1	51	50	1
KRUGER/ K-249RR/SCN	138	56	61	1	45	37	1	51	49	1
PRAIRIE BR./ PB-2243RR	133	55	58	1	46	37	1	51	48	1
PRAIRIE BR./ PB-2207NRR	134	54	62	1	45	41	1	50	52	1
NUTECH/ 6211	139	54	59	1	46	40	1	50	50	1
PRAIRIE BR./ PB-2558NRR	136	53	57	1	47	42	1	50	50	1
MUSTANG/ M-209NRR	138	52	55	1	47	39	1	50	47	1
HEFTY/ 218RN	134	54	58	1	43	38	1	49	48	1
PRAIRIE BR./ PB-2147RR	138	50	54	1	48	40	1	49	47	1
G-2 GENETICS/ 7226	137	56	61	1	40	32	1	48	47	1
PRAIRIE BR./ PB-2419RR2	137	.	62	1	.	60	1	.	61	1
ASGROW/ RY2119	135	.	64	1	.	50	1	.	57	1
MUSTANG/ M-21320	134	.	60	1	.	54	1	.	57	1
KRUGER/ EXPK2X21A9	134	.	58	1	.	55	1	.	57	1
PRAIRIE BR./ EXP 195	131	.	57	1	.	55	1	.	56	1
MUSTANG/ M-20420	138	.	59	1	.	51	1	.	55	1
G-2 GENETICS/ 6247	137	.	58	1	.	52	1	.	55	1
NUTECH/ 7203	133	.	62	1	.	45	1	.	54	1
G-2 GENETICS/ 7208	134	.	61	1	.	47	1	.	54	1
G-2 GENETICS/ 7212	141	.	64	1	.	44	1	.	54	1
PRAIRIE BR./ EXP 207	132	.	61	1	.	44	1	.	53	1
PIONEER/ 92Y10	132	.	57	1	.	46	1	.	52	1
KRUGER/ K2-2701	138	.	59	1	.	45	1	.	52	1
NUTECH/ 7222	133	.	64	1	.	38	1	.	51	1
NUTECH/ 6244	137	.	58	1	.	43	1	.	51	1
PRAIRIE BR./ PB-2099NRR2	134	.	61	1	.	41	1	.	51	1
WENSMAN/ W 2222NRR	133	.	63	1	.	38	1	.	51	1
PRAIRIE BR./ PB-2439NRR2	134	.	61	1	.	39	1	.	50	1
CHANNEL BRAND/ 2200R2	135	.	57	1	.	42	1	.	50	1
HEFTY/ EXP200R	133	.	60	1	.	37	1	.	49	1
CHANNEL BRAND/ 2151R	135	.	59	1	.	33	1	.	46	1
G-2 GENETICS/ 7255	134	.	48	1	.	40	1	.	44	1
MUSTANG/ M-24620	135	.	61	1	.	.	.	.	.	.
MUSTANG/ M-23530	141	.	61	1	.	.	.	.	.	.
PIONEER/ 92Y30	134	55	56	1	.	.	.	.	.	.
HEFTY/ 229R	132	53	58	1	.	.	.	.	.	.
GOLD COUNTRY/ 8820NRR	135	.	60	1	.	.	.	.	.	.
KALTENBERG/ EXP 2010	135	.	57	1	.	.	.	.	.	.
STINE/ 2062-4	133	.	61	1	.	.	.	.	.	.
REA/ EXP-1062	134	.	61	1	.	.	.	.	.	.
REA/ EXP-1064	135	.	62	1	.	.	.	.	.	.
REA/ EXP-1068	138	.	60	1	.	.	.	.	.	.
RENK/ RS210NR2	138	.	58	1	.	.	.	.	.	.
RENK/ RS200NR2	133	.	55	1	.	.	.	.	.	.
Test avg. :	135	54	59	1	47	44	1	51	52	1
High avg. :	141	56	64	1	51	60	1	53	61	1
Low avg. :	131	50	48	1	40	32	1	48	44	1
[3] Test LSD (.05):		NS**	4	0	6	6	0	***	***	
[4] Min.TPG-avg. :		50	60	.	45	54	.	.	.	.
[5] Max.TPG-avg. :		.	.	1	.	.	1	.	.	.
[6] Test Coef. Var.:		6	5	0	8	9	0	.	.	.
No. Entries:		17	49	49	15	37	37	.	.	.

[1] DTM= days to maturity from seeding dates of May 19 at Brookings and May 20 at Bancroft.

* Values in **bold type** within a column are included in the top-performance group.

Note that additional table footnotes are explained in Table F.

** Indicates differences between values within a column were non-significant (NS).

*** There was a significant variety by location interaction for yield. Therefore, evaluate yield by using the yield columns for each location.

Table 5b. Glyphosate-resistant maturity group-II soybean variety protein and oil averages- central South Dakota locations, 2009. Entries are sorted by 2009 zone protein.

Brand/Variety	DTM [1]	Central Averages by Location				Central Zone Averages	
		Brookings		Bancroft		Protein (%)	Oil (%)
		Protein (%)	Oil (%)	Protein (%)	Oil (%)		
KRUGER/ K-249RR/SCN	138	40.1	16.4	37.8	19.4	38.9	17.9
PRAIRIE BR./ PB-2558NRR	136	39.6	16.7	37.6	19.2	38.6	18.0
KRUGER/ K2-2701	138	39.0	16.8	37.8	18.0	38.4	17.4
G-2 GENETICS/ 7255	134	39.2	19.5	36.7	19.3	37.9	19.4
PRAIRIE BR./ PB-2419RR2	137	38.3	17.5	37.0	18.8	37.6	18.2
MUSTANG/ M-219RR	133	39.4	17.3	35.7	18.6	37.6	18.0
PRAIRIE BR./ EXP 207	132	37.7	17.7	37.3	19.0	37.5	18.4
ASGROW/ RY2119	135	38.4	16.3	36.5	19.5	37.5	17.9
NUTECH/ 6211	139	38.6	16.7	36.1	19.4	37.4	18.0
G-2 GENETICS/ 7226	137	37.6	17.9	36.7	20.6	37.2	19.2
G-2 GENETICS/ 6247	137	38.2	18.1	36.0	19.0	37.1	18.5
PRAIRIE BR./ PB-2147RR	138	38.5	17.1	35.5	19.0	37.0	18.1
PRAIRIE BR./ PB-2439NRR2	134	37.6	17.7	36.4	19.5	37.0	18.6
PIONEER/ 92Y10	132	37.8	17.4	35.7	19.2	36.8	18.3
KRUGER/ EXPK2X21A9	134	38.2	18.1	35.0	18.8	36.6	18.5
G-2 GENETICS/ 7208	134	38.2	18.2	34.8	19.8	36.5	19.0
NUTECH/ 6244	137	36.1	17.6	36.6	19.4	36.4	18.5
ASGROW/ AG2108	137	36.8	17.4	35.9	19.7	36.4	18.6
PRAIRIE BR./ PB-2099NRR2	134	36.8	18.8	35.9	20.2	36.4	19.5
NUTECH/ 7203	133	37.1	18.0	35.3	19.5	36.2	18.8
HEFTY/ EXP200R	133	37.0	17.7	35.2	19.4	36.1	18.5
CHANNEL BRAND/ 2200R2	135	35.8	18.3	36.2	19.9	36.0	19.1
PRAIRIE BR./ PB-2117NRR	139	37.2	17.6	34.5	20.5	35.9	19.0
MUSTANG/ M-21320	134	36.9	18.6	34.7	19.7	35.8	19.1
WENSMAN/ W 2222NRR	133	35.9	18.5	35.2	19.3	35.6	18.9
PRAIRIE BR./ EXP 195	131	35.3	17.9	35.6	19.5	35.5	18.7
MUSTANG/ M-209NRR	138	36.0	18.0	34.9	20.3	35.4	19.1
PRAIRIE BR./ PB-2207NRR	134	37.2	18.4	33.6	20.2	35.4	19.3
CHANNEL BRAND/ 2151R	135	35.9	18.6	34.7	20.1	35.3	19.4
NUTECH/ 7222	133	35.7	18.4	34.8	20.2	35.3	19.3
G-2 GENETICS/ 7212	141	35.5	18.6	34.7	20.5	35.1	19.6
ASGROW/ DKB22-52	131	35.5	18.5	34.4	19.6	35.0	19.0
NUTECH/ 6234RR	139	35.5	19.0	34.3	19.8	34.9	19.4
HEFTY/ 218RN	134	36.1	18.2	33.5	20.3	34.8	19.3
PRAIRIE BR./ PB-2243RR	133	35.3	18.7	33.9	19.9	34.6	19.3
KRUGER/ K-204RR/SCN	134	35.8	18.4	32.8	20.5	34.3	19.5
MUSTANG/ M-20420	138	34.5	18.2	33.5	19.7	34.0	18.9
MUSTANG/ M-24620	135	37.1	17.8	.	.	.	.
MUSTANG/ M-23530	141	38.2	17.8	.	.	.	.
PIONEER/ 92Y30	134	37.8	17.6	.	.	.	.
HEFTY/ 229R	132	36.8	18.1	.	.	.	.
GOLD COUNTRY/ 8820NRR	135	35.7	18.6	.	.	.	.
KALTENBERG/ EXP 2010	135	39.1	17.5	.	.	.	.
STINE/ 2062-4	133	36.0	18.5	.	.	.	.
REA/ EXP-1062	134	36.2	18.1	.	.	.	.
REA/ EXP-1064	135	37.3	17.7	.	.	.	.
REA/ EXP-1068	138	37.7	18.0	.	.	.	.
RENK/ RS210NR2	138	35.7	18.2	.	.	.	.
RENK/ RS200NR2	133	35.2	18.4	.	.	.	.
Test avg. :	135	37.1	17.9	35.5	19.6	36.3	18.8
High avg. :	141	40.1	19.5	37.8	20.6	**	**
Low avg. :	131	34.5	16.3	32.8	18.0		
[3] LSD(.05) :		1.0	0.8	1.7	0.8		
[4] Min.TPG-avg. :		39.2	18.8	36.2	19.9		
[6] Coef. Var. :		2	3	3	2		
No. Entries :		49	49	37	37		

[1] DTM= days to maturity from seeding dates of May 19 at Brookings and May 20 at Bancroft.

Note that additional table footnotes are explained in Table F.

* Values in bold type within a column are included in the top-performance group.

** There were significant variety by location interactions for protein and oil. Therefore, evaluate yield by using the protein and oil columns for each location.

Table 6a. Glyphosate-resistant maturity group-I soybean variety yield and lodging averages- southern South Dakota locations, 2008-2009. Entries are sorted by 2-Yr then by 2009 zone yield.

Brand/Variety	DTM [1]	Southern Averages by Location						Southern Zone Averages		
		Beresford			Geddes			Yield-bu/a		2009 Lodg.
		Yield-bu/a		2009 Lodg.	Yield-bu/a		2009 Lodg.	Yield-bu/a		2009 Lodg.
		2-Yr	2009	(1-5) [2]	2-Yr	2009	(1-5) [2]	2-Yr	2009	(1-5) [2]
PRAIRIE BR./ PB-2278RR	125	58*	68	1	54	55	1	56	62	1
PRAIRIE BR./ EXP PB-2282	123	57	67	1	54	54	1	56	61	1
PRAIRIE BR./ PB-2058NRR	121	57	66	1	52	52	1	55	59	1
NUTECH/ NT-6205+RR	121	54	65	1	51	53	1	53	59	1
PRAIRIE BR./ EXP PB-1170	121	56	66	1	48	50	1	52	58	1
PRAIRIE BR./ PB-1956RR	124	54	61	1	50	52	1	52	57	1
NUTECH/ 6193	119	54	62	1	49	50	1	52	56	1
PROSEED/ 81-90	126	50	56	1	49	44	1	50	50	1
PRAIRIE BR./ PB-1918RR	121	51	60	1	47	48	1	49	54	1
SODAK GEN./ SD1161RR/SCN	120	49	59	1	45	42	1	47	51	1
KRUGER/ K-189RR/SCN	120	46	60	1	46	47	1	46	54	1
PRAIRIE BR./ EXP 215	122	.	70	1	.	57	1	.	64	1
KRUGER/ EXPK2X14A9	118	.	70	1	.	55	1	.	63	1
KRUGER/ EXPK2X15B9	117	.	67	1	.	56	1	.	62	1
KRUGER/ EXPK2X19B9	121	.	71	1	.	52	1	.	62	1
PRAIRIE BR./ EXP 201	122	.	70	1	.	53	1	.	62	1
PRAIRIE BR./ PB-1999NRR2	121	.	64	1	.	58	1	.	61	1
KRUGER/ EXPK2X16A9	121	.	68	1	.	52	1	.	60	1
WENSMAN/ W 3192NR2	121	.	68	1	.	52	1	.	60	1
PRAIRIE BR./ EXP 199	117	.	66	1	.	51	1	.	59	1
G-2 GENETICS/ 6159	115	.	63	1	.	52	1	.	58	1
WENSMAN/ W 3186R2	117	.	67	1	.	49	1	.	58	1
KRUGER/ K2-1901	121	.	63	1	.	51	1	.	57	1
G-2 GENETICS/ 7186	118	.	62	1	.	49	1	.	56	1
NUTECH/ 1808RN	123	.	61	1	.	48	1	.	55	1
SODAK GEN./ SD2121RR	113	.	61	1	.	47	1	.	54	1
KRUGER/ K-167RR/SCN	118	.	.	.	50	53	1	.	.	.
Test avg. :	120	53	65	1	50	51	1	52	58	1
High avg. :	126	58	71	1	54	58	1	56	64	1
Low avg. :	113	46	56	1	45	42	1	46	50	1
[3] Test LSD (.05):		7	3	0	6	5	0	**	**	
[4] Min.TPG-avg. :		51	68	.	48	53	.	.	.	.
[5] Max.TPG-avg. :		.	.	1	.	.	1	.	.	.
[6] Test Coef. Var.:		3	3	0	7	6	0	.	.	.
No. Entries:		11	26	26	12	27	27	.	.	.

[1] DTM= days to maturity from seeding dateS of May 22 at Beresford and June 1 at Geddes.

Note that additional table footnotes are explained in Table F.

* Values in **bold type** within a column are included in the top-performance group.

** There was a significant variety by location interaction for yield. Therefore, evaluate yield by using the yield and lodging columns for each location.

Table 6b. Glyphosate-resistant maturity group-I soybean variety protein and oil averages- southern South Dakota locations, 2009. Entries are sorted by 2009 zone protein.

Brand/Variety	DTM [1]	Southern Averages by Location*				Southern Zone Averages	
		Beresford		Geddes		Protein (%)	Oil (%)
		Protein (%)	Oil (%)	Protein (%)	Oil (%)		
KRUGER/ EXPK2X15B9	117	39.3	20.6	38.8	20.5	39.0	20.6
PRAIRIE BR./ EXP 215	122	38.7	19.7	38.7	21.3	38.7	20.5
KRUGER/ EXPK2X16A9	121	38.0	20.7	37.9	21.1	38.0	20.9
KRUGER/ EXPK2X19B9	121	38.2	20.5	37.5	20.8	37.9	20.7
PRAIRIE BR./ EXP 201	122	38.4	20.4	37.3	20.7	37.9	20.6
PRAIRIE BR./ EXP 199	117	37.4	19.3	38.0	21.4	37.7	20.4
PRAIRIE BR./ PB-1999NRR2	121	37.7	20.7	37.7	21.5	37.7	21.1
WENSMAN/ W 3192NR2	121	38.0	20.7	37.2	20.6	37.6	20.7
WENSMAN/ W 3186R2	117	38.4	20.6	36.4	20.4	37.4	20.5
KRUGER/ K-189RR/SCN	120	38.1	20.6	36.5	21.3	37.3	21.0
G-2 GENETICS/ 7186	118	37.2	22.0	37.5	21.8	37.3	21.9
SODAK GEN./ SD1161RR/SCN	120	37.7	19.6	36.9	20.8	37.3	20.2
PRAIRIE BR./ PB-2278RR	125	36.7	20.3	37.3	21.7	37.0	21.0
PRAIRIE BR./ PB-2058NRR	121	37.2	21.3	36.5	21.6	36.9	21.5
PRAIRIE BR./ EXP PB-1170	121	37.2	21.6	35.9	22.0	36.5	21.8
PROSEED/ 81-90	126	37.1	20.5	35.9	19.2	36.5	19.8
KRUGER/ K2-1901	121	36.9	20.4	35.1	20.2	36.0	20.3
NUTECH/ 6193	119	37.2	20.1	34.7	20.5	36.0	20.3
PRAIRIE BR./ PB-1918RR	121	36.8	20.6	34.9	20.4	35.9	20.5
KRUGER/ EXPK2X14A9	118	36.5	20.5	35.2	20.2	35.9	20.3
SODAK GEN./ SD2121RR	113	37.6	20.1	33.9	19.3	35.8	19.7
NUTECH/ 1808RN	123	37.0	20.8	34.3	20.6	35.7	20.7
G-2 GENETICS/ 6159	115	37.2	21.1	33.8	20.9	35.5	21.0
PRAIRIE BR./ EXP PB-2282	123	36.0	21.9	34.9	21.6	35.4	21.7
NUTECH/ NT-6205+RR	121	36.4	21.1	33.4	20.6	34.9	20.9
PRAIRIE BR./ PB-1956RR	124	34.9	21.7	34.8	21.0	34.8	21.4
KRUGER/ K-167RR/SCN	118	.	.	35.6	21.9	.	.
Test avg. :	120	37.4	20.7	36.2	20.9	36.8	20.8
High avg. :	126	39.3	22.0	38.8	22.0	***	***
Low avg. :	113	34.9	19.3	33.4	19.2		
[3] LSD(.05) :		1.4	0.9	2.9	NS**		
[4] Min.TPG-avg. :		38.0	21.2	36.0	19.2		
[6] Coef. Var. :		2	3	5	5		
No. Entries :		26	26	27	27		

[1] DTM= days to maturity from a seeding dates of May 22 at Beresford and June 1 at Geddes.

Note that additional table footnotes are explained in Table F.

* Values in bold type within a column are included in the top-performance group.

** Indicates differences between values within a column were non-significant (NS).

*** There were significant variety by location interactions for protein and oil. Therefore, evaluate yield by using the protein and oil columns for each location.

Table 7a. Glyphosate-resistant maturity group-II soybean variety yield and lodging averages- southern South Dakota locations, 2008-2009. Entries are sorted by 2-Yr then by 2009 zone yield.

Brand/Variety	DTM [1]	Southern Averages by Location						Southern Zone Averages		
		Beresford			Geddes					
		Yield-bu/a		2009 Lodg. (1-5) [2]	Yield-bu/a		2009 Lodg. (1-5) [2]	Yield-bu/a		2009 Lodg. (1-5) [2]
		2-Yr	2009		2-Yr	2009		2-Yr	2009	
ASGROW/ DKB27-52	127	60	71	1	59	65	1	60	68	1
PIONEER/ 92Y30	122	56	64	1	60	64	2	58	64	1
PIONEER/ 93M11	131	59	66	1	57	58	1	58	62	1
PRAIRIE BR./ PB-2558NRR	126	54	64	1	59	60	1	57	62	1
NUTECH/ 7274	127	53	67	1	58	64	1	56	66	1
HEFTY/ EXP229RN	121	53	61	1	58	62	1	56	62	1
KALTENBERG/ KB249RR	126	52	61	1	60	62	2	56	62	2
PRAIRIE BR./ PB-2207NRR	124	56	64	1	56	57	1	56	61	1
WENSMAN/ W 2222NRR	123	55	64	1	56	58	1	56	61	1
NUTECH/ NT-2324+RR/SCN	124	55	63	1	56	55	1	56	59	1
PRAIRIE BR./ PB-2515RR	126	51	62	1	58	64	2	55	63	2
PROSEED/ 82-00N	124	53	62	1	57	61	1	55	62	1
HEFTY/ 248R	129	54	62	1	55	60	1	55	61	1
HEFTY/ EXP259RN	125	52	62	1	57	60	1	55	61	1
DAIRYLAND/ DST25-002/RR	126	56	65	1	52	60	1	54	63	1
DAIRYLAND/ DSR-2770/RR	129	53	60	2	54	56	2	54	58	2
G-2 GENETICS/ 7226	124	50	62	1	55	58	1	53	60	1
NUTECH/ 6211	122	48	58	1	56	57	1	52	58	1
DAIRYLAND/ DSR-2200/RR	127	51	62	1	53	54	1	52	58	1
MUSTANG/ M-318RR	132	50	63	1	50	52	3	50	58	2
NUTECH/ 2660RN	126	.	67	1	.	71	1	.	69	1
PRAIRIE BR./ PB-2099NRR2	125	.	66	1	.	71	1	.	69	1
PIONEER/ 92Y80	126	.	66	1	.	67	2	.	67	2
ASGROW/ RY2409	123	.	67	1	.	65	1	.	66	1
CHANNEL BRAND/ 2400R2	126	.	64	1	.	67	1	.	66	1
GOLD COUNTRY/ 8820NRR	122	53	63	1	.	66	1	.	65	1
CHANNEL BRAND/ 2200R2	123	.	65	1	.	64	1	.	65	1
ASGROW/ AG2939	130	.	69	1	.	58	1	.	64	1
MUSTANG/ M-259NRR	125	.	63	1	.	65	1	.	64	1
G-2 GENETICS/ 7212	123	.	63	1	.	64	1	.	64	1
PRAIRIE BR./ EXP 207	125	.	63	1	.	65	1	.	64	1
PRAIRIE BR./ PB-2439NRR2	125	.	65	1	.	63	2	.	64	1
HEFTY/ EXP200R	122	.	62	1	.	64	1	.	63	1
DAIRYLAND/ DSR-2525RRAP	124	.	62	1	.	64	2	.	63	2
PRAIRIE BR./ PB-2419RR2	126	.	66	1	.	59	1	.	63	1
NUTECH/ 7222	123	.	63	1	.	61	1	.	62	1
KRUGER/ K2-2701	128	.	65	1	.	59	3	.	62	2
PRAIRIE BR / PB-3039NRR2	134	.	66	2	.	57	3	.	62	3
ASGROW/ RY2419	126	.	65	2	.	57	2	.	61	2
ASGROW/ AG2839	130	.	66	1	.	55	2	.	61	2
ASGROW/ RY2809	131	.	66	2	.	56	2	.	61	2
NUTECH/ 6244	127	.	63	1	.	59	1	.	61	1
DAIRYLAND/ DSR-2132/R2Y	124	.	64	1	.	58	1	.	61	1
PRAIRIE BR./ PB-2667NRR	126	.	64	1	.	57	1	.	61	1
CHANNEL BRAMD/ 2551R2	124	.	62	1	.	60	1	.	61	1
ASGROW/ RY2929	131	.	66	2	.	53	1	.	60	1
MUSTANG/ M-28929	130	.	63	2	.	57	1	.	60	2
KRUGER/ EXPK2X21A9	122	.	60	1	.	60	1	.	60	1
G-2 GENETICS/ 6279	127	.	64	1	.	56	1	.	60	1
PRAIRIE BR./ PB-2828NRR2	129	.	63	2	.	57	2	.	60	2
WENSMAN/ W 3280NR2	128	.	63	1	.	56	1	.	60	1
MUSTANG/ M-270NRR	128	.	59	1	.	59	2	.	59	1
NUTECH/ 2707RR	130	.	62	2	.	55	3	.	59	3
G-2 GENETICS/ 7208	122	.	59	1	.	59	1	.	59	1
KRUGER/ K2-2801	130	.	58	1	.	58	2	.	58	2

Table 7a. Glyphosate-resistant maturity group-II soybean variety yield and lodging averages- southern South Dakota locations, 2008-2009 (continued).

Brand/Variety	DTM [1]	Southern Averages by Location						Southern Zone Averages		
		Beresford			Geddes			Yield-bu/a		2009 Lodg.
		Yield-bu/a		2009 Lodg. (1-5) [2]	Yield-bu/a		2009 Lodg. (1-5) [2]	2-Yr	2009	(1-5) [2]
		2-Yr	2009		2-Yr	2009				
G-2 GENETICS/ 7288	128	.	59	2	.	56	2	.	58	2
NUTECH/ 7269	129	.	60	2	.	53	1	.	57	2
MUSTANG/ M-24620	129	.	62	1	.	.	.	.	.	.
MUSTANG/ M-23530	128	.	68	1	.	.	.	.	.	.
HEFTY/ 218RN	122	51	60	1	.	.	.	.	.	.
HEFTY/ EXP279RN	129	53	59	1	.	.	.	.	.	.
KRUGER/ K-239RR	126	.	.	.	55	57	1	.	.	.
KRUGER/ K-271RR	127	.	.	.	53	53	1	.	.	.
KRUGER/ K-204RR/SCN	123	53	60	1	.	.	.	.	.	.
KRUGER/ K-228RR/SCN	121	.	.	.	62	68	1	.	.	.
KRUGER/ K-249RR/SCN	127	.	64	1	.	.	.	.	.	.
KRUGER/ K-274RR/SCN	128	53	63	1	.	.	.	.	.	.
DAIRYLAND/ DST20-002/RR	126	.	65	1	.	.	.	.	.	.
DAIRYLAND/ DST22-006R2Y	125	.	56	1	.	.	.	.	.	.
DAIRYLAND/ DSR-2440/R2Y	128	.	65	1	.	.	.	.	.	.
DAIRYLAND/ DST25-003R2Y	128	.	59	1	.	.	.	.	.	.
KALTENBERG/ KB2609RR	128	.	.	.	53	55	1	.	.	.
KALTENBERG/ EXP 2510	130	.	64	1	.	.	.	.	.	.
KALTENBERG/ EXP 2710	130	.	62	1	.	.	.	.	.	.
STINE/ 2420-4	126	.	59	1	.	.	.	.	.	.
STINE/ EXP 2482-4	129	.	63	1	.	.	.	.	.	.
STINE/ 2538-4	126	.	61	1	.	.	.	.	.	.
STINE/ 3132-4	137	.	65	3	.	.	.	.	.	.
RENK/ RS277NRR	131	56	64	2	.	.	.	.	.	.
RENK/ RS259NRR	128	52	58	1	.	.	.	.	.	.
RENK/ RS270NR2	127	.	64	1	.	.	.	.	.	.
Test avg.:	126	53	63	1	56	60	1	55	62	1
High avg.:	137	60	71	3	62	71	3	60	69	3
Low avg.:	121	48	56	1	50	52	1	50	57	1
[3] Test LSD (.05):		6	5	1	6	5	1	**	**	**
[4] Min.TPG-avg.:		54	66	.	56	66	.	.	.	.
[5] Max.TPG-avg.:		.	.	1	.	.	1	.	.	.
[6] Test Coef. Var.:		6	5	25	5	5	27	.	.	.
No. Entries:		27	77	77	24	61	61	.	.	.

[1] DTM= days to maturity from a seeding dated of May 22 at Beresford and June 1 at Geddes.

Note that additional table footnotes are explained in Table F.

* Values in **bold type** within a column are included in the top-performance group.

** There was a significant variety by location interaction for yield and lodging. Therefore, evaluate these variables by using the yield and lodging columns for each location.

Table 7b. Glyphosate-resistant maturity group-II soybean variety protein and oil averages- southern South Dakota locations, 2009. Entries are sorted by 2009 zone protein.

Brand/Variety	DTM [1]	Southern Averages by Location*				Southern Zone Averages	
		Beresford		Geddes		Protein (%)	Oil (%)
		Protein (%)	Oil (%)	Protein (%)	Oil (%)		
PRAIRIE BR./ PB-2558NRR	126	38.8	18.6	39.3	17.3	39.0	18.0
KRUGER/ K2-2701	128	38.1	17.7	39.9	16.8	39.0	17.3
PIONEER/ 92Y80	126	38.2	19.3	39.7	18.3	39.0	18.8
DAIRYLAND/ DSR-2770/RR	129	37.9	18.5	39.6	17.7	38.7	18.1
KALTENBERG/ KB249RR	126	37.6	18.2	39.3	17.5	38.5	17.8
PRAIRIE BR / PB-3039NRR2	134	37.1	16.9	39.7	16.3	38.4	16.6
MUSTANG/ M-318RR	132	37.2	18.7	38.8	17.6	38.0	18.2
NUTECH/ 2707RR	130	36.6	18.8	39.2	18.1	37.9	18.4
G-2 GENETICS/ 6279	127	37.4	19.0	37.6	18.3	37.5	18.7
ASGROW/ RY2929	131	37.6	19.1	37.4	17.8	37.5	18.4
ASGROW/ AG2939	130	36.6	18.3	38.3	17.7	37.4	18.0
DAIRYLAND/ DST25-002/RR	126	36.7	18.8	38.1	18.3	37.4	18.6
ASGROW/ RY2419	126	36.9	17.4	37.8	16.4	37.3	16.9
HEFTY/ 248R	129	36.7	18.5	38.0	17.3	37.3	17.9
ASGROW/ AG2839	130	36.3	18.8	37.8	17.4	37.0	18.1
G-2 GENETICS/ 7288	128	35.6	19.1	38.1	19.6	36.9	19.4
KRUGER/ EXPK2X21A9	122	36.6	19.7	37.0	18.8	36.8	19.3
PRAIRIE BR./ EXP 207	125	36.0	18.9	37.6	18.4	36.8	18.7
DAIRYLAND/ DSR-2200/RR	127	36.8	19.4	36.6	18.6	36.7	19.0
PIONEER/ 92Y30	122	36.1	20.7	37.1	19.8	36.6	20.3
DAIRYLAND/ DSR-2132/R2Y	124	37.0	18.9	36.2	17.7	36.6	18.3
PRAIRIE BR./ PB-2419RR2	126	36.1	19.2	36.6	19.0	36.4	19.1
PIONEER/ 93M11	131	36.0	19.3	36.3	18.8	36.2	19.1
CHANNEL BRAND/ 2400R2	126	36.1	19.0	36.2	18.4	36.2	18.7
G-2 GENETICS/ 7208	122	35.8	19.8	36.3	19.5	36.1	19.6
NUTECH/ 6211	122	36.3	19.1	35.8	19.2	36.1	19.2
NUTECH/ NT-2324+RR/SCN	124	35.9	19.5	36.0	20.2	36.0	19.8
PRAIRIE BR./ PB-2439NRR2	125	35.7	18.7	36.1	18.6	35.9	18.6
HEFTY/ EXP200R	122	35.1	19.7	36.2	20.2	35.6	19.9
ASGROW/ RY2809	131	34.9	18.6	35.8	17.9	35.4	18.2
NUTECH/ 6244	127	35.3	18.8	35.4	19.3	35.4	19.1
NUTECH/ 7274	127	34.9	19.2	35.8	18.2	35.3	18.7
WENSMAN/ W 3280NR2	128	35.3	18.7	35.2	18.4	35.3	18.5
MUSTANG/ M-270NRR	128	34.4	19.3	36.1	18.5	35.2	18.9
NUTECH/ 7269	129	36.0	20.0	34.4	19.5	35.2	19.8
MUSTANG/ M-28929	130	34.9	18.7	35.4	19.1	35.2	18.9
HEFTY/ EXP229RN	121	35.3	19.8	35.0	19.9	35.1	19.8
ASGROW/ RY2409	123	35.4	19.0	34.7	18.4	35.0	18.7
DAIRYLAND/ DSR-2525RRAP	124	34.0	19.1	36.0	18.3	35.0	18.7
PROSEED/ 82-00N	124	35.0	19.4	34.9	19.8	35.0	19.6
G-2 GENETICS/ 7226	124	34.8	19.9	35.1	19.8	34.9	19.9
KRUGER/ K2-2801	130	34.5	18.4	35.2	18.1	34.9	18.2
MUSTANG/ M-259NRR	125	35.0	19.0	34.6	19.2	34.8	19.1
CHANNEL BRAND/ 2551R2	124	35.3	19.2	34.3	19.1	34.8	19.2
PRAIRIE BR./ PB-2515RR	126	33.3	19.4	36.0	19.7	34.7	19.6
NUTECH/ 2660RN	126	34.5	19.5	34.8	19.0	34.7	19.2
PRAIRIE BR./ PB-2099NRR2	125	33.6	19.3	35.6	19.6	34.6	19.4
PRAIRIE BR./ PB-2828NRR2	129	34.9	18.2	34.1	19.1	34.5	18.6
HEFTY/ EXP259RN	125	34.4	18.9	34.2	19.6	34.3	19.2
CHANNEL BRAND/ 2200R2	123	34.5	20.0	34.0	19.8	34.2	19.9

Table 7b. Glyphosate-resistant maturity group-II soybean variety protein and oil averages- southern South Dakota locations, 2009 (continued).

Brand/Variety	DTM [1]	Southern Averages by Location*				Southern Zone Averages	
		Beresford		Geddes		Protein (%)	Oil (%)
		Protein (%)	Oil (%)	Protein (%)	Oil (%)		
G-2 GENETICS/ 7212	123	34.6	20.2	33.5	19.6	34.1	19.9
ASGROW/ DKB27-52	127	33.8	18.9	34.2	18.8	34.0	18.9
NUTECH/ 7222	123	34.0	20.2	33.4	21.0	33.7	20.6
GOLD COUNTRY/ 8820NRR	122	33.7	20.2	33.4	20.4	33.6	20.3
PRAIRIE BR./ PB-2667NRR	126	33.4	18.9	32.6	19.5	33.0	19.2
WENSMAN/ W 2222NRR	123	33.4	20.2	32.0	20.9	32.7	20.6
PRAIRIE BR./ PB-2207NRR	124	33.3	20.0	31.9	20.6	32.6	20.3
MUSTANG/ M-24620	129	36.5	19.2	.	.	.	.
MUSTANG/ M-23530	128	36.3	19.3	.	.	.	.
HEFTY/ 218RN	122	34.1	19.7	.	.	.	.
HEFTY/ EXP279RN	129	39.5	17.2	.	.	.	.
KRUGER/ K-239RR	126	.	.	38.1	18.2	.	.
KRUGER/ K-271RR	127	.	.	37.7	18.1	.	.
KRUGER/ K-204RR/SCN	123	33.9	20.2	.	.	.	.
KRUGER/ K-228RR/SCN	121	.	.	33.7	19.4	.	.
KRUGER/ K-249RR/SCN	127	37.3	18.0	.	.	.	.
KRUGER/ K-274RR/SCN	128	36.5	19.1	.	.	.	.
DAIRYLAND/ DST20-002/RR	126	36.0	19.3	.	.	.	.
DAIRYLAND/ DST22-006R2Y	125	37.2	18.0	.	.	.	.
DAIRYLAND/ DSR-2440/R2Y	128	35.8	18.7	.	.	.	.
DAIRYLAND/ DST25-003R2Y	128	34.8	17.6	.	.	.	.
KALTENBERG/ KB2609RR	128	.	.	36.7	18.0	.	.
KALTENBERG/ EXP 2510	130	37.1	18.8	.	.	.	.
KALTENBERG/ EXP 2710	130	35.1	19.3	.	.	.	.
STINE/ 2420-4	126	37.6	18.3	.	.	.	.
STINE/ EXP 2482-4	129	35.0	19.0	.	.	.	.
STINE/ 2538-4	126	34.9	19.1	.	.	.	.
STINE/ 3132-4	137	37.4	17.8	.	.	.	.
RENK/ RS277NRR	131	35.3	18.4	.	.	.	.
RENK/ RS259NRR	128	37.3	17.6	.	.	.	.
RENK/ RS270NR2	127	37.4	17.8	.	.	.	.
Test avg. :	126	35.8	19.0	36.2	18.8	35.9	18.9
High avg. :	137	39.5	20.7	39.9	21.0	**	**
Low avg. :	121	33.3	16.9	31.9	16.3		
[3] LSD(.05) :		1.0	0.7	2.0	1.1		
[4] Min.TPG-avg. :		38.6	20.1	38.0	20.0		
[6] Coef. Var. :		2	2	3	4		
No. Entries :		77	77	61	61		

[1] DTM= days to maturity from a seeding dates of May 22 at Beresford and June 1 at Geddes.

Note that additional table footnotes are explained in Table F.

* Values in bold type within a column are included in the top-performance group.

** There were significant variety by location interactions for protein and oil. Therefore, evaluate yield by using the protein and oil columns for each location.

Table 8a. Non-glyphosate-resistant maturity group-0 and -I soybean variety yield and lodging averages- South Shore, 2008-09.

BRAND/VARIETY	DTM [1]	Yield average (bu/a) by maturity group					
		MG-0			MG-I		
		Yield-bu/a		2009 Lodg.	Yield-bu/a		2009 Lodg.
		2-yr	2009	(1-5) [2]	2-yr	2009	(1-5) [2]
MUSTANG/ ML-0979	128	.	53*	1	.	.	.
PUBLIC/MN0908CN	133	.	48	1	.	.	.
PUBLIC/HAMLIN	131	43	47	1	.	.	.
PUBLIC/SURGE	130	43	47	1	.	.	.
RICHLAND ORG./ MK0508	130	38	44	1	.	.	.
PUBLIC/MN0806CN	128	.	44	1	.	.	.
PUBLIC/SD05-767	133	.	44	1	.	.	.
PUBLIC/SD00-1501	129	.	42	1	.	.	.
RICHLAND ORG./ MK0649	123	35	41	1	.	.	.
MUSTANG/ ML-1520	131	.	.	.	.	47	1
PUBLIC/MN1701CN	133	.	.	.	45	46	1
PUBLIC/DEUEL	129	.	.	.	41	44	1
PUBLIC/MN1410	130	.	.	.	45	42	1
PUBLIC/MN1505SP	131	.	.	.	.	41	1
RICHLAND ORG./ MK1016	126	.	.	.	34	37	1
Test avg.:	130	40	46	1	41	43	1
High avg.:	133	43	53	1	45	47	1
Low avg.:	123	35	41	1	34	37	1
[3] LSD (.05):		6	4	0	10	4	0
[4] Min. TPG avg.:		37	49	.	35	43	.
[5] Max. TPG avg.:		.	.	1	.	.	1
[6] Coef. Var.:		5	5	0	8	5	0

[1] DTM= days to maturity from seeding dates of May 22 at South Shore.

* Values in **bold type** within a column are included in the top-performance group.

Note that additional table footnotes are explained in Table F.

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Table 8b. Non-glyphosate resistant maturity group-0 and -I soybean variety protein and oil averages- South Shore, 2009. Sorted by maturity group and protein average.

BRAND/VARIETY	DTM [1]	Protein & oil percentages by maturity group in 2009*			
		MG-0		MG-I	
		Protein %	Oil %	Protein %	Oil %
PUBLIC/SD00-1501	129	41.7	14.9	.	.
PUBLIC/SD05-767	133	38.3	16.6	.	.
PUBLIC/HAMLIN	131	37.2	16.9	.	.
PUBLIC/SURGE	130	37.2	16.8	.	.
MUSTANG/ ML-0979	128	36.3	17.5	.	.
PUBLIC/MN0908CN	133	36.1	16.6	.	.
RICHLAND ORG./ MK0508	130	36.0	15.8	.	.
PUBLIC/MN0806CN	128	35.4	17.4	.	.
RICHLAND ORG./ MK0649	123	34.6	15.8	.	.
PUBLIC/MN1505SP	131	.	.	39.0	16.0
RICHLAND ORG./ MK1016	126	.	.	38.8	14.5
PUBLIC/MN1410	130	.	.	36.9	17.3
PUBLIC/MN1701CN	133	.	.	36.4	17.6
PUBLIC/DEUEL	129	.	.	36.1	16.7
MUSTANG/ ML-1520	131	.	.	35.0	16.7
Test avg. :	130	37.0	16.5	37.0	16.5
High avg. :	133	41.7	17.5	39.0	17.6
Low avg. :	123	34.6	14.9	35.0	14.5
[3] LSD(.05) :		1.1	0.8	0.7	0.6
[4] Min. TPG avg.:		40.7	16.8	38.4	17.1
[6] Coef. Var. :		2	3	1	2

[1] DTM= days to maturity from seeding dates of May 22 at South Shore.

Note that additional table footnotes are explained in Table F.

* Values in bold type within a column are included in the top-performance group.

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Table 9a. Non-glyphosate-resistant maturity group-0, -I, and -II soybean variety yield and lodging averages- Brookings, 2008-09.

BRAND/VARIETY	DTM [1]	Yield average (bu/a) by maturity group								
		MG-0			MG-I			MG-II		
		Yield-bu/a		2009 Lodg. (1-5) [2]	Yield-bu/a		2009 Lodg. (1-5) [2]	Yield-bu/a		2009 Lodg. (1-5) [2]
		2-yr	2009		2-yr	2009		2-yr	2009	
MUSTANG/ ML-0979	125	.	59*	1	.	.	.	.	.	.
PUBLIC/SURGE	129	.	51	1	.	.	.	.	.	.
PUBLIC/HAMLIN	133	.	48	1	.	.	.	.	.	.
PUBLIC/SD00-1501	128	.	48	1	.	.	.	.	.	.
PUBLIC/SD05-767	136	.	47	1	.	.	.	.	.	.
PUBLIC/MN0806CN	129	.	42	1	.	.	.	.	.	.
PUBLIC/MN0908CN	131	.	42	1	.	.	.	.	.	.
PUBLIC/SD05-240	136	.	.	.	.	64	1	.	.	.
MUSTANG/ ML-1520	137	.	.	.	.	63	1	.	.	.
PROSEED/ LL91-12	129	.	.	.	.	61	1	.	.	.
PROSEED/ LL81-60	138	.	.	.	.	61	1	.	.	.
MUSTANG/ ML-1889	146	.	.	.	.	57	1	.	.	.
PUBLIC/MN1701CN	136	.	.	.	.	56	1	.	.	.
PUBLIC/MN1410	136	.	.	.	.	54	1	.	.	.
PUBLIC/MN1505SP	135	.	.	.	.	53	1	.	.	.
PUBLIC/DEUEL	136	.	.	.	.	49	1	.	.	.
MUSTANG/ ML-2269	146	.	.	.	.	.	.	.	56	1
PUBLIC/DAVISON	139	.	.	.	.	.	.	.	54	1
PUBLIC/SD05-274	146	.	.	.	.	.	.	.	48	1
PUBLIC/SD05-273	148	.	.	.	.	.	.	.	46	1
PUBLIC/SD05-248	149	.	.	.	.	.	.	.	44	1
Test avg.:	136	.	48	1	.	58	1	.	50	1
High avg.:	149	.	59	1	.	64	1	.	56	1
Low avg.:	125	.	42	1	.	49	1	.	44	1
[3] LSD (.05):		.	5	0	.	4	0	.	4	0
[4] Min. TPG avg.:		.	54	.	.	60	.	.	52	.
[5] Max. TPG avg.:		.	.	1	.	.	1	.	.	1
[6] Coef. Var.:		.	6	0	.	4	0	.	5	0

[1] DTM= days to maturity from seeding dates of May 19 at Brookings.

* Values in **bold type** within a column are included in the top-performance group.

Note that additional table footnotes are explained in Table F.

Table 9b. Non-glyphosate resistant maturity group-0, group-I, and group-II soybean variety protein and oil averages- Brookings, 2009. Sorted by maturity group and protein average.

BRAND/VARIETY	DTM [1]	Protein & oil averages by maturity group in 2009*					
		MG-0		MG-I		MG-II	
		Protein %	Oil %	Protein %	Oil %	Protein %	Oil %
PUBLIC/SD00-1501	128	42.8	15.9	.	.	.	.
PUBLIC/SD05-767	136	39.4	17.8	.	.	.	.
MUSTANG/ ML-0979	125	39.2	17.6	.	.	.	.
PUBLIC/HAMLIN	133	39.1	18.0	.	.	.	.
PUBLIC/SURGE	129	38.6	18.1	.	.	.	.
PUBLIC/MN0806CN	129	37.5	18.3	.	.	.	.
PUBLIC/MN0908CN	131	37.3	17.3	.	.	.	.
PUBLIC/MN1505SP	135	.	.	39.8	16.8	.	.
PROSEED/ LL91-12	129	.	.	39.1	17.6	.	.
MUSTANG/ ML-1889	146	.	.	38.3	18.9	.	.
PUBLIC/MN1701CN	136	.	.	37.2	18.1	.	.
PUBLIC/DEUEL	136	.	.	36.8	17.6	.	.
PUBLIC/SD05-240	136	.	.	36.6	18.2	.	.
PROSEED/ LL81-60	138	.	.	36.5	17.6	.	.
PUBLIC/MN1410	136	.	.	36.4	18.3	.	.
MUSTANG/ ML-1520	137	.	.	36.3	16.9	.	.
PUBLIC/SD05-248	149	.	.	.	.	38.2	19.0
MUSTANG/ ML-2269	146	.	.	.	.	37.6	18.9
PUBLIC/SD05-274	146	.	.	.	.	37.2	18.0
PUBLIC/SD05-273	148	.	.	.	.	37.1	19.2
PUBLIC/DAVISON	139	.	.	.	.	36.7	16.9
Test avg. :	136	39.1	17.6	37.4	17.8	37.4	18.4
High avg. :	149	42.8	18.3	39.8	18.9	38.2	19.2
Low avg. :	125	37.3	15.9	36.3	16.8	36.7	16.9
[3] LSD(.05) :		0.8	0.3	0.8	0.7	0.9	1.0
[4] Min. TPG avg.:		42.1	18.1	39.1	18.3	37.4	18.3
[6] Coef. Var. :		1	1	1	2	1	3

[1] DTM= days to maturity from seeding dates of May 19 at Brookings.

Note that additional table footnotes are explained in Table F.

* Values in bold type within a column are included in the top-performance group.

Table 10a. Non-glyphosate-resistant maturity group-I and -II soybean variety yield and lodging averages- Beresford, 2008-09.

BRAND/VARIETY	DTM [1]	Yield average (bu/a) by maturity group					
		MG-I			MG-II		
		Yield-bu/a		2009 Lodg. (1-5) [2]	Yield-bu/a		2009 Lodg. (1-5) [2]
		2-yr	2009		2-yr	2009	
PUBLIC/MN1410	126	.	54*	2	.	.	.
PUBLIC/MN1701CN	127	.	50	2	.	.	.
PUBLIC/MN1505SP	125	.	49	2	.	.	.
PUBLIC/DEUEL	124	.	46	3	.	.	.
MUSTANG/ ML-2670	138	.	.	.	.	60	2
MUSTANG/ ML-2269	131	.	.	.	.	58	2
PUBLIC/DAVISON	124	.	.	.	.	58	1
PUBLIC/SD05-248	131	.	.	.	.	57	2
PUBLIC/SD05-274	131	.	.	.	.	53	3
PUBLIC/SD05-273	131	.	.	.	.	45	1
Test avg.:	129	.	50	2	.	55	2
High avg.:	138	.	54	3	.	60	3
Low avg. :	124	.	46	2	.	45	1
[3] LSD (.05):		.	6	NS**	.	5	1
[4] Min. TPG avg.:		.	48	.	.	55	.
[5] Max. TPG avg.:		.	.	3	.	.	1
[6] Coef. Var.:		.	6	21	.	5	30

[1] DTM= days to maturity from seeding dates of May 26 at Beresford.

* Values in **bold type** within a column are included in the top-performance group.

** Indicates differences between values within a column were non-significant (NS).

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Table 10b. Non-glyphosate resistant maturity group-I and -II soybean variety protein and oil averages- Beresford, 2009. Sorted by maturity group and protein average.

BRAND/VARIETY	DTM [1]	Protein & oil percentages by maturity group in 2009*			
		MG-I		MG-II	
		Protein %	Oil %	Protein %	Oil %
PUBLIC/MN1505SP	125	40.0	17.7	.	.
PUBLIC/MN1701CN	127	36.6	17.9	.	.
PUBLIC/MN1410	126	36.5	19.0	.	.
PUBLIC/DEUEL	124	36.2	18.7	.	.
PUBLIC/SD05-248	131	.	.	37.3	18.6
PUBLIC/DAVISON	124	.	.	36.9	18.0
MUSTANG/ ML-2269	131	.	.	36.8	18.3
PUBLIC/SD05-274	131	.	.	35.8	19.2
MUSTANG/ ML-2670	138	.	.	35.6	18.5
PUBLIC/SD05-273	131	.	.	34.8	19.8
Test avg. :	129	37.3	18.3	36.2	18.8
High avg. :	138	40.0	19.0	37.3	19.8
Low avg. :	124	36.2	17.7	34.8	18.0
[3] LSD(.05) :		1.4	0.4	0.8	0.6
[4] Min. TPG avg.:		38.7	18.7	36.6	19.3
[6] Coef. Var. :		2	1	1	2

[1] DTM= days to maturity from seeding dates of May 26 at Beresford.

Note that additional table footnotes are explained in Table F.

* Values in bold type within a column are included in the top-performance group.

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SOYBEAN

Variety Performance Trials—2010 Results

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The crop performance trials are available at <http://www.sdstate.edu/ps/extension/crop-mgmt/variety-trials-results.cfm>

Tables for the 2010 Soybean Performance Trials

A	Monthly nearest weather station precipitation totals and average temperature; and their departures from average for 2010.....	6
B	Description of trial locations, soil types, tillage methods, prior crop, herbicide usage, and dates seeded.....	7
C	Gene race resistance to <i>Phytophthora</i> root rot.....	7
D	Glyphosate-resistant entries with yield table numbers.....	8-11
E	Entrants (brand name) mailing addresses (after yield tables).....	12
F	Explanation of yield and lodging score table footnotes.....	13
G	Entrants (brand name) mailing addresses (after yield tables).....	13

Glyphosate-Resistant Soybean Trial Results

1	Glyphosate-resistant maturity group-O soybean variety yield and lodging averages-northern South Dakota locations, 2009-2010.....	14
2	Glyphosate-resistant maturity group-I soybean variety yield and lodging averages-northern South Dakota locations, 2009-2010.....	15-16
3	Glyphosate-resistant maturity group-O soybean variety yield and lodging averages-central South Dakota locations, 2009-2010.....	17
4	Glyphosate-resistant maturity group-I soybean variety yield and lodging averages-central South Dakota locations, 2009-2010.....	18-19
5	Glyphosate-resistant maturity group-II soybean variety yield and lodging averages-central South Dakota locations, 2009-2010.....	20-21
6	Glyphosate-resistant maturity group-I soybean variety yield and lodging averages-southern South Dakota locations, 2009-2010.....	22
7	Glyphosate-resistant maturity group-II soybean variety yield and lodging averages-southern South Dakota locations, 2009-2010.....	23-24

Non-Glyphosate-Resistant Soybean Trial Results

8	Non-glyphosate-resistant maturity group-O and -I soybean variety yield and lodging averages-South Shore, 2009-2010.....	25
9	Non-glyphosate-resistant maturity group-O, -I and -II soybean variety yield and lodging averages-Brookings, 2009-2010.....	26-27
10	Non-glyphosate-resistant maturity group-I and -II soybean variety yield and lodging averages-Beresford, 2009-2010.....	28

**EC 775—Precision Planted Soybeans 2010 Crop Performance Results
is available electronically on the internet**
<http://www.sdstate.edu/ps/extension/crop-mgmt/variety-trials-results.cfm>



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SOYBEAN

Variety Performance Trials–2010 Results

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Soybean production is greatly affected by variety selection. This circular reports the agronomic performance of entries in the 2010 South Dakota performance trials for glyphosate-resistant and conventional or non-glyphosate-resistant soybean varieties. Major factors in variety selection include yield, maturity, lodging resistance, and *Phytophthora* root rot resistance.

General

Soybean varieties are classified according to maturity groups that in turn are adapted to maturity zones. Maturity zones are based on day length and therefore are affected by latitude. The very early maturity group-00 varieties are best suited to Canada and bordering regions of the U.S., while maturity group-0, group-I, and group-II varieties are suited to South Dakota. The later groups III-VIII are suited to Iowa, Nebraska, and south to Texas.

These soybean trial results are reported according to the prevalent maturity zones in South Dakota (see map). The glyphosate-resistant soybean variety trials were conducted by the following test zones and locations: Northern test zone: Maturity groups-0 and -I at South Shore and Warner; Central test zone: Maturity groups-0, -I, and -II at Brookings and Bancroft; Southern test zone: Maturity groups-I and -II at Beresford and Geddes.

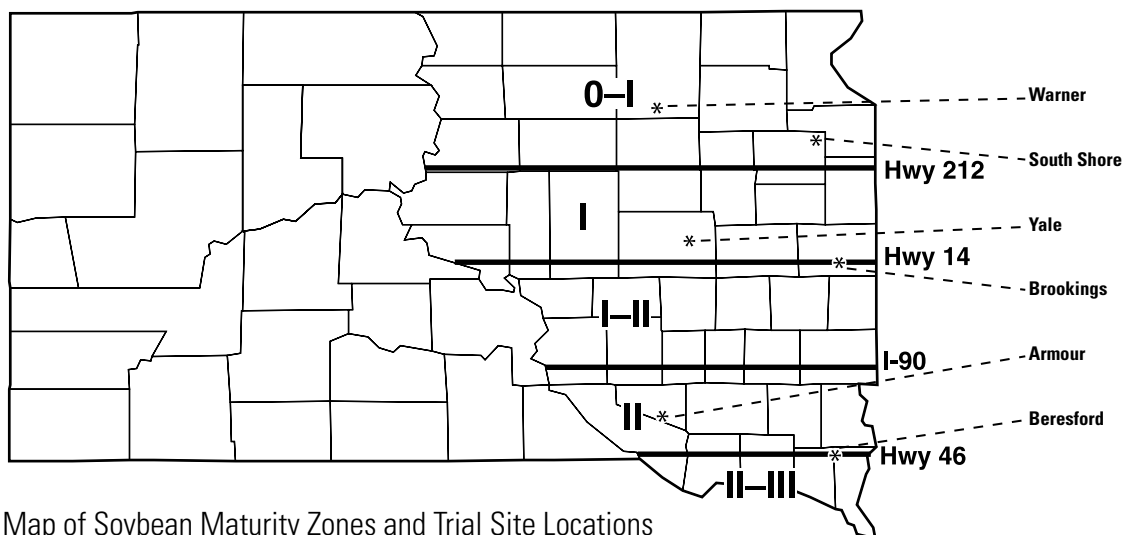
The conventional non-glyphosate-resistant soybean variety trials are conducted at the following SDSU affiliated research farms: Northeast Research Farm, South Shore- Maturity groups-0

and -I; SDSU Plant Science Farm, Brookings- Maturity groups-0, -I, and -II; and the Southeast SD Agricultural Experiment Station, Beresford- Maturity groups-I and -II. There are transition areas where varieties of two maturity groups may perform similarly. In such cases, rainfall and or elevation may moderate the effect of latitude on maturity. In most cases, an earlier maturity group may be seeded in a zone suited to a later maturity group. This is only practical if seeding is delayed, or if reseeded following hail, or if double cropping.

Phytophthora root rot (PRR) is an important soybean disease in South Dakota and is often controlled or managed with the use of resistant varieties. Resistance to *Phytophthora* root rot is fungus-race specific. Thus, resistance to one PRR race does not always impart resistance to other races. Knowledge of the prevalent PRR races in your area is important. If you suspect you have a PRR problem, using varieties with a wide range of rot resistance is strongly suggested (see discussion of *Phytophthora* under “General Test Procedures”).

An alternative method of control is the use of “tolerant varieties.” Tolerant varieties are not resistant to PRR in the seedling stage. Thus, a PRR fungicide must be applied to protect them. Currently, we do not evaluate variety field tolerance; therefore, field tolerance ratings are not available.

Certified seed is the best source of seed and the only way to be assured of the genetic purity of the variety seeded. In addition, inoculation of seed with the appropriate nitrogen-fixing



Map of Soybean Maturity Zones and Trial Site Locations

bacterium is a good practice. Always inoculate if seeding soybeans in soils not previously cropped to soybeans. On older soybean soils, there is no guarantee that beneficial bacteria will be present to naturally inoculate planted seed. Therefore, inoculation of seed at planting is an inexpensive means of increasing the percentage of plants that will fix nitrogen in the current crop year.

Yield

Yields are obtained from the South Dakota Crop Performance Testing Program (CPT). Current-year yields are included for each entry tested, along with two-year averages where varieties have been tested for two years. Yield test averages and least significant difference (LSD) values are rounded to the nearest bushel and printed at the bottom of each yield column.

The LSD value can be used to determine if varieties differ in yield per acre. For example, assume variety A averages 30 bu., B averages 25 bu., and the calculated LSD value is 4 bu. The average difference between varieties A and B is 5 bu ($30-25=5$). Since the average difference of 5 bu. is greater than the test LSD value of 4 bu., variety A (30 bu.) is significantly higher in yield than for B (25 bu.). In contrast, if variety A averages 28 bu. and B averages 25 bu., the average difference would be 3 bu ($28-25=3$). In this case, both varieties would have a similar yield average because their difference of 3 bu. is less than the test LSD value of 4 bu.

Use LSD values to identify the best-yielding varieties. The LSD value at the bottom of each yield column is used to calculate a minimum top performance group (TPG) value for yield. For example, if the highest column yield value is 50 bu., subtract the LSD value of 5 bu. to obtain an intermediate value of 45 bu. ($50 - 5 = 45$). Generally, entries in that column yielding 46 bu/a or higher are in the TPG. However, we can also say a yield of 45 bu/a also qualifies as a TPG-value because the yield averages are rounded to the nearest bushel. This inclusion of 45 bu/a acre in the TPG also makes the results indicated in the table (rounded values) agree with the results of the statistical analysis, which determines variety differences to the nearest tenth of bushel.

Note: Use care when evaluating the yield performance of entries in each table. Entries tested for two years may also have a top yield group value in the 2010 yield column. **Note:** Each company selects the appropriate maturity group trial (maturity group-0, -I, or -II trial) and locations for their entries. Companies generally have one or more maturity group checks for their varieties. There are, however, no standard regional or national check varieties for maturity. A late group-I variety from one company may be similar in maturity to an early group-I, or an early group-II variety from another company because they use different check varieties for maturity. Therefore, this testing program does not guarantee that entries are placed in the appropriate maturity group trial. Borderline entries with maturity ratings at or near the arbitrary breaks between the late-group-0's and early group-I's and between the late-group-I's and early group-II's may crossover in some test trials. It is suggested you note the reported maturity rating of every entry you are considering. Since all entries at a location are seeded the same day, one can compare the relative difference in days to maturity among varieties tested at that location. Use caution when comparing the maturity rating of a variety over many locations. Variations in soil moisture and temperature often differ between locations, resulting in some maturity variations over locations.

The efforts of D. Doyle, SDSU Agronomy Farm; A. Heuer, NE Research Farm, South Shore; and R. Berg and staff, SE Research

Farm, Beresford, in obtaining the data are gratefully acknowledged. Also, the assistance and cooperation of our farmer co-operators, Allen and Inel Ryckman, Warner, S.D.; Curtis Sybesma, Geddes, S.D.; and E. Weerts Farm Inc., Bancroft, S.D., is gratefully acknowledged.

Protein and Oil Content

The 2010 protein and oil values (adjusted to a 13% moisture) were determined using a calibrated FOSS TECATOR Model Infratec 1229 Grain Analyzer. Three replicates of every variety in each trial were tested. Samples of known protein and oil were tested by the SDSU Agricultural Experiment Station Biochemistry Laboratory and used to calibrate the analyzer.

The protein and oil content of the 2010 soybean entries are not included in this report because they were not available when this report went to print. The data, however, will be available on the Internet version of this report when the protein and oil determinations are complete. The internet version of this report is available at <http://www.sdstate.edu/ps/extension/crop-mgmt/variety-trials-results.cfm>.

Weather and Seasonal Precipitation

Seasonal rainfall and its distribution and average temperatures at weather reporting stations nearest each test trial are reported in table A for the period April 1 to October 31. Seasonal precipitation totals were 5" above average at Aberdeen (22.37"), 6" above average at White Lake (24.12"), 8" above average at Beresford (28.49"), 9" above average at Huron (25.98"), 10" above average at Brookings (29.72"), and 4" below average at South Shore (13.99"). The moisture distribution across locations was fairly uniform at Huron, Brookings, Beresford, and White Lake. Two locations encountered moisture deficits. Aberdeen only received 1" of moisture at the airport; however, 10 miles south, at the plots, there was no moisture during August. This lack of rainfall likely reduced the potential yield at the Warner trial. At Northeast Research Farm at South Shore, the early season moisture in April was well above average and was near average through July. Thereafter, there was little if any rainfall through harvest. Again, this lack of moisture may have reduced the potential yield at the Northeast Research Farm. April temperatures were well above average for Huron, Brookings, Beresford, and White Lake, while Aberdeen was one degree above average and South Shore was one degree below average. May through July temperatures tended to be near average across all locations. However, in August, temperatures were 3 to 5 degrees higher than average at Aberdeen, South Shore, Bancroft, and Brookings, while other locations were near average.

General Test Procedures

These procedures apply to both the glyphosate-resistant and conventional non-glyphosate-resistant soybean trials, except for the chemical weed control imposed. Trial locations, soil types, tillage methods, previous crops, pesticide usage, and seeding dates are indicated in table B.

Test Procedures: A row spacing of 30 inches was used at all locations. The seeding rate was 165,000 seeds per acre for all varieties and locations. Test plots consist of 4-row plots, 20-feet long, with three replications at all locations. Soybean inoculation was accomplished by applying Nitragin-brand Soybean Soil Implant down the seed tube, according to label instructions and rates, during seeding. Seeding at all locations was accomplished using

a Monosem precision row crop planter. The center two rows of each plot were harvested for yield.

Yield: Plots were harvested and yields were adjusted to a 13% moisture content basis and expressed in bushels per acre. Harvest was accomplished using a Massey Ferguson 8XP small plot combine.

Reporting variety maturity: Variety maturity is reported as “days to maturity” or DTM. Entries are mature when 95% of the pods have turned brown. Each maturity value is obtained by determining the average number of days from seeding to maturity for two replicates and expressing as DTM at each location. Table DTM values are an average of four replicates (two for each location) unless data is at a location; in such cases, the DTM average is based on two replications.

Lodging Score: Scores at maturity are based on the erectness of the main stem of plants within each variety. 1 = all plants erect, 2 = slight lodging, 3 = some lodging at a 45°-angle, 4 = severe lodging, and 5 = all plants flat.

Phytophthora Root Rot (PRR): The gene resistance of each variety to PRR is supplied by each seed company (proprietary entries) or by the USDA (Uniform Soybean Tests, Northern States, public entries). A key for each type of PRR gene and the race resistance it imparts to a variety is given in table C. Specific race resistance to PRR, as reported by seed company, can be determined by noting the PRR gene in the variety index table D (glyphosate-resistant) and referencing the gene back to table C to find the range of race resistance. Currently, races -1, -3, and -4 are the most common races in South Dakota.

GLYPHOSATE-RESISTANT SOYBEAN VARIETY TRIAL RESULTS

Note: Yield averages are reported for 2-yr (2009-10) and for 2010.

In addition, in each yield table, entries are sorted by the zone two-year then by the zone 2010 yield values.

NORTHERN TEST ZONE

SOUTH SHORE- Conventional tillage, Northeast Research Farm
WARNER- Minimum-tillage, Allen & Inel Ryckman Farm (farm cooperators)

Note: The test trial coefficients of variation or the amount of experimental error associated with the test trial was lower than average at South Shore and a little higher than average at Warner. The higher amount of experimental error at Warner was likely the result of a lack a rainfall in August along with variations in soil type; together these factors resulted in variable soil moisture levels that in turn caused higher levels of experimental error in 2010.

South Shore, Group-0 (Tables 1): The two-year and 2010 test-yield averages were both 53 bushels per acre, respectively, and the lodging score average was 2 (Table 1). Varieties had to average 51 and 52 bushels or higher to be in the top yield group for two years and for 2010, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2010 variety yield differences had to differ by 5 bushels to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for lodging resistance and had to differ by 1 to be significantly different.

Warner, Group-0 (Tables 1): The two-year and 2010 test-yield averages were 52 and 41 bushels per acre, respectively, and the lodging score average was 1 (table 1). Varieties had to average 49 and 40 bushels or higher to be in the top yield group for two years and for 2010, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2010 variety yield differences had to differ by 9 bushels to be significantly different. Variety lodging score value differences were not significant, so all entries were in the top performance group for lodging resistance.

Northern test zone, Group-0 (Tables 1): The two-year and 2010 test-yield averages were 53 and 48 bushels per acre, respectively, and the lodging score average was 2 (table 1). In 2010, however, there were significant year-by-location interactions for both the two-year and 2010 yield averages at both locations. This means variety performance differed by location and year for the two-year yield and differed by location for the 2010 yield in the

Northern zone. Therefore, **soybean producers are encouraged to evaluate variety performance differences by using the yield columns listed under each location** and not use the yield columns listed for the Northern zone.

South Shore, Group-I (Tables 2): The two-year and 2010 test-yield averages were 54 and 50 bushels per acre, respectively, and the lodging score average was 2. Varieties had to average 50 bushels and 54 bushels or higher to be in the top yield group for two years and for 2010, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2010 variety yield differences had to differ by 4 bushels to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for lodging resistance and had to differ by 1 to be significantly different.

Warner, Group-I (Tables 2): The two-year and 2010 test-yield averages were 54 and 45 bushels per acre, respectively, and the lodging score average was 1. Varieties had to average 51 and 46 bushels or higher to be in the top yield group for two years and for 2010, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2010 variety yield differences had to differ by 7 bushels to be significantly different. Variety lodging score value differences were not significant so all entries were in the top performance group for lodging resistance.

Northern test zone, Group-I (Tables 2): The two-year and 2010 test-yield averages were 54 and 48 bushels per acre, respectively, and the lodging score average was 2. Because there were significant year-by-location interactions for the two-year yield and the 2010 yield at both locations, **soybean growers are encouraged to evaluate variety performance differences by using the yield columns listed under each location** and not use the yield columns listed for the Northern zone.

CENTRAL TEST ZONE

BROOKINGS– Conventional tillage, SDSU Plant Science Research Farm

BANCROFT- No-till, E. Weerts Farm Inc. (farm cooperator)

Note: The test trial coefficients of variation or the amount of experimental error associated with the test trials was lower than

average (3-5%) at Brookings and Bancroft in 2010. These lower amounts of experimental error at Brookings and Bancroft were likely the result of good moisture distribution during the growth season.

Brookings, Group-0 (Tables 3): The two-year and 2010 test-yield averages were 57 and 53 bushels per acre, respectively, and the lodging score average was 1. Varieties had to average 52 bushels and 55 bushels or higher to be in the top yield group for two years and for 2010, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2010 variety yield differences had to differ by 4 bushels to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2010.

Bancroft, Group-0 (Tables 3): The two-year and 2010 test-yield averages were 46 and 51 bushels per acre, respectively, and the lodging score average was 1. Varieties had to average 31 and 52 bushels or higher to be in the top yield group for 2010 and for two years, respectively. Variety yield differences among the two-year averages were not significant, while the 2010 variety yield differences had to differ by 3 bushels to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2010.

Central test zone, Group-0 (Tables 3): The two-year and 2010 test-yield averages were 52 and 52 bushels per acre, respectively, and the lodging score average was 1. Because there were significant year-by-location interactions for the two-year yield and the 2010 yield at both locations, **soybean growers are encouraged to evaluate variety performance differences by using the yield columns listed under each location** and not use the yield columns listed for the Central zone.

Brookings, Group-I (Tables 4): The two-year and 2010 test-yield averages were 60 and 58 bushels per acre, respectively, and the lodging score average was 1. Varieties had to average 58 and 61 bushels or higher to be in the top yield group for 2010 and for two years, respectively. Variety yield averages had to differ by 5 bushels for two years and 3 bushels in 2010 to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for lodging resistance and had to differ by 1 to be significantly different.

Bancroft, Group-I (Tables 4): The two-year and 2010 test-yield averages were 51 and 55 bushels per acre, respectively, and the lodging score average was 1. Varieties had to average 48 and 57 bushels or higher to be in the top yield group for 2010 and for two years, respectively. Variety yield averages had to differ by 12 bushels for two years and 4 bushels for 2010 to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2010.

Central test zone, Group-I (Tables 4): The two-year and 2010 test-yield averages were 56 and 57 bushels per acre, respectively, and the lodging score average was 1. Because there were significant year-by-location interactions for the two-year yield and the 2010 yield at both locations, **soybean growers are encouraged to evaluate variety performance differences by using the yield columns listed under each location** and not use the yield columns listed for the Central zone.

Brookings, Group-II (Tables 5): The two-year and 2010 test-yield averages were each 61 bushels per acre, and the lodging score average was 1. Varieties had to average 59 and 65 bushels or higher to be in the top yield group for two years and for 2010, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2010 variety yield differences

had to differ by 3 bushels to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for lodging resistance and had to differ by 1 to be significantly different.

Bancroft, Group-II (Tables 5): The two-year and 2010 test-yield average was 50 and 55 bushels per acre in 2010 and for two years, respectively, and the lodging score average was 1. Varieties had to average 50 and 57 bushels or higher to be in the top yield group for two years and for 2010, respectively. Variety yield averages had to differ by 10 bushels for two years and 4 bushels in 2010 to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in 2010.

Central test zone, Group-II (Tables 5): The two-year and 2010 test-yield averages were 56 and 58 bushels per acre, respectively, and the lodging score average was 1. Because there were significant year-by-location interactions for the two-year yield and the 2010 yield at both locations, **soybean growers are encouraged to evaluate variety performance differences by using the yield columns listed under each location** and not use the yield columns listed for the Central zone. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2010.

SOUTHERN TEST ZONE

BERESFORD– Conventional tillage, Southeast SD Agricultural Experiment Station.

GEDDES– No-till, Curtis Sybesma (farm cooperater)

Note: The test trial coefficients of variation or the amount of experimental error associated with the test trial was lower than average at Beresford and about average at Geddes. The lower amount of experimental error at Beresford compared to Geddes was likely the result of more rainfall and better distribution of the rainfall at Beresford in 2010.

Beresford, Group-I (Tables 6): The two-year and 2010 test-yield averages were 68 and 72 bushels per acre, respectively, and the lodging score average was 1. Varieties had to average 67 bushels and 75 bushels or higher to be in the top yield group for two years and for 2010, respectively. Variety yield averages had to differ by 5 bushels for two years and 2 bushels for 2010 to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for lodging resistance and had to differ by 1 to be significantly different.

Geddes, Group-I (Tables 6): The two-year and 2010 test-yield averages were 53 and 55 bushels per acre, respectively, and the lodging score average was 1. Varieties had to average 52 and 55 bushels or higher to be in the top yield group for two years and for 2010, respectively. Variety yield averages had to differ by 6 bushels for both two years and for 2010 to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for lodging resistance and had to differ by 1 to be significantly different.

Southern test zone, Group-I (Tables 6): The two-year and 2010 test-yield averages were 61 and 64 bushels per acre, respectively, and the lodging score average was 1. Because there was a significant year-by-location interaction for the 2010 yield at both locations, **soybean growers are encouraged to evaluate 2010 variety performance differences by using the yield columns listed under each location** and not use the 2010 yield column listed for the Southern zone. The two-year yield averages, however, did not exhibit any year-by-location interaction but did exhibit a significant variety effect. Therefore, varieties in the Southern test zone

with a two-year yield of 63 bushels per acre or higher were in the top performance group. Likewise, varieties with a lodging score of 1 were in the top performance group for lodging resistance.

Beresford, Group-II (Tables 7): The two-year and 2010 test-yield averages were 68 and 71 bushels per acre, respectively, and the lodging score average was 2. Varieties had to average 64 and 72 bushels or higher to be in the top yield group for 2010 and for two years, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2010 variety yield differences had to differ by 4 bushels to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

Geddes, Group-II (Tables 7): The two-year and 2010 test-yield averages were 57 and 52 bushels per acre, respectively, and the lodging score average was 1. Varieties had to average 54 and 51

bushels or higher to be in the top yield group for 2010 and for two years, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2010 variety yield differences had to differ by 7 bushels to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

Southern test zone, Group-II (Tables 7): The two-year and 2010 test-yield averages were 63 and 62 bushels per acre, respectively, and the lodging score average was 1. Because there were significant year by location interactions for the two-year yield and the 2010 yield at both locations, **soybean growers are encouraged to evaluate variety performance differences by using the yield columns listed under each location** and not use the yield columns listed for the Southern zone.

NON-GLYPHOSATE-RESISTANT SOYBEAN VARIETY TRIAL RESULTS

Note: Yield averages are reported 2-yr (2009-10) or for 2010.

SOUTH SHORE– Conventional tillage, Northeast Research Farm

South Shore, Group-0 (Tables 8): The 2010 and two-year test-yield averages were 46 and 50 bushels per acre, respectively, and the lodging score average was 2. Varieties had to average 42 bushels or higher for two years and 50 bushels or higher for 2010 to be in the top yield group. Variety yield differences among the two-year averages were not significant (NS), while the 2010 variety yield differences had to differ by 5 bushels to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

South Shore, Group-I (Tables 8): The two-year and 2010 and test-yield averages were 45 and 47 bushels per acre, respectively, and the lodging score average was 1. Varieties had to average 40 bushels or higher for two years and 49 bushels or higher for 2010 to be in the top yield group. Variety yield averages had to differ by 9 bushels for two years and 5 bushels for 2010 to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

BROOKINGS– Conventional tillage, SDSU Agronomy Farm

Brookings, Group-0 (Tables 9): The two-year and 2010 test-yield averages were both 48 bushels per acre, and the lodging score average was 2. Varieties had to average 45 and 53 bushels or higher to be in the top yield group for 2010 and for two years, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2010 variety yield differences had to differ by 4 bushels to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2010.

Brookings, Group-I (Tables 9): The two-year and 2010 test-yield averages were 58 and 53 bushels per acre, respectively, and the lodging score average was 2. Varieties had to average 54 and 62 bushels or higher to be in the top yield group for two years and for 2010, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2010 variety yield differences had to differ by 4 bushels to be significantly

different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

Brookings, Group-II (Tables 9): The two-year and 2010 test-yield averages were both 58 bushels per acre, and the lodging score average was 2. There was only one variety tested for the two-year period, so there were no variety differences. Varieties had to average 63 bushels or higher to be in the top yield for 2010. In 2010, variety yield differences had to differ by 3 bushels per acre to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

BERESFORD– Conventional tillage, Southeast Agricultural Experiment Station

Beresford, Group-I (Tables 10): The two-year and 2010 test-yield averages were 58 and 60 bushels per acre, respectively, and the lodging score average was 3. Varieties had to average 56 and 68 bushels or higher to be in the top yield group for two years and for 2010, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2010 variety yield differences had to differ by 3 bushels to be significantly different. Variety lodging score values had to equal 2 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

Beresford, Group-II (Tables 10): The two-year and 2010 test-yield averages were 65 and 68 bushels per acre, respectively, and the lodging score average was 3. There was only one variety tested for the two-year period, so there were no variety differences. Varieties had to average 70 bushels or higher to be in the top yield for 2010. In 2010, variety yield differences had to differ by 3 bushels per acre to be significantly different. Variety lodging score values had to equal 2 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different.

Table A. Nearest weather station monthly rainfall totals and average daily temperatures and their departures from average during the 2010 growing season. South Dakota Office of Climate and Weather, South Dakota State University, Brookings, SD.

Station (Test site)	Variable		Monthly data - April 1 to October 31							Sum or Average
			April	May	June	July	Aug	Sept	Oct	
Aberdeen Airport (Warner)	Rain totals - inch	'10	3.15	4.46	5.40	3.24	1.01	4.08	1.03	22.37
	1971-2000 avg.		1.83	2.69	3.49	2.92	2.42	1.81	1.63	16.79
		DFA*	1.32	1.77	1.91	0.32	-1.41	2.27	-0.60	5.58
	Temp.Avg. -oF	'10	51.0	56.2	67.2	72.6	73.4	57.9	49.3	61.09
	1971-2000 avg.		45.4	57.9	66.8	72.2	70.5	59.8	46.7	59.90
	DFA	5.6	-1.7	0.4	0.4	2.9	-1.9	2.6	1.19	
South Shore (NE Research Farm)	Rain totals - inch	'10	0.94	2.76	6.53	3.51	0.25	0.00	0.00	13.99
	1971-2000 avg.		1.96	2.61	4.01	2.91	2.85	2.03	1.92	18.29
		DFA	-1.02	0.15	2.52	0.60	-2.60	-2.03	-1.92	-4.30
	Temp.Avg. -oF	'10	51.1	56.4	65.9	71.7	72.5	57.2	50.1	60.70
	1971-2000 avg.		43.2	56.0	65.3	70.4	67.8	57.8	45.0	57.93
	DFA	7.9	0.4	0.6	1.3	4.7	-0.6	5.1	2.77	
Huron (Bancroft)	Rain totals - inch	'10	2.40	3.67	7.52	6.43	1.60	3.50	0.86	25.98
	1971-2000 avg.		2.29	3.00	3.28	2.86	2.07	1.80	1.59	16.89
		DFA	0.11	0.67	4.24	3.57	-0.47	1.70	-0.73	9.09
	Temp.Avg. -oF	'10	52.6	57.3	68.4	74.6	75.4	60.2	51.6	62.87
	1971-2000 avg.		46.1	58.2	67.9	73.4	71.5	61.0	47.9	60.86
	DFA	6.5	-0.9	0.5	1.2	3.9	-0.8	3.7	2.01	
Brookings (Plant Science Res. Farm)	Rain totals - inch	'10	1.24	2.22	7.95	5.29	4.75	7.39	0.88	29.72
	1971-2000 avg.		2.03	2.95	4.23	3.11	2.94	2.48	1.78	19.52
		DFA	-0.79	-0.73	3.72	2.18	1.81	4.91	-0.90	10.20
	Temp.Avg. -oF	'10	51.5	56.7	66.4	72.1	72.7	57.9	49.1	60.91
	1971-2000 avg.		44.2	56.7	66.1	70.7	68.6	59.1	46.3	58.81
	DFA	7.3	0.0	0.3	1.4	4.1	-1.2	2.8	2.10	
Centerville, 6 SE (Beresford, SE Experiment Station)	Rain totals - inch	'10	1.91	2.19	6.69	6.99	3.47	6.03	1.21	28.49
	1971-2000 avg.		2.47	3.65	3.95	3.35	2.83	2.26	1.80	20.31
		DFA	-0.56	-1.46	2.74	3.64	0.64	3.77	-0.59	8.18
	Temp.Avg. -oF	'10	53.4	58.8	69.8	74.1	73.9	60.6	51.2	63.11
	1971-2000 avg.		47.2	59.5	69.4	73.7	71.5	62.3	49.7	61.90
	DFA	6.2	-0.7	0.4	0.4	2.4	-1.7	1.5	1.21	
White Lake (Geddes)	Rain totals - inch	'10	2.86	2.93	6.45	6.4	2.35	2.48	0.65	24.12
	1971-2000 avg.		2.49	3.6	3.19	2.88	2.21	2.09	1.59	18.05
		DFA	0.37	-0.67	3.26	3.52	0.14	0.39	-0.94	6.07
	Temp.Avg. -oF	'10	51.3	56.8	68.5	74.3	74.0	58.8	50.7	62.06
	1971-2000 avg.		47.9	59.7	69.0	74.5	72.7	62.8	49.8	62.34
	DFA	3.4	-2.9	-0.5	-0.2	1.3	-4.0	0.9	-0.29	

* DFA - departure from normal, difference current year is greater or less (-) than the long-term average.

Table B. Description of 2010 trial locations- soil type, tillage, prior crop, herbicides and inoculants, and seeding dates.

Location (County)	Soils & Management		Prior crop	Herbicides Applied at label rates				Insecticides	
	Type	Tillage Method		Glyphosate Plots		Non- glyphosate Plots		Applied at label rates	Date seeded
				Pre	Post	Pre	Post		
Warner (Brown)	Harmony-Aberdeen silty clay loam, 0-2% slope	No-till	Corn	None	Roundup/ Fusilade once	-	-	None	May 28
South Shore (Codington)	Kranzburg silty clay loam, 3-6% slope	Conven- tional	Spring wheat	2 pt, Dual II Magnum	Roundup once	2 pt, Dual II Magnum	Harmony/ Basagran	Warrior (aerial)	May 21
Bancroft (Kingsbury)	Houdek-Stickney- Tetonka loam, 0-3% slope	No-till	Corn	None	Roundup twice	-	-	None	June 3
Brookings (Brookings)	Barnes clay loam, 0-2% slope	Conven- tional	Spring wheat	None	Roundup twice	None	Harmony/ Poast	Asana (ground)	May 17
Geddes (Char. Mix)	Highmore-Walke silt loam, 0-2% slope	No-till	Corn	None	Roundup once	-	-	None	June 7
Beresford (Clay)	Egan-Clarno-Trent silty clay loam, 0-2% slope	Conven- tional	Corn	None	Roundup once		Basagran/ Classic/ Assure	None	May 24

* Nitragin Soybean Soil Implant was applied down the seed tube at label rates at planting.

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Table C. Phytophthora root rot race resistance by gene.

Gene	Gene Code	Race Resistance
rps1	0	None
Rps1, Rps1a	1A	1-2,10-11,13,15-18,24
Rps1b	1B	1,3-9,13-15,18,21-22
Rps1c	1C	1-3,6-11,13,15,17,21,23-24
Rps1k	1K	1-11,13-15,17-18,21-22,24
Rps2	2	1-5,9-20
Rps3	3	1-5,8-9,11,13-14,16,18,23,25
Rps4	4	1-4,10,12-16,18-21,25
Rps5	5	1-5,8-9,11-14,18,20,25
Rps6	6	1-4,10,12,14-16,18-21,25
Rsp7	7	16,18,19
Rps1k, Rps6	K6	1-22,24-25
Rps1c, Rps3	C3	1-10,13-18,22-25
Rps1b	B3	1-9,13-16,18,21-23,25
MIX	MIX	Resistant & Susceptible Plants
NR	NR	Not Reported

Table D. Index to 2010 Glyphosate-resistant soybean entries by brand/variety, maturity group, seed trt., gene code for Phytophthora root rot(PRR) resistance as reported by entrants, glyphosate gene event, and performance table no.(s). Use table C to determine entry PRR strain resistance.

Brand / Variety	Mat. Grp.	Seed Trt.	PRR Gene Code*	Glyphosate Gene Event*	Table No.(s)
ASGROW/ AG0730	0.7	Acceleron	1K	RR2Y	1
ASGROW/ AG1031	1	Acceleron	3	RR2Y	2
ASGROW/ AG1230	1.2	Acceleron	1C	RR2Y	2
ASGROW/ AG1431	1.4	Acceleron	1C	RR2Y	2,4
ASGROW/ AG1530	1.5	Acceleron	1C	RR2Y	2,4
ASGROW/ AG1631	1.6	Acceleron	1C	RR2Y	2,4
ASGROW/ AG1831	1.8	Acceleron	1K	RR2Y	4
ASGROW/ AG1931	1.9	Acceleron	1C	RR2Y	4
ASGROW/ AG2031	2	Acceleron	1C	RR2Y	5,7
ASGROW/ AG2430	2.4	Acceleron	1C	RR2Y	7
ASGROW/ AG2530	2.5	Acceleron	1K	RR2Y	7
ASGROW/ AG2631	2.6	Acceleron	0	RR2Y	7
ASGROW/ AG2831	2.8	Acceleron	1C	RR2Y	7
ASGROW/ AG2931	2.9	Acceleron	1C	RR2Y	7
CHANNEL/ 1201R2	1.2	Acceleron	1C	RR2Y	2,4
CHANNEL/ 1400R2	1.4	Acceleron	1K	RR2Y	2,4
CHANNEL/ 1502R2	1.5	Acceleron	1C	RR2Y	2,4
CHANNEL/ 1700R2	1.7	Acceleron	1C	RR2Y	5
CHANNEL/ 2000R2	2	Acceleron	1C	RR2Y	5
CHANNEL/ 2402R2	2.4	Acceleron	1C	RR2Y	5
DAIRYLAND/ DSR-0747/R2Y	0.7	Cruiser Maxx	1C	RR2Y	7
DAIRYLAND/ DSR-1100/RR	1.1	Cruiser Maxx	1C	RR1	7
DAIRYLAND/ DSR-1370/R2Y	1.3	Cruiser Maxx	1C	RR2Y	7
DAIRYLAND/ DSR-1710/R2Y	1.7	Cruiser Maxx	1C	RR2Y	2
DAIRYLAND/ DSR-1807/R2Y	1.8	Cruiser Maxx	1C	RR2Y	7
DAIRYLAND/ DSR-2011/RR	2	Cruiser Maxx	NR	RR1	7
DAIRYLAND/ DSR-2132/R2Y	2.1	Cruiser Maxx	1C	RR2Y	7
DAIRYLAND/ DSR-2375/R2Y	2.3	Cruiser Maxx	1C	RR2Y	7
DAIRYLAND/ DSR-2560/RR	2.5	Cruiser Maxx	NR	RR1	7
DAIRYLAND/ DSR-2770/RR	2.7	Cruiser Maxx	1K	RR1	7
DAIRYLAND/ DSR1215/R2Y	1.2	Cruiser Maxx	1C	RR2Y	1
DAIRYLAND/ DST18-003/R2	1.8	Cruiser Maxx	1C	RR2Y	2
DAIRYLAND/ DST19-003/R2	1.9	Cruiser Maxx	1C	RR2Y	4
DAIRYLAND/ DST22-007/R2	2.2	Cruiser Maxx	NR	RR2Y	7
G-2/ GENETICS 6088	0.8	Cruiser Maxx	NR	RR1	7
G-2/ GENETICS 6090	0.9	Cruiser Maxx	1C	RR1	1,3
G-2/ GENETICS 6098	0.9	Cruiser Maxx	1K	RR1	7
G-2/ GENETICS 6159	1.5	Cruiser Maxx	1K	RR1	7
G-2/ GENETICS 6160	1.5	Cruiser Maxx	1K	RR1	1,3
G-2/ GENETICS 7180	1.8	Cruiser Maxx	NR	RR1	2,4,6
G-2/ GENETICS 7186	1.8	Cruiser Maxx	1K	RR1	7
G-2/ GENETICS 7208	2	Cruiser Maxx	1C	RR1	5
G-2/ GENETICS 7212	2.1	Cruiser Maxx	1K	RR1	2
G-2/ GENETICS 7230	2.3	Cruiser Maxx	1C	RR1	2
G-2/ GENETICS 7249	2.4	Cruiser Maxx	1K	RR1	5,7
G-2/ GENETICS 7250	2.5	Cruiser Maxx	1K	RR1	5,7
G-2/ GENETICS 7260	2.6	Cruiser Maxx	1K	RR1	1,3
G-2/ GENETICS 7290	2.8	Cruiser Maxx	1K	RR1	2,4,6
HEFTY/ 09Y11	0.9	Acceleron	3	RR2Y	1
HEFTY/ H09Y10	0.9	Acceleron	1C	RR2Y	1

*NR - Not reported by seed entrant.

Table D. Index to 2010 Glyphosate-resistant soybean entries (Continued).

Brand / Variety	Mat. Grp.	Seed Trt.	PRR Gene Code*	Glyphosate Gene Event*	Table No.(s)
HEFTY/ H117	1.1	NR	0	RR1	2,
HEFTY/ H11Y10	1.1	Acceleron	1C	RR2Y	1
HEFTY/ H12Y11	1.2	Acceleron	1C	RR2Y	2
HEFTY/ H139	1.3	NR	0	RR1	2
HEFTY/ H13Y11	1.3	Acceleron	1C	RR2Y	2
HEFTY/ H168	1.6	NR	0	RR1	4
HEFTY/ H16Y11	1.6	Acceleron	0	RR2Y	4
HEFTY/ H187	1.8	Acceleron	1C	RR2Y	5
HEFTY/ H18Y11	1.8	Acceleron	0	RR2Y	2,4
HEFTY/ H19Y11	1.9	Acceleron	1C	RR2Y	4
HEFTY/ H200	2	NR	1K	RR1	4
HEFTY/ H20Y11	2	Acceleron	0	RR2Y	4
HEFTY/ H23Y10	2.3	Acceleron	0	RR2Y	5
HEFTY/ H23Y11	2.3	Acceleron	1C	RR2Y	5
HEFTY/ H24Y11	2.4	Acceleron	1C	RR2Y	5,7
HEFTY/ H250	2.5	NR	1K	RR1	7
HEFTY/ H259	2.5	NR	1K	RR1	7
HEFTY/ H25Y11	2.5	Acceleron	1C	RR2Y	7
MUSTANG/ 06441	0.6	Acceleron	0	RR2Y	1
MUSTANG/ 08331	0.8	Acceleron	3	RR2Y	1
MUSTANG/ 09920	0.9	Acceleron	1C	RR2Y	1
MUSTANG/ 11030	1.1	Acceleron	1C	RR2Y	2
MUSTANG/ 13320	1.3	Acceleron	1C	RR2Y	2
MUSTANG/ 14441	1.4	Acceleron	1C	RR2Y	2,4
MUSTANG/ 16221	1.6	Acceleron	0	RR2Y	4
MUSTANG/ 18821	1.8	Acceleron	1K	RR2Y	4
MUSTANG/ 19990	1.9	Acceleron	1C	RR2Y	4
MUSTANG/ 20221	2	Acceleron	1C	RR2Y	5
MUSTANG/ 21181	2.1	Acceleron	1C	RR2Y	5
MUSTANG/ 21320	2.1	Acceleron	1C	RR2Y	5
MUSTANG/ 21421	2.1	Acceleron	1C	RR2Y	5
MUSTANG/ 23321	2.3	Acceleron	1C	RR2Y	5,7
MUSTANG/ 23530	2.3	Acceleron	1C	RR2Y	5,7
MUSTANG/ 25521	2.5	Acceleron	1C	RR2Y	7
MUSTANG/ 27721	2.7	Acceleron	0	RR2Y	7
NORTHSTAR/ NS1726NR2	1.7	NR	NR	RR2Y	7
NORTHSTAR/ NS2026NR2	2	NR	NR	RR2Y	7
NORTHSTAR/ NS2116NR2	2.1	NR	NR	RR2Y	1,3
NORTHSTAR/ NS2226NR2	2.2	NR	NR	RR2Y	2,4,6
NUTECH/ 0886RR	0.8	Cruiser Maxx	NR	RR1	1,3
NUTECH/ 0889RR	0.8	Cruiser Maxx	NR	RR1	1,3
NUTECH/ 0990RR	0.9	Cruiser Maxx	NR	RR1	1,3
NUTECH/ 1808RN	1.8	Cruiser Maxx	1C	RR1	4,6
NUTECH/ 2660RN	2.6	Cruiser Maxx	1C	RR1	5,7
NUTECH/ 6082	0.8	Cruiser Maxx	NR	RR1	1,1
NUTECH/ 6145	1.4	Cruiser Maxx	NR	RR1	2,4
NUTECH/ 6195	1.9	Cruiser Maxx	NR	RR1	2,4
NUTECH/ 6198	1.9	Cruiser Maxx	NR	RR1	6
NUTECH/ 6205+RR	1.9	Cruiser Maxx	1K	RR1	2,4,6
NUTECH/ 6217	2.1	Cruiser Maxx	NR	RR1	7

*NR - Not reported by seed entrant.

Table D. Index to 2010 Glyphosate-resistant soybean entries (Continued).

Brand / Variety	Mat. Grp.	Seed Trt.	PRR Gene Code*	Glyphosate Gene Event*	Table No.(s)
NUTECH/ 6234RR	2.3	Cruiser Maxx	1K	RR1	5
NUTECH/ 7199	1.9	Cruiser Maxx	1C	RR1	2,4,6
NUTECH/ 7222	2.2	Cruiser Maxx	1K	RR1	5,7
NUTECH/ 7274	2.7	Cruiser Maxx	1K	RR1	5,7
PIONEER/ 90Y80	0.8	Cruiser Maxx	0	RR1	1
PIONEER/ 91Y22	1.2	Cruiser Maxx	0	RR1	2
PIONEER/ 91Y60	1.6	Cruiser Maxx	1C	RR1	2,4
PIONEER/ 91Y71	1.7	Cruiser Maxx	0	RR1	4
PIONEER/ 91Y90	1.9	Cruiser Maxx	0	RR1	4
PIONEER/ 92Y30	2.3	Cruiser Maxx	1K	RR1	5,7
PIONEER/ 92Y51	2.5	Cruiser Maxx	1K	RR1	7
PIONEER/ 92Y70	2.7	Cruiser Maxx	0	RR1	7
PIONEER/ 92Y82	2.8	Cruiser Maxx	1K	RR1	7
PIONEER/ 93Y13	3.1	Cruiser Maxx	1C	RR1	7
PRAIRIE BR./ EXP 0801	0.8	Cruiser Maxx	1C	RR2Y	1
PRAIRIE BR./ EXP 1001	0.9	Cruiser Maxx	1C	RR2Y	2,4
PRAIRIE BR./ EXP 1301	1.3	Cruiser Maxx	1C	RR2Y	6
PRAIRIE BR./ EXP 1701	1.7	Cruiser Maxx	1C	RR2Y	1
PRAIRIE BR./ EXP 1802	1.8	Cruiser Maxx	1C	RR2Y	4,6
PRAIRIE BR./ EXP 2102	2.1	Cruiser Maxx	1K	NR	2,4,6
PRAIRIE BR./ EXP 2302	2.3	Cruiser Maxx	1C	RR1	4,6
PRAIRIE BR./ EXP 2801	2.8	Cruiser Maxx	1C	RR2Y	5
PRAIRIE BR./ PB-0954RR	0.9	Cruiser Maxx	0	RR1	2,4
PRAIRIE BR./ PB-0999RR	0.9	Cruiser Maxx	0	RR1	2
PRAIRIE BR./ PB-1120R2	0.9	Cruiser Maxx	1C	RR2Y	4
PRAIRIE BR./ PB-1337RR	1.3	Cruiser Maxx	0	RR1	2
PRAIRIE BR./ PB-1410R2	1.4	Cruiser Maxx	1C	RR1	5,7
PRAIRIE BR./ PB-1552R2	1.5	Cruiser Maxx	1C	RR2Y	1
PRAIRIE BR./ PB-1597RR	1.5	Trilex 6000	0	RR1	4
PRAIRIE BR./ PB-1722R2	1.7	Cruiser Maxx	1K	RR2Y	1
PRAIRIE BR./ PB-1920R2	1.9	Cruiser Maxx	1C	RR2Y	2
PRAIRIE BR./ PB-1942R2	1.8	Cruiser Maxx	1C	RR2Y	1
PRAIRIE BR./ PB-1956RR	1.9	Cruiser Maxx	1C	RR1	2
PRAIRIE BR./ PB-202	1.9	Cruiser Maxx	0	RR2Y	2
PRAIRIE BR./ PB-2020R2	1.9	Cruiser Maxx	0	RR2Y	5,7
PRAIRIE BR./ PB-2042R2	1.9	Cruiser Maxx	1C	RR2Y	2
PRAIRIE BR./ PB-2058NRR	1.9	Cruiser Maxx	1K	RR1	1
PRAIRIE BR./ PB-2110R2	1.9	Cruiser Maxx	1C	RR2Y	2
PRAIRIE BR./ PB-2142R2	2.1	Cruiser Maxx	1K	RR2Y	6
PRAIRIE BR./ PB-2207NRR	2.2	Trilex 6000	1K	RR1	7
PRAIRIE BR./ PB-2278RR	1.9	Cruiser Maxx	1K	RR1	5,7
PRAIRIE BR./ PB-2419RR2	2.4	Cruiser Maxx	1C	RR2Y	4,6
PRAIRIE BR./ PB-242	2.4	Cruiser Maxx	1C	RR2Y	4,6
PRAIRIE BR./ PB-2442R2	2.4	Cruiser Maxx	1C	RR2Y	6
PRAIRIE BR./ PB-2450R	2.4	Cruiser Maxx	0	RR1	4,6
PRAIRIE BR./ PB-2558NRR	2.4	Trilex 6000	0	RR1	6
PRAIRIE BR./ PB-2632R2	2.6	Cruiser Maxx	1C	RR2Y	5,7
PRAIRIE BR./ PB-2742R2	2.8	Cruiser Maxx	0	RR2Y	5
PRAIRIE BR./ PB0879NRR2	0.8	Cruiser Maxx	1C	RR2Y	5,7
PRAIRIE BR./ PB1499NRR2	1.4	Cruiser Maxx	1C	RR2Y	2,4

*NR - Not reported by seed entrant.

Table D. Index to 2010 Glyphosate-resistant soybean entries (Continued).

Brand / Variety	Mat. Grp.	Seed Trt.	PRR Gene Code*	Glyphosate Gene Event*	Table No.(s)
PRAIRIE BR./ PB2099NRR2	1.9	Cruiser Maxx	1C	RR2Y	2,4
REA/ 71G20	1.1	NR	0	RR2Y	7
REA/ 75G10	1.5	NR	1C	RR2Y	2,4,6
REA/ 76G10	1.6	NR	1K	RR2Y	5,7
REA/ 84G15	2.4	NR	1C	RR2Y	5,7
REA/ 8705NRR	2	NR	1K	RR1	2,4
REA/ EXP 72G21	1.2	NR	1C	RR2Y	7
REA/ EXP 75G91	1.5	NR	1C	RR2Y	7
REA/ EXP 76G11	1.6	NR	0	RR2Y	2,4
REA/ EXP 80G11	2	NR	1K	RR2Y	5
REA/ EXP 84G20	2.4	NR	1C	RR2Y	2,4
RENK/ RS140NR2	1.4	Accelaron	1C	RR2Y	7
RENK/ RS141R2	1.4	Accelaron	1C	RR2Y	2
RENK/ RS161NR2	1.6	Accelaron	NR	RR2Y	1
RENK/ RS181NR2	1.8	Accelaron	1K	RR2Y	1
RENK/ RS210NR2	2	Accelaron	1C	RR2Y	7
RENK/ RS211NR2	2.1	Accelaron	1C	RR2Y	7
RENK/ RS241R2	2.4	Accelaron	1C	RR2Y	4
RENK/ RS259NRR	2.5	NR	NR	RR1	5,7
RENK/ RS271NR2	2.7	Accelaron	1K	RR2Y	5
SEEDS 2000/ 2120RR	1.2	NR	1K	RR1	5,7
SEEDS 2000/ EXP2061RR2Y	0.6	NR	1K	RR2Y	5,7
SEEDS 2000/ EXP2091RR2Y	0.9	NR	1K	RR2Y	5,7
STINE/ 06RA00	0.6	Cruiser Maxx	1C	RR2Y	4
STINE/ 10RA60	1	Cruiser Maxx	0	RR2Y	2
STINE/ 13R08	1.3	Cruiser Maxx	1K	RR2Y	2,4
STINE/ 14RA02	1.4	Cruiser Maxx	1K	RR2Y	4
STINE/ 16RA02	1.6	Cruiser Maxx	1K	RR2Y	7
STINE/ 18RA02	1.8	Cruiser Maxx	1K	RR2Y	4
STINE/ 21RB62	2.1	Cruiser Maxx	1C	RR2Y	4
STINE/ 23RA22	2.3	Cruiser Maxx	1K	RR2Y	7
STINE/ 24RB02	2.4	Cruiser Maxx	1K	RR2Y	2
STINE/ 27RA02	2.7	Cruiser Maxx	1C	RR2Y	2,4
STINE/ 29RB22	2.9	Cruiser Maxx	0	RR2Y	1
SD/ 1093RR	0.9	Trilex 6000	NR	RR1	4
SD/ 1161RR/SCN	1.6	Trilex 6000	1A	RR1	4
SD/ 2171RR	1.7	NR	1C	RR2Y	4
SD/(LD)05-16137	2	NR	NR	NR	7

NR - Not reported by seed entrant.

Table E. Conventional 2010 soybean entries by brand/variety, maturity group, seed trt., and gene code for Phytophthora root rot resistance as reported by entrants; and performance table no.(s). Strain or race resistance by gene type is reported in table C.

Brand or Public / Variety	Mat. Grp.	Seed Treatment	Gene Code*	Table No.(s)
DAIRYLAND/ DSR-1680/STS	1.6	Cruiser Maxx	NR	9
RICHLAND ORG./ MK0508	0.5	None	rps1 - None	8
RICHLAND ORG./ MK1016	1	None	rps1 - None	8, 9,10
RICHLAND ORG./ MK1401T	1.4	None	rps1 - None	8, 9,10
RICHLAND ORG./ MK9101	1.1	None	rps1 - None	8, 9,10
RICHLAND ORG./ MK9120	1.2	None	rps1 - None	8, 9,10
SEEDS 2000/ EXP 2082L	0.8	None	Rps1k	8,9
SEEDS 2000/ EXP 2083L	0.8	None	Rps1k	8
SEEDS 2000/ EXP 2092L	0.9	None	Rps1k	8
SEEDS 2000/ EXP 2102LN	1	None	Rps1 (Rps1a)	8,9
SK FOOD INTL/ EXP 9813	1.5	None	NR	9,10
SK FOOD INTL/ SK927	0.3	None	NR	9
SK FOOD INTL/ SK9801	1	None	Rps1k	8
PUBLIC/ DAVISON	2.2	None	Rps1 (Rps1a)	9,10
PUBLIC/ DEUEL	1.1	None	Rps1k	8, 9,10
PUBLIC/ EXP MN0907	0	None	Rps1k, Rps6	8,9
PUBLIC/ EXP MN0908CN	0	None	rps1 - None	8,9
PUBLIC/ MN0606CN	0	None	NR	8,9
PUBLIC/ MN1410	1	None	rps1 - None	8, 9,10
PUBLIC/ MN1413CN	1	None	rps1 - None	8, 9,10
PUBLIC/ MN1701CN	1	None	rps1 - None	8, 9,10
PUBLIC/ SHEYENNE	0.8	None	NR	8,9
PUBLIC/ SURGE	0.7	None	Rps1 (Rps1a)	8,9
PUBLIC/ SD00-1501	0	None	NR	8,9
PUBLIC/ SD03-2154	0	None	NR	8,9
PUBLIC/ SD04CV-611	0	None	NR	8,9
PUBLIC/ SD04CV-613	0	None	NR	8,9
PUBLIC/ SD05-240	1	None	NR	8, 9,10
PUBLIC/ SD05-767	0	None	NR	8,9
PUBLIC/ SD06-322	0	None	NR	8,9
PUBLIC/ SD06-428	0	None	NR	8,9
PUBLIC/ SD06-430	0	None	NR	8,9
PUBLIC/ SD06-487	0	None	NR	8,9
PUBLIC/ SD06-525	0	None	NR	8,9
PUBLIC/ SD07CV-367	2	None	NR	9,10
PUBLIC/ SD07CV-523	1	None	NR	9
PUBLIC/ SD07CV-528	0	None	NR	8,9
PUBLIC/ SD07CV-539	0	None	NR	8,9
PUBLIC/ SD07CV-576	1	None	NR	9
PUBLIC/ SD07CV-603	2	None	NR	9,10
PUBLIC/ SD07CV-619	1	None	NR	9
PUBLIC/ SD07CV-631	2	None	NR	9,10
PUBLIC/ SD07CV-673	1	None	NR	9
PUBLIC/ SD07CV-770	2	None	NR	9,10
PUBLIC/ SD07CV-800	2	None	NR	9,10
PUBLIC/ SD07CV-874	2	None	NR	9,10
PUBLIC/ SD07CV-875	1	None	NR	9
PUBLIC/ SD07CV-878	2	None	NR	9,10
PUBLIC/ SD07CV-885	1	None	NR	9
PUBLIC/ SD07CV-886	2	None	NR	9,10
PUBLIC/ SD07CV-935	0	None	NR	8,9
PUBLIC/ SD07CV-997	1	None	NR	9

* NR indicates gene code was not reported by seed entrant.

Table F. Explanation of performance table footnotes.

No.	Explanation of footnotes
[1]	Days to maturity (DTM) – the number of days to maturity from seeding to 95% brown pod.
[2]	Lodging scores: 0= all plants erect, 3= 50% of plants lodged at 45°-angle, 5= all plants flat.
[3]	Least Significant Difference (LSD 0.05) – the difference two values within a column must equal or exceed to be significantly different from one another at the 0.05 level of probability. If the difference is less than the LSD value the difference between the values is nonsignificant (NS).
[4]	TPG-avg. – the minimum value within a column that entry yield values must equal or exceed to qualify for the top-performance group (TPG).
[5]	TPG-avg. – the maximum value within a column that lodging score values must equal or be less than to qualify for the TPG.
[6]	Coefficient of variation (C.V.) - the percent of experimental error associated with a test trial. Ideally, the CV value for yield is less than 15%. Values less than 5% tend to be less common while values of 6 to 15% are more common. Occasionally, values exceed 15%; this means the trial contained too much experimental error to be a valid test; thus, no data analysis for that table column is reported.

Table G. Mailing addresses of entrants in the 2010 soybean trials.

Entrant name (brand name) & Mailing address
Channel Bio. Corp. (Channel), 1551 Hwy 210, Huxley, IA 50124
Dairyland Seed Co., Inc. (Dairyland), PO Box 958, West Bend, WI 53095
G2 Genetics (G2), 36131 Hwy 69N, Forest City, IA 50436
Hefty Seed Co. (Hefty), 47504 252nd St., Baltic, SD 57003
Minnesota Crop Improvement Assoc., 1900 Hendon Ave, St. Paul, MN 55108
Monsanto (Asgrow), 102 West Carol Ave., Cortland, IL 60112
Mustang Seeds (Mustang), PO Box 466, Madison, SD 57042
North Star Genetics, MN
Nutech Seed, LLC (Nutech), 36131 Hwy 69N, Forest City, IA 50436
REA Hybrids, (REA), 537 Ave. S, Moorhead, MN 56560
Renk Seed Co. (Renk), 6809 Wilburn Rd., Sun Prairie, WI 53590
Pioneer Hi-Bred Intl. (Pioneer), 151 St. Andrews Ct., Mankato, MN 56001
Prairie Brand Seed Co. (Prairie Brand), 15 X Ave., Story City, IA 50248
Richland Organics, Inc. (Richland Organics), 100 Tenth St. North, Breckenridge, MN 56520
Seeds 2000 (Seeds 2000), PO Box 200, Breckenridge, MN 56520
SK Food International, 4666 Amber Valley Parkway, Fargo, ND 58104
Sodak Genetics (Sodak), 1200 North Campus Dr., Brookings, SD 57007
Stine Seed Co.(Stine), 14605 University Ave., Waukegan, IA 50263
South Dakota State University, Plant Science Department, Box 2207A, Brookings, SD

Table 1. Glyphosate-resistant maturity group-0 soybean variety yield and lodging averages- northern South Dakota locations, 2009-2010. Entries are sorted by 2-Yr then by 2010 zone yield.

Brand/Variety	DTM [1]	Northern Averages by Location*						Northern Zone Averages		
		South Shore			Warner					
		Yield-bu/a		2010 Lodg.	Yield-bu/a		2010 Lodg.	Yield-bu/a		2010 Lodg.
		2-Yr	2010	(1-5) [2]	2-Yr	2010	(1-5) [2]	2-Yr	2010	(1-5) [2]
DAIRYLAND/ DSR-0747/R2Y	112	55	55	2	54	45	1	55	50	2
NUTECH/ 0886RR	111	53	55	1	55	41	1	54	48	1
SODAK GEN./SD 1093RR	111	53	56	3	53	45	1	53	51	2
PRAIRIE BR./ PB-0999RR	113	53	53	2	53	42	1	53	48	2
PRAIRIE BR./ PB-0954RR	114	53	54	3	50	41	1	52	48	2
PIONEER/ 90Y80	108	54	55	2	50	37	1	52	46	2
NUTECH/ 0990RR	113	52	50	2	52	41	1	52	46	2
NUTECH/ 0889RR	114	54	54	3	49	37	1	52	46	2
G-2/ GENETICS 6098	110	51	49	2	49	37	1	50	43	2
G-2/ GENETICS 6088	112	.	57	2	55	44	1	.	51	1
PRAIRIE BR./ EXP 0801	112	.	52	1	.	47	1	.	50	1
SEEDS 2000/ EXP2091RR2Y	112	.	51	2	.	48	1	.	50	2
ASGROW/ AG0730	109	.	54	2	.	43	1	.	49	1
HEFTY/ 09Y11	110	.	54	2	.	44	1	.	49	2
PRAIRIE BR./ PB0879NRR2	115	.	54	3	.	43	1	.	49	2
PRAIRIE BR./ EXP 1001	112	.	53	2	.	41	1	.	47	2
NUTECH/ 6082	115	.	52	4	.	40	1	.	46	2
G-2/ GENETICS 6090	109	.	50	1	.	41	1	.	46	1
HEFTY/ H09Y10	111	.	51	2	.	37	1	.	44	2
PRAIRIE BR./ PB-1120R2	116	.	50	3	.	36	1	.	43	2
SEEDS 2000/ EXP2061RR2Y	112	.	47	3	.	37	1	.	42	2
MUSTANG/ 06441	114	.	57	2	.	.	.	.	.	.
MUSTANG/ 08331	113	.	51	2	.	.	.	.	.	.
MUSTANG/ 09920	116	55	50	2	.	.	.	.	.	.
STINE/ 06RA00	114	.	50	3	.	.	.	.	.	.
Test avg. :	112	53	53	2	52	41	1	53	48	2
High avg. :	116	55	57	4	55	48	1	55	57	3
Low avg. :	108	51	47	1	49	36	1	50	42	1
[3] Test LSD (.05):		NS**	5	1	NS	9	0	***	***	***
[4] Min.TPG-avg. :		51	52	.	49	40	.			
[5] Max.TPG-avg. :		.	.	1	.	.	1			
[6] Test Coef. Var.:		7	5	18	10	13	.			
No. Entries:	46	10	25	25	10	21	21	21	46	46

[1] DTM= days to maturity from seeding dates of May 21 at South Shore and May 28 at Warner.

Note that additional table footnotes are explained in Table F.

* Shaded values within a column are included in the top-performance group. Look for hybrids with more shaded values, the more the better.

** Indicates differences between values within a column are non-significant (NS).

*** There were significant variety by location interactions for yield zone averages.

Therefore, evaluate yield by using the yield columns for each location.

Table 2. Glyphosate-resistant maturity group-I soybean variety yield and lodging averages- northern South Dakota locations, 2009-2010. Entries are sorted by 2-Yr then by 2010 zone yield.

Brand/Variety	DTM [1]	Northern Averages by Location*						Northern Zone Averages		
		South Shore			Warner			Yield-bu/a		2010 Lodg. (1-5) [2]
		Yield-bu/a		2010 Lodg. (1-5) [2]	Yield-bu/a		2010 Lodg. (1-5) [2]	2-Yr	2010	
		2-Yr	2010		2-Yr	2010				
DAIRYLAND/ DSR-1370/R2Y	117	55	52	2	59	51	1	57	52	2
PRAIRIE BR./ PB-1597RR	114	57	55	2	56	45	1	57	50	1
PRAIRIE BR./ PB1499NRR2	116	54	47	2	58	46	1	56	47	2
NUTECH/ 6145	117	55	51	1	55	45	1	55	48	1
DAIRYLAND/ DSR-1100/RR	114	55	53	3	54	43	1	55	48	2
HEFTY/ H117	111	55	53	2	54	40	1	55	47	2
G-2/ GENETICS 6159	114	53	51	2	52	42	1	53	47	1
NUTECH/ 6205+RR	121	53	50	2	52	39	1	53	45	2
PRAIRIE BR./ PB-1337RR	114	54	50	2	51	37	1	53	44	2
SODAK GEN./SD 1161RR/ SCN	119	51	50	3	52	43	1	52	47	2
HEFTY/ H139	115	50	48	1	51	40	1	51	44	1
SEEDS 2000/ 2120RR	114	50	48	1	52	40	1	51	44	1
ASGROW/ AG1631	117	.	51	3	.	53	1	.	52	2
DAIRYLAND/ DSR-1710/R2Y	122	.	52	3	.	52	1	.	52	2
PRAIRIE BR./ PB-1722R2	124	.	51	2	.	52	1	.	52	2
MUSTANG/ 13320	117	.	51	2	.	51	1	.	51	1
MUSTANG/ 14441	116	.	52	3	.	49	1	.	51	2
ASGROW/ AG1230	114	.	50	1	.	49	1	.	50	1
ASGROW/ AG1431	115	.	54	2	.	45	1	.	50	2
DAIRYLAND/ DSR1215/R2Y	115	.	54	2	.	45	1	.	50	2
PRAIRIE BR./ PB-1920R2	127	.	49	3	.	51	1	.	50	2
SODAK GEN./SD 2171RR	122	.	52	3	.	47	1	.	50	2
ASGROW/ AG1031	113	.	53	2	.	44	1	.	49	1
MUSTANG/ 11030	116	.	49	2	.	48	1	.	49	2
REA/ 76G10	118	.	55	2	54	42	1	.	49	2
REA/ 71G20	112	.	58	3	.	40	1	.	49	2
REA/ EXP 72G21	120	.	53	3	.	44	1	.	49	2
REA/ EXP 76G11	120	.	51	3	.	47	1	.	49	2
PRAIRIE BR./ PB-1410R2	118	.	49	3	.	49	1	.	49	2
HEFTY/ H11Y10	113	.	49	2	.	46	1	.	48	2
HEFTY/ H16Y11	121	.	51	3	.	45	1	.	48	2
G-2/ GENETICS 6160	115	.	54	3	.	42	1	.	48	2
G-2/ GENETICS 7180	121	.	46	3	.	49	1	.	48	2
REA/ 75G10	115	.	51	2	56	45	1	.	48	2
PRAIRIE BR./ PB-1552R2	114	.	51	2	.	44	1	.	48	2
PRAIRIE BR./ EXP 1701	121	.	48	2	.	48	1	.	48	2
PRAIRIE BR./ EXP 1301	112	.	48	2	.	43	1	.	46	2
ASGROW/ AG1530	116	.	47	2	.	43	1	.	45	2
NUTECH/ 7199	125	.	46	3	.	44	1	.	45	2
NUTECH/ 6195	127	.	43	3	.	47	1	.	45	2

Table 2. Glyphosate-resistant maturity group-I soybean variety yield and lodging averages- northern South Dakota locations, 2009-2010 (continued).

Brand/Variety	DTM [1]	Northern Averages by Location*						Northern Zone Averages		
		South Shore			Warner					
		Yield-bu/a		2010 Lodg. (1-5) [2]	Yield-bu/a		2010 Lodg. (1-5) [2]	Yield-bu/a		2010 Lodg. (1-5) [2]
		2-Yr	2010		2-Yr	2010		2-Yr	2010	
REA/ EXP 75G91	117	.	45	2	.	44	1	.	45	2
PIONEER/ 91Y22	113	.	48	2	.	40	1	.	44	2
HEFTY/ H12Y11	112	.	47	2	.	41	1	.	44	2
G-2/ GENETICS 7186	115	.	49	2	.	39	1	.	44	2
PIONEER/ 91Y60	113	.	.	.	.	40	1	.	.	.
STINE/ 10RA60	117	.	49	2	.	.	.	.	.	.
STINE/ 13R08	114	.	.	.	.	48	1	.	.	.
STINE/ 14RA02	113	.	.	.	.	41	1	.	.	.
CHANNEL/ 1201R2	113	.	.	.	.	48	1	.	.	.
CHANNEL/ 1400R2	111	.	.	.	.	40	1	.	.	.
CHANNEL/ 1502R2	111	.	.	.	.	47	1	.	.	.
NORTHSTAR/ NS1726NR2	122	.	46	3	.	.	.	.	.	.
Test avg.:	117	54	50	2	54	45	1	54	48	2
High avg.:	127	57	58	3	59	53	1	57	52	2
Low avg.:	111	50	43	1	51	37	1	51	44	1
[3] Test LSD (.05):		NS**	4	1	NS	7	0	***	***	***
[4] Min.TPG-avg.:		50	54	.	51	46	.			
[5] Max.TPG-avg.:		.	.	1	.	.	1			
[6] Test Coef. Var.:		5	5	21	7	10				
No. Entries:	96	12	46	46	14	50	50	24	88	88

[1] DTM= days to maturity from seeding dates of May 21 at South Shore and May 28 at Warner. Note that additional table footnotes are explained in Table F.

* Shaded values within a column are included in the top-performance group. Look for hybrids with more shaded values, the more the better.

** Indicates differences between values within a column are non-significant (NS).

*** There were significant variety by location interactions for yield zone averages. Therefore, evaluate yield by using the yield columns for each location.

Table 3. Glyphosate-resistant maturity group-0 soybean variety yield and lodging averages- central South Dakota locations, 2009-2010. Entries are sorted by 2-Yr then by 2010 zone yield.

Brand/Variety	DTM [1]	Central Averages by Location*						Central Zone Averages		
		Brookings			Bancroft			Yield-bu/a		2010 Lodg. (1-5) [2]
		Yield-bu/a		2010 Lodg. (1-5) [2]	Yield-bu/a		2010 Lodg. (1-5) [2]	2-Yr	2010	2010 Lodg. (1-5) [2]
		2-Yr	2010		2-Yr	2010				
NUTECH/ 0886RR	115	61	59	1	54	55	1	58	57	1
G-2/ GENETICS 6088	115	60	57	1	54	53	1	57	55	1
SODAK GEN./SD 1093RR	110	56	55	1	47	53	1	52	54	1
NUTECH/ 0990RR	115	56	56	1	43	51	1	50	54	1
G-2/ GENETICS 6098	111	52	47	1	31	45	1	42	46	1
G-2/ GENETICS 6090	109	.	49	1	.	52	1	.	51	1
NUTECH/ 0889RR	113	.	50	1	.	47	2	.	49	2
Test avg. :	113	57	53	1	46	51	1	52	52	1
High avg. :	115	61	59	1	54	55	2	58	57	2
Low avg. :	109	52	47	1	31	45	1	42	46	1
[3] Test LSD (.05):		NS**	4	NS	NS	3	NS	***	***	***
[4] Min.TPG-avg. :		52	55	.	31	52	.			
[5] Max.TPG-avg. :		.	.	1	.	.	1			
[6] Test Coef. Var.:		4	4	0	6	3				
No. Entries:	14	5	7	7	5	7	7	10	14	14

[1] DTM= days to maturity from seeding dates of May 17 at Brookings and June 3 at Bancroft.

Note that additional table footnotes are explained in Table F.

* Shaded values within a column are included in the top-performance group. Look for hybrids with more shaded values, the more the better.

** Indicates differences between values within a column are non-significant (NS).

*** There were significant variety by location interactions for yield zone averages. Therefore, evaluate yield by using the yield columns for each location.

Table 4. Glyphosate-resistant maturity group-I soybean variety yield and lodging averages- central South Dakota locations, 2009-2010. Entries are sorted by 2-Yr then by 2010 zone yield.

Brand/Variety	DTM [1]	Central Averages by Location*						Central Zone Averages		
		Brookings			Bancroft			Yield-bu/a		2010 Lodg.
		Yield-bu/a		2010 Lodg. (1-5) [2]	Yield-bu/a		2010 Lodg. (1-5) [2]	Yield-bu/a		2010 Lodg. (1-5) [2]
		2-Yr	2010		2-Yr	2010		2-Yr	2010	
PRAIRIE BR./ PB-2278RR	129	63	63	1	60	60	1	62	62	1
HEFTY/ H168	119	62	64	1	55	61	1	59	63	1
MUSTANG/ 19990	121	62	60	1	56	58	1	59	59	1
PRAIRIE BR./ PB-1597RR	121	62	64	1	54	61	1	58	63	1
PIONEER/ 91Y90	125	60	60	1	55	55	1	58	58	1
PRAIRIE BR./ EXP 1802	123	62	62	1	54	52	1	58	57	1
NUTECH/ 6205+RR	126	61	59	1	49	57	1	55	58	1
DAIRYLAND/ DSR-1807/R2Y	126	57	56	1	53	57	1	55	57	1
PRAIRIE BR./ PB-2058NRR	125	62	61	1	48	52	1	55	57	1
NUTECH/ 1808RN	126	56	55	1	53	57	1	55	56	1
NUTECH/ 7199	125	57	55	2	53	55	1	55	55	1
PRAIRIE BR./ PB1499NRR2	120	60	57	1	49	43	1	55	50	1
NUTECH/ 6145	121	60	58	1	48	57	1	54	58	1
G-2/ GENETICS 6159	117	55	53	1	47	54	1	51	54	1
SODAK GEN./SD 1161RR/SCN	124	52	50	2	38	49	1	45	50	2
MUSTANG/ 14441	121	.	63	2	.	57	1	.	60	2
PRAIRIE BR./ PB-202	128	.	62	1	.	58	1	.	60	1
ASGROW/ AG1631	120	.	59	1	.	58	1	.	59	1
HEFTY/ H13Y11	123	.	61	2	.	57	2	.	59	2
HEFTY/ H19Y11	124	.	59	2	.	58	2	.	59	2
ASGROW/ AG1431	118	.	57	1	.	59	1	.	58	1
MUSTANG/ 16221	123	.	60	2	.	55	1	.	58	2
STINE/ 18RA02	127	.	63	2	.	53	1	.	58	2
REA /76G10	122	63	60	1	.	55	1	.	58	1
REA/ 71G20	117	.	57	3	.	58	1	.	58	2
MUSTANG/ 18821	127	.	62	1	.	52	2	.	57	1
HEFTY/ H16Y11	126	.	60	2	.	53	2	.	57	2
G-2/ GENETICS 6160	120	.	56	1	.	58	1	.	57	1
REA/ EXP 72G21	123	.	60	2	.	54	1	.	57	2
REA/ EXP 76G11	125	.	60	2	.	53	2	.	57	2
PRAIRIE BR./ PB-1722R2	125	.	61	1	.	53	1	.	57	1
PRAIRIE BR./ PB-1920R2	128	.	58	2	.	56	2	.	57	2
ASGROW/ AG1931	122	.	58	1	.	54	1	.	56	1
PIONEER/ 91Y60	120	.	56	1	.	55	2	.	56	1
NUTECH/ 6195	128	.	58	1	.	53	1	.	56	1
DAIRYLAND/ DSR-1710/R2Y	125	.	59	1	.	53	1	.	56	1
G-2/ GENETICS 7180	124	.	57	1	.	55	1	.	56	1
PRAIRIE BR./ PB-2042R2	124	.	57	1	.	55	1	.	56	1
PRAIRIE BR./ PB-2110R2	127	.	59	3	.	53	2	.	56	2
SODAK GEN./SD 2171RR	124	.	59	1	.	53	1	.	56	1

Table 4. Glyphosate-resistant maturity group-I soybean variety yield and lodging averages- central South Dakota locations, 2009-2010 (continued).

Brand/Variety	DTM [1]	Central Averages by Location*						Central Zone Averages		
		Brookings			Bancroft			Yield-bu/a		2010 Lodg.
		Yield-bu/a		2010 Lodg. (1-5) [2]	Yield-bu/a		2010 Lodg. (1-5) [2]	Yield-bu/a		2010 Lodg. (1-5) [2]
		2-Yr	2010		2-Yr	2010		2-Yr	2010	
ASGROW/ AG1530	119	.	52	2	.	55	1	.	54	2
ASGROW/ AG1831	123	.	54	2	.	53	1	.	54	1
REA/ 75G10	119	60	57	1	.	50	1	.	54	1
HEFTY/ H18Y11	120	.	51	2	.	48	2	.	50	2
REA/ EXP 75G91	119	.	47	2	.	49	1	.	48	2
CHANNEL/ 1700R2	129	.	64	1	.	.	.	.	.	.
RENK/ RS141R2	126	.	63	2	.	.	.	.	.	.
STINE/ 16RA02	127	.	62	2	.	.	.	.	.	.
DAIRYLAND/ DST19-003/R2Y	129	.	61	3	.	.	.	.	.	.
RENK/ RS181NR2	129	.	60	1	.	.	.	.	.	.
DAIRYLAND/ DST18-003/R2Y	127	.	59	1	.	.	.	.	.	.
PIONEER/ 91Y71	123	.	58	1	.	.	.	.	.	.
CHANNEL/ 1201R2	124	.	58	2	.	.	.	.	.	.
RENK/ RS161NR2	125	.	57	2	.	.	.	.	.	.
RENK/ RS140NR2	121	59	55	1	.	.	.	.	.	.
STINE/ 13R08	117	.	.	.	.	58	1	.	.	.
Test avg. :	123	60	58	1	51	55	1	56	57	1
High avg. :	129	63	64	3	60	61	2	62	63	2
Low avg. :	117	52	47	1	38	43	1	45	48	1
[3] Test LSD (.05):		5	3	1	12	4	NS**	***	***	***
[4] Min.TPG-avg. :		58	61	.	48	57	.			
[5] Max.TPG-avg. :		.	.	1	.	.	2			
[6] Test Coef. Var.:		4	3	24	8	5	33			
No. Entries:	101	18	55	55	15	46	46	30	90	90

[1] DTM= days to maturity from seeding dates of May 17 at Brookings and June 3 at Bancroft.

Note that additional table footnotes are explained in Table F.

* Shaded values within a column are included in the top-performance group. Look for hybrids with more shaded values, the more the better.

** Indicates differences between values within a column are non-significant (NS).

*** There were significant variety by location interactions for yield zone averages.

Therefore, evaluate yield by using the yield columns for each location.

Table 5. Glyphosate-resistant maturity group-II soybean variety yield and lodging averages- central South Dakota locations, 2009-2010. Entries are sorted by 2-Yr then by 2010 zone yield.

Brand/Variety	DTM [1]	Central Averages by Location*						Central Zone Averages		
		Brookings			Bancroft			Yield-bu/a		2010 Lodg.
		Yield-bu/a		2010 Lodg.	Yield-bu/a		2010 Lodg.	Yield-bu/a		2010 Lodg.
		2-Yr	2010	(1-5) [2]	2-Yr	2010	(1-5) [2]	2-Yr	2010	(1-5) [2]
PRAIRIE BR./ PB-2419RR2	130	65	68	2	60	60	1	63	64	2
G-2/ GENETICS 7208	127	59	57	1	53	58	1	56	58	1
PRAIRIE BR./ PB-2207NRR	127	61	60	1	48	55	1	55	58	1
G-2/ GENETICS 7212	127	62	59	1	47	50	1	55	55	1
PRAIRIE BR./ PB-2558NRR	130	59	61	2	49	57	1	54	59	1
NUTECH/ 7222	128	62	60	1	46	54	1	54	57	1
NUTECH/ 6234RR	127	59	60	1	49	52	1	54	56	1
REA/ EXP 84G20	129	.	68	2	.	61	1	.	65	2
REA/ EXP 80G11	127	.	61	1	.	61	1	.	61	1
PRAIRIE BR./ PB-242	130	.	63	2	.	59	1	.	61	1
NUTECH/ 2660RN	132	.	63	1	.	56	1	.	60	1
G-2/ GENETICS 7249	128	.	61	1	.	58	1	.	60	1
REA/ 84G15	130	62	63	2	.	57	1	.	60	2
HEFTY/ H20Y11	129	.	63	1	.	55	1	.	59	1
PRAIRIE BR./ EXP 2102	127	.	59	1	.	58	1	.	59	1
HEFTY/ H187	123	.	61	1	.	54	1	.	58	1
G-2/ GENETICS 7230	127	.	60	1	.	55	1	.	58	1
PRAIRIE BR./ EXP 2302	131	.	64	3	.	51	1	.	58	2
NUTECH/ 7274	132	.	58	2	.	55	1	.	57	2
HEFTY/ H200	127	.	61	1	.	53	1	.	57	1
REA/ 8705NRR	126	.	59	1	.	52	1	.	56	1
PRAIRIE BR./ PB-2450R	131	.	56	2	.	56	1	.	56	2
ASGROW/ AG2031	126	.	55	1	.	54	1	.	55	1
PRAIRIE BR./ PB-2442R2	129	.	55	1	.	54	1	.	55	1
PRAIRIE BR./ PB-2142R2	130	.	60	1	.	47	1	.	54	1
PRAIRIE BR./ PB-2632R2	134	.	57	3	.	50	1	.	54	2
PUBLIC/SD(LD)05-16137	125	.	55	1	.	45	1	.	50	1
MUSTANG/ 21320	132	61	62	1	.	.	.	.	.	.
MUSTANG/ 23530	132	64	68	2	.	.	.	.	.	.
MUSTANG/ 20221	128	.	58	2	.	.	.	.	.	.
MUSTANG/ 21421	133	.	60	1	.	.	.	.	.	.
MUSTANG/ 21181	133	.	59	3	.	.	.	.	.	.
MUSTANG/ 23321	134	.	62	2	.	.	.	.	.	.
PIONEER/ 92Y30	127	.	.	.	.	58	1	.	.	.
STINE/ 21RB62	133	.	61	1	.	.	.	.	.	.

Table 5. Glyphosate-resistant maturity group-II soybean variety yield and lodging averages- central South Dakota locations, 2009-2010 (continued).

Brand/Variety	DTM [1]	Central Averages by Location*						Central Zone Averages		
		Brookings			Bancroft			Yield-bu/a		2010 Lodg.
		Yield-bu/a		2010 Lodg.	Yield-bu/a		2010 Lodg.	Yield-bu/a		2010 Lodg.
		2-Yr	2010	(1-5) [2]	2-Yr	2010	(1-5) [2]	2-Yr	2010	(1-5) [2]
CHANNEL/ 2000R2	128	.	60	1	.	.	.	.	.	.
NORTHSTAR/ NS2026NR2	129	.	60	2	.	.	.	.	.	.
NORTHSTAR/ NS2116NR2	133	.	60	1	.	.	.	.	.	.
NORTHSTAR/ NS2226NR2	134	.	62	1	.	.	.	.	.	.
RENK/ RS210NR2	130	59	61	1	.	.	.	.	.	.
Test avg. :	129	61	61	1	50	55	1	56	58	1
High avg. :	134	65	68	3	60	61	1	63	65	2
Low avg. :	123	59	55	1	46	45	1	54	50	1
[3] Test LSD (.05):		NS**	3	1	10	4	NS	***	***	***
[4] Min.TPG-avg. :		59	65	.	50	57	.			
[5] Max.TPG-avg. :		.	.	1	.	.	1			
[6] Test Coef. Var.:		4	3	21	5	4	18			
No. Entries:	67	11	39	39	7	28	28	14	54	54

[1] DTM= days to maturity from seeding dates of May 17 at Brookings and June 3 at Bancroft.

Note that additional table footnotes are explained in Table F.

* Shaded values within a column are included in the top-performance group. Look for hybrids with more shaded values, the more the better.

** Indicates differences between values within a column are non-significant (NS).

*** There were significant variety by location interactions for yield zone averages. Therefore, evaluate yield by using the yield columns for each location.

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Table 6. Glyphosate-resistant maturity group-I soybean variety yield and lodging averages- southern South Dakota locations, 2009-2010. Entries are sorted by 2-Yr then by 2010 zone yield.

Brand/Variety	DTM [1]	Southern Averages by Location*						Southern Zone Averages		
		Beresford			Geddes					
		Yield-bu/a		2010 Lodg.	Yield-bu/a		2010 Lodg.	Yield-bu/a		2010 Lodg.
		2-Yr	2010	(1-5) [2]	2-Yr	2010	(1-5) [2]	2-Yr	2010	(1-5) [2]
PRAIRIE BR./ PB-2278RR	125	72	77	2	58	61	1	65	69	2
PRAIRIE BR./ PB-2020R2	121	72	73	1	57	57	1	65	65	1
NUTECH/ 6205+RR	121	70	74	1	54	56	1	62	65	1
PRAIRIE BR./ PB-2058NRR	121	69	73	1	54	55	2	62	64	1
PRAIRIE BR./ PB-1956RR	123	65	70	2	55	57	2	60	64	2
G-2/ GENETICS 6159	110	65	66	1	52	51	1	59	59	1
NUTECH/ 1808RN	118	64	67	1	50	51	1	57	59	1
SODAK GEN./SD 1161RR/SCN	118	65	71	1	47	52	2	56	62	2
PRAIRIE BR./ PB2099NRR2	121	.	76	1	.	60	1	.	68	1
PRAIRIE BR./ PB-202	121	.	75	1	.	59	1	.	67	1
PRAIRIE BR./ PB-1920R2	121	.	73	2	.	58	2	.	66	2
PRAIRIE BR./ PB-1942R2	120	.	76	1	.	54	1	.	65	1
PRAIRIE BR./ PB-2042R2	118	.	74	1	.	56	1	.	65	1
SODAK GEN./SD 2171RR	116	.	75	1	.	55	1	.	65	1
PRAIRIE BR./ PB-2110R2	122	.	72	2	.	53	1	.	63	2
NUTECH/ 7199	119	.	69	1	.	55	1	.	62	1
G-2/ GENETICS 6160	112	.	71	2	.	50	2	.	61	2
NUTECH/ 6198	118	.	67	1	.	50	1	.	59	1
G-2/ GENETICS 7180	118	.	67	2	.	50	1	.	59	2
Test avg.:	119	68	72	1	53	55	1	61	64	1
High avg.:	125	72	77	2	58	61	2	65	69	2
Low avg.:	110	64	66	1	47	50	1	56	59	1
[3] Test LSD (.05):		5	2	1	6	6	1	2	***	1
[4] Min.TPG-avg.:		67	75	.	52	55	.	63	.	.
[5] Max.TPG-avg.:		.	.	1	.	.	1	.	.	1
[6] Test Coef. Var.:		2	2	18	7	7	29	5	.	24
No. Entries:	38	8	19	19	8	19	19	16	38	38

[1] DTM= days to maturity from seeding dates of May 24 at Beresford and June 7 at Geddes.

Note that additional table footnotes are explained in Table F.

* Shaded values within a column are included in the top-performance group. Look for hybrids with more shaded values, the more the better.

** Indicates differences between values within a column are non-significant (NS).

*** There were significant variety by location interactions for yield zone averages.

Therefore, evaluate yield by using the yield columns for each location.

Table 7. Glyphosate-resistant maturity group-II soybean variety yield and lodging averages- southern South Dakota locations, 2009-2010. Entries are sorted by 2-Yr then by 2010 zone yield.

Brand/Variety	DTM [1]	Southern Averages by Location*						Southern Zone Averages		
		Beresford			Geddes					
		Yield-bu/a		2010 Lodg. (1-5) [2]	Yield-bu/a		2010 Lodg. (1-5) [2]	Yield-bu/a		2010 Lodg. (1-5) [2]
		2-Yr	2010		2-Yr	2010		2-Yr	2010	
NUTECH/ 2660RN	125	70	73	2	62	53	1	66	63	2
PRAIRIE/ BR. PB-2419RR2	123	71	76	1	59	58	1	65	67	1
ASGROW/ AG2430	120	70	73	1	59	52	1	65	63	1
DAIRYLAND/ DSR-2560/RR	121	69	73	2	56	51	1	63	62	2
G-2/ GENETICS 7212	120	66	70	1	59	54	1	63	62	1
PRAIRIE BR./ PB-2207NRR	120	69	73	1	55	53	1	62	63	1
PRAIRIE BR./ PB-2558NRR	121	67	71	1	56	52	1	62	62	1
NUTECH / 7222	119	67	71	1	56	50	1	62	61	1
HEFTY/ H259	123	67	71	1	56	51	1	62	61	1
NUTECH/ 7274	122	68	70	1	55	46	1	62	58	1
DAIRYLAND/ DSR-2132/R2Y	117	66	68	1	56	53	1	61	61	1
G-2/ GENETICS 7208	117	64	70	1	55	52	1	60	61	1
ASGROW/ AG2530	121	65	66	2	54	51	1	60	59	2
HEFTY/ H23Y10	122	.	76	1	.	58	1	.	67	1
PRAIRIE BR./ PB-242	123	.	76	1	.	55	1	.	66	1
ASGROW/ AG2631	124	.	69	2	.	58	2	.	64	2
PIONEER/ 92Y70	124	.	73	1	.	54	1	.	64	1
HEFTY/ H23Y11	120	.	74	2	.	54	1	.	64	2
DAIRYLAND/ DSR-2011/RR	119	68	71	2	.	56	1	.	64	1
G-2/ GENETICS 7250	120	.	74	1	.	54	1	.	64	1
G-2/ GENETICS 7290	126	.	72	1	.	56	1	.	64	1
ASGROW/ AG2031	115	.	75	1	.	50	1	.	63	1
ASGROW/ AG2931	127	.	70	3	.	56	1	.	63	2
DAIRYLAND/ DSR-2375/R2Y	122	.	70	3	.	55	1	.	63	2
PRAIRIE BR./ PB-2142R2	122	.	70	1	.	55	1	.	63	1
PRAIRIE BR./ PB-2632R2	125	.	71	2	.	54	1	.	63	2
PRAIRIE BR./ PB-2450R	123	.	71	3	.	53	2	.	62	3
HEFTY/ H24Y11	122	.	70	1	.	52	1	.	61	1
G-2/ GENETICS 7230	120	.	74	1	.	47	1	.	61	1
G-2/ GENETICS 7249	122	.	73	2	.	49	1	.	61	2
ASGROW/ AG2831	122	.	72	3	.	47	2	.	60	2
NUTECH/ 6217	118	.	67	1	.	52	2	.	60	1
HEFTY/ H250	122	.	70	1	.	50	1	.	60	1
PRAIRIE BR./ EXP 2801	125	.	68	2	.	51	1	.	60	2
PRAIRIE BR./ PB-2442R2	119	.	69	1	.	48	1	.	59	1
PRAIRIE BR./ PB-2742R2	126	.	69	3	.	49	1	.	59	2
HEFTY/ H25Y11	122	.	69	2	.	47	1	.	58	2
G-2/ GENETICS 7260	119	.	67	1	.	45	1	.	56	1
PUBLIC/SD(LD)05-16137	115	.	64	2	.	45	1	.	55	1
MUSTANG/ 23530	127	72	75	1	.	.	.	.	.	.

Table 7. Glyphosate-resistant maturity group-II soybean variety yield and lodging averages- southern South Dakota locations, 2009-2010 (continued).

Brand/Variety	DTM [1]	Southern Averages by Location*						Southern Zone Averages		
		Beresford			Geddes					
		Yield-bu/a		2010 Lodg. (1-5) [2]	Yield-bu/a		2010 Lodg. (1-5) [2]	Yield-bu/a		2010 Lodg. (1-5) [2]
		2-Yr	2010		2-Yr	2010		2-Yr	2010	
CHANNEL/ 2402R2	128	.	74	1	.	.	.	.	.	.
PIONEER/ 92Y51	131	.	73	1	.	.	.	.	.	.
PIONEER/ 93Y13	133	.	73	2	.	.	.	.	.	.
RENK/ RS241R2	127	.	73	1	.	.	.	.	.	.
CHANNEL/ 2000R2	122	.	72	1	.	.	.	.	.	.
RENK/ RS211NR2	127	.	72	1	.	.	.	.	.	.
DAIRYLAND/ DSR-2770/RR	131	66	71	2	.	.	.	.	.	.
RENK/ RS259NRR	128	64	71	1	.	.	.	.	.	.
MUSTANG/ 23321	128	.	70	1	.	.	.	.	.	.
MUSTANG/ 25521	131	.	70	3	.	.	.	.	.	.
STINE/ 29RB22	133	.	70	3	.	.	.	.	.	.
STINE/ 27RA02	131	.	69	1	.	.	.	.	.	.
STINE/ 23RA22	130	.	68	2	.	.	.	.	.	.
STINE/ 24RB02	133	.	68	2	.	.	.	.	.	.
DAIRYLAND/ DST22-007/R2Y	128	.	67	3	.	.	.	.	.	.
MUSTANG/ 27721	133	.	67	3	.	.	.	.	.	.
RENK/ RS271NR2	132	.	63	2	.	.	.	.	.	.
PIONEER/ 92Y82	120	.	.	.	52	1	.	.	.	.
PIONEER/ 92Y30	109	.	.	.	56	48	1	.	.	.
Test avg.:	123	68	71	2	57	52	1	63	62	1
High avg.:	133	72	76	3	62	58	2	66	67	3
Low avg.:	109	64	63	1	54	45	1	60	55	1
[3] Test LSD (.05):		NS**	4	1	NS	7	1	***	***	***
[4] Min.TPG-avg.:		64	72	.	54	51	.			
[5] Max.TPG-avg.:		.	.	1	.	.	1			
[6] Test Coef. Var.:		4	3	26	6	8	8			
No. Entries:	98	17	57	57	14	41	41	26	78	78

[1] DTM= days to maturity from a seeding dated of May 24 at Beresford and June 7 at Geddes.

Note that additional table footnotes are explained in Table F.

* Shaded values within a column are included in the top-performance group. Look for hybrids with more shaded values, the more the better.

** Indicates differences between values within a column are non-significant (NS).

*** There were significant variety by location interactions for yield zone averages.

Therefore, evaluate yield by using the yield columns for each location.

Table 8. Non-glyphosate-resistant maturity group-0 and -I soybean variety yield and lodging averages- South Shore, 2010-2010.

Brand/Variety	DTM [1]	Yield & lodging score averages by maturity group					
		MG-0			MG-I		
		Yield-bu/a 2-yr	2010	2010 Lodg. (1-5) [2]	Yield-bu/a 2-yr	2010	2010 Lodg. (1-5) [2]
PUBLIC/SD03-2154	118	.	55	3	.	.	.
PUBLIC/SD07CV-539	120	.	54	2	.	.	.
PUBLIC/SHEYENNE	117	.	54	2	.	.	.
PUBLIC/SURGE	118	50	53	2	.	.	.
SEEDS 2000/ EXP 2083L	123	.	52	2	.	.	.
PUBLIC/EXP MN0907	119	.	52	3	.	.	.
PUBLIC/SD04CV-613	120	.	52	1	.	.	.
RICHLAND ORG./ MK0508	120	48	51	4	.	.	.
SEEDS 2000/ EXP 2082L	118	.	51	1	.	.	.
SEEDS 2000/ EXP 2092L	118	.	51	1	.	.	.
PUBLIC/SD04CV-611	120	.	51	2	.	.	.
PUBLIC/MN0606CN	121	.	51	3	.	.	.
PUBLIC/SD07CV-528	119	.	50	2	.	.	.
PUBLIC/SD06-430	117	.	50	2	.	.	.
PUBLIC/SD06-487	119	.	50	3	.	.	.
PUBLIC/SD07CV-935	124	.	48	3	.	.	.
PUBLIC/EXP MN0908CN	119	48	48	2	.	.	.
PUBLIC/SD06-525	125	.	48	3	.	.	.
PUBLIC/SD06-322	118	.	47	2	.	.	.
PUBLIC/SD06-428	119	.	47	3	.	.	.
PUBLIC/SD05-767	123	44	44	3	.	.	.
PUBLIC/SD00-1501	118	42	42	2	.	.	.
PUBLIC/MN1410	123	.	.	.	48	54	3
PUBLIC/MN1701CN	130	.	.	.	49	53	3
PUBLIC/SD05-240	128	.	.	.	.	52	3
SEEDS 2000/ EXP 2102LN	124	.	.	.	.	50	1
PUBLIC/MN1413CN	125	.	.	.	.	49	2
SK FOOD INTL/ SK9801	119	.	.	.	.	48	2
PUBLIC/DEUEL	121	.	.	.	46	47	3
RICHLAND ORG./ MK9101	120	.	.	.	.	46	3
RICHLAND ORG./ MK1401T	121	.	.	.	.	45	2
RICHLAND ORG./ MK1016	119	.	.	.	38	39	3
RICHLAND ORG./ MK9120	124	.	.	.	.	32	3
Test avg.:	.	46	50	2	45	47	3
High avg.:	.	50	55	4	49	54	3
Low avg.:	.	42	42	1	38	32	1
[3] LSD (.05):	.	NS**	5	1	9	5	1
[4] Min. TPG avg.:	.	42	50	.	40	49	.
[5] Max. TPG avg.:	.	.	.	1	.	.	1
[6] Coef. Var.:	.	6	6	19	7	6	13

[1] DTM= days to maturity from seeding dates of May 24 at South Shore.

Note that additional table footnotes are explained in Table F.

* Shaded values within a column are included in the top-performance group. Look for hybrids with more shaded values, the more the better.

** Indicates differences between values within a column are non-significant (NS).

Table 9. Non-glyphosate resistant maturity group-0, -I, and -II soybean variety yield and lodging averages- Brookings, 2009-2010.

Brand/Variety	DTM [1]	Yield & lodging score averages by maturity group								
		MG-0			MG-I			MG-II		
		Yield-bu/a		2010 Lodg. (1-5) [2]	Yield-bu/a		2010 Lodg. (1-5) [2]	Yield-bu/a		2010 Lodg. (1-5) [2]
		2-yr	2010		2-yr	2010		2-yr	2010	
PUBLIC/SD06-525	120	.	57	1	.	.	.	.	.	.
SEEDS 2000/ EXP 2082L	119	.	55	1	.	.	.	.	.	.
PUBLIC/SD07CV-539	121	.	55	1	.	.	.	.	.	.
PUBLIC/SURGE	116	53	54	1	.	.	.	.	.	.
PUBLIC/SD07CV-528	116	.	53	2	.	.	.	.	.	.
PUBLIC/EXP MN0907	118	.	52	2	.	.	.	.	.	.
PUBLIC/SD04CV-613	125	.	51	2	.	.	.	.	.	.
PUBLIC/SD07CV-935	121	.	51	1	.	.	.	.	.	.
PUBLIC/SD03-2154	117	.	51	1	.	.	.	.	.	.
PUBLIC/SD05-767	124	48	49	1	.	.	.	.	.	.
PUBLIC/SD04CV-611	119	.	48	2	.	.	.	.	.	.
PUBLIC/EXP MN0908CN	120	45	48	1	.	.	.	.	.	.
PUBLIC/SD06-428	119	.	45	2	.	.	.	.	.	.
PUBLIC/MN0606CN	118	.	44	2	.	.	.	.	.	.
PUBLIC/SD00-1501	118	46	44	2	.	.	.	.	.	.
PUBLIC/SHEYENNE	109	.	44	1	.	.	.	.	.	.
PUBLIC/SD06-487	117	.	43	2	.	.	.	.	.	.
PUBLIC/SD06-430	112	.	42	2	.	.	.	.	.	.
SK FOOD INTL/ SK927	112	.	40	1	.	.	.	.	.	.
PUBLIC/SD06-322	119	.	39	2	.	.	.	.	.	.
PUBLIC/SD05-240	128	.	.	.	65	66	1	.	.	.
DAIRYLAND/ DSR-1680/STS	127	.	.	.	.	64	2	.	.	.
PUBLIC/DEUEL	124	.	.	.	54	60	2	.	.	.
PUBLIC/SD07CV-576	130	.	.	.	.	58	3	.	.	.
PUBLIC/SD07CV-673	130	.	.	.	.	58	1	.	.	.
PUBLIC/MN1701CN	127	.	.	.	57	58	2	.	.	.
PUBLIC/MN1410	123	.	.	.	55	57	2	.	.	.
PUBLIC/SD07CV-885	130	.	.	.	.	57	2	.	.	.
PUBLIC/SD07CV-997	124	.	.	.	.	55	2	.	.	.
SEEDS 2000/ EXP 2102LN	120	.	.	.	.	54	1	.	.	.
PUBLIC/SD07CV-523	122	.	.	.	.	53	1	.	.	.
PUBLIC/MN1413CN	119	.	.	.	.	52	2	.	.	.
PUBLIC/SD07CV-619	118	.	.	.	.	50	1	.	.	.
PUBLIC/SD07CV-875	124	.	.	.	.	50	1	.	.	.
RICHLAND ORG./ MK9101	116	.	.	.	.	49	2	.	.	.
RICHLAND ORG./ MK1401T	121	.	.	.	.	48	1	.	.	.
RICHLAND ORG./ MK9120	120	.	.	.	.	40	2	.	.	.
RICHLAND ORG./ MK1016	118	.	.	.	.	37	3	.	.	.
SK FOOD INTL/ EXP 9813	127	.	.	.	.	36	3	.	.	.

Table 9. Non-glyphosate resistant maturity group-0, -I, and -II soybean variety yield and lodging averages- Brookings, 2009-2010 (continued).

Brand/Variety	DTM [1]	Yield & Lodging score averages by maturity group								
		MG-0			MG-I			MG-II		
		Yield-bu/a		2010 Lodg.	Yield-bu/a		2010 Lodg.	Yield-bu/a		2010 Lodg.
		2-yr	2010	(1-5) [2]	2-yr	2010	(1-5) [2]	2-yr	2010	(1-5) [2]
PUBLIC/SD07CV-603	135	.	.	.	.	.	.	.	66	3
PUBLIC/DAVISON	127	.	.	.	.	.	.	58	61	1
PUBLIC/SD07CV-631	137	.	.	.	.	.	.	.	59	2
PUBLIC/SD07CV-367	132	.	.	.	.	.	.	.	58	2
PUBLIC/SD07CV-886	135	.	.	.	.	.	.	.	58	2
PUBLIC/SD07CV-770	132	.	.	.	.	.	.	.	55	1
PUBLIC/SD07CV-800	130	.	.	.	.	.	.	.	54	2
PUBLIC/SD07CV-874	134	.	.	.	.	.	.	.	54	2
PUBLIC/SD07CV-878	129	.	.	.	.	.	.	.	54	2
Test avg.:	123	48	48	2	58	53	2	58	58	2
High avg.:	137	53	57	2	65	66	3	58	66	3
Low avg. :	109	45	39	1	54	36	1	58	54	1
[3] LSD (.05):		NS**	4	NS	NS	4	1	.	3	1
[4] Min. TPG avg.:		45	53	.	54	62	.	.	63	.
[5] Max. TPG avg.:		.	.	2	.	.	1	.	.	1
[6] Coef. Var.:		6	5	35	4	4	25	.	3	30

[1] DTM= days to maturity from seeding dates of May 17 at Brookings.

Note that additional table footnotes are explained in Table F.

* Shaded values within a column are included in the top-performance group. Look for hybrids with more shaded values, the more the better.

** Indicates differences between values within a column are non-significant (NS).

Table 10. Non-glyphosate resistant maturity group-I and -II soybean variety yield and lodging averages-Beresford, 2009-2010.

Brand/Variety	DTM [1]	Yield & lodging score averages by maturity group					
		MG-I			MG-II		
		Yield-bu/a		2010 Lodg.	Yield-bu/a		2010 Lodg.
		2-yr	2010	(1-5) [2]	2-yr	2010	(1-5) [2]
PUBLIC/SD05-240	123	.	71	3	.	.	.
PUBLIC/MN1410	117	61	68	3	.	.	.
PUBLIC/DEUEL	115	56	66	4	.	.	.
RICHLAND ORG./ MK1401T	114	.	65	2	.	.	.
PUBLIC/MN1413CN	115	.	65	3	.	.	.
PUBLIC/MN1701CN	120	57	64	4	.	.	.
RICHLAND ORG./ MK9101	111	.	60	2	.	.	.
RICHLAND ORG./ MK9120	113	.	50	2	.	.	.
RICHLAND ORG./ MK1016	109	.	49	3	.	.	.
SK FOOD INTL/ EXP 9813	116	.	44	3	.	.	.
PUBLIC/DAVISON	124	.	.	.	65	73	3
PUBLIC/SD07CV-603	131	.	.	.	.	73	4
PUBLIC/SD07CV-631	132	.	.	.	.	72	3
PUBLIC/SD07CV-367	127	.	.	.	.	67	2
PUBLIC/SD07CV-770	126	.	.	.	.	66	2
PUBLIC/SD07CV-800	125	.	.	.	.	66	2
PUBLIC/SD07CV-878	125	.	.	.	.	66	3
PUBLIC/SD07CV-886	131	.	.	.	.	66	2
PUBLIC/SD07CV-874	130	.	.	.	.	65	3
Test avg.:	121	58	60	3	65	68	3
High avg.:	132	61	71	4	65	73	4
Low avg.:	109	56	44	2	65	65	2
[3] LSD (.05):		NS**	3	1	.	3	1
[4] Min. TPG avg.:		56	68	.	.	70	.
[5] Max. TPG avg.:		.	.	2	.	.	2
[6] Coef. Var.:		6	3	15	.	2	18

[1] DTM= days to maturity from seeding dates of May 24 at Beresford.

Note that additional table footnotes are explained in Table F.

* Shaded values within a column are included in the top-performance group. Look for hybrids with more shaded values, the more the better.

** Indicates differences between values within a column are non-significant (NS).

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Soybean production is greatly affected by variety selection.

This circular reports the agronomic performance of entries in the 2011 South Dakota performance trials for glyphosate-resistant and non-glyphosate-resistant soybean varieties. Major factors in variety selection include yield, maturity, lodging resistance, and *Phytophthora* root rot resistance.

Major factors in variety selection include:

- Yield
- Maturity
- Lodging resistance
- *Phytophthora* root rot resistance

Soybean Variety Performance Trials – 2011 Results

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General

Soybean varieties are classified according to maturity groups that in turn are adapted to maturity zones. Maturity zones are based on day length and therefore are affected by latitude. The very early maturity group-00 varieties are best suited to Canada and bordering regions of the U.S., while maturity group-0, group-I, and group-II varieties are suited to South Dakota. The later groups III-VIII are suited to Iowa, Nebraska, and south to Texas.

These soybean trial results are reported according to the prevalent maturity zones in South Dakota (see map below). These variety trials were conducted at the following locations: Maturity groups -0 and -I at South Shore and Warner; Maturity groups -0, -I, and -II at Brookings and Bancroft; and Maturity groups -I and -II at Beresford and Geddes.

There are transition areas where varieties of two maturity groups may perform similarly. In such cases, rainfall and or elevation may moderate the effect of latitude on maturity. In most cases, an earlier maturity group may be seeded if seeding is delayed, or if reseeding following hail, or if double cropping.

Phytophthora root rot (PRR) is an important soybean disease in South Dakota and is often controlled or managed with the use of resistant varieties. Resistance to *Phytophthora* root rot is fungus-race specific. Thus, resistance to one PRR race does not always impart resistance to other races. Knowledge of the prevalent PRR races in your area is important. If you suspect you have a PRR problem, using varieties with a wide range of rot resistance is strongly suggested (see discussion of *Phytophthora* under “General Test Procedures”).

Inoculation of seed with the appropriate nitrogen-fixing bacterium is a good practice. Always inoculate if seeding soybeans in soils not previously cropped to soybeans. On older soybean ground, there is no guarantee that beneficial bacteria will be present to naturally inoculate the seed, thus, inoculation is cheap insurance that plants will fix nitrogen.

Yield

Yields are obtained from the South Dakota Crop Performance Testing Program (CPT). Current-year yields are included for each entry tested, along with two-year averages if varieties were tested two years. Yield averages and least significant difference (LSD) values are rounded to the nearest bushel and printed at the bottom of each yield column.

The LSD value can be used to determine if varieties differ in yield per acre. For example,

assume variety A averages 30 bu., B averages 25 bu., and the calculated LSD value is 4 bu. The average difference between varieties A and B is 5 bu. ($30-25=5$). Since the average difference of 5 bu. is greater than the test LSD value of 4 bu., variety A (30 bu.) is significantly higher in yield than for B (25 bu.). In contrast, if variety A averages 28 bu. and B averages 25 bu., the average difference would be 3 bu. ($28-25=3$). In this case, both varieties would have a similar yield average because their difference of 3 bu. is less than the test LSD value of 4 bu.

Use LSD values to identify the best-yielding varieties. The LSD value at the bottom of each yield column is used to calculate a minimum top performance group (TPG) value for yield. For example, if the highest column yield value is 50 bu., subtract the LSD value of 5 bu. to obtain an intermediate value of 45 bu. ($50 - 5 = 45$). Entries in that column yielding 46 bushels per acre or higher are in the TPG. However, we can also say a yield of 45 bushels per acre also qualifies as a TPG-value because the yield averages are rounded to the nearest bushel. This inclusion of 45 bushels per acre in the TPG also makes the results indicated in the table (rounded values) agree with the results of the statistical analysis, which determines variety differences to the nearest tenth of bushel.

Note: Use care when evaluating the yield performance of entries in each table. Entries tested for

two years may also have a top yield group value in the 2011 yield column. **Note:** Each company selects the appropriate maturity group trial (maturity group-0, -I, or -II trial) and locations for their entries. Companies generally have one or more maturity group checks for their varieties. There are, however, no standard regional or national check varieties for maturity. A late group-I variety from one company may be similar in maturity to an early group-I or early group-II variety from another company because they use different check varieties for maturity. Therefore, *this testing program does not guarantee that entries are placed in the appropriate maturity group trial. Borderline entries with maturity ratings at or near the arbitrary breaks between the late-group-0s and early group-IIs and between the late-group-IIs and early group-IIIs may crossover in some test trials. It is suggested you note the reported maturity rating of every entry you are considering.* Since all entries at a location are seeded the same day, one can compare the relative difference in days to maturity among varieties tested at that location. Use caution when comparing the maturity rating of a variety over many locations. Variations in soil moisture and temperature often differ between locations, resulting in some maturity variations over locations.

The efforts of D. Doyle, SDSU Agronomy Farm; A. Heuer, NE Research Farm, South Shore; and R. Berg and staff, SE Research Farm, Beresford, in obtaining the

data are gratefully acknowledged. Also, the assistance and cooperation of our farmer co-operators, Allen and Inel Ryckman, Warner, S.D.; Curtis Sybesma, Geddes, S.D.; and Weerts Farms Inc., Bancroft, S.D., is gratefully acknowledged.

Protein and Oil Content

Protein and oil values (adjusted to 13% moisture) were determined using a calibrated FOSS TECATOR Model Infratec 1229 Grain Analyzer. Three replicates of every variety in each trial were tested.

Weather and Seasonal Precipitation

The efforts of Dennis Todey and his staff at the South Dakota Office of Climate and Weather at South Dakota State University are gratefully acknowledged in obtaining the weather data reported in table A. Seasonal rainfall and its distribution at weather reporting stations nearest each test trial are reported for the period April 1 to September 30. Seasonal precipitation totals were about 2.5 " above average at Aberdeen (Wagner), 1.5" above average at the Northeast Research Farm (South Shore), 1" below average at Huron Airport (Bancroft), near average at Brookings (Volga Research Farm) and White Lake (Geddes), and 1.5" below average at the Southeast Research Station (Beresford). Generally, across all the test trial locations, precipitation was generally highest in June and July and lower in August and September.

Temperatures for the 2011

growing season were cooler than average. The accumulation of growing degree days (GDDs) in April through June were generally below average for all locations. In July, the GDDs were near or above average across all locations; and in August the GDDs accumulation across locations varied from about 129 to 179 GDDs below average. The seasonal GDDs accumulations were below average at all locations including Aberdeen (-791), Northeast Research Farm (-1057), Huron (-786), Brookings (-807), White Lake (-1059), and the Southeast Research Station (-841 GDDs). The coefficients of variation for yield were 8% or less across locations and well within acceptable limits; this means the test trials for yield were valid. Although the rainfall distribution and heat unit distribution did vary significantly this year compared to the average; the variability did not have a significant effect on the ability of the test trials to identify soybean variety differences.

General Test Procedures

These procedures apply to both the glyphosate-resistant and conventional non-glyphosate-resistant soybean trials, except for the chemical weed control imposed. Trial locations, soil types, tillage methods, previous crops, pesticide usage, and seeding dates are indicated in table B.

Test Procedures: A row spacing of 30 inches was used at all locations. The seeding rate was 165,000 seeds per acre for all varieties and locations. Test plots

consist of 4-row plots, 20-feet long, with three replications at all locations. Soybean inoculation was accomplished by applying Nitragin-brand Soybean Soil Implant down the seed tube, according to label instructions and rates, during seeding. Seeding at all locations was accomplished using a Monosem precision row crop planter. The center two rows of each plot were harvested for yield.

Yield: Plots were harvested and yields were adjusted to a 13% moisture content basis and expressed in bushels per acre. Harvest was accomplished using a Massey Ferguson 8XP small plot combine.

Reporting variety maturity:

Variety maturity is reported as "days to maturity" or DTM. Entries are mature when 95% of the pods have turned brown. Each maturity value is obtained by determining the average number of days from seeding to maturity for two replicates and expressing it as DTM at each location. If DTM data is missing (.) then plots at that location were exposed to a killing frost before the 95% brown pod stage was attained.

Lodging Score: Scores at maturity are based on the erectness of the main stem of plants within each variety. 1 = all plants erect, 2 = slight lodging, 3 = some lodging at a 45° angle, 4 = severe lodging, and 5 = all plants flat.

Phytophthora Root Rot (PRR):

The gene resistance of each

variety to PRR is supplied by each seed company (proprietary entries) or by the USDA (Uniform Soybean Tests, Northern States, public entries). A key for each type of PRR gene and the race resistance it imparts to a variety is given in table C. Specific race resistance to PRR, as reported by seed company, can be determined by noting the PRR gene in the variety index table D (glyphosate-resistant) and referencing the gene back to table C to find the range of race resistance. Currently, races -1, -3, and -4 are the most common races in South Dakota.

Glyphosate-Resistant Soybean Variety Trial

Northern Test Trials

Warner – Minimum-tillage, Allen & Inel Ryckman Farm (farm cooperators)

South Shore – Conventional tillage, Northeast Research Farm

Warner Group-0 (Table 1a)

The two-year and 2011 yield averages were 55 and 67 bushels per acre, respectively, the lodging score average was 1, and the seed protein and oil content averages were 35.4 and 19.6%, respectively (table 1a). Varieties had to average 55 and 68 bushels or higher to be in the top yield group for two years and for 2011, respectively. Variety yield differences among the two-year averages had to differ by 5 bu., while the 2011 variety yield differences had to differ by 4 bu. to be significantly different.

Variety lodging score values had to equal 1 to be in the top performance group for lodging resistance and had to differ by 1 to be significantly different. Variety protein and oil values had to be 36.0 and 20.7% or higher to be in the top performance group for 2011, respectively.

Warner, Group-I (Table 1b):

The two-year and 2011 test-yield averages were 54 and 61 bushels per acre, respectively, the lodging score average was 1, and the seed protein and oil content averages were 35.1 and 19.2%, respectively (table 1b). Varieties had to average 51 and 63 bushels or higher to be in the top yield group for two years and for 2011, respectively. Variety yield differences among the two-year averages had to differ by 8 bu., while the 2011 variety yield differences had to differ by 5 bushels to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for lodging resistance and had to differ by 1 to be significantly different. Variety protein and oil values had to be 35.6 and 19.9% or higher to be in the top performance group for 2011, respectively.

South Shore, Group-0 (Table 2a)

The two-year and 2011 test-yield averages were 51 and 49 bushels per acre, respectively, the lodging score average was 1, and the seed protein and oil content averages were 36.4 and 18.2%, respectively (table 2a). Varieties had to average 48 bushels and 51 bushels or higher to be in the top yield group for two years and for

2011, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2011 variety yield differences had to differ by 4 bushels to be significantly different. Variety lodging score value differences were not significant, so all entries were in the top performance group. Variety protein and oil values had to be 38.5 and 19.3% or higher to be in the top performance group for 2011, respectively.

South Shore, Group-I (Table 2b)

The two-year and 2011 test-yield averages were 48 and 46 bushels per acre, respectively, the lodging score average was 1, and the seed protein and oil content averages were 36.4 and 17.3%, respectively (table 2b). Varieties had to average 44 and 49 bushels or higher to be in the top yield group for two years and for 2011, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2011 variety yield differences had to differ by 3 bushels to be significantly different. Variety lodging score value differences were not significant, so all entries were in the top performance group. Variety protein and oil values had to be 38.1 and 17.9% or higher to be in the top performance group for 2011, respectively.

Central Test Trials

Bancroft – No-till, E. Weerts Farm Inc. (farm cooperator)

Brookings – Conventional tillage, Volga Research Farm

Bancroft, Group-0 (Table 3a):

The two-year and 2011 test-yield averages were both 51 bushels per acre, respectively, the lodging score average was 1, and the seed protein and oil content averages were 33.3 and 20.0%, respectively (table 3a). There was only one variety that was tested for two years. Varieties had to average 51 bushels or higher to be in the top yield group for 2011. Among the varieties tested for 2011, variety yield differences had to differ by 1 bu. to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2011. Variety protein and oil values had to be 33.0 and 18.9% or higher to be in the top performance group for 2011, respectively.

Bancroft, Group-I (Table 3b):

The two-year and 2011 test-yield averages were both 56 bushels per acre, the lodging score average was 1, and the seed protein and oil content averages were 34.9 and 18.9%, respectively (table 3b). Varieties had to average 53 and 57 bushels or higher to be in the top yield group for two years and 2011, respectively. Variety yield differences among the two-year averages were not significant, while the 2011 variety yield differences had to differ by 6 bushels to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for lodging resistance and had to differ by 1 to be significantly different. Variety protein and oil values had

to be 37.6 and 20.2% or higher to be in the top performance group for 2011, respectively.

Bancroft, Group-II (Tables

3c): The two-year and 2011 test-yield averages were both 57 bushels per acre, the lodging score average was 2, and the seed protein and oil content averages were 36.5 and 18.3%, respectively (table 3c). Varieties had to average 56 and 58 bushels or higher to be in the top yield group for two years and for 2011, respectively. Variety yield averages had to differ by 6 bushels for two years and 4 bushels in 2011 to be significantly different. Variety lodging score values had to equal 2 to be in the top performance group for lodging resistance because there was no significant differences in lodging scores among the varieties. Variety protein and oil values had to be 38.1 and 19.1% or higher to be in the top performance group for 2011, respectively.

Brookings, Group-0 (Table

4a): The two-year and 2011 test-yield averages were 62 and 71 bushels per acre, respectively, the lodging score average was 2, and the seed protein and oil content averages were 35.5 and 19.5%, respectively (table 4a). Varieties had to average 62 and 70 bushels or higher to be in the top yield group for two years and for 2011, respectively. Variety yield averages did not differ among varieties for either the two-year period (only one variety tested) or for 2011. Variety lodging score values had to equal 1 to be in the top performance group for lodging

resistance and had to differ by 1 to be significantly different. Variety protein and oil values had to be 34.8 and 20.2% or higher to be in the top performance group for 2011, respectively.

Brookings, Group-I (Table

4b): The two-year and 2011 test-yield averages were both 61 bushels per acre, the lodging score average was 2, and the seed protein and oil content averages were 34.6 and 18.8%, respectively (table 4b). Varieties had to average 57 and 65 bushels or higher to be in the top yield group for two years and for 2011, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2011 variety yield differences had to differ by 5 bushels to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for lodging resistance and had to differ by 1 to be significantly different. Variety protein and oil values had to be 36.3 and 19.5% or higher to be in the top performance group for 2011, respectively.

Brookings, Group-II (Table 4c):

The two-year and 2011 test-yield average was 59 and 54 for two years and for 2011, respectively, the lodging score average was 2, and the seed protein and oil content averages were 34.1 and 18.4%, respectively (table 4c). Varieties had to average 52 and 60 bushels or higher to be in the top yield group for two years and for 2010, respectively. Variety yield differences among the two-year averages were not significant

(NS), while the 2011 variety yield differences had to differ by 4 bushels to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for lodging resistance and had to differ by 1 to be significantly different. Variety protein and oil values had to be 34.3 and 19.0% or higher to be in the top performance group for 2011, respectively.

Southern Test Trials

Geddes – No-till, Curtis Sybesma (farm cooperators)

Beresford – Conventional tillage, Southeast SD Agricultural Experiment Station.

Geddes, Group-I (Table 5a):

The two-year and 2011 test-yield averages were 52 and 49 bushels per acre, respectively, the lodging score average was 1, and the seed protein and oil content averages were 33.4 and 19.9%, respectively (table 5a). Varieties had to average 50 bushels and 47 bushels or higher to be in the top yield group for two years and for 2011, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2011 variety yield differences had to differ by 6 bushels to be significantly different. Variety lodging score values indicated lodging resistance did not differ among the varieties tested in 2011. Variety protein and oil values had to be 35.4 and 21.0% or higher to be in the top performance group for 2011, respectively.

Geddes, Group-II (Table 5b):

The two-year and 2011 test-yield averages were 52 and 51 bushels per acre, respectively, the lodging score average was 1, and the seed protein and oil content averages were 32.9 and 19.3%, respectively (table 5b). Varieties had to average 46 and 53 bushels or higher to be in the top yield group for two years and for 2011, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2011 variety yield differences had to differ by 6 bushels to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2011. Variety protein and oil values had to be 35.4 and 20.1% or higher to be in the top performance group for 2011, respectively.

Beresford, Group-I (Table 6a):

The two-year and 2011 test-yield averages were 63 and 52 bushels per acre, respectively, the lodging score average was 1, and the seed protein and oil content averages were 37.6 and 20.0%, respectively (table 6a). Varieties had to average 62 and 54 bushels or higher to be in the top yield group for two years and for 2011, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2011 variety yield differences had to differ by 5 bushels to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be

significantly different. Variety protein and oil values had to be 38.7 and 21.2% or higher to be in the top performance group for 2011, respectively.

Beresford, Group-II (Table 6b):

The two-year and 2011 test-yield averages were 61 and 51 bushels per acre, respectively, the lodging score average was 1, and the seed protein and oil content averages were 38.0 and 19.3%, respectively (table 6b). Varieties had to average 57 and 53 bushels or higher to be in the top yield group for two years and for 2011, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2011 variety yield differences had to differ by 4 bushels to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2011. Variety protein and oil values had to be 40.5 and 19.7% or higher to be in the top performance group for 2011, respectively.

Non-Glyphosate-Resistant Soybean Variety Trial Results

South Shore – Conventional tillage, Northeast Research Farm

South Shore, Group-0 (Tables 7a and 7b):

The two-year and 2011 yield averages were 46 and 42 bushels per acre, respectively, and the lodging score average was 1 (table 7a). Varieties had to average 41 bushels or higher for two years and 45 bushels or higher for 2011 to be in the

top yield group. Variety yield differences among the two-year averages were not significant (NS), while the 2011 variety yield differences had to differ by 5 bushels to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2011.

The seed protein and oil content averages were 38.1 and 18.4%, respectively (table 7b). Variety protein and oil values had to be 41.0 and 19.7% or higher to be in the top performance group for 2011, respectively.

South Shore, Group-I (Table 7a and 7b): The two-year and 2011 and test-yield averages were 45 and 44 bushels per acre, respectively, and the lodging score average was 1 (table 7a). Varieties had to average 40 bushels or higher for two years and 44 bushels or higher for 2011 to be in the top yield group. Variety yield differences among the two-year averages were not significant (NS), while the 2011 variety yield differences had to differ by 3 bushels to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2011. The seed protein and oil content averages were 37.4 and 18.2%, respectively (table 7b). Variety protein and oil values had to be 37.5 and 18.9% or higher to be in the top performance group for 2011, respectively.

Brookings – Conventional tillage, Volga Research Farm

Brookings, Group-0 (Table 8a and 8b): The two-year and 2011 test-yield averages were 55 and 60 bushels per acre, respectively, and the lodging score average was 2 (table 8a). Varieties had to average 48 and 65 bushels or higher to be in the top yield group for two years and for 2011, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2011 variety yield differences had to differ by 4 bushels to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different. The seed protein and oil content averages were 35.7 and 21.1%, respectively (table 8b). Variety protein and oil values had to be 37.0 and 20.2% or higher to be in the top performance group for 2011, respectively.

Brookings, Group-I (Table 8a and 8b): The two-year and 2011 yield averages were 50 and 53 bushels per acre, respectively, and the lodging score average was 2 (table 8a). Varieties had to average 45 and 56 bushels or higher to be in the top yield group for two years and for 2011, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2011 variety yield differences had to differ by 5 bushels to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by

1 to be significantly different. The seed protein and oil content averages were 35.0 and 19.9%, respectively (table 8b). Variety protein and oil values had to be 36.2 and 22.1% or higher to be in the top performance group for 2011, respectively.

Brookings, Group-II (Table 8a and 8b): The two-year and 2011 yield averages were 50 and 40 bushels per acre, respectively, and the lodging score average was 2 (table 8a). Varieties had to average 46 and 52 bushels or higher to be in the top yield group for two years and for 2011, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2011 variety yield differences had to differ by 4 bushels to be significantly different. Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different. The seed protein and oil content averages were 35.4 and 18.2%, respectively (table 8b). Variety protein and oil values had to be 36.5 and 19.4% or higher to be in the top performance group for 2011, respectively.

Beresford – Conventional tillage, Southeast Agricultural Experiment Station

Beresford, Group-I (Table 9a): The two-year and 2011 yield averages were 51 and 46 bushels per acre, respectively, and the lodging score average was 1 (table 9a). Varieties had to average

45 and 42 bushels or higher to be in the top yield group for two years and for 2011, respectively. Variety yield differences among the two-year averages and for 2011 were not significant (NS). Variety lodging score values had to equal 1 to be in the top performance group for resisting lodging, and lodging values had to differ by 1 to be significantly different. The seed protein and oil content averages were 35.2 and 21.1%, respectively (table 9b). Variety protein and oil values had to be 36.9 and 21.4% or higher to be in the top performance group for 2011, respectively.

Beresford, Group-II (Table

9a): The two-year and 2011 yield averages were 57 and 44 bushels per acre, respectively, and the lodging score average was 1 (table 9a). Varieties had to average 53 and 49 bushels or higher to be in the top yield group for two years and for 2011. Variety yield differences among the two-year averages were not significant (NS), while the 2011 variety yield differences had to differ by 4 bushels to be significantly different. Variety lodging score value differences were not significant (NS). The seed protein and oil content averages were 37.4 and 19.4%, respectively (table 9b). Variety protein and oil values had to be 37.6 and 19.6% or higher to be in the top performance group for 2011, respectively.

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Table A. Nearest weather station monthly rainfall and growing degree day totals and their departures from average during the 2011 growing season. Data is courtesy of the South Dakota Office of Climate and Weather, South Dakota State University, Brookings, SD.

Station (Test site)	Variable	Monthly data - April 1 to October 31						Sum
		April	May	June	July	Aug	Sept	
Aberdeen	Rain totals - inch '11	2.98	2.93	4.69	6.63	0.87	0.64	18.74
	30 year avg.	1.85	3.11	3.70	3.02	2.43	2.19	16.30
	DFA*	1.13	-0.18	0.99	3.61	-1.56	-1.55	2.44
	GDDs Totals '11	86	265	498	786	641	376	2,652
	30 year avg.	278	480	678	751	770	486	3,443
DFA*	-192	-215	-180	35	-129	-110	-791	
Northeast Research Farm	Rain totals - inch '11	1.38	4.72	3.28	8.13	1.20	0.58	19.29
	30 year avg.	2.18	2.74	3.77	3.34	2.93	2.78	17.74
	DFA	-0.80	1.98	-0.49	4.79	-1.73	-2.20	1.55
	GDDs Totals '11	65	217	426	717	554	310	2,289
	30 year avg.	270	466	669	723	733	485	3,346
DFA*	-205	-249	-243	-6	-179	-175	-1,057	
Huron Airport (Bancroft)	Rain totals - inch '11	2.59	3.34	3.95	3.49	2.35	0.45	16.17
	30 year avg.	2.31	3.11	3.93	2.92	2.43	2.46	17.16
	DFA	0.28	0.23	0.02	0.57	-0.08	-2.01	-0.99
	GDDs Totals '11	98	300	524	842	670	383	2,817
	30 year avg.	304	473	686	801	794	545	3,603
DFA*	-206	-173	-162	41	-124	-162	-786	
Brookings (Volga Res. Farm)	Rain totals - inch '11	2.64	6.18	3.98	4.88	1.52	0.14	19.34
	30 year avg.	2.13	2.97	4.30	3.25	3.07	3.19	18.91
	DFA	0.51	3.21	-0.32	1.63	-1.55	-3.05	0.43
	GDDs Totals '11	62	257	457	772	586	347	2,481
	30 year avg.	238	445	643	745	740	477	3,288
DFA*	-176	-188	-186	27	-154	-130	-807	
White Lake (Geddes)	Rain totals - inch '11	2.74	4.12	6.61	1.63	2.35	0.35	17.80
	30 year avg.	2.72	3.54	3.64	2.63	2.53	2.23	17.29
	DFA	0.02	0.58	2.97	-1.00	-0.18	-1.88	0.51
	GDDs Totals '11	97	254	478	784	652	383	2,648
	30 year avg.	314	517	712	800	796	568	3,707
DFA*	-217	-263	-234	-16	-144	-185	-1,059	
Centerville, Experiment Station (Test site)	Rain totals - inch '11	3.52	5.16	4.38	1.06	3.43	0.74	18.29
	30 year avg.	2.73	3.64	4.36	3.28	2.95	2.93	19.89
	DFA	0.79	1.52	0.02	-2.22	0.48	-2.19	-1.60
	GDDs Totals '11	98	312	532	830	668	368	2,808
	30 year avg.	286	532	722	780	770	559	3,649
DFA*	-188	-220	-190	50	-102	-191	-841	

* DFA - departure from average, difference current year is greater or less (-) than the 30 year average.

Table B. Description of 2011 trial locations- soil type, tillage, prior crop, herbicides and inoculants, and seeding dates.

Location (County)	Soils & Management			Herbicides Applied at label rates				Insecticides Applied at label rates	Date seeded
	Type	Tillage Method	Prior crop	Glyphosate Plots		Non- glyphosate Plots			
				Pre	Post	Pre	Post		
Warner (Brown)	Harmony-Aberdeen silty clay loam, 0-2% slope	No-till	Corn	None	Roundup/ Fusilade once	-	-	Assana (aerial)	May 26
South Shore (Codington)	Kranzburg silty clay loam, 3-6% slope	Conventional	Spring wheat	2 pt, Dual II Magnum	Roundup once	2 pt, Dual II Magnum	Harmony/ Basagran	Warrior (aerial)	June 6
Bancroft (Kingsbury)	Houdek-Stickney- Tetonka loam, 0-3% slope	No-till	Corn	Extreme/ Sharpen	Roundup twice	-	-	Warrior (ground)	June 2
Brookings (Brookings)	Barnes clay loam, 0-2% slope	Conventional	Springwheat	None	Roundup twice	None	Harmony/ Poast	Asana (ground)	May 25
Geddes (Chas. Mix)	Highmore-Walke silt loam, 0-2% slope	No-till	Corn	None	Roundup once	-	-	None	May 26
Beresford (Clay)	Egan-Clarno-Trent silty clay loam, 0-2% slope	Conventional	Corn	Sonalan	Roundup once		Raptor Cadet	Assana (ground)	June 8

* Nitragin Soybean Soil Implant was applied down the seed tube at label rates at planting.

Table C. Phytophthora root rot strain resistance according to gene.

Gene	Gene Code	Race Resistance
rps1	0	None
Rps1, Rps1a	1A	1-2,10-11,13,15-18,24
Rps1b	1B	1,3-9,13-15,18,21-22
Rps1c	1C	1-3,6-11,13,15,17,21,23-24
Rps1k	1K	1-11,13-15,17-18,21-22,24
Rps2	2	1-5,9-20
Rps3	3	1-5,8-9,11,13-14,16,18,23,25
Rps4	4	1-4,10,12-16,18-21,25
Rps5	5	1-5,8-9,11-14,18,20,25
Rps6	6	1-4,10,12,14-16,18-21,25
Rsp7	7	16,18,19
Rps1k, Rps6	K6	1-22,24-25
Rps1c, Rps3	C3	1-10,13-18,22-25
Rps1b	B3	1-9,13-16,18,21-23,25
MIX	MX	Resistant & Susceptible Plants
NR*	NR	Not Reported

MIX = mixture. NR = not reported by seed entrant.

Table D. Index to 2011 Glyphosate-resistant soybean entries by brand/variety, maturity group, seed trt., gene code for Phytophthora root rot (PRR) resistance as reported by entrants, and performance table no.(s). Use table C to determine entry PRR strain resistance.

Brand / Variety	Mat. Grp.	Seed Treatment	Gene Code*	Table No.(s)
ASGROW/ AG0730	0.7	Acceleron	1K	1a, 2a
ASGROW/ AG0832	0.8	Acceleron	3	1a, 2a
ASGROW/ AG1031	1.0	Acceleron	3	1b, 2b
ASGROW/ AG1132	1.1	Acceleron	1K	1b, 2b
ASGROW/ AG1230	1.2	Acceleron	1C	1b, 2b
ASGROW/ AG1431	1.4	Acceleron	1C	1b, 2b, 3b, 4b
ASGROW/ AG1631	1.6	Acceleron	1C	1b, 2b, 3b, 4b
ASGROW/ AG1832	1.8	Acceleron	1K	3b, 4b
ASGROW/ AG2031	2.0	Acceleron	1C	3c, 4c, 5b, 6b
ASGROW/ AG2232	2.2	Acceleron	1C	3c, 4c, 5b, 6b
ASGROW/ AG2431	2.4	Acceleron	1C	3c, 4c, 5b, 6b
ASGROW/ AG2732	2.4	Acceleron	NR	5b, 6b
ASGROW/ AG2931	2.9	Acceleron	1C	5b, 6b
CHANNEL/ 0905R2	0.9	Acceleron	1K	1a, 2a
CHANNEL/ 1101R2	1.1	Acceleron	1K	1b, 2b
CHANNEL/ 1105R2	1.1	Acceleron	3	1b, 2b
CHANNEL/ 1405R2	1.4	Acceleron	1C	1b, 2b, 3b, 4b
CHANNEL/ 1700R2	1.7	Acceleron	1C	3b, 4b
CHANNEL/ 1805R2	1.8	Acceleron	1C	3b, 4b
CHANNEL/ 1901R2	1.9	Acceleron	1C	3b, 4b
CHANNEL/ 2000R2	2.0	Acceleron	1C	3c, 4c, 5b, 6b
CHANNEL/ 2105R2	2.1	Acceleron	1C	5b, 6b
CHANNEL/ 2200R2	2.2	Acceleron	1K	5b, 6b
CHANNEL/ 2400R2	2.2	Acceleron	1K	5b, 6b
CHANNEL/ 2402R2	2.2	Acceleron	1K	5b, 6b
DAIRYLAND/ DSR-0747/R2Y	0.7	Cruiser Maxx	1C	1a, 2a
DAIRYLAND/ DSR-1215/R2Y	1.2	Cruiser Maxx	1C	3b, 4b
DAIRYLAND/ DSR-1370/R2Y	1.3	Cruiser Maxx	1C	1b, 2b
DAIRYLAND/ DSR-1808/R2Y	1.8	Cruiser Maxx	1C	1b, 2b, 3b, 4b
DAIRYLAND/ DSR-2011/RR	2.0	Cruiser Maxx	1K	3c, 4c, 5b, 6b
DAIRYLAND/ DSR-2105/R2Y	2.1	Cruiser Maxx	1K	3c, 4c, 5b, 6b
DAIRYLAND/ DSR-2240/R2Y	2.2	Cruiser Maxx	1C	5b, 6b
DAIRYLAND/ DST16-001/ RY2	1.6	Cruiser Maxx	1C	1b, 2b
G-2 GENETICS/ 6088	0.8	Trilex 6000	0	1a, 2a
G-2 GENETICS/ 6092	0.9	Trilex 6000	1K	1a, 2a
G-2 GENETICS/ 6098	0.9	Trilex 6000	1K	1a, 2a
G-2 GENETICS/ 6142	1.4	Trilex 6000	0	1b, 2b, 3b, 4b
G-2 GENETICS/ 6155	1.5	Trilex 6000	1K	1b, 2b, 3b, 4b
G-2 GENETICS/ 6162	1.6	Trilex 6000	1C	1b, 2b, 3b, 4b, 5a, 6a
G-2 GENETICS/ 7110	1.1	Trilex 6000	1C	1b, 2b
G-2 GENETICS/ 7170	1.7	Trilex 6000	K6	1b, 2b, 3b, 4b, 5a, 6a
G-2 GENETICS/ 7192	1.9	Trilex 6000	1C	3b, 4b, 5a, 6a
G-2 GENETICS/ 7208	2.0	Trilex 6000	1C	5b, 6b
G-2 GENETICS/ 7226	2.2	Trilex 6000	1K	5b, 6b
G-2 GENETICS/ 7249	2.4	Trilex 6000	1K	5b, 6b

Table D. Index to 2011 Glyphosate-resistant soybean entries (Continued).

Brand / Variety	Mat. Grp.	Seed Treatment	Gene Code*	Table No.(s)
G-2 GENETICS/ 7250	2.5	Trilex 6000	1K	5b, 6b
G-2 GENETICS/ 7262	2.6	Trilex 6000	1C	5b, 6b
G-2 GENETICS/ 7272	2.7	Trilex 6000	1K	5b, 6b
G-2 GENETICS/ 7290	2.9	Trilex 6000	1K	5b, 6b
HEFTY/ H05Y12	0.5	NR	0	1a
HEFTY/ H06Y12	0.6	NR	0	1a, 2a
HEFTY/ H07Y12	0.7	NR	3	2a
HEFTY/ H08Y11	0.8	NR	1C	2a
HEFTY/ H08Y12	0.8	NR	0	2a
HEFTY/ H09Y10	0.9	NR	1C	1a, 2a
HEFTY/ H09Y11	0.9	NR	3	1a, 2a
HEFTY/ H10Y12	1.0	NR	1K	1b
HEFTY/ H11Y12	1.1	NR	3	1b
HEFTY/ H12Y12	1.2	NR	1C	1b, 2b
HEFTY/ H13Y11	1.3	NR	1C	2b
HEFTY/ H13Y12	1.3	NR	1C	1b, 2b, 3b
HEFTY/ H15Y12	1.5	NR	3	2b
HEFTY/ H16Y11	1.6	NR	0	2b, 3b
HEFTY/ H16Y12	1.6	NR	1K	2b, 3b, 4b
HEFTY/ H17Y12	1.7	NR	1K	3b, 4b
HEFTY/ H18Y12	1.8	NR	0	3b, 4b
HEFTY/ H19Y11	1.9	NR	1C	3b, 4b
HEFTY/ H20Y11	2.0	NR	0	3c, 6b
HEFTY/ H20Y12	2.0	NR	1C	3c, 5b
HEFTY/ H21Y11	2.1	NR	1C	4c
HEFTY/ H21Y12	2.1	NR	1K	3c, 6b
HEFTY/ H22Y11	2.2	NR	1C	3c, 4c, 6b
HEFTY/ H22Y12	2.2	NR	1C	4c, 5b
HEFTY/ H23Y10	2.3	NR	0	4c, 5b
HEFTY/ H23Y12	2.3	NR	1K	4c, 5b
HEFTY/ H24Y12	2.4	NR	1C	4c, 6b
HEFTY/ H25Y12	2.5	NR	3	6b
HEFTY/ H26Y11	2.6	NR	1C	6b
MUSTANG/ 06942	0.6	Acceleron	0	2a
MUSTANG/ 09822	0.9	Acceleron	1K	1a, 2a, 3a, 4a
MUSTANG/ 11302	1.1	Acceleron	3	1b, 2b, 3b, 4b
MUSTANG/ 13552	1.3	Acceleron	1C	1b, 2b, 3b, 4b
MUSTANG/ 14441	1.4	Acceleron	1C	1b, 4b
MUSTANG/ 15522	1.5	Acceleron	1C	1b, 2b, 3b, 4b
MUSTANG/ 17722	1.7	Acceleron	1K	1b, 3b, 4b
MUSTANG/ 18821	1.8	Acceleron	1K	4b
MUSTANG/ 18922	1.8	Acceleron	1K	3b, 4b
MUSTANG/ 19922	1.9	Trilex 6000	NR	3b, 4b
MUSTANG/ 20622	2.0	Acceleron	1C	3c, 4c
MUSTANG/ 23530	2.3	Acceleron	0	4c, 5b, 6b
MUSTANG/ 24322	2.4	Acceleron	3	4c, 5b, 6b
MUSTANG/ 25521	2.5	Acceleron	1K	6b
MUSTANG/ 27721	2.7	Acceleron	0	5b, 6b
NUTECH/ 6078	0.9	Trilex 6000	NR	1a, 2a
NUTECH/ 6099	0.9	Trilex 6000	1C	1a, 2a

Table D. Index to 2011 Glyphosate-resistant soybean entries (Continued).

Brand / Variety	Mat. Grp.	Seed Treatment	Gene Code*	Table No.(s)
NUTECH/ 6118	1.1	Trilex 6000	1C	1b, 2b, 3b, 4b
NUTECH/ 6145	1.4	Trilex 6000	NR	1b, 2b, 3b, 4b
NUTECH/ 6156	1.8	Trilex 6000	NR	1b, 2b, 3b, 4b
NUTECH/ 6195	1.9	NR	0	5a, 6a
NUTECH/ 6228	2.2	Trilex 6000	NR	3c, 4c, 5b, 6b
NUTECH/ 6244	2.4	Trilex 6000	NR	3c, 4c
NUTECH/ 6245	2.4	Trilex 6000	NR	3c, 4c, 5b, 6b
NUTECH/ 6265	2.6	Trilex 6000	NR	5b, 6b
NUTECH/ 6281	2.8	Trilex 6000	1K	5b, 6b
PETERSON FARMS/ 11R08	0.8	NR	3	1a, 2a
PETERSON FARMS/ 11R10	1.0	NR	1C	1b, 2b
PIONEER BR./ 90Y80	0.8	GaUCHO+Apron+Trilex	NR	1a, 2a
PIONEER BR./ 90Y90	0.9	GaUCHO+Apron+Trilex	1C	1a, 2a
PIONEER BR./ 91Y22	1.2	GaUCHO+Apron+Trilex	NR	1b, 2b, 3b
PIONEER BR./ 91Y41	1.4	GaUCHO+Apron+Trilex	1C	1b, 2b, 3b
PIONEER BR./ 91Y60	1.6	GaUCHO+Apron+Trilex	1C	1b, 2b, 3b, 4b
PIONEER BR./ 91Y61	1.6	GaUCHO+Apron+Trilex	NR	1b, 2b, 3b, 4b
PIONEER BR./ 91Y90	1.9	GaUCHO+Apron+Trilex	NR	1b, 3b, 4b
PIONEER BR./ 92Y30	2.3	GaUCHO+Apron+Trilex	1K	3c, 4c, 5b
PIONEER BR./ 92Y51	2.5	GaUCHO+Apron+Trilex	1K	4c, 5b, 6b
PIONEER BR./ 92Y70	2.7	GaUCHO+Apron+Trilex	NR	5b, 6b
PIONEER BR./ 92Y73	2.7	GaUCHO+Apron+Trilex	1C	5b, 6b
PIONEER BR./ 93M11	2.9	GaUCHO+Apron+Trilex	1K	5b, 6b
PIONEER BR./ 93Y13	2.9	GaUCHO+Apron+Trilex	1C	5b, 6b
PRAIRIE BR./ EXP 0811	0.8	NR	1K	1a, 2a
PRAIRIE BR./ EXP 0912	0.9	NR	1K	1a, 2a
PRAIRIE BR./ EXP 0913	0.9	NR	1A	1a, 2a
PRAIRIE BR./ EXP 1511	1.5	NR	3A	1b, 2b, 3b, 4b
PRAIRIE BR./ EXP 1812	1.8	NR	0	3b, 4b, 5a, 6a
PRAIRIE BR./ EXP 2012	2.0	NR	1C	3c, 4c
PRAIRIE BR./ EXP 231	2.3	NR	1C	3c, 4c
PRAIRIE BR./ PB-0721R2	0.7	NR	3	1a, 2a
PRAIRIE BR./ PB-0880R2	0.8	NR	0	1a, 2a
PRAIRIE BR./ PB-0920R2	0.9	NR	1K	1a, 2a
PRAIRIE BR./ PB-1080R2	0.9	NR	1C	1a, 2a
PRAIRIE BR./ PB-1120R2	0.9	NR	1C	1a, 2a
PRAIRIE BR./ PB-1320R2	1.3	NR	1C	1b, 2b
PRAIRIE BR./ PB-1410R2	1.4	NR	1C	1b, 2b
PRAIRIE BR./ PB-1483R2	1.4	NR	1C	1b, 2b
PRAIRIE BR./ PB-1523R2	1.5	NR	1C	1b, 2b
PRAIRIE BR./ PB-1591R2	1.5	NR	0	1b, 2b, 3b, 4b, 5a, 6a
PRAIRIE BR./ PB-1722R2	1.7	NR	1K	1b, 2b, 3b, 4b, 5a, 6a
PRAIRIE BR./ PB-1743R2	1.7	NR	1C	1b, 2b, 3b, 4b
PRAIRIE BR./ PB-1823R2	1.8	NR	1C	1b, 2b, 3b, 4b, 5a, 6a
PRAIRIE BR./ PB-1920R2	1.9	NR	1C	1b, 2b, 3b, 4b, 5a, 6a
PRAIRIE BR./ PB-1942R2	1.9	NR	1K	3b, 4b, 5a, 6a
PRAIRIE BR./ PB-2042R2	1.9	NR	1C	5a, 6a
PRAIRIE BR./ PB-2099NRR2	1.9	NR	1C	3b, 4b, 5a, 6a
PRAIRIE BR./ PB-2121R2	2.0	NR	0	3c, 4c, 5b, 6b
PRAIRIE BR./ PB-2123R2	1.9	NR	1K	5a, 6a

Table D. Index to 2011 Glyphosate-resistant soybean entries (Continued).

Brand / Variety	Mat. Grp.	Seed Treatment	Gene Code*	Table No.(s)
PRAIRIE BR./ PB-2221R2	2.1	NR	1C	3c, 4c, 5b, 6b
PRAIRIE BR./ PB-2242R2	2.2	NR	1A	3c, 4c, 5b, 6b
PRAIRIE BR./ PB-2278RR	1.9	NR	1K	3b, 4b, 5a, 6a
PRAIRIE BR./ PB-2343R2	2.3	NR	1K	3c, 4c
PRAIRIE BR./ PB-2391R2	2.3	NR	1C	3c, 4c, 5b, 6b
PRAIRIE BR./ PB-2419RR2	2.3	NR	1C	3c, 4c, 5b, 6b
PRAIRIE BR./ PB-2544R2	2.5	NR	3A	3c, 4c, 5b, 6b
PRAIRIE BR./ PB-2558NRR	2.4	NR	0	3c, 4c, 5b, 6b
PRAIRIE BR./ PB-2743R2	2.7	NR	1C	5b, 6b
PRAIRIE BR./ PB-2882R2	2.7	NR	0	5b, 6b
PRAIRIE BR./ PB-2903R2	2.9	NR	1K	5b, 6b
PRAIRIE BR./ PB0879NRR2	0.9	NR	1C	1a, 2a
PUBLIC/ SD(LD)05-16121	2.0	NR	0	3c, 4c, 5b, 6b
PUBLIC/ SD(LD)05-16137	2.0	NR	0	3c, 4c, 5b, 6b
REA/ 6764RR	0.6	NR	3	1a, 2a
REA/ 67G61	0.7	NR	3	1a, 2a
REA/ 69G22	0.9	NR	1K	1a, 2a
REA/ 71G20	1.1	NR	0	1b, 2b, 3b, 4b
REA/ 72G21	1.3	NR	1C	1b, 2b, 3b, 4b
REA/ 75G10	1.4	NR	1C	1b, 2b, 3b, 4b
REA/ 75G12	1.4	NR	1C	1b, 2b, 3b, 4b
REA/ 76G10	1.6	NR	1K	1b, 2b, 3b, 4b
REA/ 78G12	1.8	NR	1C	3b, 4b
REA/ 80G11	2.0	NR	1K	3c, 4c
REA/ 84G20	2.4	NR	1C	3c, 4c
REA/ EXP22R211	2.2	NR	1C	3c, 4c
REA/ EXP25R211	2.5	NR	1C	3c, 4c
RENK/ RS122R2	1.2	NR	1C	4b
RENK/ RS140NR2	1.4	NR	1C	4b
RENK/ RS141NR2	1.4	NR	1C	4b
RENK/ RS172NR2	1.7	NR	1K	4b
RENK/ RS181NR2	1.8	NR	1K	4b
RENK/ RS202NR2	2.0	NR	1C	4c
RENK/ RS210NR2	2.1	NR	1C	4c
RENK/ RS222R2	2.2	NR	1C	4c, 6b
RENK/ RS241R2	2.4	NR	1C	6b
RENK/ RS282R2	2.8	NR	1C	6b
SEEDS 2000/ 2082 RR2Y	0.8	NR	3	1a, 2a
SEEDS 2000/ 2091 RR2YN	0.9	NR	1K	1a, 2a
SEEDS 2000/ 2121 RR2Y	1.2	NR	3	1b, 2b
SODAK GEN./ SD1093RR	0.9	NR	0	1a, 2a, 3a, 4a
SODAK GEN./ SD2091RR	0.7	NR	1C	1a, 2a, 3a, 4a
SODAK GEN./ SD2151RR	1.2	NR	1C	1b, 2b, 3b, 4b, 5a, 6a
SODAK GEN./ SD2171RR	1.7	NR	1C	1b, 2b, 3b, 4b, 5a, 6a
STINE/ 08RC68	0.8	Cruiser Maxx	0	2a
STINE/ 09RC83	0.9	Cruiser Maxx	1K	1a, 2a
STINE/ 11RC08	1.1	Cruiser Maxx	3	1b, 2b
STINE/ 11RC68	1.1	Cruiser Maxx	3	1b
STINE/ 13RA08	1.3	Cruiser Maxx	1K	1b, 3b
STINE/ 16RA02	1.6	Cruiser Maxx	1K	1b, 3b, 4b

Table D. Index to 2011 Glyphosate-resistant soybean entries (Continued).

Brand / Variety	Mat. Grp.	Seed Treatment	Gene Code*	Table No.(s)
STINE/ 19RA02	1.9	Cruiser Maxx	1C	1b, 4b
STINE/ 20RC32	2.0	Cruiser Maxx	1C	4c
STINE/ 22RC62	2.2	Cruiser Maxx	1K	4c, 6b
STINE/ 2420-4	2.4	Cruiser Maxx	1A	6b
STINE/ 24RB00	2.4	Cruiser Maxx	1C	4c, 6b
STINE/ 29RB22	2.9	Cruiser Maxx	0	6b
WENSMAN/ W 3099R2	0.9	Acceleron	1K	1a, 2a
WENSMAN/ W 3108R2	1.0	Acceleron	3A	1b, 2b
WENSMAN/ W 3114R2	1.1	Acceleron	1C	1b, 2b, 3b, 4b
WENSMAN/ W 3120R2	1.2	Acceleron	1C	1b, 2b, 3b, 4b
WENSMAN/ W 3131R2	1.3	Acceleron	1C	1b, 2b, 3b, 4b
WENSMAN/ W 3140R2	1.4	Acceleron	0	1b, 2b, 3b, 4b
WENSMAN/ W 3174NR2	1.7	Acceleron	1K	1b, 2b, 3b, 4b
WENSMAN/ W 3180NR2	1.8	Acceleron	1K	1b, 2b, 3b, 4b
WENSMAN/ W 3200NR2	2.0	Acceleron	1C	3c, 4c, 5b, 6b
WENSMAN/ W 3212NR2	2.1	Acceleron	1C	3c, 4c, 5b, 6b
WENSMAN/ W 3230R2	2.3	Acceleron	1C	3c, 4c, 5b, 6b
WENSMAN/ W 3256NR2	2.5	Acceleron	3A	5b, 6b
WENSMAN/ W 3284NR2	2.8	Acceleron	1C	5b, 6b

NR indicates gene code was not reported by seed entrant.

Table E. Mailing addresses of entrants in the 2011 soybean trials.

Entrant name (brand name) & Mailing address	
Channel	Channel Bio. Corp., Box 277, Laurel, NE 68745
Dairyland	Dairyland Seed Co., Inc., PO Box 958, West Bend, WI 53095
G2	G2 Genetics, 36131 Hwy 69N, Forest City, IA 50436
Hefty	Hefty Seed Co.), 47504 252nd St., Baltic, SD 57003
Asgrow	Monsanto, 46040 SD HWY 44, Chancellor, SD 57015
Mustang	Mustang Seeds, PO Box 466, Madison, SD 57042
Nutech	Nutech Seed, LLC, 36131 Hwy 69N, Forest City, IA 50436
Peterson	Peterson Farms, 3104 164th Ave SE, Harwood, ND 58042
Pioneer	Pioneer Hi-Bred Intl., 151 St. Andrews Ct. Suite 910, Mankato, MN 56001
Prairie Brand	Prairie Brand Seed Co., 11261 US HWY 69, Story City, IA 50248
REA	REA Hybrids, 5 37th Ave S, Moorhead, MN 56560
Renk	Renk Seed Co., 6809 Wilburn Rd., Sun Prairie, WI 53590
Richland Organics	Richland Organics, Inc., 100 N 10th St., Breckenridge, MN 56520
Seeds 2000	Seeds 2000, 115 N 3rd St, Breckenridge, MN 56520
SK	SK Food International, 4666 Amber Valley Parkway, Fargo, ND 58104
SoDak	Sodak Genetics, 1200 North Campus Dr., Brookings, SD 57007
Public	South Dakota State University, Plant Science Department, Brookings, SD 57007
Stine	Stine Seed Co., 11920 Hargrove Dr., Des Peres, MO 63131
Wensman	Wensman Seed, PO Box 190, Wadena, MN 56482

Table F. Explanation of performance table footnotes.

NO.	EXPLANATION OF TABLE FOOTNOTES
[1]	Days to maturity (DTM) – the number of days to maturity from seeding to 95% brown pod. If data is missing (.) the plots were exposed to a killing frost before they attained the 95% brown pod stage.
[2]	Lodging scores: 0= all plants erect, 3= 50% of plants lodged at 45°-angle, 5= all plants flat.
[3]	Least Significant Difference (LSD 0.05) – the difference two values within a column must equal or exceed to be significantly different from one another at the 0.05 level of probability. If the difference is less than the LSD value the difference between the values is nonsignificant (NS).
[4]	TPG-avg. – the minimum value within a column that entry yield values must equal or exceed to qualify for the top-performance group (TPG).
[5]	TPG-avg. – the maximum value within a column that lodging score values must equal or be less than to qualify for the TPG.
[6]	Coefficient of variation (C.V.) - the percent of experimental error associated with a test trial. Ideally, the CV value for yield is less than 15%. Values less than 5% tend to be less common while values of 6 to 15% are more common. Occasionally, values exceed 15%; this means the trial contained too much experimental error to be a valid test; thus, no data analysis for that table column is reported.

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Table 1a. Glyphosate-resistant maturity group-0 soybean variety yield, lodging score, and seed protein, and oil averages at Warner, SD, 2010-2011. Sorted by 2-Yr then by 2011 yield average.

Brand/Variety	DTM [1]	Yield Averages* bu/a (13% Mst.#)		Other 2011 Averages		
		2-Yr	2011	Lodg. Score (1-5)	Prot. % (13% Mst.#)	Oil % (13% Mst.#)
SEEDS 2000/ 2091 RR2YN	117	59	70	2	35.2	19.5
DAIRYLAND/ DSR-0747/R2Y	.	58	71	2	36.0	18.7
PRAIRIE BR./ PB0879NRR2	117	56	70	1	35.1	19.6
ASGROW/ AG0730	110	56	69	1	36.4	19.0
G-2 GENETICS/ 6088	114	56	68	1	35.8	19.7
SODAK GEN./ SD1093RR	112	55	65	1	35.9	19.8
PIONEER BR./ 90Y80	111	52	67	1	34.4	21.0
G-2 GENETICS/ 6098	115	52	66	2	35.2	19.8
PRAIRIE BR./ PB-1120R2	.	49	61	2	36.3	18.9
NUTECH/ 6078	116	.	71	1	35.4	19.6
MUSTANG/ 09822	113	.	69	2	35.1	20.2
PRAIRIE BR./ EXP 0912	114	.	69	2	35.6	20.0
HEFTY/ H09Y10	115	.	68	1	35.3	19.6
PRAIRIE BR./ EXP 0811	115	.	68	1	36.0	19.7
PRAIRIE BR./ EXP 0913	112	.	68	3	34.3	20.0
NUTECH/ 6099	117	.	67	3	34.8	19.7
HEFTY/ H06Y12	110	.	67	2	35.7	19.6
G-2 GENETICS/ 6092	114	.	67	2	36.0	19.4
REA/ 67G61	113	.	67	1	35.3	19.3
WENSMAN/ W 3099R2	114	.	67	1	36.5	19.5
ASGROW/ AG0832	114	.	66	1	36.6	20.0
PIONEER BR./ 90Y90	111	.	66	1	36.1	19.3
HEFTY/ H09Y11	113	.	66	1	35.4	19.4
STINE/ 09RC83	115	.	66	1	37.0	19.3
PRAIRIE BR./ PB-0721R2	111	.	66	1	35.1	19.3
PRAIRIE BR./ PB-0880R2	113	.	66	1	34.5	18.8
SODAK GEN./ SD2091RR	.	.	66	1	35.3	18.7
REA/ 6764RR	110	.	65	1	33.3	19.7
PETERSON FARMS/ 11R08	115	.	65	1	35.0	19.4
PRAIRIE BR./ PB-0920R2	114	.	65	1	37.1	19.1
SEEDS 2000/ 2082 RR2Y	115	.	64	1	35.4	19.6
REA/ 69G22	116	.	63	3	34.1	20.3
CHANNEL/ 0905R2	.	.	63	2	34.0	20.0
PRAIRIE BR./ PB-1080R2	.	.	63	2	34.0	20.2
Test avg. :	113	55	67	1	35.4	19.6
High avg. :	117	59	71	3	37.1	21.0
Low avg. :	110	49	61	1	33.3	18.7
[3] Test LSD (.05):		5	4	<1	1.1	0.4
[4] Min.TPG-avg. :		55	68	.	36.0	20.7
[5] Max.TPG-avg. :		.	.	1	.	.
[6] Test Coef. Var.:		7	3	30	2	1
No. Entries:	29	9	34	34	34	34

[1] DTM= days to maturity from a seeding date of May 26, 2011 at Warner.

Missing DTM data (.) is indicated if an entry was exposed to a killing frost before maturity.

Note that additional table references [] are explained in Table F.

* Shaded values within a column are included in the top-performance group.

Adjusted to 13% moisture basis.

** Indicates differences between values within a column are non-significant (NS).

Table 1b. Glyphosate-resistant maturity group-I soybean variety yield, lodging score, and seed protein, and oil averages at Warner, SD, 2010-2011. Sorted by 2-Yr then by 2011 yield average.

Brand/Variety	DTM [1]	Yield Averages* bu/a (13% Mst.#)		Other 2011 Averages		
		2-Yr	2011	Lodg. Score (1-5)	Prot. % (13% MST.#)	Oil % (13% Mst.#)
PRAIRIE BR./ PB-1743R2	.	58	67	1	35.7	18.2
ASGROW/ AG1631	.	58	63	2	36.2	19.5
PRAIRIE BR./ PB-1722R2	.	57	62	1	35.8	19.4
SODAK GEN./ SD2171RR	.	56	65	1	33.0	19.6
DAIRYLAND/ DSR-1370/R2Y	.	56	60	1	34.8	18.7
REA/ 75G10	115	55	65	1	35.8	18.6
ASGROW/ AG1230	115	55	61	1	34.7	19.8
PRAIRIE BR./ PB-1410R2	.	55	61	1	35.7	18.3
ASGROW/ AG1431	115	54	64	1	35.3	20.3
ASGROW/ AG1031	115	53	62	1	36.9	19.0
STINE/ 13RA08	.	53	59	1	35.7	18.6
MUSTANG/ 14441	119	53	58	1	35.2	18.9
REA/ 71G20	116	52	65	2	34.8	19.4
REA/ 72G21	.	52	60	2	35.7	18.9
NUTECH/ 6145	.	52	58	1	33.8	19.8
PRAIRIE BR./ PB-1920R2	.	52	54	1	36.9	18.4
PIONEER BR./ 91Y22	115	51	62	1	36.2	19.6
REA/ 76G10	.	51	59	1	34.4	19.7
PIONEER BR./ 91Y60	.	48	57	1	35.7	19.3
CHANNEL/ 1405R2	.	.	68	1	35.6	19.8
MUSTANG/ 17722	.	.	66	1	35.1	19.4
DAIRYLAND/ DST16-001/R2Y	.	.	66	1	33.1	19.5
WENSMAN/ W 3174NR2	.	.	66	1	34.5	19.4
REA/ 75G12	.	.	64	1	36.1	19.2
CHANNEL/ 1105R2	117	.	64	1	36.4	18.5
PRAIRIE BR./ PB-1591R2	.	.	64	1	33.3	19.1
WENSMAN/ W 3108R2	115	.	64	1	36.4	19.0
MUSTANG/ 15522	.	.	63	1	32.8	19.2
NUTECH/ 6118	116	.	63	3	35.0	19.6
STINE/ 16RA02	.	.	63	1	35.6	19.3
STINE/ 19RA02	.	.	63	1	34.0	19.1
G-2 GENETICS/ 6155	.	.	63	1	35.1	20.4
G-2 GENETICS/ 6162	117	.	63	1	33.4	20.2
CHANNEL/ 1101R2	.	.	63	1	35.6	18.7
MUSTANG/ 11302	.	.	62	1	36.6	18.6
DAIRYLAND/ DSR-1808/R2Y	.	.	62	1	33.9	18.8
WENSMAN/ W 3114R2	.	.	62	2	35.9	19.0
WENSMAN/ W 3140R2	.	.	62	1	33.7	19.0
SEEDS 2000/ 2121 RR2Y	113	.	62	1	36.8	18.8
ASGROW/ AG1132	.	.	61	1	34.6	19.5
STINE/ 11RC08	112	.	61	1	36.6	18.9
PETERSON FARMS/ 11R10	114	.	61	1	35.1	19.8
WENSMAN/ W 3120R2	.	.	61	2	36.3	18.8
WENSMAN/ W 3131R2	.	.	61	1	34.2	18.7
MUSTANG/ 13552	.	.	60	2	35.6	18.9

Table 1b. Glyphosate-resistant maturity group-I soybean variety yield, lodging score, and seed protein, and oil averages at Warner, SD, 2010-2011 (continued).

Brand/Variety	DTM [1]	Yield Averages* bu/a (13% Mst.#)		Other 2011 Averages		
		2-Yr	2011	Lodg. Score (1-5)	Prot. % (13% MST.#)	Oil % (13% Mst.#)
PIONEER BR./ 91Y90	.	.	60	1	34.3	19.3
PIONEER BR./ 91Y61	.	.	60	1	34.6	20.1
PIONEER BR./ 91Y41	113	.	60	1	33.6	19.7
HEFTY/ H11Y12	114	.	60	1	36.6	18.9
PRAIRIE BR./ PB-1320R2	.	.	60	1	35.1	18.2
PRAIRIE BR./ PB-1523R2	118	.	60	1	35.5	19.4
HEFTY/ H12Y12	.	.	59	1	34.1	19.2
HEFTY/ H13Y12	.	.	59	1	35.9	19.2
G-2 GENETICS/ 7110	114	.	59	1	35.3	19.9
PRAIRIE BR./ EXP 1511	118	.	59	1	36.0	18.9
PRAIRIE BR./ PB-1823R2	.	.	59	1	35.3	18.8
WENSMAN/ W 3180NR2	.	.	59	1	34.9	19.7
STINE/ 11RC68	.	.	58	1	35.7	19.2
SODAK GEN./ SD2151RR	.	.	58	1	34.9	18.4
PRAIRIE BR./ PB-1483R2	118	.	57	1	33.5	19.2
G-2 GENETICS/ 7170	.	.	55	1	34.5	19.4
NUTECH/ 6156	.	.	54	1	34.5	18.6
G-2 GENETICS/ 6142	.	.	51	1	35.4	19.7
Test avg. :	115	54	61	1	35.1	19.2
High avg. :	119	58	68	3	36.9	20.4
Low avg. :	112	48	51	1	32.8	18.2
[3] Test LSD (.05):		8	5	<1	1.3	0.5
[4] Min.TPG-avg. :		51	63	.	35.6	19.9
[5] Max.TPG-avg. :		.	.	1	.	.
[6] Test Coef. Var.:		7	5	24	2	2
No. Entries:	20	19	63	63	63	63

[1] DTM= days to maturity from a seeding date of May 26, 2011 at Warner.

Missing DTM data (.) is indicated if an entry was exposed to a killing frost before maturity.

Note that additional table references [] are explained in Table F.

* Shaded values within a column are included in the top-performance group.

Adjusted to 13% moisture basis.

** Indicates differences between values within a column are non-significant (NS).

Table 2a. Glyphosate-resistant maturity group-0 soybean variety yield, lodging score, and seed protein, and oil averages at South Shore, SD, 2010-2011. Sorted by 2-Yr then by 2011 yield average.

Brand/Variety	DTM [1]	Yield Averages* bu/a (13% Mst.#)		Other 2011 Averages		
		2-Yr	2011	Lodg. Score (1-5)	Prot. % (13% Mst. #)	Oil % (13% Mst. #)
G-2 GENETICS/ 6088	.	54	50	1	36.9	18.5
PRAIRIE BR./ PB0879NRR2	.	52	51	1	36.0	18.3
SODAK GEN./ SD1093RR	.	52	47	1	37.4	18.8
ASGROW/ AG0730	.	51	49	1	37.1	17.9
DAIRYLAND/ DSR-0747/R2Y	.	51	47	1	36.2	18.3
SEEDS 2000/ 2091 RR2YN	.	50	49	1	35.8	18.3
PIONEER BR./ 90Y80	.	50	45	1	36.1	19.6
G-2 GENETICS/ 6098	.	49	49	1	35.3	18.5
PRAIRIE BR./ PB-1120R2	.	48	47	1	37.1	17.6
PRAIRIE BR./ EXP 0913	.	.	54	1	35.3	18.4
MUSTANG/ 06942	.	.	53	1	35.8	18.8
PRAIRIE BR./ PB-0880R2	.	.	53	1	36.1	17.8
STINE/ 08RC68	.	.	52	1	35.4	18.0
ASGROW/ AG0832	.	.	51	1	37.5	18.8
MUSTANG/ 09822	.	.	51	1	36.8	18.6
HEFTY/ H06Y12	.	.	51	1	35.8	18.8
HEFTY/ H09Y10	.	.	51	1	36.3	18.4
REA/ 67G61	.	.	51	1	36.5	18.5
PETERSON FARMS/ 11R08	.	.	51	1	36.4	17.8
PRAIRIE BR./ PB-0721R2	.	.	51	1	36.5	17.7
PRAIRIE BR./ PB-0920R2	.	.	51	1	37.2	17.9
NUTECH/ 6078	.	.	50	1	37.2	18.3
HEFTY/ H07Y12	.	.	50	1	36.7	18.0
REA/ 6764RR	.	.	50	1	35.7	18.6
PRAIRIE BR./ EXP 0912	.	.	50	1	36.6	18.5
HEFTY/ H08Y12	.	.	49	1	36.4	17.5
HEFTY/ H09Y11	.	.	49	1	36.6	17.9
WENSMAN/ W 3099R2	.	.	49	1	37.2	18.0
NUTECH/ 6099	.	.	48	1	35.8	17.8
REA/ 69G22	.	.	48	1	35.1	18.8
PRAIRIE BR./ EXP 0811	.	.	48	1	36.4	18.0
SEEDS 2000/ 2082 RR2Y	.	.	48	1	36.9	17.7
PIONEER BR./ 90Y90	.	.	47	1	38.9	17.6
STINE/ 09RC83	.	.	47	1	37.3	17.8
G-2 GENETICS/ 6092	.	.	47	1	36.5	18.1
PRAIRIE BR./ PB-1080R2	.	.	47	1	35.5	18.5
CHANNEL/ 0905R2	.	.	46	1	35.2	18.8
SODAK GEN./ SD2091RR	.	.	43	1	37.1	16.3
Test avg. :	.	51	49	1	36.4	18.2
High avg. :	.	54	54	1	38.9	19.6
Low avg. :	.	48	43	1	35.1	16.3
[3] Test LSD (.05):	.	NS**	4	0	0.5	0.4
[4] Min.TPG-avg. :	.	48	51	.	38.5	19.3
[5] Max.TPG-avg. :	.	.	.	1	.	.
[6] Test Coef. Var.:	.	4	5	0	1	1
No. Entries:	.	9	38	38	38	38

[1] DTM= days to maturity from a seeding date of June 6, 2011 at South Shore.
Missing DTM data (.) is indicated if an entry was exposed to a killing frost before maturity.
Note that additional table references [] are explained in Table F.
* Shaded values within a column are included in the top-performance group.
Adjusted to 13% moisture basis.
** Indicates differences between values within a column are non-significant (NS).

Table 2b. Glyphosate-resistant maturity group-I soybean variety yield, lodging score, and seed protein, and oil averages at South Shore, SD, 2010-2011. Sorted by 2-Yr then by 2011 yield average.

Brand/Variety	DTM [1]	Yield Averages* bu/a (13% Mst. #)		Other 2011 Averages		
		2-Yr	2011	Lodg. Score (1-5)	Prot. % (13% Mst. #)	Oil % (13% Mst. #)
ASGROW/ AG1031	.	51	50	1	37.6	17.1
ASGROW/ AG1431	.	51	48	1	36.8	18.3
ASGROW/ AG1230	.	50	50	1	36.4	18.2
DAIRYLAND/ DSR-1370/R2Y	.	50	48	1	35.0	17.1
REA/ 76G10	.	50	45	1	37.2	17.1
REA/ 71G20	.	50	43	1	34.8	18.3
ASGROW/ AG1631	.	49	48	1	36.3	17.2
PRAIRIE BR./ PB-1410R2	.	48	47	1	36.1	17.0
REA/ 75G10	.	48	46	1	35.5	17.8
HEFTY/ H16Y11	.	48	45	1	37.5	16.9
REA/ 72G21	.	48	44	1	37.5	17.2
SODAK GEN./ SD2171RR	.	48	43	1	35.4	17.1
PIONEER BR./ 91Y22	.	47	47	1	37.5	18.0
PRAIRIE BR./ PB-1743R2	.	47	46	1	36.0	16.4
NUTECH/ 6145	.	47	43	1	34.6	18.4
PRAIRIE BR./ PB-1722R2	.	47	43	1	37.2	17.0
PRAIRIE BR./ PB-1920R2	.	44	39	1	38.9	16.0
G-2 GENETICS/ 6162	.	.	52	1	35.3	18.0
G-2 GENETICS/ 7110	.	.	51	1	36.7	18.4
MUSTANG/ 11302	.	.	50	1	37.2	16.9
MUSTANG/ 13552	.	.	50	1	37.1	17.2
NUTECH/ 6118	.	.	50	1	35.8	18.0
PRAIRIE BR./ EXP 1511	.	.	50	1	36.8	16.9
ASGROW/ AG1132	.	.	49	1	36.1	17.7
PIONEER BR./ 91Y41	.	.	49	1	34.7	17.9
HEFTY/ H13Y11	.	.	49	1	35.9	16.9
STINE/ 11RC08	.	.	49	1	36.8	17.1
G-2 GENETICS/ 6155	.	.	49	1	36.1	18.1
CHANNEL/ 1405R2	.	.	49	1	36.8	17.8
PETERSON FARMS/ 11R10	.	.	49	1	36.6	18.3
MUSTANG/ 15522	.	.	48	1	35.0	17.2
HEFTY/ H15Y12	.	.	48	1	36.8	17.0
CHANNEL/ 1101R2	.	.	48	1	36.6	17.2
HEFTY/ H12Y12	.	.	47	1	35.5	16.9
HEFTY/ H13Y12	.	.	47	1	37.6	16.9

Table 2b. Glyphosate-resistant maturity group-I soybean variety yield, lodging score, and seed protein, and oil averages at South Shore, SD, 2010-2011 (continued).

Brand/Variety	DTM [1]	Yield Averages* bu/a (13% Mst. #)		Other 2011 Averages		
		2-Yr	2011	Lodg. Score (1-5)	Prot. % (13% Mst. #)	Oil % (13% Mst. #)
CHANNEL/ 1105R2	.	.	47	1	37.4	17.1
PRAIRIE BR./ PB-1320R2	.	.	47	1	35.5	17.0
PRAIRIE BR./ PB-1483R2	.	.	47	1	35.9	16.8
WENSMAN/ W 3120R2	.	.	47	1	37.6	16.7
SEEDS 2000/ 2121 RR2Y	.	.	47	1	37.0	17.0
DAIRYLAND/ DST16-001/R2Y	.	.	46	1	35.6	17.3
REA/ 75G12	.	.	46	1	37.8	17.1
PRAIRIE BR./ PB-1591R2	.	.	46	1	35.2	16.6
PRAIRIE BR./ PB-1523R2	.	.	46	1	37.9	17.2
WENSMAN/ W 3108R2	.	.	46	1	37.1	17.0
WENSMAN/ W 3114R2	.	.	46	1	37.2	17.3
WENSMAN/ W 3140R2	.	.	46	1	35.5	16.8
SODAK GEN./ SD2151RR	.	.	46	1	35.9	16.6
PIONEER BR./ 91Y61	.	.	45	1	36.8	18.0
DAIRYLAND/ DSR-1808/R2Y	.	.	45	1	35.5	16.9
PIONEER BR./ 91Y60	.	.	44	1	38.5	17.1
G-2 GENETICS/ 6142	.	.	43	1	36.5	18.0
PRAIRIE BR./ PB-1823R2	.	.	43	1	37.1	17.1
WENSMAN/ W 3131R2	.	.	43	1	34.7	17.2
G-2 GENETICS/ 7170	.	.	42	1	35.9	18.0
WENSMAN/ W 3180NR2	.	.	42	1	35.7	17.8
NUTECH/ 6156	.	.	41	1	36.4	16.6
WENSMAN/ W 3174NR2	.	.	41	1	37.0	17.6
HEFTY/ H16Y12	.	.	40	1	36.7	18.1
Test avg. :	.	48	46	1	36.4	17.3
High avg. :	.	51	52	1	38.9	18.4
Low avg. :	.	44	39	1	34.6	16.0
[3] Test LSD (.05):	.	NS**	3	0	0.9	0.5
[4] Min.TPG-avg. :	.	44	49	.	38.1	17.9
[5] Max.TPG-avg. :	.	.	.	1	.	.
[6] Test Coef. Var.:	.	4	4	0	2	2
No. Entries:	.	17	59	59	59	59

[1] DTM= days to maturity from a seeding date of June 6, 2011 at South Shore.
 Missing DTM data (.) is indicated if an entry was exposed to a killing frost before maturity.
 Note that additional table references [] are explained in Table F.
 * Shaded values within a column are included in the top-performance group.
 # Adjusted to 13% moisture basis.
 ** Indicates differences between values within a column are non-significant (NS).

Table 3a. Glyphosate-resistant maturity group-0 soybean variety yield, lodging score, and seed protein, and oil averages at Bancroft, SD, 2010-2011. Sorted by 2-Yr then by 2011 yield average.

Brand/Variety	DTM [1]	Yield Averages * bu/a (13% Mst. #)		Other 2011 Averages		
		2-Yr	2011	Lodg. Score (1-5)	Prot. % (13% Mst. #)	Oil % (13% Mst. #)
SODAK GEN./ SD1093RR	105	51	50	1	33.3	20.1
MUSTANG/ 09822	110	.	51	1	33.0	20.9
SODAK GEN./ SD2091RR	116	.	51	1	33.5	18.9
Test avg. :	110	51	51	1	33.3	20.0
High avg. :	116	51	51	1	33.5	20.9
Low avg. :	105	51	50	1	33.0	18.9
[3] Test LSD (.05):		.	1	0	NS**	NS**
[4] Min.TPG-avg. :		51	51	.	.	.
[5] Max.TPG-avg. :		.	.	1	33.0	18.9
[6] Test Coef. Var.:		0	1	1	3	5
No. Entries:	3	1	3	3	3	3

[1] DTM= days to maturity from a seeding date of June 2, 2011 at Bancroft.
 Missing DTM data (.) is indicated if an entry was exposed to a killing frost before maturity.
 Note that additional table references [] are explained in Table F.
 * Shaded values within a column are included in the top-performance group.
 # Adjusted to 13% moisture basis.
 ** Indicates differences between values within a column are non-significant (NS).

Table 3b. Glyphosate-resistant maturity group-I soybean variety yield, lodging score, and seed protein, and oil averages at Bancroft, SD, 2010-2011. Sorted by 2-Yr then by 2011 yield average.

Brand/Variety	DTM [1]	Yield Averages* bu/a (13% Mst. #)		Other 2011 Averages		
		2-Yr	2011	Lodg. Score (1-5)	Prot. % (13% Mst. #)	Oil % (13% Mst. #)
ASGROW/ AG1631	115	60	62	2	34.8	18.9
ASGROW/ AG1431	113	59	60	2	35.3	19.8
PRAIRIE BR./ PB-2278RR	122	59	58	1	34.9	18.1
STINE/ 13RA08	117	58	57	1	35.6	18.5
PRAIRIE BR./ PB-1722R2	118	57	60	1	36.3	18.9
REA/ 71G20	111	57	56	2	34.1	19.1
SODAK GEN./ SD2171RR	121	56	58	1	33.1	19.1
PIONEER BR./ 91Y60	116	56	57	1	34.7	19.7
PRAIRIE BR./ PB-1920R2	122	56	55	1	37.4	17.9
HEFTY/ H19Y11	117	56	53	2	36.5	18.1
REA/ 75G10	114	55	59	1	34.4	19.1
REA/ 72G21	116	54	54	2	36.1	18.6
HEFTY/ H16Y11	119	53	54	2	37.0	18.1
PIONEER BR./ 91Y90	116	53	52	1	35.1	18.7
REA/ 76G10	115	53	51	1	35.0	19.0
NUTECH/ 6145	113	53	49	1	31.3	20.8
MUSTANG/ 11302	111	.	62	2	36.9	18.2
NUTECH/ 6118	113	.	61	3	34.1	19.5
G-2 GENETICS/ 6162	114	.	61	1	33.2	20.2
WENSMAN/ W 3140R2	117	.	61	1	33.6	18.7
SODAK GEN./ SD2151RR	117	.	61	2	35.0	17.7
DAIRYLAND/ DSR-1808/R2Y	117	.	60	1	34.4	18.7
PRAIRIE BR./ PB-1823R2	115	.	60	1	35.8	18.4
PRAIRIE BR./ EXP 1812	117	.	60	1	33.9	18.6
CHANNEL/ 1805R2	115	.	59	1	35.1	19.3
PRAIRIE BR./ PB-1591R2	117	.	59	1	34.7	18.5
HEFTY/ H13Y12	114	.	58	2	35.7	18.6
HEFTY/ H16Y12	118	.	58	1	34.8	19.2
REA/ 78G12	116	.	58	1	35.3	18.3
MUSTANG/ 15522	116	.	57	1	33.0	18.6
MUSTANG/ 19922	118	.	57	1	34.7	18.7
PIONEER BR./ 91Y41	112	.	57	2	32.3	19.6
STINE/ 16RA02	117	.	57	1	35.9	18.9
G-2 GENETICS/ 6155	112	.	57	1	34.2	20.2
REA/ 75G12	117	.	57	1	36.1	19.0
CHANNEL/ 1405R2	113	.	57	1	35.5	19.8
PRAIRIE BR./ PB-2099NRR2	119	.	57	1	34.7	18.7
WENSMAN/ W 3180NR2	118	.	57	2	35.1	19.1
PRAIRIE BR./ EXP 1511	114	.	56	2	34.5	18.7
WENSMAN/ W 3120R2	114	.	56	2	36.0	19.0
HEFTY/ H18Y12	116	.	55	1	35.0	18.6
G-2 GENETICS/ 7170	116	.	55	1	33.5	19.9
WENSMAN/ W 3174NR2	117	.	55	2	35.8	18.5
MUSTANG/ 18922	117	.	54	1	34.0	18.7
CHANNEL/ 1901R2	120	.	54	2	36.5	19.1

Table 3b. Glyphosate-resistant maturity group-I soybean variety yield, lodging score, and seed protein, and oil averages at Bancroft, SD, 2010-2011 (continued).

Brand/Variety	DTM [1]	Yield Averages* bu/a (13% Mst. #)		Other 2011 Averages		
		2-Yr	2011	Lodg. Score (1-5)	Prot. % (13% Mst. #)	Oil % (13% Mst. #)
WENSMAN/ W 3131R2	115	.	54	2	33.8	18.6
PIONEER BR./ 91Y22	113	.	53	1	34.4	19.6
HEFTY/ H17Y12	116	.	53	2	34.6	19.2
ASGROW/ AG1832	117	.	52	2	35.5	18.8
MUSTANG/ 17722	115	.	52	1	34.7	19.3
PRAIRIE BR./ PB-1743R2	117	.	52	1	33.5	18.4
PIONEER BR./ 91Y61	113	.	51	1	34.1	19.7
DAIRYLAND/ DSR-1215/R2	115	.	51	1	33.9	18.4
MUSTANG/ 13552	116	.	50	1	36.1	18.4
G-2 GENETICS/ 6142	115	.	50	1	32.7	19.3
G-2 GENETICS/ 7192	120	.	50	1	38.9	17.2
WENSMAN/ W 3114R2	117	.	50	2	36.8	18.3
NUTECH/ 6156	117	.	48	1	33.6	18.8
CHANNEL/ 1700R2	119	.	48	1	33.9	19.1
PRAIRIE BR./ PB-1942R2	118	.	46	1	34.6	19.9
Test avg. :	116	56	56	1	34.9	18.9
High avg. :	122	60	62	3	38.9	20.8
Low avg. :	111	53	46	1	31.3	17.2
[3] Test LSD (.05):		NS**	6	1	1.4	0.6
[4] Min.TPG-avg. :		53	57	.	37.6	20.2
[5] Max.TPG-avg. :		.	.	1	.	.
[6] Test Coef. Var.:		5	6	33	3	2
No. Entries:	60	16	60	60	60	60

[1] DTM= days to maturity from a seeding date of June 2, 2011 at Bancroft.
 Missing DTM data (.) is indicated if an entry was exposed to a killing frost before maturity.
 Note that additional table references [] are explained in Table F.
 # Adjusted to 13% moisture basis.
 * Shaded values within a column are included in the top-performance group.
 ** Indicates differences between values within a column are non-significant (NS).

Table 3c. Glyphosate-resistant maturity group-II soybean variety yield, lodging score, and seed protein, and oil averages at Bancroft, SD, 2010-2011. Sorted by 2-Yr then by 2011 yield average.

Brand/Variety	DTM [1]	Yield Averages* bu/a (13% Mst. #)		Other 2011 Averages		
		2-Yr	2011	Lodg. Score (1-5)	Prot. % (13% Mst. #)	Oil % (13% Mst. #)
REA/ 80G11	118	61	61	1	35.3	19.5
REA/ 84G20	123	60	60	2	37.9	18.2
PRAIRIE BR./ PB-2419RR2	123	59	58	1	37.7	18.2
PRAIRIE BR./ PB-2558NRR	122	58	60	2	39.3	17.4
ASGROW/ AG2031	119	57	61	2	36.9	18.5
HEFTY/ H20Y11	119	56	56	1	38.3	17.1
PIONEER BR./ 92Y30	122	56	54	2	35.5	18.7
PUBLIC/ SD(LD)05-16137	117	47	50	2	32.5	19.3
WENSMAN/ W 3200NR2	117	.	62	1	36.0	19.5
PRAIRIE BR./ PB-2242R2	120	.	61	2	37.3	17.4
PRAIRIE BR./ EXP 2012	119	.	61	2	35.8	19.1
PRAIRIE BR./ EXP 231	122	.	61	2	37.3	17.7
NUTECH/ 6228	122	.	60	2	36.1	18.8
HEFTY/ H21Y12	118	.	60	1	38.9	17.2
WENSMAN/ W 3230R2	123	.	60	1	37.3	18.1
ASGROW/ AG2232	121	.	59	2	36.9	18.4
ASGROW/ AG2431	123	.	59	1	37.4	18.4
MUSTANG/ 20622	120	.	59	2	36.2	17.9
CHANNEL/ 2000R2	119	.	59	1	36.5	19.0
PRAIRIE BR./ PB-2121R2	121	.	59	1	36.0	19.0
PRAIRIE BR./ PB-2343R2	121	.	59	2	35.3	18.5
PRAIRIE BR./ PB-2391R2	122	.	59	1	36.9	17.8
WENSMAN/ W 3212NR2	120	.	57	2	35.3	18.6
HEFTY/ H20Y12	117	.	56	1	35.4	17.9
DAIRYLAND/ DSR-2011/RR	119	.	56	2	35.7	19.0
DAIRYLAND/ DSR-2105/R2Y	120	.	56	1	34.4	18.6
PRAIRIE BR./ PB-2544R2	122	.	56	2	36.1	17.8
REA/ EXP22R211	121	.	55	2	36.8	17.6
NUTECH/ 6245	122	.	53	2	35.9	18.5
HEFTY/ H22Y11	120	.	53	2	37.1	17.7
REA/ EXP25R211	123	.	52	2	38.8	17.4
NUTECH/ 6244	123	.	51	1	37.1	17.8
PRAIRIE BR./ PB-2221R2	120	.	51	1	36.2	17.4
PUBLIC/ SD(LD)05-16121	119	.	41	2	33.3	18.6
Test avg. :	120	57	57	2	36.5	18.3
High avg. :	123	61	62	2	39.3	19.5
Low avg. :	117	47	41	1	32.5	17.1
[3] Test LSD (.05):		6	4	NS**	1.3	0.4
[4] Min.TPG-avg. :		56	58	.	38.1	19.1
[5] Max.TPG-avg. :		.	.	2	.	.
[6] Test Coef. Var.:		4	5	36	2	1
No. Entries:	34	8	34	34	34	34

[1] DTM= days to maturity from a seeding date of June 2, 2011 at Bancroft.

Missing DTM data (.) is indicated if an entry was exposed to a killing frost before maturity.

Note that additional table references [] are explained in Table F.

* Shaded values within a column are included in the top-performance group.

Adjusted to 13% moisture basis.

** Indicates differences between values within a column are non-significant (NS).

Table 4a. Glyphosate-resistant maturity group-0 soybean variety yield, lodging score, and seed protein, and oil averages at Brookings, SD, 2010-2011. Sorted by 2-Yr then by 2011 yield average.

Brand/Variety	DTM [1]	Yield Averages* bu/a (13% Mst. #)		Other 2011 Averages		
		2-Yr	2011	Lodg. Score (1-5)	Prot. % (13% Mst. #)	Oil % (13% Mst. #)
SODAK GEN./ SD1093RR	114	62	70	2	35.6	20.2
SODAK GEN./ SD2091RR	.	.	73	1	34.8	18.6
MUSTANG/ 09822	114	.	70	3	36.0	19.8
Test avg. :	114	62	71	2	35.5	19.5
High avg. :	114	62	73	3	36.0	20.2
Low avg. :	114	62	70	1	34.8	18.6
[3] Test LSD (.05):	.	.	NS**	1	NS**	0.2
[4] Min.TPG-avg. :	.	.	70	.	34.8	20.2
[5] Max.TPG-avg. :	.	.	.	1	.	.
[6] Test Coef. Var.:	.	.	3	29	2	1
No. Entries:	2	1	3	3	3	3

[1] DTM= days to maturity from a seeding date of May 25, 2011 at Brookings.
 Missing DTM data (.) is indicated if an entry was exposed to a killing frost before maturity.
 Note that additional table references [] are explained in Table F.
 * Shaded values within a column are included in the top-performance group.
 # Adjusted to 13% moisture basis.
 ** Indicates differences between values within a column are non-significant (NS).

Table 4b. Glyphosate-resistant maturity group-I soybean variety yield, lodging score, and seed protein, and oil averages at Brookings, SD, 2010-2011. Sorted by 2-Yr then by 2011 yield average.

Brand/Variety	DTM [1]	Yield Averages* bu/a (13% Mst. #)		Other 2011 Averages		
		2-Yr	2011	Lodg. Score (1-5)	Prot. % (13% Mst. #)	Oil % (13% Mst. #)
ASGROW/ AG1631	.	63	66	2	34.6	18.9
MUSTANG/ 14441	.	63	62	2	35.7	17.8
ASGROW/ AG1431	.	62	68	3	35.3	19.9
NUTECH/ 6145	.	62	66	1	35.2	19.2
REA/ 72G21	.	62	65	3	35.0	18.8
REA/ 76G10	.	62	64	1	33.8	19.3
STINE/ 16RA02	.	62	62	1	34.6	19.0
REA/ 71G20	.	61	66	4	34.6	19.1
REA/ 75G10	.	61	65	1	34.9	19.0
SODAK GEN./ SD2171RR	.	61	62	1	32.8	18.1
PRAIRIE BR./ PB-1722R2	.	61	61	1	34.8	18.9
CHANNEL/ 1700R2	.	61	59	2	33.3	18.7
HEFTY/ H19Y11	.	60	61	3	35.7	18.6
RENK/ RS181NR2	.	60	61	3	33.2	19.6
PIONEER BR./ 91Y90	.	60	60	1	35.7	18.4
MUSTANG/ 18821	.	60	57	2	33.8	19.5
RENK/ RS140NR2	.	59	63	1	34.6	18.8
PIONEER BR./ 91Y60	.	58	59	1	35.5	19.3
PRAIRIE BR./ PB-1920R2	.	57	55	3	35.4	18.3
PRAIRIE BR./ PB-2278RR	.	57	51	2	33.3	18.4
CHANNEL/ 1405R2	.	.	70	2	34.9	19.9
G-2 GENETICS/ 6162	.	.	67	2	34.4	19.7
MUSTANG/ 11302	.	.	66	3	35.6	18.6
NUTECH/ 6118	.	.	66	4	34.0	19.6
DAIRYLAND/ DSR-1215/R2	.	.	66	3	34.3	18.0
PRAIRIE BR./ PB-1743R2	.	.	66	1	35.1	17.7
WENSMAN/ W 3174NR2	.	.	66	1	35.3	18.6
REA/ 78G12	.	.	65	1	35.7	18.4
WENSMAN/ W 3120R2	.	.	65	3	35.5	18.7
WENSMAN/ W 3140R2	.	.	65	2	33.0	18.6
SODAK GEN./ SD2151RR	.	.	65	2	34.1	17.9
MUSTANG/ 13552	.	.	64	3	35.2	18.7
MUSTANG/ 15522	.	.	64	1	32.7	19.0
CHANNEL/ 1805R2	.	.	64	3	35.0	19.5
PRAIRIE BR./ PB-1591R2	.	.	64	2	33.4	18.6
REA/ 75G12	.	.	63	1	36.9	18.6
WENSMAN/ W 3114R2	.	.	63	3	34.4	18.6
HEFTY/ H16Y12	.	.	62	1	35.1	18.9
DAIRYLAND/ DSR-1808/R2Y	.	.	62	1	33.5	18.4
CHANNEL/ 1901R2	.	.	62	2	35.0	19.2

Table 4b. Glyphosate-resistant maturity group-I soybean variety yield, lodging score, and seed protein, and oil averages at Brookings, SD, 2010-2011 (continued).

Brand/Variety	DTM [1]	Yield Averages* bu/a (13% Mst. #)		Other 2011 Averages		
		2-Yr	2011	Lodg. Score (1-5)	Prot. % (13% Mst. #)	Oil % (13% Mst. #)
PRAIRIE BR./ EXP 1511	.	.	62	3	35.5	18.8
PRAIRIE BR./ PB-1823R2	.	.	62	1	35.6	18.3
RENK/ RS141NR2	.	.	62	2	35.2	18.0
G-2 GENETICS/ 6155	.	.	61	1	36.7	19.5
PRAIRIE BR./ PB-2099NRR2	.	.	61	1	33.5	19.0
WENSMAN/ W 3180NR2	.	.	61	2	33.6	19.5
MUSTANG/ 18922	.	.	60	1	33.6	18.7
HEFTY/ H17Y12	.	.	60	2	35.0	18.7
HEFTY/ H18Y12	.	.	60	1	33.2	18.7
G-2 GENETICS/ 6142	.	.	60	2	35.0	19.9
WENSMAN/ W 3131R2	.	.	60	2	33.5	18.4
MUSTANG/ 17722	.	.	59	2	35.4	18.6
PRAIRIE BR./ EXP 1812	.	.	59	1	33.6	18.6
RENK/ RS122R2	.	.	59	2	34.6	18.5
RENK/ RS172NR2	.	.	59	1	34.7	18.9
ASGROW/ AG1832	.	.	58	2	36.1	18.2
G-2 GENETICS/ 7170	.	.	58	2	34.1	19.7
PIONEER BR./ 91Y61	.	.	57	2	36.4	19.3
STINE/ 19RA02	.	.	56	3	34.0	18.7
MUSTANG/ 19922	.	.	55	2	33.7	18.6
PRAIRIE BR./ PB-1942R2	.	.	54	3	32.8	19.4
NUTECH/ 6156	.	.	51	2	32.9	18.4
G-2 GENETICS/ 7192	.	.	51	2	37.3	17.9
Test avg. :	.	61	61	2	34.6	18.8
High avg. :	.	63	70	4	37.3	19.9
Low avg. :	.	57	51	1	32.7	17.7
[3] Test LSD (.05):		NS**	5	1	1.1	0.4
[4] Min.TPG-avg. :		57	65	.	36.3	19.5
[5] Max.TPG-avg. :		.	.	1	.	.
[6] Test Coef. Var.:		5	5	27	2	2
No. Entries:	0	20	63	63	63	63

[1] DTM= days to maturity from a seeding date of May 25, 2011 at Brookings.
Missing DTM data (.) is indicated if an entry was exposed to a killing frost before maturity.
Note that additional table references [] are explained in Table F.
* Shaded values within a column are included in the top-performance group.
Adjusted to 13% moisture basis.
** Indicates differences between values within a column are non-significant (NS).

Table 4c. Glyphosate-resistant maturity group-II soybean variety yield, lodging score, and seed protein, and oil averages at Brookings, SD, 2010-2011. Sorted by 2-Yr then by 2011 yield average.

Brand/Variety	DTM [1]	Yield Averages* bu/a (13% Mst. #)		Other 2011 Averages		
		2-Yr	2011	Lodg. Score (1-5)	Prot. % (13% Mst. #)	Oil % (13% Mst. #)
CHANNEL/ 2000R2	.	61	61	1	34.0	19.4
REA/ 80G11	.	61	60	1	34.7	19.4
RENK/ RS210NR2	.	60	59	1	33.4	19.2
MUSTANG/ 23530	.	60	53	1	34.6	18.2
REA/ 84G20	.	60	53	2	35.2	18.2
PRAIRIE BR./ PB-2419RR2	.	60	51	1	34.1	18.5
ASGROW/ AG2031	.	59	62	2	34.5	19.1
PRAIRIE BR./ PB-2558NRR	.	56	51	1	34.7	17.7
PUBLIC/ SD(LD)05-16137	.	52	49	3	30.3	19.5
WENSMAN/ W 3200NR2	.	.	64	2	35.0	19.3
WENSMAN/ W 3212NR2	.	.	62	1	32.7	18.9
PRAIRIE BR./ EXP 2012	.	.	59	2	34.7	18.9
HEFTY/ H21Y11	.	.	58	2	34.4	18.5
ASGROW/ AG2232	.	.	57	3	33.6	19.1
RENK/ RS202NR2	.	.	57	2	33.9	17.9
NUTECH/ 6228	.	.	56	1	35.0	18.8
HEFTY/ H23Y12	.	.	56	1	32.8	19.2
HEFTY/ H22Y12	.	.	55	1	35.0	17.7
DAIRYLAND/ DSR-2105/R2Y	.	.	55	1	32.7	18.8
REA/ EXP22R211	.	.	55	2	34.2	18.1
PRAIRIE BR./ PB-2121R2	.	.	55	1	34.1	19.3
MUSTANG/ 20622	.	.	54	2	34.3	17.5
HEFTY/ H23Y10	.	.	54	2	34.1	18.2
STINE/ 22RC62	.	.	54	1	32.7	19.0
RENK/ RS222R2	.	.	54	1	35.3	17.3
MUSTANG/ 24322	.	.	53	2	33.5	17.3
DAIRYLAND/ DSR-2011/RR	.	.	53	2	35.0	19.1
STINE/ 20RC32	.	.	53	1	35.2	17.8
PRAIRIE BR./ PB-2343R2	.	.	53	1	32.7	19.0
NUTECH/ 6245	.	.	52	1	34.0	18.5
PRAIRIE BR./ PB-2221R2	.	.	52	1	34.8	17.5
PRAIRIE BR./ PB-2544R2	.	.	52	2	33.7	17.5
ASGROW/ AG2431	.	.	51	1	34.0	18.3
PIONEER BR./ 92Y30	.	.	51	1	33.2	18.9
HEFTY/ H22Y11	.	.	51	2	34.4	17.7
PRAIRIE BR./ PB-2391R2	.	.	51	1	34.0	18.2
WENSMAN/ W 3230R2	.	.	51	1	34.6	18.1
PUBLIC/ SD(LD)05-16121	.	.	51	3	32.3	18.7
PRAIRIE BR./ PB-2242R2	.	.	50	1	35.1	17.2
PRAIRIE BR./ EXP 231	.	.	50	2	34.8	17.5

Table 4c. Glyphosate-resistant maturity group-II soybean variety yield, lodging score, and seed protein, and oil averages at Brookings, SD, 2010-2011 (continued).

Brand/Variety	DTM [1]	Yield Averages* bu/a (13% Mst. #)		Other 2011 Averages		
		2-Yr	2011	Lodg. Score (1-5)	Prot. % (13% Mst. #)	Oil % (13% Mst. #)
PIONEER BR./ 92Y51	.	.	47	2	34.4	18.6
STINE/ 24RB00	.	.	47	1	34.0	18.1
HEFTY/ H24Y12	.	.	45	2	35.4	17.1
REA/ EXP25R211	.	.	44	2	35.3	17.6
Test avg. :	.	59	54	2	34.1	18.4
High avg. :	.	61	64	3	35.4	19.5
Low avg. :	.	52	44	1	30.3	17.1
[3] Test LSD (.05):		NS**	4	<1	1.2	0.6
[4] Min.TPG-avg. :		52	60	.	34.3	19.0
[5] Max.TPG-avg. :		.	.	1	.	.
[6] Test Coef. Var.:		3	5	34	2	2
No. Entries:	.	9	45	45	45	45

[1] DTM= days to maturity from a seeding date of May 25, 2011 at Brookings.
 Missing DTM data (.) is indicated if an entry was exposed to a killing frost before maturity.
 Note that additional table references [] are explained in Table F.
 * Shaded values within a column are included in the top-performance group.
 # Adjusted to 13% moisture basis.
 ** Indicates differences between values within a column are non-significant (NS).

Table 5a. Glyphosate-resistant maturity group-I soybean variety yield, lodging score, and seed protein, and oil averages at Geddes, SD, 2010-2011. Sorted by 2-Yr then by 2011 yield average.

Brand/Variety	DTM [1]	Yield Averages * bu/a (13% Mst. #)		Other 2011 Averages		
		2-Yr	2011	Lodg. Score (1-5)	Prot. % (13% Mst. #)	Oil % (13% Mst. #)
PRAIRIE BR./ PB-2278RR	112	55	50	1	30.1	20.0
PRAIRIE BR./ PB-2042R2	111	53	50	1	35.3	19.7
SODAK GEN./ SD2171RR	109	52	50	1	34.2	19.6
PRAIRIE BR./ PB-1920R2	112	52	47	1	34.6	19.3
PRAIRIE BR./ PB-1942R2	112	50	45	1	32.4	20.6
G-2 GENETICS/ 6162	106	.	53	1	32.1	21.0
G-2 GENETICS/ 7170	108	.	51	1	31.1	21.7
PRAIRIE BR./ PB-1591R2	108	.	50	1	33.0	19.7
PRAIRIE BR./ PB-1823R2	108	.	50	1	33.9	20.0
PRAIRIE BR./ EXP 1812	108	.	50	1	31.9	20.5
PRAIRIE BR./ PB-2123R2	109	.	50	1	35.8	19.3
G-2 GENETICS/ 7192	111	.	48	1	37.1	18.4
PRAIRIE BR./ PB-2099NRR2	108	.	48	1	30.9	20.1
PRAIRIE BR./ PB-1722R2	108	.	47	1	34.2	20.1
SODAK GEN./ SD2151RR	107	.	47	1	33.6	18.7
NUTECH/ 6195	110	.	40	1	34.3	19.1
Test avg. :	109	52	49	1	33.4	19.9
High avg. :	112	55	53	1	37.1	21.7
Low avg. :	106	50	40	1	30.1	18.4
[3] Test LSD (.05):		NS**	6	0	1.8	0.8
[4] Min.TPG-avg. :		50	47	.	35.4	21.0
[5] Max.TPG-avg. :		.	.	1	.	.
[6] Test Coef. Var.:		8	7	0	3	2
No. Entries:	16	5	16	16	16	16

[1] DTM= days to maturity from a seeding date of May 26, 2011 at Geddes.

Missing DTM data (.) is indicated if an entry was exposed to a killing frost before maturity.

Note that additional table references [] are explained in Table F.

* Shaded values within a column are included in the top-performance group.

Adjusted to 13% moisture basis.

** Indicates differences between values within a column are non-significant (NS).

Table 5b. Glyphosate-resistant maturity group-II soybean variety yield, lodging score, and seed protein, and oil averages at Geddes, SD, 2010-2011. Sorted by 2-Yr then by 2011 yield average.

Brand/Variety	DTM [1]	Yield Averages* bu/a (13% Mst. #)		Other 2011 Averages		
		2-Yr	2011	Lodg. Score (1-5)	Prot. % (13% Mst. #)	Oil % (13% Mst. #)
ASGROW/ AG2031	113	54	59	1	32.7	20.0
G-2 GENETICS/ 7250	111	54	54	1	32.5	19.9
DAIRYLAND/ DSR-2011/RR	112	54	52	1	32.9	20.3
HEFTY/ H23Y10	115	53	49	1	33.8	19.0
G-2 GENETICS/ 7290	116	53	49	1	33.4	19.4
PRAIRIE BR./ PB-2419RR2	115	53	49	1	33.2	19.1
PRAIRIE BR./ PB-2558NRR	114	52	53	1	33.9	19.1
PIONEER BR./ 92Y70	115	52	49	1	31.8	19.9
ASGROW/ AG2931	115	52	48	1	31.4	18.7
PIONEER BR./ 92Y30	113	51	54	1	31.3	20.8
G-2 GENETICS/ 7208	111	51	51	1	33.9	19.7
G-2 GENETICS/ 7249	115	49	49	1	32.3	19.7
PUBLIC/ SD(LD)05-16137	110	46	46	1	30.2	19.8
HEFTY/ H22Y12	113	.	58	1	33.9	19.3
DAIRYLAND/ DSR-2240/R2Y	115	.	56	1	35.1	17.5
NUTECH/ 6228	111	.	55	1	33.2	20.2
PRAIRIE BR./ PB-2882R2	117	.	55	1	33.2	17.9
ASGROW/ AG2431	115	.	54	1	33.1	19.3
MUSTANG/ 23530	116	.	54	1	33.9	18.9
MUSTANG/ 24322	112	.	54	1	31.9	19.1
HEFTY/ H20Y12	108	.	54	1	33.4	19.1
CHANNEL/ 2000R2	112	.	54	1	32.9	20.3
PRAIRIE BR./ PB-2544R2	112	.	54	1	31.8	18.8
WENSMAN/ W 3256NR2	116	.	54	1	32.4	18.6
NUTECH/ 6245	115	.	53	1	32.1	19.9
HEFTY/ H23Y12	112	.	53	1	31.7	20.1
PRAIRIE BR./ PB-2242R2	111	.	53	1	33.0	19.2
WENSMAN/ W 3212NR2	111	.	53	1	31.5	20.1
ASGROW/ AG2232	114	.	52	1	33.0	19.9
PIONEER BR./ 92Y73	117	.	52	1	32.1	19.6
DAIRYLAND/ DSR-2105/R2Y	112	.	52	1	29.7	20.2
CHANNEL/ 2402R2	115	.	52	1	33.8	18.8
CHANNEL/ 2105R2	113	.	52	1	32.5	20.2
PRAIRIE BR./ PB-2391R2	115	.	52	1	34.0	18.6
WENSMAN/ W 3200NR2	112	.	52	1	34.1	19.9
WENSMAN/ W 3230R2	116	.	52	1	33.3	19.3
PIONEER BR./ 93M11	117	.	51	1	32.8	19.7
PIONEER BR./ 92Y51	115	.	51	1	32.8	19.8
CHANNEL/ 2400R2	115	.	51	1	31.9	19.5
PRAIRIE BR./ PB-2121R2	111	.	51	1	33.1	20.3

Table 5b. Glyphosate-resistant maturity group-II soybean variety yield, lodging score, and seed protein, and oil averages at Geddes, SD, 2010-2011 (continued).

Brand/Variety	DTM [1]	Yield Averages* bu/a (13% Mst. #)		Other 2011 Averages		
		2-Yr	2011	Lodg. Score (1-5)	Prot. % (13% Mst. #)	Oil % (13% Mst. #)
MUSTANG/ 27721	115	.	49	1	34.1	17.5
CHANNEL/ 2200R2	112	.	49	1	30.5	20.5
ASGROW/ AG2732	118	.	48	1	33.1	18.1
NUTECH/ 6281	117	.	47	1	34.9	18.7
G-2 GENETICS/ 7272	115	.	47	1	34.7	18.9
WENSMAN/ W 3284NR2	117	.	47	1	35.8	17.5
PIONEER BR./ 93Y13	117	.	46	1	29.4	19.9
G-2 GENETICS/ 7226	115	.	46	1	30.9	20.2
PRAIRIE BR./ PB-2221R2	114	.	46	1	34.3	18.1
PRAIRIE BR./ PB-2903R2	115	.	46	1	31.5	19.1
NUTECH/ 6265	114	.	45	1	33.7	19.6
PUBLIC/ SD(LD)05-16121	109	.	45	1	30.5	20.5
PRAIRIE BR./ PB-2743R2	117	.	43	1	37.2	16.9
G-2 GENETICS/ 7262	113	.	40	1	33.6	19.6
Test avg. :	114	52	51	1	32.9	19.3
High avg. :	118	54	59	1	37.2	20.8
Low avg. :	108	46	40	1	29.4	16.9
[3] Test LSD (.05):		NS**	6	0	1.9	0.8
[4] Min.TPG-avg. :		46	53	.	35.4	20.1
[5] Max.TPG-avg. :		.	.	1	.	.
[6] Test Coef. Var.:		8	7	0	3	3
No. Entries:	54	13	54	54	54	54

[1] DTM= days to maturity from a seeding date of May 26, 2011 at Geddes.
 Missing DTM data (.) is indicated if an entry was exposed to a killing frost before maturity.
 Note that additional table references [] are explained in Table F.
 * Shaded values within a column are included in the top-performance group.
 # Adjusted to 13% moisture basis.
 ** Indicates differences between values within a column are non-significant (NS).

Table 6a. Glyphosate-resistant maturity group-I soybean variety yield, lodging score, and seed protein, and oil averages at Beresford, SD, 2010-2011. Sorted by 2-Yr then by 2011 yield average.

Brand/Variety	DTM [1]	Yield Averages* bu/a (13% Mst. #)		Other 2011 Averages		
		2-Yr	2011	Lodg. Score (1-5)	Prot. % (13% Mst. #)	Oil % (13% Mst. #)
PRAIRIE BR./ PB-2042R2	115	65	55	1	38.3	20.5
PRAIRIE BR./ PB-2278RR	118	64	50	1	37.1	19.1
SODAK GEN./ SD2171RR	115	63	51	1	36.7	20.2
PRAIRIE BR./ PB-1942R2	115	63	50	1	36.7	21.1
PRAIRIE BR./ PB-1920R2	114	62	50	2	38.8	19.3
PRAIRIE BR./ PB-2123R2	114	.	58	1	40.1	18.5
G-2 GENETICS/ 6162	113	.	57	1	34.9	21.9
PRAIRIE BR./ PB-1722R2	114	.	55	1	39.1	20.3
PRAIRIE BR./ EXP 1812	115	.	55	1	37.1	20.1
G-2 GENETICS/ 7170	115	.	54	1	36.7	21.0
PRAIRIE BR./ PB-1823R2	116	.	54	1	37.5	20.5
PRAIRIE BR./ PB-1591R2	114	.	53	1	37.8	19.9
SODAK GEN./ SD2151RR	114	.	51	1	37.4	19.5
PRAIRIE BR./ PB-2099NRR2	116	.	49	2	36.8	19.7
G-2 GENETICS/ 7192	114	.	48	2	39.4	19.0
NUTECH/ 6195	118	.	44	1	37.3	19.5
Test avg. :	115	63	52	1	37.6	20.0
High avg. :	118	65	58	2	40.1	21.9
Low avg. :	113	62	44	1	34.9	18.5
[3] Test LSD (.05):		NS**	5	<1	1.5	0.8
[4] Min.TPG-avg. :		62	54	.	38.7	21.2
[5] Max.TPG-avg. :		.	.	1	.	.
[6] Test Coef. Var.:		4	5	33	2	2
No. Entries:	16	5	16	16	16	16

[1] DTM= days to maturity from a seeding date of June 8, 2011 at Beresford.
 Missing DTM data (.) is indicated if an entry was exposed to a killing frost before maturity.
 Note that additional table references [] are explained in Table F.
 * Shaded values within a column are included in the top-performance group.
 # Adjusted to 13% moisture basis.
 ** Indicates differences between values within a column are non-significant (NS).

Table 6b. Glyphosate-resistant maturity group-II soybean variety yield, lodging score, and seed protein, and oil averages at Beresford, SD, 2010-2011. Sorted by 2-Yr then by 2011 yield average.

Brand/Variety	DTM [1]	Yield Averages* bu/a (13% Mst. #)		Other 2011 Averages		
		2-Yr	2011	Lodg. Score (1-5)	Prot. % (13% Mst. #)	Oil % (13% Mst. #)
CHANNEL/ 2000R2	115	64	55	1	37.6	20.2
PIONEER BR./ 92Y51	120	64	54	1	38.2	19.7
ASGROW/ AG2031	115	64	53	1	37.6	20.0
RENK/ RS241R2	116	63	54	1	37.6	19.4
MUSTANG/ 23530	117	63	52	1	37.8	19.6
G-2 GENETICS/ 7250	118	63	52	1	37.0	19.6
PRAIRIE BR./ PB-2419RR2	118	63	51	1	38.6	19.4
ASGROW/ AG2931	122	62	53	1	38.4	19.3
CHANNEL/ 2402R2	115	62	51	1	37.7	19.3
PIONEER BR./ 93Y13	123	62	50	1	37.5	19.8
G-2 GENETICS/ 7249	117	62	50	1	37.9	19.6
STINE/ 29RB22	122	61	51	1	40.4	18.2
PIONEER BR./ 92Y70	122	61	49	1	37.1	19.0
G-2 GENETICS/ 7208	114	60	50	1	37.6	20.3
DAIRYLAND/ DSR-2011/RR	116	60	49	1	37.3	19.8
PRAIRIE BR./ PB-2558NRR	117	60	48	1	38.4	19.1
MUSTANG/ 27721	121	59	51	1	40.1	18.0
G-2 GENETICS/ 7290	123	59	46	1	39.2	19.4
PUBLIC/ SD(LD)05-16137	115	57	50	1	36.2	19.9
MUSTANG/ 25521	121	57	45	1	40.6	17.5
HEFTY/ H21Y12	115	.	57	1	39.9	19.0
CHANNEL/ 2105R2	115	.	56	1	37.8	20.1
PRAIRIE BR./ PB-2121R2	114	.	56	1	37.2	20.2
ASGROW/ AG2232	117	.	55	1	38.1	20.0
STINE/ 2420-4	115	.	55	1	39.6	19.1
PRAIRIE BR./ PB-2391R2	117	.	55	1	37.6	19.3
WENSMAN/ W 3212NR2	115	.	54	1	37.0	19.6
MUSTANG/ 24322	116	.	53	1	36.7	19.1
NUTECH/ 6228	116	.	53	1	37.6	19.8
HEFTY/ H25Y12	116	.	53	1	36.0	19.1
WENSMAN/ W 3200NR2	114	.	53	1	37.6	20.4
ASGROW/ AG2431	117	.	52	1	38.3	19.5
NUTECH/ 6265	117	.	52	1	37.7	19.6
HEFTY/ H22Y11	117	.	52	1	37.9	19.4
G-2 GENETICS/ 7272	122	.	52	1	38.3	18.9
PRAIRIE BR./ PB-2242R2	118	.	52	1	37.3	19.0
PRAIRIE BR./ PB-2882R2	118	.	52	1	38.9	18.1
NUTECH/ 6245	117	.	51	1	36.9	19.7
HEFTY/ H20Y11	114	.	51	1	38.5	18.7
STINE/ 22RC62	115	.	51	1	36.8	20.1

Table 6b. Glyphosate-resistant maturity group-II soybean variety yield, lodging score, and seed protein, and oil averages at Beresford, SD, 2010-2011 (continued).

Brand/Variety	DTM [1]	Yield Averages* bu/a (13% Mst. #)		Other 2011 Averages		
		2-Yr	2011	Lodg. Score (1-5)	Prot. % (13% Mst. #)	Oil % (13% Mst. #)
CHANNEL/ 2400R2	118	.	51	1	38.4	19.1
PRAIRIE BR./ PB-2544R2	116	.	51	1	37.0	19.1
PRAIRIE BR./ PB-2743R2	121	.	51	1	41.4	18.0
PRAIRIE BR./ PB-2903R2	123	.	51	1	37.4	19.4
WENSMAN/ W 3230R2	116	.	51	1	37.7	19.7
PIONEER BR./ 93M11	123	.	50	1	37.7	20.0
PIONEER BR./ 92Y73	120	.	50	1	37.7	19.5
NUTECH/ 6281	122	.	50	1	39.2	19.1
STINE/ 24RB00	117	.	50	1	37.9	19.7
CHANNEL/ 2200R2	115	.	50	1	36.7	19.5
WENSMAN/ W 3256NR2	116	.	50	1	37.5	19.1
PUBLIC/ SD(LD)05-16121	115	.	50	1	36.5	19.6
DAIRYLAND/ DSR-2105/R2Y	114	.	49	1	36.8	20.0
DAIRYLAND/ DSR-2240/R2Y	117	.	49	1	38.5	18.5
G-2 GENETICS/ 7262	117	.	49	1	36.9	20.3
WENSMAN/ W 3284NR2	122	.	49	1	40.6	18.6
G-2 GENETICS/ 7226	117	.	48	1	37.1	19.7
RENK/ RS222R2	117	.	48	1	38.4	18.4
ASGROW/ AG2732	118	.	47	1	38.1	18.9
HEFTY/ H26Y11	118	.	47	1	40.4	17.5
HEFTY/ H24Y12	117	.	47	1	38.5	18.8
RENK/ RS282R2	116	.	47	1	37.9	18.6
PRAIRIE BR./ PB-2221R2	114	.	44	1	38.0	18.5
Test avg. :	117	61	51	1	38.0	19.3
High avg. :	123	64	57	1	41.4	20.4
Low avg. :	114	57	44	1	36.0	17.5
[3] Test LSD (.05):		NS**	4	<1	1.0	0.8
[4] Min.TPG-avg. :		57	53	.	40.5	19.7
[5] Max.TPG-avg. :		.	.	.	.	.
[6] Test Coef. Var.:		4	5	19	2	3
No. Entries:	63	20	63	63	63	63

[1] DTM= days to maturity from a seeding date of June 8, 2011 at Beresford.
 Missing DTM data (.) is indicated if an entry was exposed to a killing frost before maturity.
 Note that additional table references [] are explained in Table F.
 * Shaded values within a column are included in the top-performance group.
 # Adjusted to 13% moisture basis.
 ** Indicates differences between values within a column are non-significant (NS).

Table 7a. Non-glyphosate-resistant maturity group-0 and -I soybean variety yield and lodging averages, South Shore, 2010-2011.

BRAND/VARIETY	DTM [1]	Yield & Lodging score averages by maturity group					
		MG-0			MG-I		
		Yield-bu/a #		2011 Lodg. (1-5) [2]	Yield-bu/a #		2011 Lodg. (1-5) [2]
		2-yr	2011		2-yr	2011	
PUBLIC/ SD08CV-0018	.	.	49	1	.	.	.
PUBLIC/ SD03-2154	.	51	48	1	.	.	.
PUBLIC/ SD07CV-539	.	51	47	1	.	.	.
PUBLIC/ SD06-525	.	47	46	1	.	.	.
PUBLIC/ SD08CV-0016	.	.	45	1	.	.	.
PUBLIC/ SD08CV-0019	.	.	45	1	.	.	.
PUBLIC/ SD07CV-528	.	48	45	1	.	.	.
PUBLIC/ SD06-418	.	.	44	1	.	.	.
PUBLIC/ SD08CV-0015	.	.	43	1	.	.	.
PUBLIC/ SD06-455	.	.	43	1	.	.	.
PUBLIC/ SURGE	.	48	43	1	.	.	.
RICHLAND ORG./ MK831	.	.	42	1	.	.	.
PUBLIC/ SD04CV-613	.	47	42	1	.	.	.
PUBLIC/ SD08CV-0024	.	.	41	1	.	.	.
PUBLIC/ SD06-415	.	.	41	1	.	.	.
SK FOOD INTL/ SK0786	.	.	40	1	.	.	.
SK FOOD INTL/ SK095	.	.	39	1	.	.	.
PUBLIC/ SD04CV-611	.	45	39	1	.	.	.
PUBLIC/ SD07CV-935	.	43	38	1	.	.	.
RICHLAND ORG./ MK0508	.	44	36	1	.	.	.
PUBLIC/ SD06-322	.	41	36	1	.	.	.
SK FOOD INTL/ SK9801	47	47	1
PUBLIC/ SD08CV-1061	46	1
PUBLIC/ SD08CV-1066	46	1
PUBLIC/ SD08CV-1078	46	1
PUBLIC/ SD08CV-1041	45	1
PUBLIC/ SD07CV-523	45	1
PUBLIC/ SD08CV-1080	44	1
PUBLIC/ DEUEL	45	44	1
PUBLIC/ SD08CV-1043	43	1
PUBLIC/ SD08CV-1211	43	1
PUBLIC/ SD05-240	47	43	1
RICHLAND ORG./ MK9101	44	42	1
PUBLIC/ SD07CV-997	42	1
RICHLAND ORG./ MK1016	40	40	1
PUBLIC/ SD07CV-673	38	1
Test avg.:	.	46	42	1	45	44	1
High avg.:	.	51	49	1	47	47	1
Low avg.:	.	41	36	1	40	38	1
[3] LSD (.05):	.	NS**	5	.	NS**	3	.
[4] Min. TPG avg.:	.	41	45	.	40	44	.
[5] Max. TPG avg.:	.	.	.	1	.	.	1
[6] Coef. Var.:	.	7	6	0	5	5	0

[1] DTM= days to maturity from seeding dates of June 6 at South Shore.
 Note that additional table references are explained in Table F.
 * Shaded values within a column are included in the top-performance group.
 # Adjusted to 13% moisture basis.
 ** Indicates differences between values within a column are non-significant (NS).

Table 7b. Non-glyphosate resistant maturity group-0 and -I soybean variety protein and oil averages-South Shore, 2011. Sorted by maturity group and protein average.

		Protein & oil averages by maturity group #			
		MG-0		MG-I	
		Protein %	Oil %	Protein %	Oil %
SK FOOD INTL/ SK0786	.	41.8	17.8	.	.
PUBLIC/ SD07CV-935	.	39.9	17.2	.	.
SK FOOD INTL/ SK095	.	39.4	16.5	.	.
PUBLIC/ SURGE	.	39.3	18.6	.	.
RICHLAND ORG./ MK831	.	39.2	17.4	.	.
PUBLIC/ SD08CV-0024	.	39.2	18.3	.	.
PUBLIC/ SD04CV-611	.	38.7	18.7	.	.
PUBLIC/ SD04CV-613	.	38.5	17.8	.	.
PUBLIC/ SD06-525	.	38.3	17.8	.	.
PUBLIC/ SD08CV-0019	.	38.2	18.4	.	.
PUBLIC/ SD08CV-0016	.	38.0	18.9	.	.
PUBLIC/ SD03-2154	.	37.9	18.8	.	.
PUBLIC/ SD08CV-0015	.	37.6	18.0	.	.
RICHLAND ORG./ MK0508	.	37.5	16.0	.	.
PUBLIC/ SD06-455	.	36.9	19.3	.	.
PUBLIC/ SD06-415	.	36.9	20.1	.	.
PUBLIC/ SD06-418	.	36.9	19.0	.	.
PUBLIC/ SD08CV-0018	.	36.8	19.8	.	.
PUBLIC/ SD06-322	.	36.7	20.1	.	.
PUBLIC/ SD07CV-528	.	36.5	19.4	.	.
PUBLIC/ SD07CV-539	.	35.9	18.9	.	.
PUBLIC/ SD07CV-673	.	.	.	38.8	17.1
RICHLAND ORG./ MK1016	.	.	.	38.4	16.9
RICHLAND ORG./ MK9101	.	.	.	38.2	20.9
PUBLIC/ SD08CV-1061	.	.	.	38.0	17.8
PUBLIC/ SD08CV-1211	.	.	.	37.8	18.6
PUBLIC/ DEUEL	.	.	.	37.6	17.4
PUBLIC/ SD05-240	.	.	.	37.6	15.9
PUBLIC/ SD08CV-1041	.	.	.	37.2	18.2
PUBLIC/ SD08CV-1078	.	.	.	37.2	17.8
PUBLIC/ SD08CV-1066	.	.	.	36.9	18.3
PUBLIC/ SD07CV-523	.	.	.	36.9	18.9
SK FOOD INTL/ SK9801	.	.	.	36.8	20.6
PUBLIC/ SD08CV-1043	.	.	.	36.8	18.2
PUBLIC/ SD07CV-997	.	.	.	36.6	18.3
PUBLIC/ SD08CV-1080	.	.	.	36.3	18.1
Test avg. :	.	38.1	18.4	37.4	18.2
High avg. :	.	41.8	20.1	38.8	20.9
Low avg. :	.	35.9	16.0	36.3	15.9
[3] LSD(.05) :	.	0.9	0.5	1.3	2.1
[4] Min. TPG avg.:	.	41.0	19.7	37.5	18.9
[6] Coef. Var. :	.	1	2	2	7

[1] DTM= days to maturity from seeding dates of June 6 at South Shore.

Note that additional table references are explained in Table F.

* Shaded values within a column are included in the top-performance group.

Adjusted to 13% moisture basis.

** Indicates differences between values within a column are non-significant (NS).

Table 8a. Non-glyphosate resistant maturity group-0, -I, and -II soybean variety yield and lodging averages- Brookings, 2010-2011.

BRAND/VARIETY	DTM [1]	Yield & lodging score averages by maturity group								
		MG-0			MG-I			MG-II		
		Yield-bu/a #		2011 Lodg. (1-5) [2]	Yield-bu/a #		2011 Lodg. (1-5) [2]	Yield-bu/a #		2011 Lodg. (1-5) [2]
		2-yr	2011		2-yr	2011		2-yr	2011	
PUBLIC/ SD08CV-0018	.	.	68	2	.	.	.	.	.	.
RICHLAND ORG./ MK0508	.	.	65	5	.	.	.	.	.	.
PUBLIC/ SD07CV-539	.	59	63	2	.	.	.	.	.	.
PUBLIC/ SD06-455	.	.	63	4	.	.	.	.	.	.
PUBLIC/ SD08CV-0024	.	.	62	1	.	.	.	.	.	.
PUBLIC/ SD07CV-935	.	57	62	1	.	.	.	.	.	.
PUBLIC/ SD08CV-0015	.	.	61	2	.	.	.	.	.	.
PUBLIC/ SD08CV-0016	.	.	61	2	.	.	.	.	.	.
PUBLIC/ SD03-2154	.	56	61	2	.	.	.	.	.	.
PUBLIC/ SD06-415	.	.	61	2	.	.	.	.	.	.
PUBLIC/ SD08CV-0019	.	.	60	1	.	.	.	.	.	.
PUBLIC/ SD04CV-611	.	54	60	2	.	.	.	.	.	.
PUBLIC/ SURGE	.	57	59	3	.	.	.	.	.	.
PUBLIC/ SD06-418	.	.	58	3	.	.	.	.	.	.
PUBLIC/ SD06-525	.	57	58	2	.	.	.	.	.	.
PUBLIC/ SD04CV-613	.	54	57	2	.	.	.	.	.	.
PUBLIC/ SD06-322	.	48	57	2	.	.	.	.	.	.
PUBLIC/ SD07CV-528	.	54	56	3	.	.	.	.	.	.
RICHLAND ORG./ MK831	.	.	55	2	.	.	.	.	.	.
PUBLIC/ SD08CV-1066	60	1	.	.	.	.
PUBLIC/ SD08CV-1043	59	1	.	.	.
PUBLIC/ SD08CV-1078	58	1	.	.	.
PUBLIC/ DEUEL	59	58	4	.	.	.
PUBLIC/ SD08CV-1061	57	2	.	.	.
PUBLIC/ SD07CV-523	55	57	2	.	.	.
SK FOOD INTL/ SK9801	56	2	.	.	.
PUBLIC/ SD08CV-1211	56	2	.	.	.
PUBLIC/ SD07CV-997	56	56	2	.	.	.
PUBLIC/ SD08CV-1041	55	2	.	.	.
PUBLIC/ SD08CV-1080	55	3	.	.	.
RICHLAND ORG./ MK1016	45	54	4	.	.	.
PUBLIC/ SD05-240	59	51	2	.	.	.
PUBLIC/ SD07CV-673	52	45	2	.	.	.
RICHLAND ORG./ MK9101	46	43	2	.	.	.
PUBLIC/ DAVISON	58	55	1
PUBLIC/ SD07CV-770	51	48	1
PUBLIC/ SD08CV-2094	43	2
PUBLIC/ SD07CV-800	49	43	2
PUBLIC/ SD08CV-2080	41	1

Table 8a. Non-glyphosate resistant maturity group-0, -I, and -II soybean variety yield and lodging averages- Brookings, 210-2011 (Continued).

BRAND/VARIETY	DTM [1]	Yield & lodging score averages by maturity group								
		MG-0			MG-I			MG-II		
		Yield-bu/a #		2011 Lodg. (1-5) [2]	Yield-bu/a #		2011 Lodg. (1-5) [2]	Yield-bu/a #		2011 Lodg. (1-5) [2]
		2-yr	2011		2-yr	2011		2-yr	2011	
PUBLIC/ SD08CV-2083	41	2
PUBLIC/ SD07CV-603	53	40	3
PUBLIC/ SD08CV-2088	39	1
PUBLIC/ SD08CV-2096	35	1
PUBLIC/ SD08CV-2102	34	1
PUBLIC/ SD07CV-631	46	34	1
PUBLIC/ SD07CV-367	46	33	3
Test avg.:	.	55	60	2	50	53	2	50	40	2
High avg.:	.	59	68	5	59	60	4	58	55	3
Low avg.:	.	48	55	1	45	43	1	46	33	1
[3] LSD (.05):	.	NS**	4	1	NS	5	1	NS	4	1
[4] Min. TPG avg.:	.	48	65	.	45	56	.	46	52	.
[5] Max. TPG avg.:	.	.	.	1	.	.	1	.	.	1
[6] Coef. Var.:	.	.	4	26	5	6	27	4	6	31

[1] DTM= days to maturity from seeding dates of May 25 at Brookings.

Note that additional table references are explained in Table F.

* Shaded values within a column are included in the top-performance group.

Adjusted to 13% moisture basis.

** Indicates differences between values within a column are non-significant (NS).

Table 8b. Non-glyphosate resistant maturity group-O, -I, and -II soybean variety protein and oil averages- Brookings, 2011. Sorted by maturity group & protein average

BRAND/VARIETY	DTM [1]	Protein & oil averages by maturity group #					
		MG-0		MG-I		MG-II	
		Protein %	Oil %	Protein %	Oil %	Protein %	Oil %
PUBLIC/ SD08CV-0016	.	37.9	19.6	.	.	.	.
PUBLIC/ SURGE	.	37.0	20.1	.	.	.	.
PUBLIC/ SD08CV-0015	.	36.9	19.4	.	.	.	.
PUBLIC/ SD04CV-611	.	36.6	20.2	.	.	.	.
PUBLIC/ SD07CV-935	.	36.6	19.2	.	.	.	.
PUBLIC/ SD08CV-0019	.	36.4	19.7	.	.	.	.
PUBLIC/ SD08CV-0024	.	36.3	20.1	.	.	.	.
PUBLIC/ SD04CV-613	.	35.9	20.3	.	.	.	.
PUBLIC/ SD06-322	.	35.6	20.9	.	.	.	.
PUBLIC/ SD06-525	.	35.5	20.1	.	.	.	.
PUBLIC/ SD06-418	.	35.5	20.2	.	.	.	.
PUBLIC/ SD07CV-528	.	35.4	20.4	.	.	.	.
PUBLIC/ SD06-455	.	35.2	20.9	.	.	.	.
RICHLAND ORG./ MK0508	.	35.2	18.6	.	.	.	.
RICHLAND ORG./ MK831	.	35.1	19.4	.	.	.	.
PUBLIC/ SD03-2154	.	35.0	20.5	.	.	.	.
PUBLIC/ SD08CV-0018	.	34.7	21.2	.	.	.	.
PUBLIC/ SD06-415	.	34.7	20.4	.	.	.	.
PUBLIC/ SD07CV-539	.	33.7	20.2	.	.	.	.
SK FOOD INTL/ SK9813	.	.	.	37.5	21.1	.	.
RICHLAND/ ORG. MK1016	.	.	.	37.4	17.1	.	.
PUBLIC/ SD08CV-1211	.	.	.	37.3	19.5	.	.
RICHLAND ORG./ MK9101	.	.	.	35.9	20.9	.	.
PUBLIC/ SD07CV-673	.	.	.	35.3	18.9	.	.
PUBLIC/ SD07CV-523	.	.	.	35.3	20.2	.	.
PUBLIC/ SD08CV-1061	.	.	.	34.9	19.6	.	.
PUBLIC/ SD08CV-1078	.	.	.	34.6	19.4	.	.
SK FOOD INTL/ SK9801	.	.	.	34.5	23.0	.	.
PUBLIC/ DEUEL	.	.	.	34.4	19.6	.	.
PUBLIC/ SD08CV-1041	.	.	.	34.2	19.7	.	.
PUBLIC/ SD05-240	.	.	.	34.0	18.3	.	.
PUBLIC/ SD08CV-1043	.	.	.	33.9	20.0	.	.
PUBLIC/ SD08CV-1066	.	.	.	33.8	19.9	.	.
PUBLIC/ SD08CV-1080	.	.	.	33.7	20.2	.	.
PUBLIC/ SD07CV-997	.	.	.	33.1	20.5	.	.
PUBLIC/ SD08CV-2088	37.2	17.7
PUBLIC/ SD07CV-631	36.9	17.3
PUBLIC/ SD08CV-2096	36.6	17.9
PUBLIC/ SD08CV-2080	36.6	18.4
PUBLIC/ SD08CV-2094	35.5	18.3

Table 8b. Non-glyphosate resistant maturity group-O, -I, and -II soybean variety protein and oil averages- Brookings, 2011. (continued).

BRAND/VARIETY	DTM [1]	Protein & oil averages by maturity group #					
		MG-0		MG-I		MG-II	
		Protein %	Oil %	Protein %	Oil %	Protein %	Oil %
PUBLIC/ SD08CV-2102	35.5	18.1
PUBLIC/ SD08CV-2083	35.4	18.0
PUBLIC/ SD07CV-770	35.1	18.6
PUBLIC/ SD07CV-603	34.9	18.4
PUBLIC/ SD07CV-800	34.3	18.7
PUBLIC/ SD07CV-367	34.0	19.7
PUBLIC/ DAVISON	33.0	17.6
Test avg. :	.	35.7	20.1	35.0	19.9	35.4	18.2
High avg. :	.	37.9	21.2	37.5	23.0	37.2	19.7
Low avg. :	.	33.7	18.6	33.1	17.1	33.0	17.3
[3] LSD(.05) :	.	0.9	1.0	1.3	1.0	0.8	0.4
[4] Min. TPG avg.:	.	37.0	20.2	36.2	22.1	36.5	19.4
[6] Coef. Var. :	.	2	3	2	3	1	1

[1] DTM= days to maturity from seeding dates of May 25 at Brookings.

Note that additional table references are explained in Table F.

* Shaded values within a column are included in the top-performance group.

Adjusted to 13% moisture basis.

** Indicates differences between values within a column are non-significant (NS).

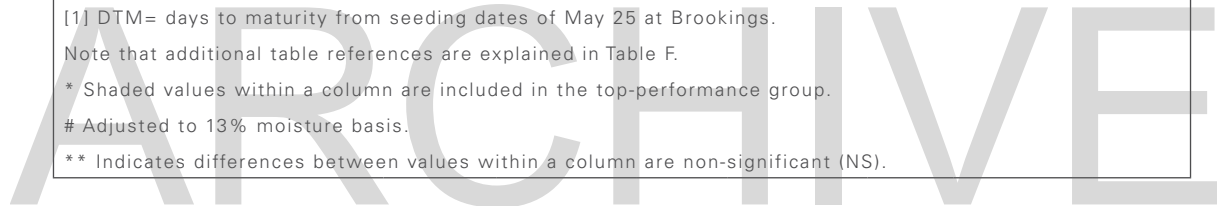


Table 9a. Non-glyphosate resistant maturity group-I and -II soybean variety yield and lodging averages- Beresford, 2010-2011.

BRAND/VARIETY	DTM [1]	Yield & lodging score averages by maturity group					
		MG-I			MG-II		
		Yield-bu/a #		2011 Lodg. (1-5) [2]	Yield-bu/a #		2011 Lodg. (1-5) [2]
		2-yr	2011		2-yr	2011	
PUBLIC/ SD08CV-1061	108	.	49	1	.	.	.
PUBLIC/ SD08CV-1041	108	.	48	1	.	.	.
PUBLIC/ SD08CV-1043	108	.	47	1	.	.	.
PUBLIC/ SD08CV-1066	107	.	47	1	.	.	.
PUBLIC/ SD08CV-1211	107	.	47	1	.	.	.
PUBLIC/ SD08CV-1078	109	.	46	1	.	.	.
PUBLIC/ SD07CV-523	107	.	46	1	.	.	.
PUBLIC/ SD07CV-673	116	.	46	1	.	.	.
PUBLIC/ SD07CV-997	110	.	45	2	.	.	.
PUBLIC/ DEUEL	108	55	45	1	.	.	.
RICHLAND/ ORG. MK9101	105	52	44	1	.	.	.
PUBLIC/ SD08CV-1080	107	.	44	1	.	.	.
RICHLAND/ ORG. MK1016	107	45	42	2	.	.	.
PUBLIC/ DAVISON	114	.	.	.	62	52	1
PUBLIC/ SD08CV-2080	114	.	.	.	.	46	1
PUBLIC/ SD08CV-2102	120	.	.	.	.	46	1
PUBLIC/ SD08CV-2094	115	.	.	.	.	45	1
PUBLIC/ SD08CV-2096	119	.	.	.	.	45	1
PUBLIC/ SD08CV-2088	120	.	.	.	.	44	1
PUBLIC/ SD07CV-367	116	.	.	.	55	44	1
PUBLIC/ SD07CV-603	119	.	.	.	58	43	1
PUBLIC/ SD07CV-631	118	.	.	.	57	43	2
PUBLIC/ SD07CV-770	115	.	.	.	54	42	1
PUBLIC/ SD08CV-2083	119	.	.	.	.	41	1
PUBLIC/ SD07CV-800	119	.	.	.	53	41	1
Test avg.:	112	51	46	1	57	44	1
High avg.:	120	55	49	2	62	52	2
Low avg. :	105	45	42	1	53	41	1
[3] LSD (.05):	120	NS**	NS	1	NS	4	NS
[4] Min. TPG avg.:	120	45	42	.	53	49	.
[5] Max. TPG avg.:	120	4	.	1	.	.	2
[6] Coef. Var.:	5		6	30	4	6	43

[1] DTM= days to maturity from seeding dates of June 8 at Beresford.

Note that additional table references are explained in Table F.

* Shaded values within a column are included in the top-performance group.

Adjusted to 13% moisture basis.

** Indicates differences between values within a column are non-significant (NS).

Table 9b. Non-glyphosate resistant maturity group-I and -II soybean variety protein and oil averages- Beresford, 2011. Sorted by maturity group & protein average

BRAND/VARIETY	DTM [1]	Protein & oil percentages by maturity group #			
		MG-I		MG-II	
		Protein %	Oil %	Protein %	Oil %
RICHLAND ORG./ MK1016	107	38.2	19.7	.	.
PUBLIC/ SD07CV-673	116	37.3	20.5	.	.
PUBLIC/ SD08CV-1211	107	36.9	21.1	.	.
RICHLAND ORG./ MK9101	105	36.5	21.8	.	.
PUBLIC/ DEUEL	108	36.0	20.7	.	.
PUBLIC/ SD07CV-523	107	35.5	22.3	.	.
PUBLIC/ SD08CV-1078	109	34.6	20.7	.	.
PUBLIC/ SD07CV-997	110	34.5	21.8	.	.
PUBLIC/ SD08CV-1061	108	34.2	20.7	.	.
PUBLIC/ SD08CV-1041	108	33.7	21.1	.	.
PUBLIC/ SD08CV-1080	107	33.5	21.4	.	.
PUBLIC/ SD08CV-1066	107	33.5	21.4	.	.
PUBLIC/ SD08CV-1043	108	32.9	21.2	.	.
PUBLIC/ SD07CV-631	118	.	.	39.0	18.4
PUBLIC/ SD08CV-2088	120	.	.	38.6	19.0
PUBLIC/ SD08CV-2083	119	.	.	38.2	18.8
PUBLIC/ SD08CV-2102	120	.	.	37.7	18.6
PUBLIC/ SD08CV-2096	119	.	.	37.7	19.0
PUBLIC/ SD08CV-2080	114	.	.	37.4	19.6
PUBLIC/ SD07CV-603	119	.	.	37.2	19.3
PUBLIC/ SD07CV-367	116	.	.	36.9	20.0
PUBLIC/ SD07CV-800	119	.	.	36.9	20.1
PUBLIC/ SD07CV-770	115	.	.	36.8	20.3
PUBLIC/ SD08CV-2094	115	.	.	36.6	19.8
PUBLIC/ DAVISON	114	.	.	36.0	19.6
Test avg. :	112	35.2	21.1	37.4	19.4
High avg. :	120	38.2	22.3	39.0	20.3
Low avg. :	105	32.9	19.7	36.0	18.4
[3] LSD(.05) :		1.4	1.0	1.5	0.8
[4] Min. TPG avg.:		36.9	21.4	37.6	19.6
[6] Coef. Var. :		2	3	2	2

[1] DTM= days to maturity from seeding dates of June 8 at Beresford.

Note that additional table references are explained in Table F.

* Shaded values within a column are included in the top-performance group.

Adjusted to 13% moisture basis.

** Indicates differences between values within a column are non-significant (NS).



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Soybean production is greatly affected by variety selection.

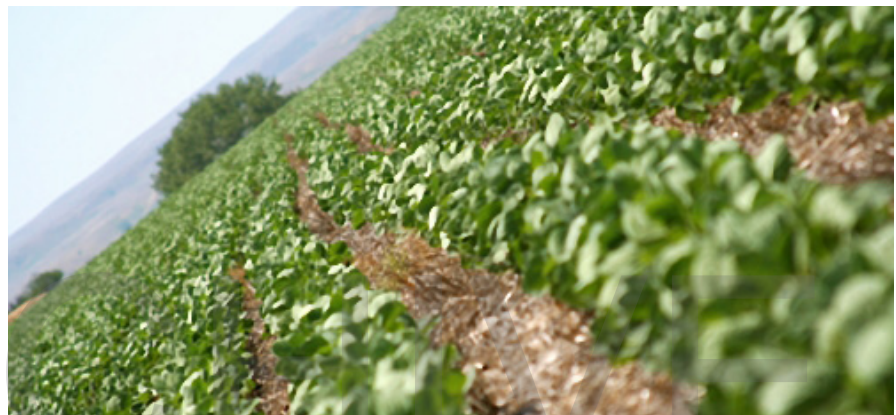
This circular reports the agronomic performance of entries in the 2012 South Dakota performance trials for glyphosate-resistant. Major factors in variety selection include yield, maturity, lodging resistance, and *Phytophthora* root rot resistance.

Major factors in variety selection include:

- Yield
- Maturity
- Lodging resistance
- *Phytophthora* root rot resistance

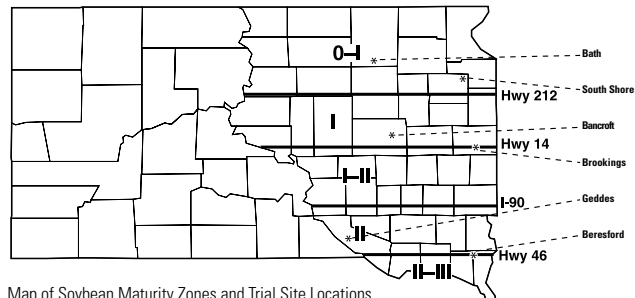
Soybean Variety Performance Trials Results - Bancroft

Robert G. Hall | SDSU Extension Agronomist
Kevin K. Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager



Soybean production is greatly affected by variety selection. This circular reports the agronomic performance of entries in the 2012 South Dakota performance trials for glyphosate-resistant and non-glyphosate-resistant soybean varieties. Major factors in variety selection include yield, maturity, lodging resistance, and *Phytophthora* root rot resistance.

Soybean varieties are classified according to maturity groups that in turn are adapted to maturity zones. Maturity zones are based on day length and therefore are affected by latitude. The very early maturity group-00 varieties are best suited to Canada and bordering regions of the U.S., while maturity group-0, group-I, and group-II varieties are suited to South Dakota. The later groups III-VIII are suited to Iowa, Nebraska, and south to Texas.



Map of Soybean Maturity Zones and Trial Site Locations

Inoculation of seed with the appropriate nitrogen-fixing bacterium is a good practice. Always inoculate if seeding soybeans in soils not previously cropped to soybeans. On older soybean ground, there is no guarantee that N-fixing bacteria will be present to inoculate the seed, thus, consider inoculation cheap insurance that N-fixing bacteria will be present.

Use care when evaluating the yield performance of entries in each table. Entries tested for two years may also have a top yield group value in the 2012 yield column. Each company selects the appropriate maturity group trial (maturity group-0, -I, or -II trial) and locations for their

entries. There are, however, no standard regional or national check varieties for maturity. It is suggested you compare the reported maturity rating of every entry you are considering with the days to maturity (DTM) calculated for each entry at each location.

Phytophthora root rot (PRR) is an important soybean disease in South Dakota and is often controlled or managed with the use of resistant varieties. Resistance to *Phytophthora* root rot is fungus-race specific. Thus, resistance to one PRR race does not always impart resistance to other races. Knowledge of the prevalent PRR races in your area is important. If you suspect you have a PRR problem, using

varieties with a wide range of root resistance is strongly suggested. The gene resistance of each variety to PRR is supplied by each seed company (proprietary entries) or by the USDA (Uniform Soybean Tests, Northern States, public entries). The PRR gene for each entry, as given by the seed company is reported in each yield table. Specific race resistance to PRR can be determined by cross-referencing the PRR gene reported in each yield table with table A (glyphosate-resistant entries) to find the resistant races. Currently, races -1, -3, and -4 are the most common races in South Dakota.

Table A. *Phytophthora* Root Rot race resistance by gene code and name.

PRR Code	Gene Name	Race Resistance
0	rps1	None
1A	Rps1, Rps1a	1-2,10-11,13,15-18,24
1B	Rps1b	1,3-9,13-15,18,21-22
1C	Rps1c	1-3,6-11,13,15,17,21,23-24
1K	Rps1k	1-11,13-15,17-18,21-22,24
2	Rps2	1-5,9-20
3,3a	Rps3, 3a	1-5,8-9,11,13-14,16,18,23,25
4	Rps4	1-4,10,12-16,18-21,25
5	Rps5	1-5,8-9,11-14,18,20,25
6	Rps6	1-4,10,12,14-16,18-21,25
7	Rsp7	16,18,19
K6	Rps1k, Rps6	1-22,24-25
C3	Rps1c, Rps3	1-10,13-18,22-25
B3	Rps1b	1-9,13-16,18,21-23,25
NR	NR	Not Reported

Table B. General test information.	
LOCATION	Glyphosate resistant soybean trial results - MG-0, -I, and -II
COOPERATOR:	E. Weerts Farm Inc. - Bancroft
SOIL TYPE:	Houdek-Stickney-Tetonka loam, 0-3% slope
TILLAGE:	No-till
FERTILITY YIELD-GOAL:	70 bushels
PREVIOUS CROP:	Corn
ROW SPACE:	30 inches
SEEDING POPULATION	165,000/acre
SOIL INOCULANT:	Nitragin-brand Soybean Soil Implant down the seed tube by label instructions
WEED CONTROL:	1 oz. Sharpen with burn down, 1 qt. Roundup
INSECT CONTROL:	None
DISEASE CONTROL:	None
DATE SEEDED:	May 17, 2012



Table C. Explanation of performance table references [.]	
No.	Explanation of references
[1]	Seed treatment as reported by seed company.
[2]	Phytophthora root rot (PRR) gene reported by seed company, cross-reference with table A.
[3]	Maturity rating reported by seed company.
[4]	Days to maturity (DTM) – the number of days to maturity from seeding to 95% brown pod. If data is missing [.] the plots were exposed to a killing frost before they attained the 95% brown pod stage.
[5]	Lodging ratings: 0= all plants erect, 3= 50% of plants lodged at 45°-angle, 5= all plants flat. Shatter ratings: 1= none, 2= 1-10%, 3= 10-20%, 4= 25-50%, 5= > 50% pods shattered.
[6]	Least Significant Difference (LSD 0.05) – the difference two values within a column must equal or exceed to be significantly different from one another at the 0.05 level of probability. If the difference is less than the LSD value the difference between the values is nonsignificant (NS).
[7]	TPG-avg. – the minimum value within a column that entry yield values must equal or exceed to qualify for the top-performance group (TPG).
[8]	TPG-avg. – the maximum value within a column that lodging or shatter rating values must equal or be less than to qualify for the TPG.
[9]	Coefficient of variation (C.V.) - the percent of experimental error associated with a test trial. Ideally, the CV values for yield are less than 15%. If the yield CV values exceed 15% the trial contained too much experimental error to be a valid, thus no data analysis for the table yield column is reported.

Brand/ Variety __Seed Trt.[1] __PRR Gene[2] __Mat. rtg.[3]	DTM [4]	Yield Averages* bu/a		2012
		2-Yr	2012	Ldg. Rtg. (1-5) [5]
SODAK GENET./ SD1093RR __NR __0 __ 0.9	107	48	46	1
HEFTY/ H07Y12 __NR __1k __ 0.7	108	.	53	1
HEFTY/ EXP-H02R3 __NR __1k __ 0.2	104	.	53	1
SODAK GENET./ SD2061R2Y __Cruiser Maxx __1c __ 0.6	110	.	52	1
HEFTY/ EXP-H08R3 __NR __3 __ 0.8	108	.	51	1
HEFTY/ H06Y11 __NR __0 __ 0.6	113	.	42	1
SODAK GENET./ SD2091R2Y __Cruiser Maxx __1c __ 0.9	112	.	34	1
Test avg. :	109	48	47	1
High avg. :	113	.	53	1
Low avg. :	104	.	34	1
[6] Test LSD (.05):		.	6	0
[7] Min.TPG-avg. :			47	.
[8] Max.TPG-avg. :			.	1
[9] Test Coef. Var.:		.	7	0
No. Entries:	7	1	7	7

NOTE: Table reference numbers [1-9] are explained in Table C.
 * Shaded values within a yield or lodging rating column are included in the top-performance group (TPG). Therefore, look for varieties that have shaded values within each yield or lodging rating column.

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Brand/ Variety Seed Trt.[1] PRR Gene [2] Mat. rtg. [3]	DTM [4]	Yield Averages* bu/a		2012
		2-Yr	2012	Ldg. Rtg.
				(1-5) [5]
DAIRYLAND/ DSR-1808/R2Y __Cruiser Maxx __1c __ 1.8	121	57	54	1
ASGROW/ AG1431 __Acceleron+Poncho/Votivo __1c __ 1.4	114	56	53	1
PRAIRIE BR./ PB-1823R2 __NR __NR __ 1.8	117	56	52	1
REA/ 75G12 __NR __1c __ 1.5	114	55	52	1
PRAIRIE BR./ PB-1591R2 __NR __NR __ 1.5	114	55	50	1
WENSMAN/ W 3140R2 __Acceleron __0 __ 1.4	116	55	49	1
MUSTANG/ 11302 __Acceleron __3 __ 1.1	110	55	47	1
CHANNEL/ 1405R2 __Acceleron __1c __ 1.4	115	54	52	1
WENSMAN/ W 3120R2 __Acceleron __1c __ 1.2	119	54	52	1
REA/ 78G12 __NR __1c __ 1.8	119	54	51	1
ASGROW/ AG1631 __Acceleron+Poncho/Votivo __1c __ 1.6	117	54	46	1
PRAIRIE BR./ PB-1722R2 __NR __NR __ 1.7	118	53	47	1
PRAIRIE BR./ PB-1743R2 __NR __NR __ 1.7	119	52	52	1
HEFTY/ H16Y11 __NR __1c __ 1.6	119	52	50	1
HEFTY/ H17Y12 __NR __1k __ 1.7	118	52	50	1
STINE/ 16RA02 __Cruiser __1k __ 1.7	120	52	48	1
CHANNEL/ 1805R2 __Acceleron __1c __ 1.8	116	52	44	1
G-2 GENETICS/ 6162 __Trilex+Allegiance+Gaucho __1c __ 1.6	118	52	43	1
PIONEER/ 91Y90 __PPST Pkg. __NR __ 1.9	116	51	50	1
REA/ 72G21 __NR __1c __ 1.3	117	50	46	1
REA/ 71G20 __NR __0 __ 1.1	110	50	45	1
HEFTY/ H16Y12 __NR __1k __ 1.6	117	50	43	1
HEFTY/ H18Y12 __NR __0 __ 1.8	115	48	42	1
HEFTY/ H15Y12 __NR __3 __ 1.5	115	.	55	1
NORTHSTAR/ NS 1916NR2 __Acceleron __1c __ 1.9	120	.	55	1
SODAK GENET./ SD2172R2Y __Cruiser Maxx __1c __ 1.7	119	.	55	1
PRAIRIE BR./ PB-2042R2 __NR __NR __ 1.9	118	.	54	1
MUSTANG/ 19723 __Acceleron __0 __ 1.9	115	.	53	1
WENSMAN/ W3190NR2 __Acceleron __1k __ 1.9	120	.	53	1
PRAIRIE BR./ EXP 12161 __NR __NR __ 1.6	118	.	52	1
PIONEER/ 91Y74 __PPST Pkg. __1k __ 1.7	120	.	51	1
HEFTY/ H12Y11 __NR __3 __ 1.2	113	.	51	1
HEFTY/ H10Y12 __NR __1k __ 1	111	.	51	1
MUSTANG/ 14323 __Acceleron __1c __ 1.4	115	.	50	1
PIONEER/ 91Y81 __PPST Pkg. __1c __ 1.8	119	.	50	1
HEFTY/ H13Y11 __NR __1c __ 1.3	114	.	50	1
HEFTY/ EXP-H14R3 __NR __1c __ 1.4	115	.	50	1
PRAIRIE BR./ PB-1566R2 __NR __NR __ 1.5	118	.	50	1
WENSMAN/ W 3160NR2 __Acceleron __1c __ 1.6	116	.	50	1
HEFTY/ EXP-H10R3 __NR __3 __ 1	115	.	49	1

Variety Seed Trt.[1] PRR Gene [2] Mat. rtg. [3]	DTM [4]	Yield Averages* bu/a		2012
		2-Yr	2012	Ldg. Rtg. (1-5) [5]
STINE/ 16RD02 __Cruiser __1k __ 1.6	115	.	49	1
G-2 GENETICS/ 7183 __Trilex+Allegiance+Gaucho __1c __ 1.8	118	.	49	1
ASGROW/ AG1733 __Acceleron+Poncho/Votivo __1c __ 1.7	119	.	48	1
DAIRYLAND/ DSR-1710/R2Y __Cruiser Maxx __1c __ 1.7	118	.	48	1
G-2 GENETICS/ 7186 __Trilex+Allegiance+Gaucho __1k __ 1.7	117	.	48	1
PRAIRIE BR./ PB-1637R2 __NR __NR __ 1.6	113	.	48	1
CHANNEL/ 1606R2 __Acceleron __3a __ 1.6	116	.	47	1
NORTHSTAR/ NS 1726NR2 __Acceleron __1c __ 1.7	120	.	46	1
MUSTANG/ 15523 __Acceleron __1c __ 1.5	116	.	45	1
G-2 GENETICS/ 1191 __Trilex+Allegiance+Gaucho __1k __ 1.9	116	.	45	1
PRAIRIE BR./ EXP 12228P __NR __NR __ 1.9	121	.	45	1
HEFTY/ H18Y11 __NR __1c __ 1.8	117	.	44	1
PRAIRIE BR./ EXP 12245P __NR __NR __ 1.9	122	.	44	1
WENSMAN/ W 3142NR2 __Acceleron __1k __ 1.4	116	.	44	1
SODAK GENET./ SD2101R2Y __Cruiser Maxx __1k __ 1	110	.	44	1
SOKAK GENET./ SD2149R2Y __Cruiser Maxx __NR __ 1.4	111	.	44	1
SODAK GENET./ SD2181NR2 __Cruiser Maxx __1c __ 1.8	119	.	44	1
PIONEER/ 91Y30 __PPST Pkg. __1c __ 1.3	110	.	43	1
HEFTY/ H11Y12 __NR __3 __ 1.1	110	.	42	1
Test avg. :	116	53	48	1
High avg. :	122	57	55	1
Low avg. :	110	48	42	1
[6] Test LSD (.05):		NS**	5	0
[7] Min.TPG-avg. :		48	50	.
[8] Max.TPG-avg. :		.	.	1
[9] Test Coef. Var.:		6	7	0
No. Entries:	59	23	59	59

NOTE: Table reference numbers [1-9] are explained in Table C.
 * Shaded values within a yield or lodging rating column are included in the top-performance group (TPG). Therefore, look for varieties that have shaded values within each yield or lodging rating column.
 ** Indicates differences between values within a yield or lodging rating column are non-significant (NS).

Table 3. Glyphosate-resistant soybean variety performance results - MG-II, Bancroft

Brand/ Variety Seed Trt.[1] PRR Gene [2] Mat. rtg. [3]	DTM [4]	Yield Averages* bu/a		2012
		2-Yr	2012	Ldg. Rtg. (1-5) [5]
WENSMAN/ W 3200NR2 __Acceleron __1c+1k __ 2	119	56	49	1
MUSTANG/ 20622 __Acceleron __1c __ 2	118	55	50	1
WENSMAN/ W 3230R2 __Acceleron __1c __ 2.3	121	55	49	1
PRAIRIE BR./ PB-2242R2 __NR __NR __ 2.2	119	54	48	1
REA/ 80G11 __NR __1k __ 2	118	54	47	1
PRAIRIE BR./ PB-2419RR2 __NR __NR __ 2.4	123	53	48	1
PRAIRIE BR./ PB-2391R2 __NR __NR __ 2.3	121	53	47	1
ASGROW/ AG2031 __Acceleron+Poncho/Votivo __1c __ 2	118	53	45	1
DAIRYLAND/ DSR-2105/R2Y __Cruiser Maxx __1k __ 2.1	119	52	49	1
PRAIRIE BR./ PB-2544R2 __NR __NR __ 2.5	119	51	46	1
REA/ 84G20 __NR __1c __ 2.4	121	51	43	1
HEFTY/ H20Y12 __NR __1c __ 2	118	50	45	1
PRAIRIE BR./ PB-2143R2 __NR __NR __ 2.1	120	.	54	1
PRAIRIE BR./ PB-2650R2 __NR __NR __ 2.6	125	.	53	1
HEFTY/ EXP-H20R3 __NR __1c __ 2	119	.	52	1
HEFTY/ H22Y12 __NR __1c __ 2.2	120	.	51	1
G-2 GENETICS/ 7203 __Trilex+Allegiance+Gaucho __0 __ 2	122	.	51	1
MUSTANG/ 21993 __Acceleron __1k __ 2.1	120	.	50	1
HEFTY/ EXP-H21R3 __NR __1k __ 2.1	121	.	50	1
PRAIRIE BR./ PB-2366R2 __NR __NR __ 2.3	122	.	50	1
PRAIRIE BR./ PB-2230R2 __NR __NR __ 2.2	119	.	49	1
SODAK GENET./ SD2201NR2 __Cruiser Maxx __1c __ 2	121	.	49	1
MUSTANG/ 22823 __Acceleron __1k __ 2.2	120	.	48	1
HEFTY/ EXP-H24R3 __NR __3 __ 2.4	122	.	48	1
PRAIRIE BR./ PB-2351R2 __NR __NR __ 2.3	121	.	48	1
PRAIRIE BR./ EXP 12241 __NR __NR __ 2.4	120	.	48	1
WENSMAN/ W 3222NR2 __Acceleron __1c __ 2.2	122	.	48	1
PIONEER/ 92Y32 __PPST Pkg. __1c __ 2.3	122	.	47	1
HEFTY/ H23Y10 __NR __1c __ 2.3	122	.	46	1
HEFTY/ H23Y12 __NR __1k __ 2.3	121	.	46	1
G-2 GENETICS/ 7213 __Trilex+Allegiance+Gaucho __1c __ 2.1	119	.	46	1
MUSTANG/ 20823 __Acceleron __1c __ 2	120	.	45	1
G-2 GENETICS/ 7208 __Trilex+Allegiance+Gaucho __1c __ 2	118	.	41	1
NORTHSTAR/ NS 2077NR2 __Acceleron __1c __ 2	118	.	41	1
Test avg. :	120	53	48	1
High avg. :	125	56	54	1
Low avg. :	118	50	41	1
[6] Test LSD (.05):		NS**	5	0
[7] Min.TPG-avg. :		50	49	.
[8] Max.TPG-avg. :		.	.	1
[9] Test Coef. Var.:		5	6	0
No. Entries:	34	12	34	34

NOTE: Table reference numbers [1-9] are explained in Table C.

* Shaded values within a yield or lodging rating column are included in the top-performance group (TPG). Therefore, look for varieties that have shaded values within each yield or lodging rating column.

** Indicates differences between values within a yield or lodging rating column are non-significant (NS).

Glyphosate-Resistant Soybean Variety Trial

Maturity Group-0 (Table 1):

The two-year and 2012 test-yield averages were 48 and 47 bushels per acre, respectively; and the lodging score average was 1. There was only one variety that was tested for two years. Varieties had to average 47 bushels or higher to be in the top yield group for 2012. Among the varieties tested for 2012, variety yield differences had to differ by 6 bu. to be significantly different. Variety lodging rating values indicated that all entries scored a rating of 1 for lodging resistance in the varieties in 2012.

Maturity Group-I (Table 2):

The two-year and 2012 test-yield averages were 53 and 48 bushels per acre; and the lodging rating average was 1. Varieties had to average 48 and 50 bushels or higher to be in the top yield group for two years and 2012, respectively. Variety yield differences among the two-year averages were not significant, while the 2012 variety yield differences had to differ by 5 bushels to be significantly different. The lodging rating values for all the entries equaled 1 for 2012.

Maturity Group-II (Table 3):

The two-year and 2012 test-yield averages were 53 and 48 bushels per acre; the lodging rating average was 1. Varieties had to average 50 and 49 bushels or higher to be in the top yield group for two years and for 2012, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2012 variety yield differences had to differ by 5 bushels to be significantly different. All varieties were in the top performance group for lodging resistance because there was no significant difference in lodging rating values among the entries tested.

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OCTOBER 2012

SDSU EXTENSION

Soybean production is greatly affected by variety selection.

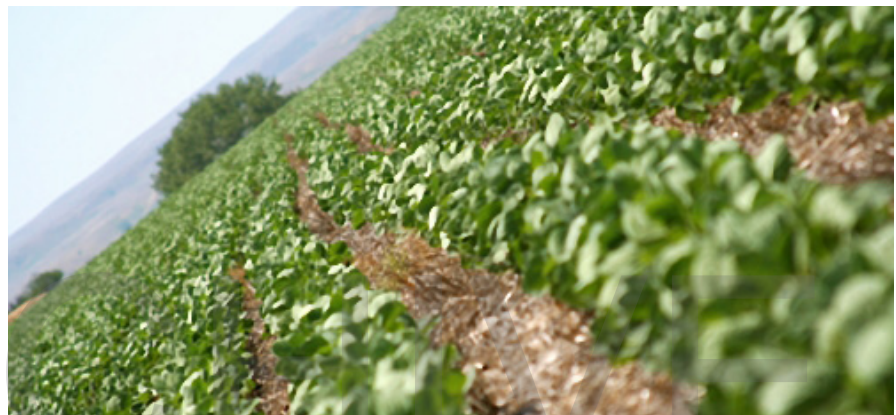
This circular reports the agronomic performance of entries in the 2012 South Dakota performance trials for glyphosate-resistant and non-glyphosate-resistant soybean varieties. Major factors in variety selection include yield, maturity, lodging resistance, and *Phytophthora* root rot resistance.

Major factors in variety selection include:

- Yield
- Maturity
- Lodging resistance
- *Phytophthora* root rot resistance

Soybean Variety Performance Trials Results - Volga

Robert G. Hall | SDSU Extension Agronomist
Kevin K. Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager



Soybean production is greatly affected by variety selection. This circular reports the agronomic performance of entries in the 2012 South Dakota performance trials for glyphosate-resistant and non-glyphosate-resistant soybean varieties. Major factors in variety selection include yield, maturity, lodging resistance, and *Phytophthora* root rot resistance.

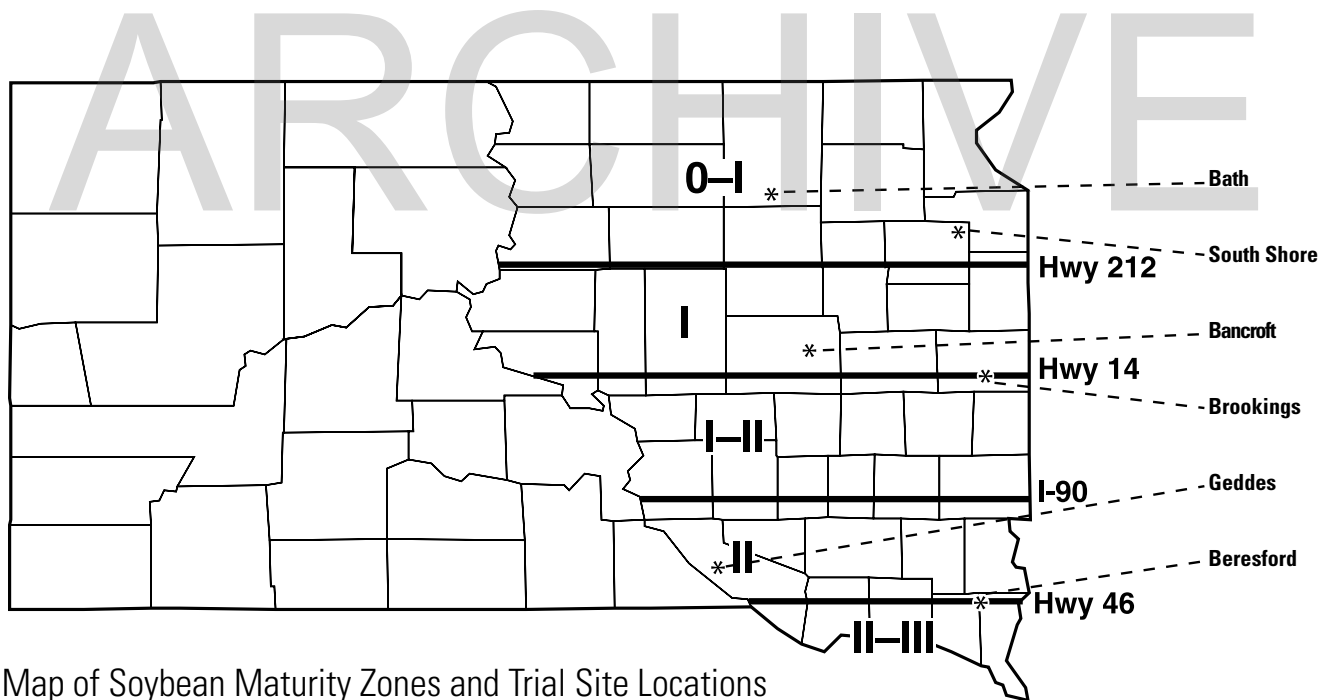
Soybean varieties are classified according to maturity groups that in turn are adapted to maturity zones. Maturity zones are based on day length and therefore are affected by latitude. The very early maturity group-00 varieties are best suited to Canada and bordering regions of the U.S., while maturity group-0, group-I, and group-II varieties are suited to South Dakota. The later groups III-VIII are suited to Iowa, Nebraska, and south to Texas.

Inoculation of seed with the appropriate nitrogen-fixing bacterium is a good practice. Always inoculate if seeding soybeans in soils not previously cropped to soybeans. On older soybean ground, there is no guarantee that N-fixing bacteria will be present to inoculate the seed, thus, consider inoculation cheap insurance that N-fixing bacteria will be present.

Use care when evaluating the yield performance of entries in each table. Entries tested for two years may also have a top yield group value in the 2012 yield column. Each company selects the appropriate maturity group trial (maturity group-0, -I, or -II trial) and locations for their entries. There are, however, no standard regional or national check varieties for maturity. It is suggested you compare the reported maturity rating of every entry you are considering with the days to maturity (DTM) calculated for each entry at each location.

Phytophthora root rot (PRR) is an important soybean disease in South Dakota and is often controlled or managed with the use of resistant varieties. Resistance to *Phytophthora* root rot is fungus-race specific. Thus, resistance to one PRR race does not always impart resistance to other races. Knowledge of the prevalent PRR races in your area is important. If you suspect you have a PRR problem, using varieties with a wide range of rot resistance is strongly suggested. The gene resistance of each variety to PRR is supplied by each seed company (proprietary

entries) or by the USDA (Uniform Soybean Tests, Northern States, public entries). The PRR gene for each entry, as given by the seed company is reported in each yield table. Specific race resistance to PRR can be determined by cross-referencing the PRR gene reported in each yield table with table A (glyphosate-resistant entries) to find the resistant races. Currently, races -1, -3, and -4 are the most common races in South Dakota.



Map of Soybean Maturity Zones and Trial Site Locations

Table A. *Phytophthora* Root Rot race resistance by gene code and name.

PRR Code	Gene Name	Race Resistance
0	rps1	None
1A	Rps1, Rps1a	1-2,10-11,13,15-18,24
1B	Rps1b	1,3-9,13-15,18,21-22
1C	Rps1c	1-3,6-11,13,15,17,21,23-24
1K	Rps1k	1-11,13-15,17-18,21-22,24
2	Rps2	1-5,9-20
3,3a	Rps3, 3a	1-5,8-9,11,13-14,16,18,23,25
4	Rps4	1-4,10,12-16,18-21,25
5	Rps5	1-5,8-9,11-14,18,20,25
6	Rps6	1-4,10,12,14-16,18-21,25
7	Rsp7	16,18,19
K6	Rps1k, Rps6	1-22,24-25
C3	Rps1c, Rps3	1-10,13-18,22-25
B3	Rps1b	1-9,13-16,18,21-23,25
NR	NR	Not Reported

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Table B. General test information.

Location	Glyphosate and Non-glyphosate resistant soybean trial results - MG-0, -I, and -II
Cooperator:	SDSU Plant Science Research Farm – Volga, Doug Doyle and staff
Soil Type:	Brandt silty clay loam, 0-2% slope
Tillage:	Conventional
Fertility Yield-Goal:	70 bushel
Previous Crop:	Spring wheat (stubble)
Row Space:	30 inches
Seeding Population	165,000/acre
Soil Inoculant:	Nitragin-brand Soybean Soil Implant down the seed tube by label instructions
Weed Control:	Glyphosate-resistant trials: 1 qt. Roundup
	Non-glyphosate-resistant trials: Preemergence, 1qt Dual 2 + cultivation
Insect Control:	None
Disease Control:	None
Date Seeded:	May 21, 2012

Plot yields were adjusted to 13% moisture content and expressed in bushels per acre. Harvest was accomplished using a Massey Ferguson 8XP small plot combine. Explanations of the various references contained within the performance tables can be found in table C.

Table C. Explanation of performance table references [.]

No.	Explanation of references
[1]	Seed treatment as reported by seed company.
[2]	Phytophthora root rot (PRR) gene reported by seed company, cross-reference with table A.
[3]	Maturity rating reported by seed company.
[4]	Days to maturity (DTM) – the number of days to maturity from seeding to 95% brown pod. If data is missing [.] the plots were exposed to a killing frost before they attained the 95% brown pod stage.
[5]	Lodging ratings: 0= all plants erect, 3= 50% of plants lodged at 45°-angle, 5= all plants flat. Shatter ratings: 1= none, 2= 1-10%, 3= 10-20%, 4= 25-50%, 5= > 50% pods shattered.
[6]	Least Significant Difference (LSD 0.05) – the difference two values within a column must equal or exceed to be significantly different from one another at the 0.05 level of probability. If the difference is less than the LSD value the difference between the values is nonsignificant (NS).
[7]	TPG-avg. – the minimum value within a column that entry yield values must equal or exceed to qualify for the top-performance group (TPG).
[8]	TPG-avg. – the maximum value within a column that lodging or shatter rating values must equal or be less than to qualify for the TPG.
[9]	Coefficient of variation (C.V.) - the percent of experimental error associated with a test trial. Ideally, the CV values for yield are less than 15%. If the yield CV values exceed 15% the trial contained too much experimental error to be a valid, thus no data analysis for the table yield column is reported.

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Table 1. Glyphosate-resistant soybean variety performance results - MG-0, Volga

Brand/ Variety __Seed Trt.[1] __PRR gene [2] __Mat. rtg. [3]	DTM [4]	Yield Averages* bu/a		2012 Ldg.Rtg. (1-5) [5]
		2-Yr	2012	
SODAK GENET./ SD1093RR __NR __0 __ 0.9	111	55	40	1
SODAK GENET./ SD2061R2Y __Cruiser Maxx __1c __ 0.6	110	.	45	1
SODAK GENET./ SD2091R2Y __Cruiser Maxx __1c __ 0.9	112	.	42	1
Test avg. :	111	55	42	1
High avg. :	112	55	45	1
Low avg. :	110	55	40	1
[6] Test LSD (.05):	112	0	NS**	0
[7] Min.TPG-avg. :	112	55	40	.
[8] Max.TPG-avg. :	112	.	.	1
[9] Test Coef. Var.:	1	0	6	0
No. Entries:	3	1	3	3

NOTE: Table reference numbers [1-9] are explained in Table C.
 * Shaded values within a yield or lodging rating column are included in the top-performance group (TPG). Therefore, look for varieties that have shaded values within each yield or lodging rating column.
 ** Indicates differences between values within a yield or lodging rating column are non-significant (NS).

Table 2. Glyphosate-resistant soybean variety performance results - MG-I, Volga

Brand/ Variety __Seed Trt.[1] __PRR gene [2] __Mat. rtg. [3]	DTM [4]	Yield Averages* bu/a		2012 Ldg.Rtg. (1-5) [5]
		2-Yr	2012	
CHANNEL/ 1405R2 __Acceleron __1c __ 1.4	112	58	45	1
G-2 GENETICS/ 6162 __Trilex+Allegiance+Gaucho __1c __ 1.6	111	56	45	1
ASGROW/ AG1431 __Acceleron+Poncho/Votivo __1c __ 1.4	111	56	44	1
WENSMAN/ W 3140R2 __Acceleron __0 __ 1.4	115	55	45	1
MUSTANG/ 11302 __Acceleron __3 __ 1.1	112	55	44	1
CHANNEL/ 1805R2 __Acceleron __1c __ 1.8	115	54	44	1
PRAIRIE BR./ PB-1591R2 __NR __NR __ 1.5	117	54	44	1
RENK/ RS140NR2 __NR __1c __ 1.4	115	54	44	1
ASGROW/ AG1631 __Acceleron+Poncho/Votivo __1c __ 1.6	114	54	43	1
REA/ 72G21 __NR __1c __ 1.3	117	54	43	1
REA/ 78G12 __NR __1c __ 1.8	114	54	43	1
REA/ 71G20 __NR __0 __ 1.1	111	54	42	1
PRAIRIE BR./ PB-1743R2 __NR __NR __ 1.7	119	54	42	1
DAIRYLAND/ DSR-1808/R2Y __Cruiser Maxx __1c __ 1.8	118	53	45	1
WENSMAN/ W 3120R2 __Acceleron __1c __ 1.2	114	53	40	1
PRAIRIE BR./ PB-1823R2 __NR __NR __ 1.8	114	52	43	1
RENK/ RS141R2 __NR __1c __ 1.4	115	52	43	1
HEFTY/ H16Y12 __NR __1k __ 1.6	115	52	42	1
REA/ 75G12 __NR __1c __ 1.5	114	52	40	1
HEFTY/ H18Y12 __NR __0 __ 1.8	117	51	42	1
STINE/ 16RA02 __Cruiser __1k __ 1.7	114	51	41	1
PRAIRIE BR./ PB-1722R2 __NR __NR __ 1.7	115	51	41	1
RENK/ RS172NR2 __NR __1c __ 1.7	117	50	41	1
PIONEER/ 91Y90 __PPST Pkg. __NR __ 1.9	116	49	38	1
HEFTY/ H17Y12 __NR __1k __ 1.7	118	49	38	1
SODAK GENET./ SD2172R2Y __Cruiser Maxx __1c __ 1.7	111	.	48	1
DAIRYLAND/ DSR-1710/R2Y __Cruiser Maxx __1c __ 1.7	118	.	46	1
MUSTANG/ 19723 __Acceleron __0 __ 1.9	117	.	44	1
HEFTY/ EXP-H14R3 __NR __1c __ 1.4	113	.	44	1
STINE/ 16RD02 __Cruiser __1k __ 1.6	115	.	44	1
PRAIRIE BR./ EXP 12161 __NR __NR __ 1.6	117	.	44	1
SODAK GENET./ SD2101R2Y __Cruiser Maxx __1k __ 1	110	.	44	1
SODAK GENET./ SD2149R2Y __Cruiser Maxx __NR __ 1.4	111	.	44	1
ASGROW/ AG1733 __Acceleron+Poncho/Votivo __1c __ 1.7	117	.	43	1
HEFTY/ H13Y11 __NR __1c __ 1.3	114	.	43	1
PRAIRIE BR./ PB-1566R2 __NR __NR __ 1.5	115	.	43	1
NORTHSTAR/ NS 1726NR2 __Acceleron __1c __ 1.7	117	.	43	1
NORTHSTAR/ NS 1916NR2 __Acceleron __1c __ 1.9	117	.	43	1
RENK/ RS153NR2 __NR __1c __ 1.5	114	.	43	1
RENK/ RS183NR2 __NR __1c __ 1.8	117	.	43	1

Brand/ Variety __Seed Trt.[1] __PRR gene [2] __Mat. rtg. [3]	DTM [4]	Yield Averages* bu/a		2012 Ldg.Rtg. (1-5) [5]
		2-Yr	2012	
MUSTANG/ 14323 __Acceleron __1c __ 1.4	114	.	42	1
PIONEER/ 91Y74 __PPST Pkg. __1k __ 1.7	114	.	42	1
HEFTY/ H16Y11 __NR __1c __ 1.6	117	.	42	1
CHANNEL/ 1606R2 __Acceleron __3a __ 1.6	116	.	42	1
PRAIRIE BR./ PB-1637R2 __NR __NR __ 1.6	114	.	41	1
WENSMAN/ W 3142NR2 __Acceleron __1k __ 1.4	112	.	41	1
HEFTY/ H12Y11 __NR __3 __ 1.2	110	.	40	1
HEFTY/ H15Y12 __NR __3 __ 1.5	118	.	40	2
G-2 GENETICS/ 7186 __Trilex+Allegiance+Gaucho __1k __ 1.7	117	.	40	2
G-2 GENETICS/ 7183 __Trilex+Allegiance+Gaucho __1c __ 1.8	115	.	40	1
PRAIRIE BR./ EXP 12228P __NR __NR __ 1.9	118	.	40	1
PRAIRIE BR./ PB-2042R2 __NR __NR __ 1.9	117	.	40	1
SODAK GENET./ SD2181NR2Y __Cruiser Maxx __1c __ 1.8	117	.	40	1
PIONEER/ 91Y81 __PPST Pkg. __1c __ 1.8	114	.	38	1
HEFTY/ H18Y11 __NR __1c __ 1.8	118	.	38	1
WENSMAN/ W 3160NR2 __Acceleron __1c __ 1.6	111	.	38	1
WENSMAN/ W3190NR2 __Acceleron __1k __ 1.9	119	.	38	1
MUSTANG/ 15523 __Acceleron __1c __ 1.5	114	.	37	1
HEFTY/ H11Y12 __NR __3 __ 1.1	110	.	37	1
PRAIRIE BR./ EXP 12245P __NR __NR __ 1.9	121	.	36	1
G-2 GENETICS/ 1191 __Trilex+Allegiance+Gaucho __1k __ 1.9	114	.	35	1
Test avg. :	115	53	42	1
High avg. :	121	58	48	2
Low avg. :	110	49	35	1
[6] Test LSD (.05):		3	5	NS**
[7] Min.TPG-avg. :		54	43	.
[8] Max.TPG-avg. :		.	.	2
[9] Test Coef. Var.:		6	8	23
No. Entries:	61	25	61	61

NOTE: Table reference numbers [1-9] are explained in Table C.
 * Shaded values within a yield or lodging score column are included in the top-performance group (TPG). Therefore, look for varieties that have shaded values within each yield or lodging score column.
 ** Indicates differences between values within a yield or lodging score column are non-significant (NS).

Brand/ Variety __Seed Trt.[1] __PRR gene [2] __Mat. rtg. [3]	DTM [4]	Yield Averages* bu/a		2012
		2-Yr	2012	Ldg.Rtg. (1-5) [5]
WENSMAN/ W 3200NR2 __Acceleron __1c+1k __ 2	116	55	46	1
ASGROW/ AG2031 __Acceleron+Poncho/Votivo __1c __ 2	116	54	46	1
REA/ 84G20 __NR __1c __ 2.4	119	52	52	1
PRAIRIE BR./ PB-2544R2 __NR __NR __ 2.5	121	51	50	1
RENK/ RS202NR2 __NR __1c __ 2	115	51	46	1
HEFTY/ H23Y12 __NR __1k __ 2.3	120	51	45	2
RENK/ RS210NR2 __NR __1c __ 2.1	120	51	43	1
REA/ 80G11 __NR __1k __ 2	115	51	41	1
PRAIRIE BR./ PB-2242R2 __NR __NR __ 2.2	118	49	47	1
WENSMAN/ W 3230R2 __Acceleron __1c __ 2.3	119	49	47	1
PIIONEER/ 92Y51 __PPST Pkg. __1k __ 2.5	120	47	47	1
PRAIRIE BR./ PB-2419RR2 __NR __NR __ 2.4	119	47	42	1
HEFTY/ H23Y10 __NR __1c __ 2.3	119	47	40	1
HEFTY/ H22Y12 __NR __1c __ 2.2	119	47	38	1
DAIRYLAND/ DSR-2105/R2Y __Cruiser Maxx __1k __ 2.1	119	46	38	1
PRAIRIE BR./ PB-2391R2 __NR __NR __ 2.3	119	45	40	1
MUSTANG/ 23530 __Acceleron __1c __ 2.3	118	45	38	1
WENSMAN/ W 3222NR2 __Acceleron __1c __ 2.2	118	.	50	1
MUSTANG/ 20823 __Acceleron __1c __ 2	116	.	49	1
G-2 GENETICS/ 7213 __Trilex+Allegiance+Gaucho __1c __ 2.1	120	.	48	1
CHANNEL/ 2402R2 __Acceleron __1c __ 2.4	120	.	48	1
HEFTY/ EXP-H24R3 __NR __3 __ 2.4	119	.	47	1
PRAIRIE BR./ PB-2143R2 __NR __NR __ 2.1	123	.	47	1
PRAIRIE BR./ PB-2230R2 __NR __NR __ 2.2	120	.	47	1
PRAIRIE BR./ PB-2351R2 __NR __NR __ 2.3	118	.	46	1
PRAIRIE BR./ PB-2366R2 __NR __NR __ 2.3	117	.	46	1
RENK/ RS213NR2 __NR __1c __ 2.1	117	.	46	1
PIIONEER/ 92Y32 __PPST Pkg. __1c __ 2.3	124	.	45	1
NORTHSTAR/ NS 2077NR2 __Acceleron __1c __ 2	117	.	45	1
MUSTANG/ 22823 __Acceleron __1k __ 2.2	119	.	44	1
G-2 GENETICS/ 7203 __Trilex+Allegiance+Gaucho __0 __ 2	117	.	43	1
G-2 GENETICS/ 7208 __Trilex+Allegiance+Gaucho __1c __ 2	116	.	43	1
SODAK GENET./ SD2201NR2Y __Cruiser Maxx __1c __ 2	116	.	43	1
HEFTY/ EXP-H21R3 __NR __1k __ 2.1	118	.	42	1
CHANNEL/ 2105R2 __Acceleron __1c __ 2.1	117	.	41	1
PRAIRIE BR./ EXP 12241 __NR __NR __ 2.4	124	.	38	1
MUSTANG/ 21993 __Acceleron __1k __ 2.1	119	.	37	1
HEFTY/ H20Y12 __NR __1c __ 2	115	.	37	1
HEFTY/ EXP-H20R3 __NR __1c __ 2	117	.	36	1
PRAIRIE BR./ PB-2650R2 __NR __NR __ 2.6	124	.	36	1
Test avg. :	118	49	44	1
High avg. :	124	55	52	2
Low avg. :	115	45	36	1
[6] Test LSD (.05):		NS**	NS	NS
[7] Min.TPG-avg. :		45	36	.
[8] Max.TPG-avg. :		.	.	2
[9] Test Coef. Var.:		11	17	0
No. Entries:	40	17	40	40

NOTE: Table reference numbers [1-9] are explained in Table C.
 * Shaded values within a yield or lodging rating column are included in the top-performance group (TPG). Therefore, look for varieties that have shaded values within each yield or lodging rating column.
 ** Indicates differences between values within a yield or lodging rating column are non-significant (NS).

Table 4. Non-glyphosate resistant soybean variety performance results for maturity groups -0, -I and -II -Volga.

Brand/ Variety	DTM [4]	Yield average by maturity group								
		MG-0			MG-I			MG-II		
		Yield-bu/a		2012 Ldg. Rtg. (1-5) [5]	Yield-bu/a		2012 Ldg.Rtg. (1-5) [5]	Yield-bu/a		2012 Ldg. Rtg. (1-5) [5]
		2-yr	2012		2-yr	2012		2-yr	2012	
PUBLIC/ SURGE	112	49	39	1	.	.	.	.	.	.
SK/ FOOD INTL SK095	113	.	34	2	.	.	.	.	.	.
RICHLAND/ ORG. MK0508	105	49	33	2	.	.	.	.	.	.
SK/ FOOD INTL SK0796	110	.	33	2	.	.	.	.	.	.
RICHLAND/ ORG. MK831	106	43	32	2	.	.	.	.	.	.
SK/ FOOD INTL SK0786	110	.	31	2	.	.	.	.	.	.
NORTHSTAR/ NS1128NLL	113	.	.	.	.	41	1	.	.	.
NORTHSTAR/ EXPNS1428NLL	119	.	.	.	.	41	1	.	.	.
RICHLAND/ ORG. TITAN	110	.	.	.	.	40	1	.	.	.
PUBLIC/ DEUEL	113	.	.	.	49	40	2	.	.	.
PUBLIC/ BROOKINGS	118	.	.	.	46	40	1	.	.	.
RICHLAND/ ORG. MK1016	112	.	.	.	44	34	3	.	.	.
RICHLAND/ ORG. MK9101	112	.	.	.	38	33	1	.	.	.
RICHLAND/ ORG. CHALLENG	117	.	.	.	.	33	1	.	.	.
SK/ FOOD INTL SK9801	109	.	.	.	42	27	2	.	.	.
PUBLIC/ DAVISON	117	.	.	.	.	.	.	46	37	1
Test avg.:	112	47	34	2	44	37	1	46	37	1
High avg.:	119	49	39	2	49	41	3	.	.	.
Low avg.:	105	43	31	1	38	27	1	.	.	.
[6] LSD (.05):		NS**	5	<1	NS	4	<1	.	.	.
[7] Min. TPG avg.:		43	34	.	38	37	.	.	.	.
[8] Max. TPG avg.:		.	.	1	.	.	2	.	.	.
[9] Coef. Var.:	3	4	8	17	7	6	28	.	.	.

NOTE: Table reference numbers [1-9] are explained in Table C.

* Shaded values within a yield or lodging score column are included in the top-performance group (TPG). Therefore, look for varieties that have shaded values within each yield or lodging score column.

** Indicates differences between values within a yield or lodging score column are non-significant (NS).

GLYPHOSATE-RESISTANT SOYBEAN VARIETY TRIAL RESULTS

Maturity Group-0 (Table 1):

The two-year and 2012 test-yield averages were 55 and 42 bushels per acre, respectively, the lodging score average was 1. Varieties had to average 40 bushels or higher to be in the top yield group for 2012. Only a single variety was tested for two years. Variety yield averages did not differ among varieties tested for 2012. All the variety lodging rating values were in the top performance group for lodging rating because there was no difference among them.

Maturity Group-I (Table 2):

The two-year and 2012 test-yield averages were 53 and 42 bushels per acre, respectively; and the lodging rating average was 1. Varieties had to average 54 and 43 bushels or higher to be in the top yield group for two years and for 2012, respectively. The two-year variety yield differences had to differ by 3 bushels to be significantly different, while the 2012 variety yield differences had to differ by 5 bushels to be significantly different. Varieties did not differ in lodging rating values in 2012.

Maturity Group-II (Table 3):

The two-year and 2012 test-yield averages were 49 and 44 bushels per acre, respectively; and the lodging rating average was 1.

Varieties had to average 45 and 36 bushels or higher to be in the top yield group for two years and for 2012, respectively. Variety yield differences among both the two-year averages and 2012 averages were not significant (NS). Variety lodging rating values had to equal 2 to be in the top performance group for lodging rating and because the lodging rating differences were not significant (NS).

NON-GLYPHOSATE-RESISTANT SOYBEAN VARIETY TRIAL RESULTS

Maturity Group-0 (Table 4):

The two-year and 2012 test-yield averages were 47 and 34 bushels per acre, respectively, and the lodging rating average was 2.

Varieties had to average 43 and 34 bushels or higher to be in the top yield group for two years and for 2012, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2012 variety yield differences had to differ by 5 bushels to be significantly

different. Variety lodging rating values had to equal 1 to be in the top performance group for resisting lodging, and the rating values had to differ by 1 to be significantly different.

Maturity Group-I (Table 4):

The two-year and 2012 yield averages were 44 and 37 bushels per acre, respectively, and the lodging rating average was 1. Varieties had to average 38 and 37 bushels or higher to be in the top yield group for two years and for 2012, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2012 variety yield differences had to differ by 4 bushels to be significantly different. Variety lodging rating values had to equal 1 to be in the top performance group for resisting lodging, and rating values had to differ by 1 to be significantly different.

Maturity Group-II (Table 4):

Only one released variety was tested in this trial in 2011 and 2012.



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OCTOBER 2012

SDSU EXTENSION

Soybean production is greatly affected by variety selection.

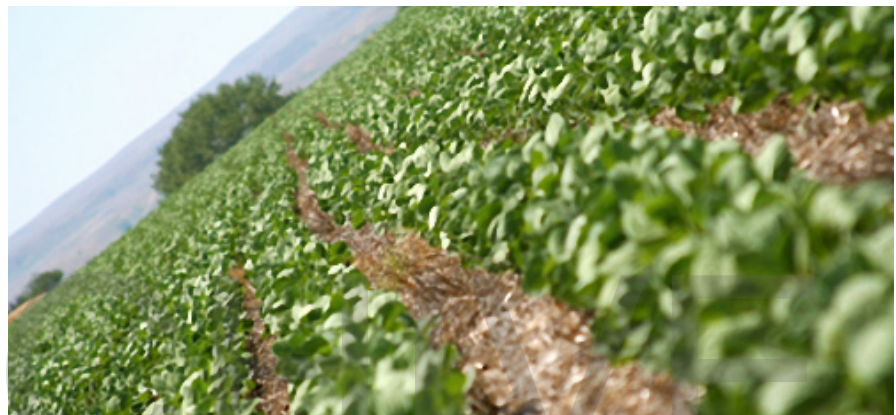
This circular reports the agronomic performance of entries in the 2012 South Dakota performance trials for glyphosate-resistant and non-glyphosate-resistant soybean varieties. Major factors in variety selection include yield, maturity, lodging resistance, and *Phytophthora* root rot resistance.

Major factors in variety selection include:

- Yield
- Maturity
- Lodging resistance
- *Phytophthora* root rot resistance

Soybean Variety Performance Trials Results – South Shore

Robert G. Hall | SDSU Extension Agronomist
Kevin K. Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager



Soybean production is greatly affected by variety selection. This circular reports the agronomic performance of entries in the 2012 South Dakota performance trials for glyphosate-resistant and non-glyphosate-resistant soybean varieties. Major factors in variety selection include yield, maturity, lodging resistance, and *Phytophthora* root rot resistance.

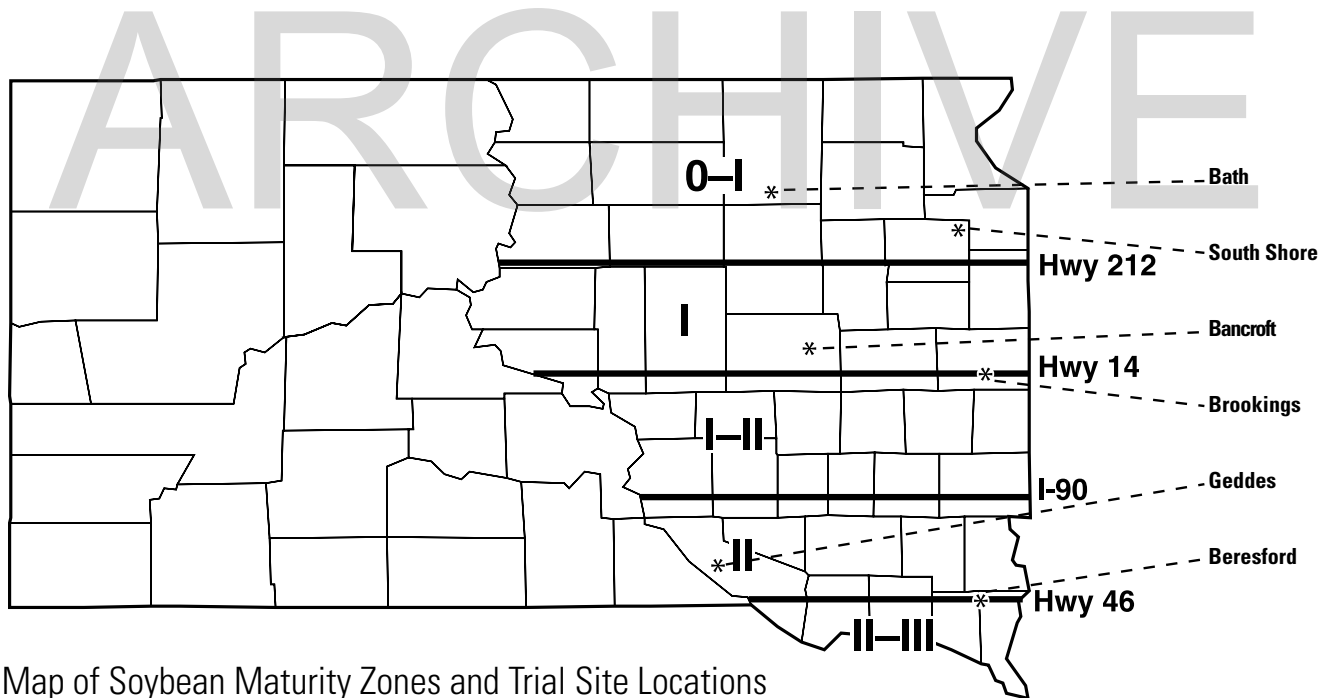
Soybean varieties are classified according to maturity groups that in turn are adapted to maturity zones. Maturity zones are based on day length and therefore are affected by latitude. The very early maturity group-00 varieties are best suited to Canada and bordering regions of the U.S., while maturity group-0, group-I, and group-II varieties are suited to South Dakota. The later groups III-VIII are suited to Iowa, Nebraska, and south to Texas.

Inoculation of seed with the appropriate nitrogen-fixing bacterium is a good practice. Always inoculate if seeding soybeans in soils not previously cropped to soybeans. On older soybean ground, there is no guarantee that N-fixing bacteria will be present to inoculate the seed, thus, consider inoculation cheap insurance that N-fixing bacteria will be present.

Use care when evaluating the yield performance of entries in each table. Entries tested for two years may also have a top yield group value in the 2012 yield column. Each company selects the appropriate maturity group trial (maturity group-0, -I, or -II trial) and locations for their entries. There are, however, no standard regional or national check varieties for maturity. It is suggested you compare the reported maturity rating of every entry you are considering with the days to maturity (DTM) calculated for each entry at each location.

Phytophthora root rot (PRR) is an important soybean disease in South Dakota and is often controlled or managed with the use of resistant varieties. Resistance to *Phytophthora* root rot is fungus-race specific. Thus, resistance to one PRR race does not always impart resistance to other races. Knowledge of the prevalent PRR races in your area is important. If you suspect you have a PRR problem, using varieties with a wide range of rot resistance is strongly suggested. The gene resistance of each variety to PRR is supplied by each seed company (proprietary

entries) or by the USDA (Uniform Soybean Tests, Northern States, public entries). The PRR gene for each entry, as given by the seed company is reported in each yield table. Specific race resistance to PRR can be determined by cross-referencing the PRR gene reported in each yield table with table A (glyphosate-resistant entries) to find the resistant races. Currently, races -1, -3, and -4 are the most common races in South Dakota.



Map of Soybean Maturity Zones and Trial Site Locations

Table A. *Phytophthora* Root Rot race resistance by gene code and name.

PRR Code	Gene Name	Race Resistance
0	rps1	None
1A	Rps1, Rps1a	1-2,10-11,13,15-18,24
1B	Rps1b	1,3-9,13-15,18,21-22
1C	Rps1c	1-3,6-11,13,15,17,21,23-24
1K	Rps1k	1-11,13-15,17-18,21-22,24
2	Rps2	1-5,9-20
3,3a	Rps3, 3a	1-5,8-9,11,13-14,16,18,23,25
4	Rps4	1-4,10,12-16,18-21,25
5	Rps5	1-5,8-9,11-14,18,20,25
6	Rps6	1-4,10,12,14-16,18-21,25
7	Rsp7	16,18,19
K6	Rps1k, Rps6	1-22,24-25
C3	Rps1c, Rps3	1-10,13-18,22-25
B3	Rps1b	1-9,13-16,18,21-23,25
NR	NR	Not Reported

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Table B. General test information.

Trial: Glyphosate and Non-glyphosate resistant soybean trial results - MG-0 & -I
 Cooperator: Northeast Research Farm - South Shore, Al Heuer and staff
 Soil Type: Kranzburg silty clay loam, 0-6% slope
 Tillage: Conventional
 Fertility Yield-Goal: 70 bushel
 Previous Crop: Spring wheat (stubble)
 Row Space: 30 inches
 Seeding Population: 165,000/acre
 Soil Inoculant: Nitragin-brand Soybean Soil Implant down the seed tube by label instructions
 Weed Control: Glyphosate-resistant trials: 1 qt. Roundup
 Non-glyphosate-resistant trials: Preemergence, 1qt Dual 2
 Insect Control: None
 Disease Control: None
 Date Seeded: May 14, 2012

Plot yields were adjusted to 13% moisture content and expressed in bushels per acre. Harvest was accomplished using a Massey Ferguson 8XP small plot combine. Explanations of the various references contained within the performance tables can be found in table C.

Table C. Explanation of performance table references [.]	
No.	Explanation of references
[1]	Seed treatment as reported by seed company.
[2]	Phytophthora root rot (PRR) gene reported by seed company, cross-reference with table A.
[3]	Maturity rating reported by seed company.
[4]	Days to maturity (DTM) – the number of days to maturity from seeding to 95% brown pod. If data is missing [.] the plots were exposed to a killing frost before they attained the 95% brown pod stage.
[5]	Lodging ratings: 0= all plants erect, 3= 50% of plants lodged at 45°-angle, 5= all plants flat.
	Shatter ratings: 1= none, 2= 1-10%, 3= 10-20%, 4= 25-50%, 5= > 50% pods shattered.
[6]	Least Significant Difference (LSD 0.05) – the difference two values within a column must equal or exceed to be significantly different from one another at the 0.05 level of probability. If the difference is less than the LSD value the difference between the values is nonsignificant (NS).
[7]	TPG-avg. – the minimum value within a column that entry yield values must equal or exceed to qualify for the top-performance group (TPG).
[8]	TPG-avg. – the maximum value within a column that lodging or shatter rating values must equal or be less than to qualify for the TPG.
[9]	Coefficient of variation (C.V.) - the percent of experimental error associated with a test trial. Ideally, the CV values for yield are less than 15%. If the yield CV values exceed 15% the trial contained too much experimental error to be a valid, thus no data analysis for the table yield column is reported.

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Table 1. Glyphosate-resistant soybean variety performance results - MG-0, South Shore

Brand/ Variety __Seed Trt.[1] __PRR gene [2] __Mat. rtg. [3]	DTM [4]	Yield Averages* bu/a		2012
		2-Yr	2012	Ldg. Rtg. (1-5) [5]
MUSTANG/ 06942 __Acceleron __0 __ 0.6	105	45	37	1
PRAIRIE BR./ EXP 0913 __NR __NR __ 0.9	105	45	36	1
G-2 GENETICS/ 6098 __Trilex+Allegiance+Gaucho __1k __ 0.9	103	44	38	1
ASGROW/ AG0832 __Acceleron+Poncho/Votivo __3 __ 0.8	108	44	37	1
MUSTANG/ 09822 __Acceleron __1k __ 0.9	106	44	36	1
SEEDS 2000/ 2091 RR2YN __NR __0 __ 0.9	106	43	37	1
WENSMAN/ W 3099R2 __Acceleron __1k __ 0.9	111	43	36	1
HEFTY/ H07Y12 __NR __1k __ 0.7	107	43	35	1
PRAIRIE BR./ PB-1120R2 __NR __NR __ 0.9	112	42	37	1
DAIRYLAND/ DSR-0747/R2Y __Cruiser Maxx __1c __ 0.7	104	42	36	1
SODAK GENET./ SD1093RR __NR __0 __ 0.9	105	42	36	1
PRAIRIE BR./ PB-0851R2 __NR __NR __ 0.8	106	42	35	1
G-2 GENETICS/ 6088 __Trilex+Allegiance+Gaucho __0 __ 0.8	106	42	33	1
G-2 GENETICS/ 6092 __Trilex+Allegiance+Gaucho __1k __ 0.9	105	41	34	1
PRAIRIE BR./ PB-1061R2 __NR __NR __ 0.9	109	.	40	1
SEEDS 2000/ 2051 RR2Y __NR __0 __ 0.5	105	.	40	1
PRAIRIE BR./ PB-1261R2 __NR __NR __ 0.9	108	.	38	1
WENSMAN/ W 3076R2 __Acceleron __3 __ 0.7	107	.	37	1
PIONEER/ 90Y81 __PPST Pkg. __1c __ 0.8	104	.	36	1
DAIRYLAND/ DSR-0904/R2Y __Cruiser Maxx __3 __ 0.8	105	.	36	1
PRAIRIE BR./ PB-0920R2 __NR __NR __ 0.9	106	.	36	1
WENSMAN/ W 3090NR2 __Acceleron __3 __ 0.9	107	.	36	1
MUSTANG/ 08733 __Acceleron __3 __ 0.8	106	.	35	1
HEFTY/ EXP-H02R3 __NR __1k __ 0.2	103	.	35	1
HEFTY/ EXP-H08R3 __NR __3 __ 0.8	105	.	35	1
PRAIRIE BR./ PB-0863R2 __NR __NR __ 0.7	105	.	35	1
SODAK GENET./SD2061R2Y __Cruiser Maxx __1c __ 0.6	106	.	35	1
SODAK GENET./SD2091R2Y __Cruiser Maxx __1c __ 0.9	104	.	34	1
HEFTY/ H06Y11 __NR __0 __ 0.6	107	.	33	1
PETERSON/ PFS 11R08 __NR __3 __ 0.8	107	.	33	1
ASGROW/ AG0833 __Acceleron+Poncho/Votivo __3 __ 0.8	106	.	29	1
Test avg. :	106	43	36	1
High avg. :	112	45	40	1
Low avg. :	103	41	29	1
[6] Test LSD (.05):		NS**	5	0
[7] Min.TPG-avg. :		41	35	.
[8] Max.TPG-avg. :		.	.	1
[9] Test Coef. Var.:		6	8	0
No. Entries:	31	14	31	31

NOTE: Table reference numbers [1-9] are explained in Table C.
 * Shaded values within a yield or lodging rating column are included in the top-performance group (TPG). Therefore, look for varieties that have shaded values within each yield or lodging rating column.
 ** Indicates differences between values within a yield or lodging rating column are non-significant (NS).

Table 2. Glyphosate-resistant soybean variety performance results - MG-I, South Shore

Brand/ Variety/ __Seed Trt.[1] __PRR gene [2] __Mat. rtg. [3]	DTM [4]	Yield Averages* bu/a		2012 Ldg.Rtg. (1-5) [5]
		2-Yr	2012	
SEEDS 2000/ 2121 RR2Y __NR __3 __ 1.2	109	43	39	1
HEFTY/ H13Y11 __NR __1c __ 1.3	113	43	38	1
MUSTANG/ 11302 __Acceleron __3 __ 1.1	107	43	37	1
ASGROW/ AG1031 __Acceleron+Poncho/Votivo __3 __ 1.0	108	43	36	1
PRAIRIE BR./ PB-1591R2 __NR __NR __ 1.5	115	42	38	1
PRAIRIE BR./ PB-1320R2 __NR __NR __ 1.3	113	42	37	1
HEFTY/ H15Y12 __NR __3 __ 1.5	112	42	36	1
DAIRYLAND/ DSR-1370/R2Y __Cruiser Maxx __1c __ 1.3	112	42	35	1
CHANNEL/ 1405R2 __Acceleron __1c __ 1.4	105	42	35	1
STINE/ 11RC08 __NR __3a __ 1.1	107	42	34	1
G-2 GENETICS/ 6162 __Trilex+Allegiance+Gaucho __1c __ 1.6	108	42	31	1
REA/ 75G12 __NR __1c __ 1.5	111	41	36	1
WENSMAN/ W 3140R2 __Acceleron __0 __ 1.4	114	41	36	1
CHANNEL/ 1105R2 __Acceleron __3 __ 1.1	107	41	35	1
WENSMAN/ W 3108R2 __Acceleron __3 __ 1.0	108	41	35	1
ASGROW/ AG1431 __Acceleron+Poncho/Votivo __1c __ 1.4	107	41	34	1
ASGROW/ AG1631 __Acceleron+Poncho/Votivo __1c __ 1.6	110	41	34	1
WENSMAN/ W 3120R2 __Acceleron __1c __ 1.2	111	41	34	1
PRAIRIE BR./ PB-1823R2 __NR __NR __ 1.8	113	40	36	1
PRAIRIE BR./ PB-1722R2 __NR __NR __ 1.7	114	39	35	1
REA/ 71G20 __NR __0 __ 1.1	106	39	34	1
REA/ 72G21 __NR __1c __ 1.3	112	39	34	1
HEFTY/ H16Y11 __NR __1c __ 1.6	110	39	33	1
PRAIRIE BR./ PB-1743R2 __NR __NR __ 1.7	111	39	33	1
HEFTY/ H16Y12 __NR __1k __ 1.6	112	37	34	1
HEFTY/ H11Y12 __NR __3 __ 1.1	108	.	38	1
STINE/ 16RD66 __NR __1c __ 1.6	114	.	38	1
SODAK GENET./SD2172R2Y __Cruiser Maxx __1c __ 1.7	108	.	38	1
PRAIRIE BR./ EXP 12151 __NR __NR __ 1.5	109	.	37	1
HEFTY/ EXP-H14R3 __NR __1c __ 1.4	110	.	36	1
DAIRYLAND/ DSR-1710/R2Y __Cruiser Maxx __1c __ 1.7	112	.	36	1
CHANNEL/ 1805R2 __Acceleron __1c __ 1.8	113	.	36	1
WENSMAN/ W 3160NR2 __Acceleron __1c __ 1.6	109	.	36	1
ASGROW/ AG1233 __Acceleron+Poncho/Votivo __1k __ 1.2	111	.	35	1
G-2 GENETICS/ 7186 __Trilex+Allegiance+Gaucho __1k __ 1.7	112	.	35	1
PETERSON/ PFS 11R10 __NR __1c __ 1.0	106	.	35	1
PRAIRIE BR./ EXP 12161 __NR __NR __ 1.6	115	.	35	1
PRAIRIE BR./ PB-1637R2 __NR __NR __ 1.6	111	.	35	1
WENSMAN/ W 3101R2 __Acceleron __1c __ 1.0	106	.	35	1
NORTHSTAR/ NS 1257R2 __Acceleron __3 __ 1.1	108	.	35	1
NORTHSTAR/ NS 1528NR2 __Acceleron __1c __ 1.5	112	.	35	1
PIONEER/ 91Y74 __PPST Pkg. __1k __ 1.7	113	.	34	1
HEFTY/ H17Y12 __NR __1k __ 1.7	111	.	34	1
HEFTY/ H18Y11 __NR __1c __ 1.8	114	.	34	1
G-2 GENETICS/ 7183 __Trilex+Allegiance+Gaucho __1c __ 1.8	113	.	34	1

Table 2. Glyphosate-resistant soybean variety performance results - MG-I, South Shore (continued)

Brand/ Variety__Seed Trt.[1] __PRR gene [2] __Mat. rtg. [3]	DTM [4]	Yield Averages* bu/a		2012 Ldg.Rtg. (1-5) [5]
		2-Yr	2012	
CHANNEL/ 1606R2 __Acceleron __3a __ 1.6	110	.	34	1
PETERSON/ PFS 12R12 __NR __3 __ 1.1	108	.	34	1
PRAIRIE BR./ PB-1433R2 __NR __NR __ 1.4	111	.	34	1
PRAIRIE BR./ PB-1566R2 __NR __NR __ 1.5	110	.	34	1
SODAK GENET./SD2101R2Y __Cruiser Maxx __1k __ 1.0	107	.	34	1
MUSTANG/ 14323 __Acceleron __1c __ 1.4	111	.	33	1
PIONEER/ 91Y01 __PPST Pkg. __1c __ 1.0	106	.	33	1
HEFTY/ H18Y12 __NR __0 __ 1.8	115	.	33	1
SODAK GENET./SD2149R2Y __Cruiser Maxx __NR __ 1.4	109	.	33	1
G-2 GENETICS/ 6143 __Trilex+Alllegiance+Gaucho __1c __ 1.4	107	.	32	1
SODAK GENET./SD2181NR2Y __Cruiser Maxx __1c __ 1.8	112	.	32	1
PIONEER/ 91Y10 __PPST Pkg. __1c __ 1.1	105	.	31	1
WENSMAN/ W 3142NR2 __Acceleron __1k __ 1.4	109	.	31	1
HEFTY/ H12Y11 __NR __3 __ 1.2	107	.	30	1
PIONEER/ 91Y30 __PPST Pkg. __1c __ 1.3	107	.	28	1
Test avg. :	110	41	35	1
High avg. :	115	43	39	1
Low avg. :	105	37	28	1
[6] Test LSD (.05):		NS**	5	0
[7] Min.TPG-avg. :		37	34	.
[8] Max.TPG-avg. :		.	.	1
[9] Test Coef. Var.:		6	8	0
No. Entries:	60	25	60	60

NOTE: Table reference numbers [1-9] are explained in Table C.
 * Shaded values within a yield or lodging rating column are included in the top-performance group (TPG). Therefore, look for varieties that have shaded values within each yield or lodging rating column.
 ** Indicates differences between values within a yield or lodging rating column are non-significant (NS).

Table 3. Non-glyphosate resistant soybean variety performance results for maturity groups-0 and -I -South Shore.

Brand/ Variety	DTM [1]	Yield average by maturity group					
		MG-0		2012 Ldg. Rtg. (1-5) [2]	MG-I		2012 Ldg. Rtg. (1-5) [2]
		Yield-bu/a			Yield-bu/a		
		2-yr	2012	2-yr	2012		
SEEDS 2000/ 2082L	108	.	45	1	.	.	.
PETERSON/ PFS L08-11	108	.	44	1	.	.	.
PUBLIC/ SURGE	108	43	43	1	.	.	.
RICHLAND ORG./ MK0508	106	38	39	1	.	.	.
SK FOOD INTL/ SK0786	104	39	39	1	.	.	.
RICHLAND ORG./ MK831	104	40	38	1	.	.	.
SK FOOD INTL/ SK095	105	36	34	1	.	.	.
SK FOOD INTL/ SK0796	105	.	34	1	.	.	.
RICHLAND ORG./ TITAN	106	.	.	.	.	43	1
PETERSON/ PFS L11-13N	109	.	.	.	.	39	1
NORTHSTAR/ EXPNS1428NLL	118	.	.	.	.	39	1
PUBLIC/ DEUEL	111	.	.	.	41	39	1
PUBLIC/ BROOKINGS	116	.	.	.	41	39	1
RICHLAND ORG./ CHALLENGER	114	.	.	.	.	37	1
NORTHSTAR/ NS1128NLL	109	.	.	.	.	36	1
RICHLAND ORG./ MK9101	108	.	.	.	38	34	1
SK FOOD INTL/ SK9801	108	.	.	.	41	34	1
RICHLAND ORG./ MK1016	105	.	.	.	37	33	1
Test avg.:	108	39	40	1	40	37	1
High avg.:	118	43	45	1	41	43	1
Low avg.:	104	36	34	1	37	33	1
[6] LSD (.05):		NS**	6	0	NS	5	0
[7] Min. TPG avg.:		36	39	.	37	38	.
[8] Max. TPG avg.:		.	.	1	.	.	1
[9] Coef. Var.:	4	6	8	20	6	7	0

NOTE: Table reference numbers [1-9] are explained in Table C.

* Shaded values within a yield or lodging rating column are included in the top-performance group (TPG). Therefore, look for varieties that have shaded values within each yield or lodging rating column.

** Indicates differences between values within a yield or lodging rating column are non-significant (NS).

GLYPHOSATE-RESISTANT SOYBEAN VARIETY TRIAL RESULTS

Maturity Group-0 (Table 1):

The two-year and 2011 test-yield averages were **43** and **36** bushels per acre, respectively; the lodging rating average was **1**. Varieties had to average **41** bushels and **35** bushels or higher to be in the top yield group for two years and for 2012, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2012 variety yield differences had to differ by **5** bushels to be significantly different. Variety lodging rating value differences were not significant, so all entries were in the top performance group.

Maturity Group-I (Table 2):

The two-year and 2012 test-yield averages were **41** and **35** bushels per acre, respectively, and the lodging rating average was **1**. Varieties had to average **37** and **34** bushels or higher to be in the top yield group for two years and for 2012, respectively. Variety yield differences among the two-year

averages were not significant (NS), while the 2012 variety yield differences had to differ by **5** bushels to be significantly different. Variety lodging rating values equaled **1**, so all entries were in the top performance group.

NON-GLYPHOSATE-RESISTANT SOYBEAN VARIETY TRIAL RESULTS

Maturity Group-0 (Table 3):

The two-year and 2012 yield averages were **39** and **40** bushels per acre, respectively; and the lodging score average was **1** (table 3). Varieties had to average **36** bushels or higher for two years and **39** bushels or higher for 2012 to be in the top yield group. Variety yield differences among the two-year averages were not significant (NS), while the 2012 variety yield differences had to differ by **6** bushels to be significantly different. Variety lodging rating values indicated there was no difference in lodging resistance in the varieties tested in 2012.

Maturity Group-I (Table 3): The two-year and 2012 and test-yield averages were **40** and **37** bushels per acre, respectively; and the lodging rating average was **1** (table 3). Varieties had to average **37** bushels or higher for two years and **38** bushels or higher for 2012 to be in the top yield group. Variety yield differences among the two-year averages were not significant (NS), while the 2012 variety yield differences had to differ by **5** bushels to be significantly different. Variety lodging score values indicated there was no difference in lodging resistance in the varieties tested in 2012.



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OCTOBER 2012

SDSU EXTENSION

Soybean production is greatly affected by variety selection.

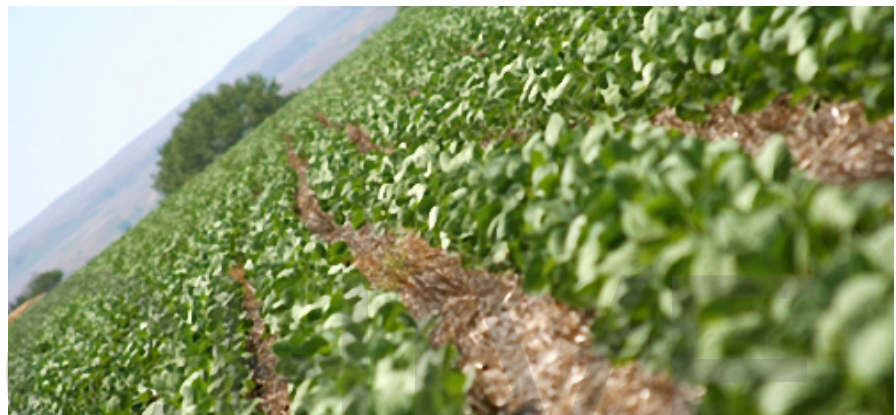
This circular reports the agronomic performance of entries in the 2012 South Dakota performance trials for glyphosate-resistant. Major factors in variety selection include yield, maturity, lodging resistance, and *Phytophthora* root rot resistance.

Major factors in variety selection include:

- Yield
- Maturity
- Lodging resistance
- *Phytophthora* root rot resistance

Soybean Variety Performance Trials Results – Geddes

Robert G. Hall | SDSU Extension Agronomist
Kevin K. Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager



Soybean production is greatly affected by variety selection. This circular reports the agronomic performance of entries in the 2012 South Dakota performance trials for glyphosate-resistant and non-glyphosate-resistant soybean varieties. Major factors in variety selection include yield, maturity, lodging resistance, and *Phytophthora* root rot resistance.

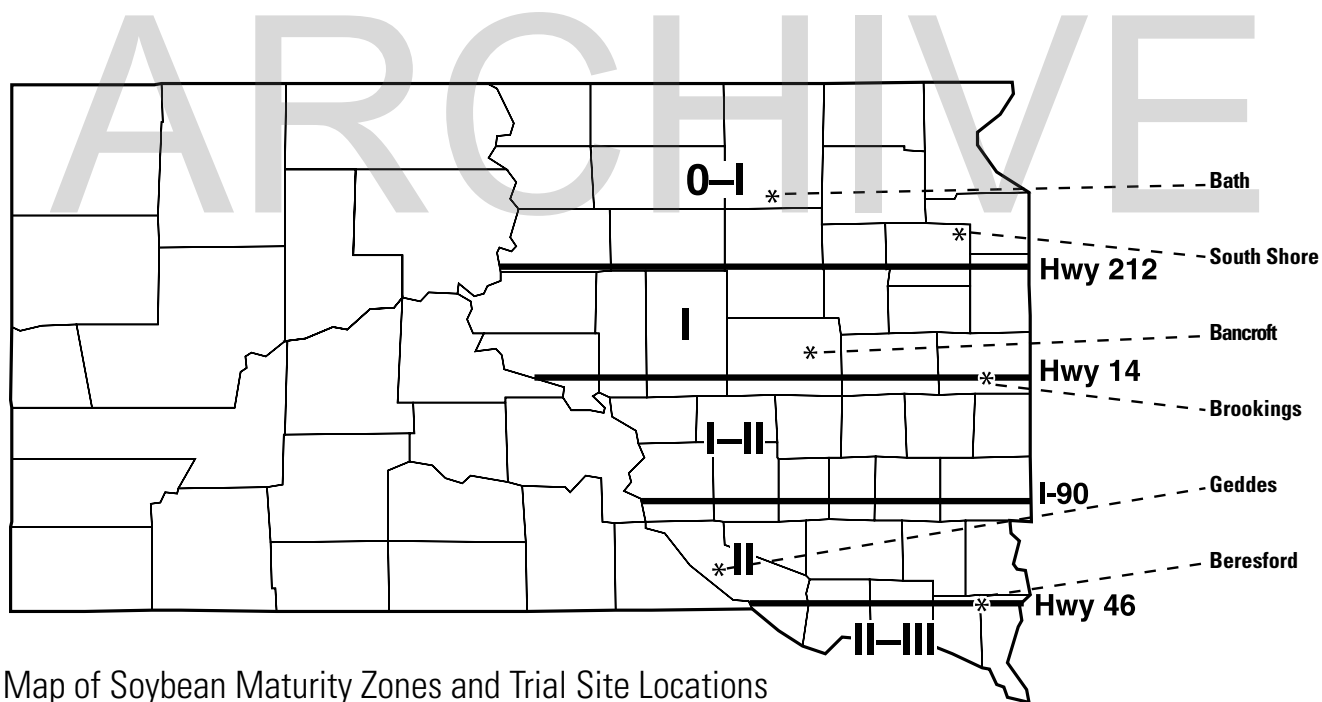
Soybean varieties are classified according to maturity groups that in turn are adapted to maturity zones. Maturity zones are based on day length and therefore are affected by latitude. The very early maturity group-00 varieties are best suited to Canada and bordering regions of the U.S., while maturity group-0, group-I, and group-II varieties are suited to South Dakota. The later groups III-VIII are suited to Iowa, Nebraska, and south to Texas.

Inoculation of seed with the appropriate nitrogen-fixing bacterium is a good practice. Always inoculate if seeding soybeans in soils not previously cropped to soybeans. On older soybean ground, there is no guarantee that N-fixing bacteria will be present to inoculate the seed, thus, consider inoculation cheap insurance that N-fixing bacteria will be present.

Use care when evaluating the yield performance of entries in each table. Entries tested for two years may also have a top yield group value in the 2012 yield column. Each company selects the appropriate maturity group trial (maturity group-0, -I, or -II trial) and locations for their entries. There are, however, no standard regional or national check varieties for maturity. It is suggested you compare the reported maturity rating of every entry you are considering with the days to maturity (DTM) calculated for each entry at each location.

Phytophthora root rot (PRR) is an important soybean disease in South Dakota and is often controlled or managed with the use of resistant varieties. Resistance to *Phytophthora* root rot is fungus-race specific. Thus, resistance to one PRR race does not always impart resistance to other races. Knowledge of the prevalent PRR races in your area is important. If you suspect you have a PRR problem, using varieties with a wide range of rot resistance is strongly suggested. The gene resistance of each variety to PRR is supplied by each seed company (proprietary

entries) or by the USDA (Uniform Soybean Tests, Northern States, public entries). The PRR gene for each entry, as given by the seed company is reported in each yield table. Specific race resistance to PRR can be determined by cross-referencing the PRR gene reported in each yield table with table A (glyphosate-resistant entries) to find the resistant races. Currently, races -1, -3, and -4 are the most common races in South Dakota.



Map of Soybean Maturity Zones and Trial Site Locations

Table A. *Phytophthora* Root Rot race resistance by gene code and name.

PRR Code	Gene Name	Race Resistance
0	rps1	None
1A	Rps1, Rps1a	1-2,10-11,13,15-18,24
1B	Rps1b	1,3-9,13-15,18,21-22
1C	Rps1c	1-3,6-11,13,15,17,21,23-24
1K	Rps1k	1-11,13-15,17-18,21-22,24
2	Rps2	1-5,9-20
3,3a	Rps3, 3a	1-5,8-9,11,13-14,16,18,23,25
4	Rps4	1-4,10,12-16,18-21,25
5	Rps5	1-5,8-9,11-14,18,20,25
6	Rps6	1-4,10,12,14-16,18-21,25
7	Rsp7	16,18,19
K6	Rps1k, Rps6	1-22,24-25
C3	Rps1c, Rps3	1-10,13-18,22-25
B3	Rps1b	1-9,13-16,18,21-23,25
NR	NR*	Not Reported

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Table B. General test information.

Location	Glyphosate resistant soybean trial results - MG-I and -II
Cooperator:	Curtis Sybesma Farm - Geddes
Soil type:	Highmore-Walke silt loam, 0-2% slope
Tillage:	No-till
Fertility yield-goal:	70 bushels
Previous crop:	Corn
Row space:	30 inches
Seeding population	165,000/acre
Soil inoculant:	Nitragin-brand Soybean Soil Implant down the seed tube by label instructions
Weed control:	1 qt. Roundup
Insect control:	None
Disease control:	None
Date seeded:	May 15, 2012

Plot yields were adjusted to 13% moisture content and expressed in bushels per acre. Harvest was accomplished using a Massey Ferguson 8XP small plot combine. Explanations of the various references contained within the performance tables can be found in table C.

Table C.Explanation of performance table references [.]	
No.	Explanation of references
[1]	Seed treatment as reported by seed company.
[2]	Phytophthora root rot (PRR) gene reported by seed company, cross-reference with table A.
[3]	Maturity rating reported by seed company.
[4]	Days to maturity (DTM) – the number of days to maturity from seeding to 95% brown pod.If data is missing [.] the plots were exposed to a killing frost before they attained the 95% brown pod stage.
[5]	Lodging ratings:0= all plants erect, 3= 50% of plants lodged at 45°-angle, 5= all plants flat. Shatter ratings: 1= none, 2= 1-10%, 3= 10-20%, 4= 25-50%, 5= > 50% pods shattered.
[6]	Least Significant Difference (LSD 0.05) – the difference two values within a column must equal or exceed to be significantly different from one another at the 0.05 level of probability.If the difference is less than the LSD value the difference between the values is nonsignificant (NS).
[7]	TPG-avg. – the minimum value within a column that entry yield values must equal or exceed to qualify for the top-performance group (TPG).
[8]	TPG-avg. – the maximum value within a column that lodging or shatter rating values must equal or be less than to qualify for the TPG.
[9]	Coefficient of variation (C.V.) - the percent of experimental error associated with a test trial.Ideally, the CV values for yield are less than 15%.If the yield CV values exceed 15% the trial contained too much experimental error to be a valid, thus no data analysis for the table yield column is reported.

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Table 1. Glyphosate-resistant soybean variety performance results - MG-I, Geddes

Brand/ Variety Seed Trt. [1] PRR Gene [2] Mat. rtg. [3]	DTM [4]	Yield Averages* bu/a		2012 Shatter Rtg. (1-5) [5]
		2-Yr	2012	
PRAIRIE BR./ PB-1823R2 __NR __NR __ 1.8	118	44	37	1
PRAIRIE BR./ PB-1591R2 __NR __NR __ 1.5	115	41	32	1
PRAIRIE BR./ PB-1722R2 __NR __NR __ 1.7	114	38	29	1
PRAIRIE BR./ PB-2042R2 __NR __NR __ 1.9	116	38	26	2
PRAIRIE BR./ EXP 12161 __NR __NR __ 1.6	114	.	38	1
HEFTY/ H13Y11 __NR __1c __ 1.3	116	.	33	1
HEFTY/ H18Y11 __NR __1c __ 1.8	114	.	32	1
PRAIRIE BR./ EXP 12201 __NR __NR __ 1.9	118	.	32	1
PRAIRIE BR./ EXP 12245P __NR __NR __ 1.9	119	.	32	1
PRAIRIE BR./ EXP 12228P __NR __NR __ 1.9	118	.	31	1
HEFTY/ H16Y12 __NR __1k __ 1.6	115	.	29	1
HEFTY/ H15Y12 __NR __3 __ 1.5	114	.	28	1
SOKAK GENET./ SD2149R2Y __Cruiser Maxx __NR __ 1.4	115	.	28	1
SODAK GENET./ SD2181NR2 __Cruiser Maxx __1c __ 1.8	118	.	27	1
HEFTY/ H18Y12 __NR __0 __ 1.8	115	.	25	2
SODAK GENET./ SD2172R2Y __Cruiser Maxx __1c __ 1.7	118	.	25	1
HEFTY/ H16Y11 __NR __1c __ 1.6	118	.	24	2
PRAIRIE BR./ PB-1743R2 __NR __NR __ 1.7	118	.	24	1
HEFTY/ H17Y12 __NR __1k __ 1.7	118	.	20	2
SODAK GENET./ SD2101R2Y __Cruiser Maxx __1k __ 1	112	.	19	3
PRAIRIE BR./ PB-1566R2 __NR __NR __ 1.5	116	.	17	3
HEFTY/ EXP-H14R3 __NR __1c __ 1.4	118	.	16	3
Test avg. :	116	40	27	1
High avg. :	119	44	38	3
Low avg. :	112	38	16	1
[6] Test LSD (.05):	119	NS**	6	1
[7] Min.TPG-avg. :	119	38	32	.
[8] Max.TPG-avg. :	119	.	.	2
[9] Test Coef. Var.:	2	12	14	33
No. Entries:	22	4	22	22

NOTE: Table reference numbers [1-9] are explained in Table C.
 * Shaded values within a yield or shatter rating column are included in the top-performance group (TPG). Therefore, look for varieties that have shaded values within each yield or shatter rating column.
 ** Indicates differences between values within a yield or shatter rating column are non-significant (NS).

Table 2. Glyphosate-resistant soybean variety performance results - MG-II, Geddes

Brand/ Variety Seed Trt. [1] PRR Gene [2] Mat. rtg. [3]	DTM [4]	Yield Averages* bu/a		2012 Shatter Rtg. (1-5) [5]
		2-Yr	2012	
WENSMAN/ W 3256NR2 __Acceleron __3 __ 2.5	115	41	28	1
PRAIRIE BR./ PB-2544R2 __NR __NR __ 2.5	115	41	27	1
HEFTY/ H23Y12 __NR __1k __ 2.3	116	40	28	1
ASGROW/ AG2931 __Acceleron+Poncho/Votivo __1c __ 2.9	125	39	30	1
PIONEER/ 92Y51 __PPST Pkg. __1k __ 2.5	116	39	27	1
G-2 GENETICS/ 7250 __Trilex+Allegiance+Gaucho __1k __ 2.5	122	39	25	1
ASGROW/ AG2431 __Acceleron+Poncho/Votivo __1c __ 2.4	122	39	24	1
ASGROW/ AG2031 __Acceleron+Poncho/Votivo __1c __ 2	120	39	20	3
G-2 GENETICS/ 7290 __Trilex+Allegiance+Gaucho __1k __ 2.9	122	38	27	1
CHANNEL/ 2105R2 __Acceleron __1c __ 2.1	121	38	24	3
WENSMAN/ W 3230R2 __Acceleron __1c __ 2.3	123	38	23	1
HEFTY/ H22Y12 __NR __1c __ 2.2	121	38	19	1
PIONEER/ 92Y70 __PPST Pkg. __NR __ 2.7	124	37	25	2
PRAIRIE BR./ PB-2391R2 __NR __NR __ 2.3	123	37	23	1
CHANNEL/ 2402R2 __Acceleron __1c __ 2.4	123	37	22	1
PRAIRIE BR./ PB-2242R2 __NR __NR __ 2.2	116	37	22	1
MUSTANG/ 23530 __Acceleron __1c __ 2.3	122	37	20	1
PIONEER/ 93M11 __PPST Pkg. __1k __ 2.9	122	36	22	1
DAIRYLAND/ DSR-2105/R2Y __Cruiser Maxx __1k __ 2.1	115	36	20	1
WENSMAN/ W 3284NR2 __Acceleron __1c __ 2.8	124	35	24	1
PRAIRIE BR./ PB-2419RR2 __NR __NR __ 2.4	123	35	22	1
HEFTY/ H23Y10 __NR __1c __ 2.3	122	35	21	1
ASGROW/ AG2232 __Acceleron+Poncho/Votivo __1c __ 2.2	120	35	17	2
HEFTY/ H20Y12 __NR __1c __ 2	117	35	15	3
G-2 GENETICS/ 7203 __Trilex+Allegiance+Gaucho __0 __ 2	121	34	17	2
WENSMAN/ W 3200NR2 __Acceleron __1c+1k __ 2	120	32	12	4
DAIRYLAND/ DSR-2799/R2Y __Cruiser Maxx __0 __ 2.8	123	.	32	1
HEFTY/ EXP-H27R3 __NR __1c __ 2.7	125	.	30	1
PIONEER/ 92Y62 __PPST Pkg. __1k __ 2.6	123	.	29	1
G-2 GENETICS/ 7230 __Trilex+Allegiance+Gaucho __1c __ 2.3	122	.	29	1
G-2 GENETICS/ 1272 __Trilex+Allegiance+Gaucho __1k __ 2.7	119	.	29	1
PIONEER/ 92Y32 __PPST Pkg. __1c __ 2.3	121	.	28	1
DAIRYLAND/ DSR-2677/R2Y __Cruiser Maxx __1k __ 2.7	123	.	28	1
STINE/ 26RD02 __NR __1c __ 2.6	122	.	28	1
ASGROW/ AG2933 __Acceleron+Poncho/Votivo __c3 __ 2.9	123	.	27	1
MUSTANG/ 25333 __Acceleron __NR __ 2.4	121	.	26	1
HEFTY/ H26R3S __NR __1k __ 2.6	121	.	26	1
STINE/ 27RD00 __Cruiser Maxx __1c __ 2.7	121	.	26	1
G-2 GENETICS/ 7273 __Trilex+Allegiance+Gaucho __1k __ 2.7	120	.	26	1
G-2 GENETICS/ 7270 __Trilex+Allegiance+Gaucho __1k __ 2.7	122	.	26	1
PRAIRIE BR./ PB-2351R2 __NR __NR __ 2.3	122	.	26	1
PRAIRIE BR./ PB-2668R2 __NR __NR __ 2.6	122	.	26	1
PIONEER/ 92Y83 __PPST Pkg. __1k __ 2.8	123	.	25	1
PRAIRIE BR./ PB-2366R2 __NR __NR __ 2.3	123	.	25	2
ASGROW/ AG2433 __Acceleron+Poncho/Votivo __1c __ 2.4	117	.	24	1

Table 2. Glyphosate-resistant soybean variety performance results - MG-II, Geddes (continued)

Brand/ Variety Seed Trt. [1] PRR Gene [2] Mat. rtg. [3]	DTM [4]	Yield Averages* bu/a		2012 Shatter Rtg. (1-5) [5]
		2-Yr	2012	
MUSTANG/ 22823 __Acceleron __1k __ 2.2	116	.	24	1
STINE/ 25RD00 __Cruiser Maxx __0 __ 2.5	124	.	24	1
SODAK GENET./ SD2201NR2 __Cruiser Maxx __1c __ 2	123	.	24	1
ASGROW/ AG2733 __Acceleron+Poncho/Votivo __1k __ 2.7	122	.	23	1
MUSTANG/ 26623 __Acceleron __1c __ 2.6	122	.	23	1
HEFTY/ EXP-H20R3 __NR __1c __ 2	121	.	23	1
HEFTY/ EXP-H24R3 __NR __3 __ 2.4	119	.	23	1
STINE/ 24RB00 __Cruiser Maxx __1c __ 2.4	123	.	23	1
G-2 GENETICS/ 7243 __Trilex+Allegiance+Gaucho __1k __ 2.4	116	.	23	1
NORTHSTAR/ NS 2377NR2 __Acceleron __1k __ 2.3	117	.	23	1
RENK/ RS241R2 __NR __1c __ 2.4	123	.	23	1
RENK/ RS263NR2 __NR __1k __ 2.6	121	.	23	1
G-2 GENETICS/ 7286 __Trilex+Allegiance+Gaucho __1c __ 2.8	125	.	22	1
PRAIRIE BR./ PB-2143R2 __NR __NR __ 2.1	121	.	22	1
PRAIRIE BR./ PB-2230R2 __NR __NR __ 2.2	121	.	22	1
WENSMAN/ W 3222NR2 __Acceleron __1c __ 2.2	122	.	22	1
NORTHSTAR/ NS 2118NR2 __Acceleron __1k __ 21.4	123	.	22	2
DAIRYLAND/ DSR-2411/R2Y __Cruiser Maxx __1c __ 2.4	122	.	21	1
CHANNEL/ 2305R2 __Acceleron __1k __ 2.3	117	.	21	1
PRAIRIE BR./ PB-2650R2 __NR __NR __ 2.6	121	.	21	1
MUSTANG/ 21993 __Acceleron __1k __ 2.1	121	.	20	2
HEFTY/ EXP-H26R3 __NR __1c __ 2.6	122	.	20	2
STINE/ 20RD20 __Cruiser Maxx __1c __ 2	121	.	19	2
G-2 GENETICS/ 7213 __Trilex+Allegiance+Gaucho __1c __ 2.1	122	.	19	1
HEFTY/ EXP-H21R3 __NR __1k __ 2.1	120	.	17	2
G-2 GENETICS/ 7208 __Trilex+Allegiance+Gaucho __1c __ 2	116	.	11	4
Test avg. :	121	37	23	1
High avg. :	125	41	32	4
Low avg. :	115	32	11	1
[6] Test LSD (.05):		8	5	<1
[7] Min.TPG-avg. :		33	27	.
[8] Max.TPG-avg. :		.	.	1
[9] Test Coef. Var.:		9	13	28
No. Entries:	71	26	71	71

NOTE: Table reference numbers [1-9] are explained in Table C.

* Shaded values within a yield or shatter rating column are included in the top-performance group (TPG). Therefore, look for varieties that have shaded values within each yield or shatter rating column.

GLYPHOSATE-RESISTANT SOYBEAN VARIETY TRIAL RESULTS

Maturity Group-I (Table 1): The two-year and 2012 test-yield averages were 40 and 27 bushels per acre, respectively; the lodging rating average was 1. Varieties had to average 38 bushels and 32 bushels or higher to be in the top yield group for two years and for 2012, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2012 variety yield differences had to differ by 6 bushels to be significantly different. Lodging was not a problem at Geddes, but shattering was a significant issue. Therefore, shattering ratings were taken and reported. Look for low numbers in the shatter rating column. Variety shatter rating values of 2 or less were in the top-performance group for shattering resistance in this test trial in 2012.

Maturity Group-II (Table 2):

The two-year and 2012 test-yield averages were 37 and 23 bushels per acre, respectively; and the shatter rating average was 1. Varieties had to average 33 and 27 bushels or higher to be in the top yield group for two years and for 2012, respectively. The two-year yield differences had to differ by 8 bushels per acre to be significantly different; while the 2012 variety yield differences had to differ by 5 bushels to be significantly different. Variety shattering rating values of 1 were in the top-performance group for shattering resistance. Variety shatter rating values had to differ by 1 to be significantly different in 2012. The level of shattering at Geddes undoubtedly had an effect on the poor yield performance because of the drought at this site.

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OCTOBER 2012

SDSU EXTENSION

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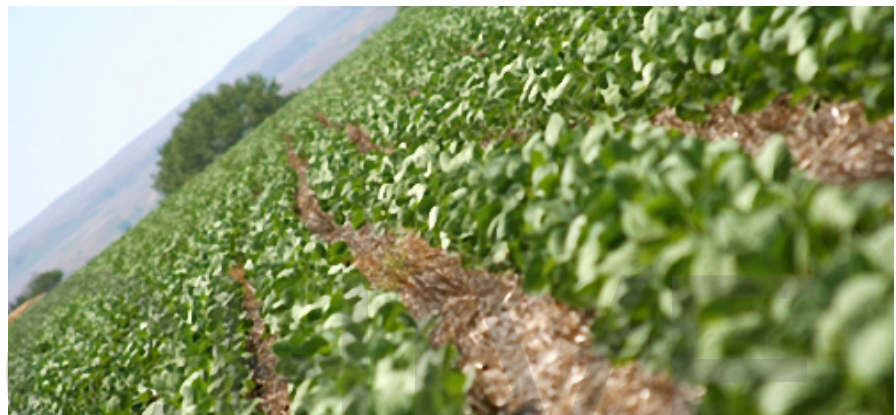
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- Maturity
- Lodging resistance
- *Phytophthora* root rot resistance

Soybean Variety Performance Trials Results – Beresford

Robert G. Hall | SDSU Extension Agronomist
Kevin K. Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager



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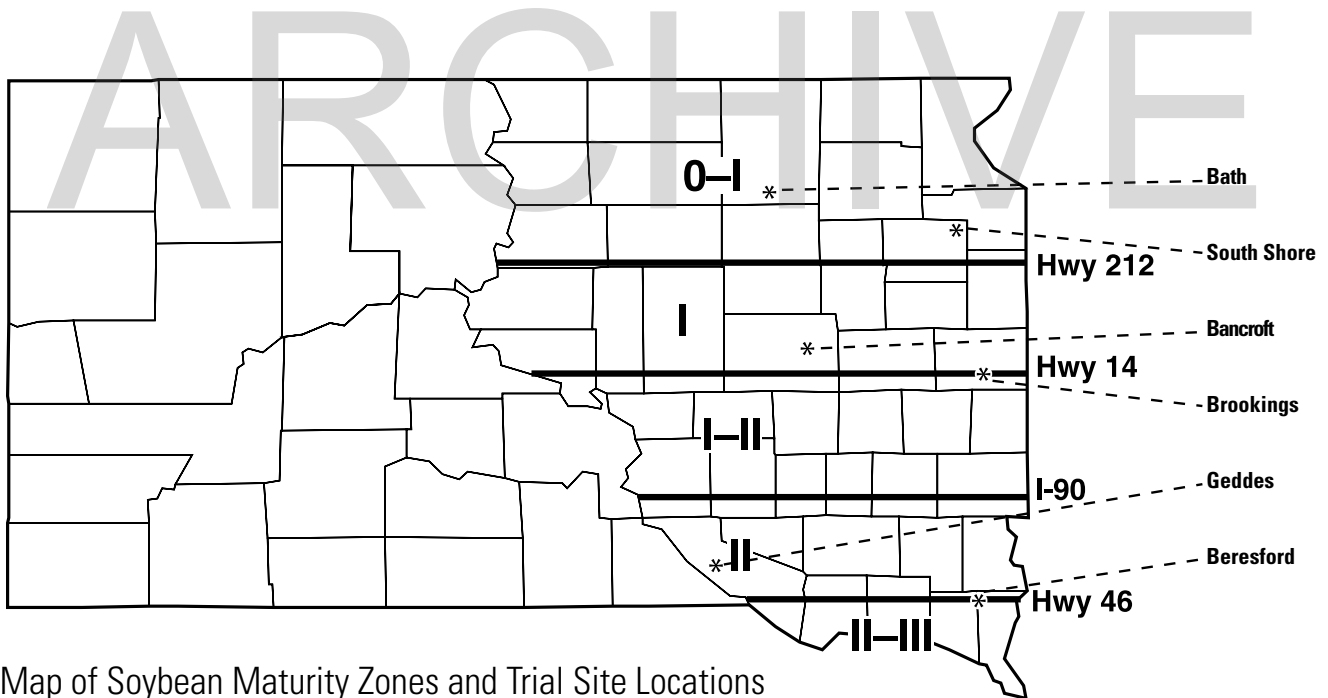
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entries) or by the USDA (Uniform Soybean Tests, Northern States, public entries). The PRR gene for each entry, as given by the seed company is reported in each yield table. Specific race resistance to PRR can be determined by cross-referencing the PRR gene reported in each yield table with table A (glyphosate-resistant entries) to find the resistant races. Currently, races -1, -3, and -4 are the most common races in South Dakota.



Map of Soybean Maturity Zones and Trial Site Locations

Table A. *Phytophthora* Root Rot race resistance by gene code and name.

PRR Code	Gene Name	Race Resistance
0	rps1	None
1A	Rps1, Rps1a	1-2, 10-11, 13, 15-18, 24
1B	Rps1b	1, 3-9, 13-15, 18, 21-22
1C	Rps1c	1-3, 6-11, 13, 15, 17, 21, 23-24
1K	Rps1k	1-11, 13-15, 17-18, 21-22, 24
2	Rps2	1-5, 9-20
3, 3a	Rps3, 3a	1-5, 8-9, 11, 13-14, 16, 18, 23, 25
4	Rps4	1-4, 10, 12-16, 18-21, 25
5	Rps5	1-5, 8-9, 11-14, 18, 20, 25
6	Rps6	1-4, 10, 12, 14-16, 18-21, 25
7	Rsp7	16, 18, 19
K6	Rps1k, Rps6	1-22, 24-25
C3	Rps1c, Rps3	1-10, 13-18, 22-25
B3	Rps1b	1-9, 13-16, 18, 21-23, 25
NR	NR	Not Reported

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Table B. General test information.

Location	Glyphosate and Non-glyphosate resistant soybean trial results - MG-I &-II
Cooperator:	Southeast Experiment Station – Beresford, Peter Sexton and staff
Soil Type:	Egan-Clarno-Trent silty clay loam, 0-2% slope
Tillage:	Conventional
Fertility Yield-Goal:	70 bushels
Previous Crop:	Corn
Row Space:	30 inches
Seeding Population	165,000/acre
Soil Inoculant:	Nitragin-brand Soybean Soil Implant down the seed tube by label instructions
Weed Control:	Glyphosate-resistant trials: 2 qt./a Roundup+1 qt./a Dual+10 oz./a Border, 1 qt. Roundup Non-glyphosate-resistant trials: Post, 4 oz./a Raptor + 4 oz./a Cadet
Insect Control:	1.5 pt./a Lorsban for spider mites
Disease Control:	None
Date Seeded:	May 16, 2012

Plot yields were adjusted to 13% moisture content and expressed in bushels per acre. Harvest was accomplished using a Massey Ferguson 8XP small plot combine. Explanations of the various references contained within the performance tables can be found in table C.

Table C. Explanation of performance table references [.]	
No.	Explanation of references
[1]	Seed treatment as reported by seed company.
[2]	Phytophthora root rot (PRR) gene reported by seed company, cross-reference with table A.
[3]	Maturity rating reported by seed company.
[4]	Days to maturity (DTM) – the number of days to maturity from seeding to 95% brown pod. If data is missing [.] the plots were exposed to a killing frost before they attained the 95% brown pod stage.
[5]	Lodging ratings: 0= all plants erect, 3= 50% of plants lodged at 45°-angle, 5= all plants flat. Shatter ratings: 1= none, 2= 1-10%, 3= 10-20%, 4= 25-50%, 5= > 50% pods shattered.
[6]	Least Significant Difference (LSD 0.05) – the difference two values within a column must equal or exceed to be significantly different from one another at the 0.05 level of probability. If the difference is less than the LSD value the difference between the values is nonsignificant (NS).
[7]	TPG-avg. – the minimum value within a column that entry yield values must equal or exceed to qualify for the top-performance group (TPG).
[8]	TPG-avg. – the maximum value within a column that lodging or shatter rating values must equal or be less than to qualify for the TPG.
[9]	Coefficient of variation (C.V.) - the percent of experimental error associated with a test trial. Ideally, the CV values for yield are less than 15%. If the yield CV values exceed 15% the trial contained too much experimental error to be a valid, thus no data analysis for the table yield column is reported.

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Table 1. Glyphosate-resistant soybean variety performance results - MG-I, Beresford.

Brand/ Variety__Seed Trt.[1] __PRR gene [2] __Mat. rtg. [3]	DTM [4]	Yield Averages* bu/a		2012 Shatter Rtg. (1-5) [5]
		2-Yr	2012	
PRAIRIE BR./ PB-1591R2 __NR __NR __ 1.5	108	40	27	2
PRAIRIE BR./ PB-1823R2 __NR __NR __ 1.8	110	39	24	1
PRAIRIE BR./ PB-2042R2 __NR __NR __ 1.9	110	38	20	2
PRAIRIE BR./ PB-1722R2 __NR __NR __ 1.7	105	36	17	1
HEFTY/ H13Y11 __NR __1c __ 1.3	106	.	24	1
PRAIRIE BR./ EXP 12228P __NR __NR __ 1.9	109	.	24	1
PRAIRIE BR./ EXP 12201 __NR __NR __ 1.9	106	.	23	1
PRAIRIE BR./ EXP 12161 __NR __NR __ 1.6	107	.	22	1
PRAIRIE BR./ EXP 12245P __NR __NR __ 1.9	112	.	22	1
HEFTY/ H18Y11 __NR __1c __ 1.8	110	.	21	1
HEFTY/ H16Y11 __NR __1c __ 1.6	107	.	20	2
PRAIRIE BR./ PB-1743R2 __NR __NR __ 1.7	106	.	20	1
HEFTY/ H15Y12 __NR __3 __ 1.5	106	.	19	1
HEFTY/ H16Y12 __NR __1k __ 1.6	105	.	19	1
SODAK GENET./SD2181NR2Y/ __Cruiser Maxx __1c __ 1.8	107	.	19	1
HEFTY/ H17Y12 __NR __1k __ 1.7	108	.	18	1
PRAIRIE BR./ PB-1566R2 __NR __NR __ 1.5	103	.	18	3
SODAK GENET./SD2149R2Y/ __Cruiser Maxx __NR __ 1.4	102	.	18	3
HEFTY/ H18Y12 __NR __0 __ 1.8	105	.	17	1
HEFTY/ EXP-H14R3 __NR __1c __ 1.4	102	.	17	2
SODAK GENET./SD2172R2Y/ __Cruiser Maxx __1c __ 1.7	101	.	15	3
SODAK GENET./SD2101R2Y/ __Cruiser Maxx __1k __ 1.0	103	.	11	3
Test avg. :	106	38	20	2
High avg. :	112	40	27	3
Low avg. :	101	36	11	1
[6] Test LSD (.05):		NS**	4	<1
[7] Min.TPG-avg. :		36	23	.
[8] Max.TPG-avg. :		.	.	1
[9] Test Coef. Var.:		6	12	21
No. Entries:	22	4	22	22

NOTE: Table reference numbers [1-9] are explained in Table C.

* Shaded values within a yield or shatter rating column are included in the top-performance group (TPG).

Therefore, look for varieties that have shaded values within each yield or shatter rating column.

** Indicates differences between values within a yield or shatter rating column are non-significant (NS).

Table 2. Glyphosate-resistant soybean variety performance results - MG-II, Beresford

Brand/ Variety __Seed Trt.[1] __PRR gene [2] __Mat. rtg. [3]	DTM [4]	Yield Averages* bu/a		2012 Shatter Rtg. (1-5) [5]
		2-Yr	2012	
PIONEER/ 93M11 __PPST Pkg. __1k __ 2.9	119	36	22	1
PRAIRIE BR./ PB-2391R2 __NR __NR __ 2.3	110	36	18	1
WENSMAN/ W 3284NR2 __Acceleron __1c __ 2.8	119	35	22	1
PRAIRIE BR./ PB-2544R2 __NR __NR __ 2.5	108	35	19	1
PIONEER/ 92Y51 __PPST Pkg. __1k __ 2.5	112	35	15	1
G-2 GENETICS/ 7250 __Trilex+Allegiance+Gaucho __1k __ 2.5	116	34	16	2
ASGROW/ AG2931 __Acceleron+Poncho/Votivo __1c __ 2.9	118	34	15	1
ASGROW/ AG2031 __Acceleron+Poncho/Votivo __1c __ 2.0	106	34	14	3
G-2 GENETICS/ 7203 __Trilex+Allegiance+Gaucho __0 __ 2.0	109	33	15	3
PRAIRIE BR./ PB-2242R2 __NR __NR __ 2.2	108	33	14	1
MUSTANG/ 23530 __Acceleron __1c __ 2.3	111	33	13	1
ASGROW/ AG2232 __Acceleron+Poncho/Votivo __1c __ 2.2	109	33	12	2
WENSMAN/ W 3200NR2 __Acceleron __1c+1k __ 2.0	107	33	12	4
G-2 GENETICS/ 7290 __Trilex+Allegiance+Gaucho __1k __ 2.9	117	32	19	1
PIONEER/ 92Y70 __PPST Pkg. __NR __ 2.7	119	32	15	1
WENSMAN/ W 3256NR2 __Acceleron __3 __ 2.5	110	32	15	1
PRAIRIE BR./ PB-2419RR2 __NR __NR __ 2.4	113	32	13	2
ASGROW/ AG2431 __Acceleron+Poncho/Votivo __1c __ 2.4	111	32	12	1
CHANNEL/ 2105R2 __Acceleron __1c __ 2.1	107	32	7	3
STINE/ 24RB00 __Cruiser Maxx __1c __ 2.4	109	31	13	1
DAIRYLAND/ DSR-2105/R2Y __Cruiser Maxx __1k __ 2.1	108	31	12	2
RENK/ RS241R2 __NR __1c __ 2.4	111	31	9	1
WENSMAN/ W 3230R2 __Acceleron __1c __ 2.3	110	30	10	1
CHANNEL/ 2402R2 __Acceleron __1c __ 2.4	110	30	9	1
ASGROW/ AG2933 __Acceleron+Poncho/Votivo __c3 __ 2.9	118	.	22	2
PIONEER/ 92Y83 __PPST Pkg. __1k __ 2.8	121	.	22	1
G-2 GENETICS/ 7273 __Trilex+Allegiance+Gaucho __1k __ 2.7	117	.	21	1
ASGROW/ AG2433 __Acceleron+Poncho/Votivo __1c __ 2.4	112	.	20	1
PIONEER/ 92Y62 __PPST Pkg. __1k __ 2.6	118	.	20	1
G-2 GENETICS/ 7243 __Trilex+Allegiance+Gaucho __1k __ 2.4	111	.	20	1
DAIRYLAND/ DSR-2677/R2Y __Cruiser Maxx __1k __ 2.7	117	.	19	1
G-2 GENETICS/ 1272 __Trilex+Allegiance+Gaucho __1k __ 2.7	115	.	19	2
ASGROW/ AG2733 __Acceleron+Poncho/Votivo __1k __ 2.7	118	.	18	1
MUSTANG/ 26623 __Acceleron __1c __ 2.6	110	.	18	2
G-2 GENETICS/ 7270 __Trilex+Allegiance+Gaucho __1k __ 2.7	114	.	18	1
HEFTY/ H22Y12 __NR __1c __ 2.2	109	.	17	1
HEFTY/ EXP-H26R3 __NR __1c __ 2.6	111	.	17	1
G-2 GENETICS/ 7230 __Trilex+Allegiance+Gaucho __1c __ 2.3	115	.	17	1
G-2 GENETICS/ 7213 __Trilex+Allegiance+Gaucho __1c __ 2.1	107	.	17	1
G-2 GENETICS/ 7286 __Trilex+Allegiance+Gaucho __1c __ 2.8	118	.	17	1
PRAIRIE BR./ PB-2351R2 __NR __NR __ 2.3	112	.	17	1
SODAK GENET./SD2201NR2Y __Cruiser Maxx __1c __ 2.0	106	.	17	2
HEFTY/ H23Y10 __NR __1c __ 2.3	112	.	16	2
STINE/ 25RD00 __Cruiser Maxx __0 __ 2.5	110	.	16	2
PRAIRIE BR./ PB-2366R2 __NR __NR __ 2.3	108	.	16	2

Table 2. Glyphosate-resistant soybean variety performance results - MG-II, Beresford (continued)

Brand/ Variety __Seed Trt.[1] __PRR gene [2] __Mat. rtg. [3]	DTM [4]	Yield Averages* bu/a		2012 Shatter Rtg. (1-5) [5]
		2-Yr	2012	
HEFTY/ EXP-H27R3 __NR __1c __ 2.7	119	.	15	1
DAIRYLAND/ DSR-2799/R2Y __Cruiser Maxx __0 __ 2.8	111	.	15	2
NORTHSTAR/ NS 2377NR2 __Acceleron __1k __ 2.3	106	.	15	1
MUSTANG/ 25333 __Acceleron __NR __ 2.4	112	.	14	1
HEFTY/ EXP-H21R3 __NR __1k __ 2.1	108	.	14	3
NORTHSTAR/ NS 2118NR2 __Acceleron __1k __ 2.4	107	.	14	2
HEFTY/ H23Y12 __NR __1k __ 2.3	108	.	13	2
HEFTY/ H26R3S __NR __1k __ 2.6	114	.	13	1
DAIRYLAND/ DSR-2411/R2Y __Cruiser Maxx __1c __ 2.4	113	.	13	1
PRAIRIE BR./ PB-2650R2 __NR __NR __ 2.6	112	.	13	1
PRAIRIE BR./ PB-2668R2 __NR __NR __ 2.6	116	.	13	1
RENK/ RS213NR2 __NR __1c __ 2.1	108	.	13	3
STINE/ 20RD20 __Cruiser Maxx __1c __ 2.0	106	.	12	2
STINE/ 26RD02 __NR __1c __ 2.6	111	.	12	1
STINE/ 27RD00 __Cruiser Maxx __1c __ 2.7	110	.	12	1
MUSTANG/ 21993 __Acceleron __1k __ 2.1	109	.	11	3
HEFTY/ EXP-H20R3 __NR __1c __ 2.0	108	.	11	2
PRAIRIE BR./ PB-2143R2 __NR __NR __ 2.1	110	.	11	1
WENSMAN/ W 3222NR2 __Acceleron __1c __ 2.2	107	.	11	2
MUSTANG/ 22823 __Acceleron __1k __ 2.2	108	.	10	1
HEFTY/ H20Y12 __NR __1c __ 2.0	108	.	10	2
HEFTY/ EXP-H24R3 __NR __3 __ 2.4	108	.	10	3
CHANNEL/ 2305R2 __Acceleron __1k __ 2.3	106	.	10	1
PRAIRIE BR./ PB-2230R2 __NR __NR __ 2.2	110	.	10	3
RENK/ RS263NR2 __NR __1k __ 2.6	107	.	10	1
G-2 GENETICS/ 7208 __Trilex+Allegiance+Gaucho __1c __ 2.0	107	.	7	3
Test avg. :	111	33	15	2
High avg. :	121	36	22	4
Low avg. :	106	30	7	1
[6] Test LSD (.05):		NS**	.	1
[7] Min.TPG-avg. :		30	.	.
[8] Max.TPG-avg. :		.	.	2
[9] Test Coef. Var.:		10	28	43
No. Entries:	71	24	71	71

NOTE: Table reference numbers [1-9] are explained in Table C.

* Shaded values within a yield or shatter rating column are included in the top-performance group (TPG). Therefore, look for varieties that have shaded values within each yield or shatter rating column.

** Indicates differences between values within a yield or shatter rating column are non-significant (NS).

Table 3. Non-glyphosate resistant soybean variety performance results for maturity groups-I and -II -Beresford.

Brand/ Variety	DTM [4]	Yield and Shatter Rtg. averages by maturity group					
		MG-I			MG-II		
		Yield-bu/a		2012 Shatter. Rtg. (1-5) [5]	Yield-bu/a		2012 Shatter Rtg (1-5) [5]
		2-yr	2012		2-yr	2012	
RICHLAND ORG./ CHALLENGER	108	.	21	1	.	.	.
NORTHSTAR/ EXPNS1428NLL	111	.	21	1	.	.	.
PUBLIC/ DEUEL	107	33	20	1	.	.	.
PUBLIC/ BROOKINGS	113	.	20	1	.	.	.
RICHLAND ORG./ MK1016	104	30	18	2	.	.	.
RICHLAND ORG./ TITAN	99	.	18	3	.	.	.
NORTHSTAR/ NS1128NLL	103	.	18	2	.	.	.
RICHLAND ORG./ MK9101	101	30	15	2	.	.	.
PUBLIC/ DAVISON	110	.	.	.	37	22	1
Test avg.:	106	31	19	2	37	22	1
High avg.:	113	33	21	3	.	.	.
Low avg. :	99	30	15	1	.	.	.
[6] LSD (.05):		NS**	4	1			
[7] Min. TPG avg.:		30	17	.			
[8] Max. TPG avg.:		.	.	1			
[9] Coef. Var.:	5	6	12	0	.	.	.

NOTE: Table reference numbers [1-9] are explained in Table C.

* Shaded values within a yield or lodging score column are included in the top-performance group (TPG). Therefore, look for varieties that have shaded values within each yield or lodging score column.

** Indicates differences between values within a yield or lodging score column are non-significant (NS).

GLYPHOSATE-RESISTANT SOYBEAN VARIETY TRIAL RESULTS

Maturity Group-I (Table 1):

The two-year and 2012 test-yield averages were 38 and 20 bushels per acre, respectively; the shatter rating average was 2. Varieties had to average 36 and 23 bushels or higher to be in the top yield group for two years and for 2012, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2012 variety yield differences had to differ by 4 bushels to be significantly different. Variety shatter rating values had to equal 1 to be in the top performance group for shattering resistance.

Maturity Group-II (Table 2):

The two-year and 2012 test-yield averages were 33 and 15 bushels per acre, respectively, the shatter rating average was 2. In the 2012 yield column, the CV (coefficient of variation) value of 28% indicates there was a high level of experimental effort associated with this yield trial. Generally, CV values exceeding 15% indicates the test trials is invalid because of the high level of experimental error associated with it. Therefore,

no least significant difference (LSD) values or minimum top-performance-group values for yield in 2012 are given. These results show that the MG-I varieties at Beresford were not as affected by the drought in 2012 as was the later maturing MG-II varieties. At this location, as was the case at Geddes, lodging rating (lodging resistance) was not recorded because lodging was not a problem. However, shattering was an issue so the shatter rating (shattering resistance) was recorded, so look for low values. The shattering level at Beresford undoubtedly had an effect on the poor yield performance because of the drought at this site.

NON-GLYPHOSATE-RESISTANT SOYBEAN VARIETY TRIAL RESULTS

Maturity Group-I (Table 3):

The two-year and 2012 yield averages were 31 and 19 bushels per acre, respectively, and the shattering rating average was 2. Varieties had to average 30 and 17 bushels or higher to be in the top yield group for two years and for 2012, respectively. Variety yield differences among the two-year averages were not significant (NS), while the 2012 variety

yield differences had to differ by 4 bushels to be significantly different. Variety shattering rating values had to equal 1 to be in the top performance group for resisting shattering, and shattering values had to differ by 1 to be significantly different.

Maturity Group-II (Table 3):

There was only one released variety tested in 2011 and 2012.



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OCTOBER 2012

SDSU EXTENSION

Soybean production is greatly affected by variety selection.

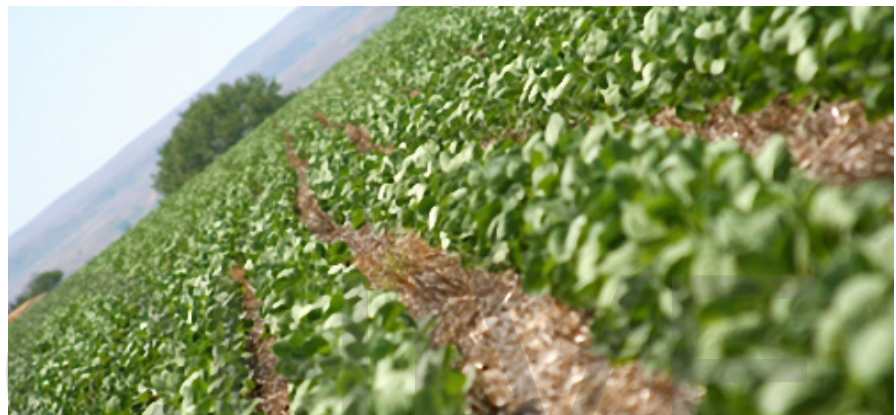
This circular reports the agronomic performance of entries in the 2012 South Dakota performance trials for glyphosate-resistant. Major factors in variety selection include yield, maturity, lodging resistance, and *Phytophthora* root rot resistance.

Major factors in variety selection include:

- Yield
- Maturity
- Lodging resistance
- *Phytophthora* root rot resistance

Soybean Variety Performance Trials Results – Bath

Robert G. Hall | SDSU Extension Agronomist
Kevin K. Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager



Soybean production is greatly affected by variety selection. This circular reports the agronomic performance of entries in the 2012 South Dakota performance trials for glyphosate-resistant and non-glyphosate-resistant soybean varieties. Major factors in variety selection include yield, maturity, lodging resistance, and *Phytophthora* root rot resistance.

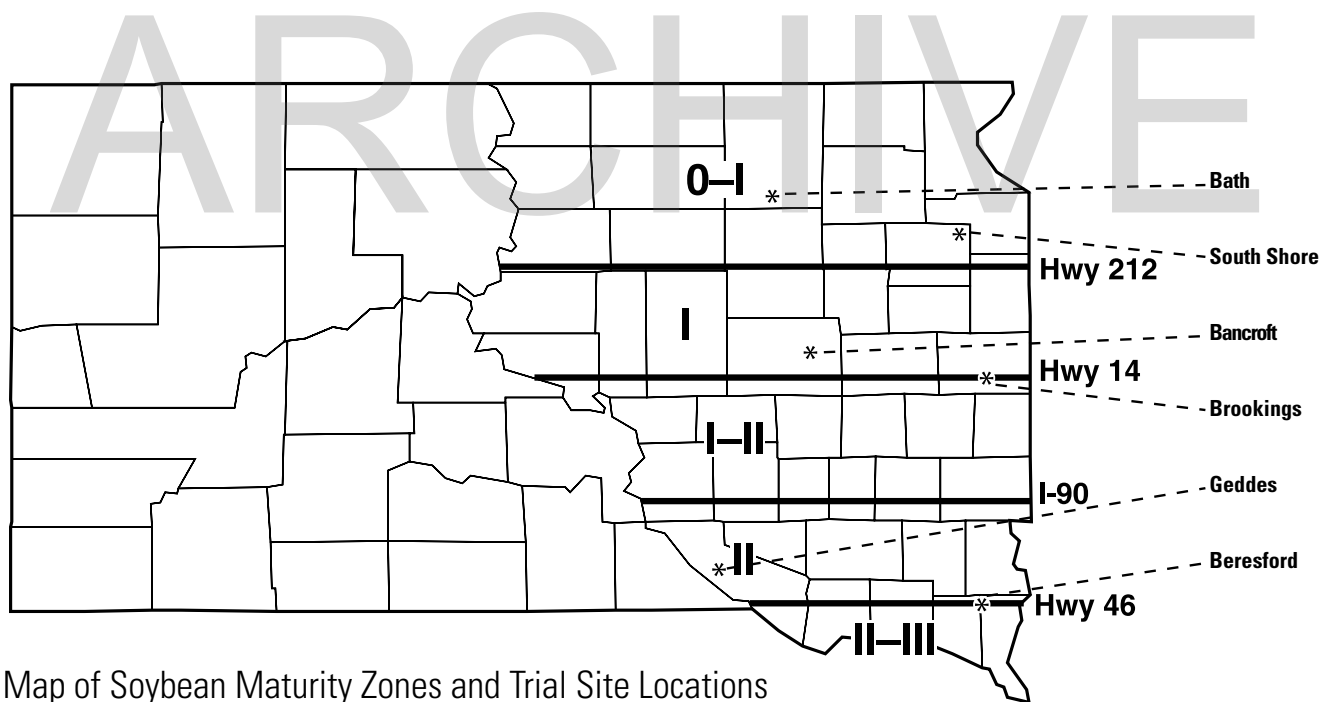
Soybean varieties are classified according to maturity groups that in turn are adapted to maturity zones. Maturity zones are based on day length and therefore are affected by latitude. The very early maturity group-00 varieties are best suited to Canada and bordering regions of the U.S., while maturity group-0, group-I, and group-II varieties are suited to South Dakota. The later groups III-VIII are suited to Iowa, Nebraska, and south to Texas.

Inoculation of seed with the appropriate nitrogen-fixing bacterium is a good practice. Always inoculate if seeding soybeans in soils not previously cropped to soybeans. On older soybean ground, there is no guarantee that N-fixing bacteria will be present to inoculate the seed, thus, consider inoculation cheap insurance that N-fixing bacteria will be present.

Use care when evaluating the yield performance of entries in each table. Entries tested for two years may also have a top yield group value in the 2012 yield column. Each company selects the appropriate maturity group trial (maturity group-0, -I, or -II trial) and locations for their entries. There are, however, no standard regional or national check varieties for maturity. It is suggested you compare the reported maturity rating of every entry you are considering with the days to maturity (DTM) calculated for each entry at each location.

Phytophthora root rot (PRR) is an important soybean disease in South Dakota and is often controlled or managed with the use of resistant varieties. Resistance to *Phytophthora* root rot is fungus-race specific. Thus, resistance to one PRR race does not always impart resistance to other races. Knowledge of the prevalent PRR races in your area is important. If you suspect you have a PRR problem, using varieties with a wide range of rot resistance is strongly suggested. The gene resistance of each variety to PRR is supplied by each seed company (proprietary

entries) or by the USDA (Uniform Soybean Tests, Northern States, public entries). The PRR gene for each entry, as given by the seed company is reported in each yield table. Specific race resistance to PRR can be determined by cross-referencing the PRR gene reported in each yield table with table A (glyphosate-resistant entries) to find the resistant races. Currently, races -1, -3, and -4 are the most common races in South Dakota.



Map of Soybean Maturity Zones and Trial Site Locations

Table A. *Phytophthora* Root Rot race resistance by gene code and name.

PRR Code	Gene Name	Race Resistance
0	rps1	None
1A	Rps1, Rps1a	1-2,10-11,13,15-18,24
1B	Rps1b	1,3-9,13-15,18,21-22
1C	Rps1c	1-3,6-11,13,15,17,21,23-24
1K	Rps1k	1-11,13-15,17-18,21-22,24
2	Rps2	1-5,9-20
3,3a	Rps3, 3a	1-5,8-9,11,13-14,16,18,23,25
4	Rps4	1-4,10,12-16,18-21,25
5	Rps5	1-5,8-9,11-14,18,20,25
6	Rps6	1-4,10,12,14-16,18-21,25
7	Rsp7	16,18,19
K6	Rps1k, Rps6	1-22,24-25
C3	Rps1c, Rps3	1-10,13-18,22-25
B3	Rps1b	1-9,13-16,18,21-23,25
NR	NR	Not Reported

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Table B. General test information.

Location	Glyphosate resistant soybean trial results - MG-0 and -I
Cooperator:	Gordon and Roger Locken Farms - Bath
Soil Type:	Great Bend silt loam, 0-2% slope
Tillage:	No-till
Fertility Yield-Goal:	70 bushels
Previous Crop:	Corn
Row Space:	30 inches
Seeding Population	165,000/acre
Soil Inoculant:	Nitragin-brand Soybean Soil Implant down the seed tube by label instructions
Weed Control:	Optill Pro label rates/ 1 oz. Sharpen, 1 qt. Roundup
Insect Control:	None
Disease Control:	None
Date Seeded:	May 24, 2012

Plot yields were adjusted to 13% moisture content and expressed in bushels per acre. Harvest was accomplished using a Massey Ferguson 8XP small plot combine. Explanations of the various references contained within the performance tables can be found in table C.

Table C. Explanation of performance table references [.]

No.	Explanation of references
[1]	Seed treatment as reported by seed company.
[2]	Phytophthora root rot (PRR) gene reported by seed company, cross-reference with table A.
[3]	Maturity rating reported by seed company.
[4]	Days to maturity (DTM) – the number of days to maturity from seeding to 95% brown pod. If data is missing [.] the plots were exposed to a killing frost before they attained the 95% brown pod stage.
[5]	Lodging ratings: 0= all plants erect, 3= 50% of plants lodged at 45°-angle, 5= all plants flat. Shatter ratings: 1= none, 2= 1-10%, 3= 10-20%, 4= 25-50%, 5= > 50% pods shattered.
[6]	Least Significant Difference (LSD 0.05) – the difference two values within a column must equal or exceed to be significantly different from one another at the 0.05 level of probability. If the difference is less than the LSD value the difference between the values is nonsignificant (NS).
[7]	TPG-avg. – the minimum value within a column that entry yield values must equal or exceed to qualify for the top-performance group (TPG).
[8]	TPG-avg. – the maximum value within a column that lodging or shatter rating values must equal or be less than to qualify for the TPG.
[9]	Coefficient of variation (C.V.) - the percent of experimental error associated with a test trial. Ideally, the CV values for yield are less than 15%. If the yield CV values exceed 15% the trial contained too much experimental error to be a valid, thus no data analysis for the table yield column is reported.

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Brand/ Variety Seed Trt. [1] PRR Gene [2] Mat. rtg. [3]	DTM [4]	Yield Averages* bu/a		2012 Ldg. Rtg. (1-5) [5]
		2-Yr	2012	
DAIRYLAND/ DSR-0747/R2Y __Cruiser Maxx __1c __ 0.7	111	68	65	1
MUSTANG/ 09822 __Acceleron __1k __ 0.9	107	67	65	2
G-2 GENETICS/ 6088 __Trilex+Allegiance+Gaucho __0 __ 0.8	109	67	65	1
SEEDS 2000/ 2091 RR2YN __NR __0 __ 0.9	112	67	63	1
ASGROW/ AG0832 __Acceleron+Poncho/Votivo __3 __ 0.8	109	65	64	1
G-2 GENETICS/ 6098 __Trilex+Allegiance+Gaucho __1k __ 0.9	108	65	64	2
G-2 GENETICS/ 6092 __Trilex+Allegiance+Gaucho __1k __ 0.9	107	65	63	2
PRAIRIE BR./ EXP 0913 __NR __NR __ 0.9	108	65	63	2
PRAIRIE BR./ PB-0851R2 __NR __NR __ 0.8	109	65	62	1
WENSMAN/ W 3099R2 __Acceleron __1k __ 0.9	110	64	62	1
SODAK GENET./ SD1093RR __NR __0 __ 0.9	108	62	59	1
PRAIRIE BR./ PB-1120R2 __NR __NR __ 0.9	120	61	61	2
WENSMAN/ W 3090NR2 __Acceleron __3 __ 0.9	108	.	69	1
PRAIRIE BR./ PB-1261R2 __NR __NR __ 0.9	112	.	68	1
PRAIRIE BR./ PB-0863R2 __NR __NR __ 0.7	110	.	67	1
PRAIRIE BR./ PB-0920R2 __NR __NR __ 0.9	111	.	66	1
WENSMAN/ W 3076R2 __Acceleron __3 __ 0.7	109	.	66	1
SODAK GENET./ SD2061R2Y __Cruiser Maxx __1c __ 0.6	108	.	66	1
DAIRYLAND/ DSR-0904/R2Y __Cruiser Maxx __3 __ 0.8	108	.	65	1
PRAIRIE BR./ PB-1061R2 __NR __NR __ 0.9	111	.	64	1
HEFTY/ H07Y12 __NR __1k __ 0.7	108	.	63	1
SEEDS 2000/ 2051 RR2Y __NR __0 __ 0.5	107	.	62	2
SODAK GENET./ SD2091R2Y __Cruiser Maxx __1c __ 0.9	111	.	62	1
MUSTANG/ 08733 __Acceleron __3 __ 0.8	108	.	61	1
HEFTY/ EXP-H02R3 __NR __1k __ 0.2	107	.	61	1
HEFTY/ EXP-H08R3 __NR __3 __ 0.8	108	.	61	1
PETERSON/ PFS 11R08 __NR __3 __ 0.8	108	.	60	1
PIONEER/ 90Y81 __PPST Pkg. __1c __ 0.8	108	.	58	1
ASGROW/ AG0833 __Acceleron+Poncho/Votivo __3 __ 0.8	107	.	57	1
HEFTY/ H06Y11 __NR __0 __ 0.6	108	.	54	2
Test avg. :	109	65	63	1
High avg. :	120	68	69	2
Low avg. :	107	61	54	1
[6] Test LSD (.05):		5	5	<1
[7] Min.TPG-avg. :		63	64	.
[8] Max.TPG-avg. :		.	.	1
[9] Test Coef. Var.:		4	4	27
No. Entries:	30	12	30	30

NOTE: Table reference numbers [1-9] are explained in Table C.
* Shaded values within a yield or lodging rating column are included in the top-performance group (TPG). Therefore, look for varieties that have shaded values within each yield or lodging rating column.

Brand/ Variety Seed Trt. [1] PRR Gene [2] Mat. rtg. [3]	DTM [4]	Yield Averages* bu/a		2012 Ldg. Rtg. (1-5) [5]
		2-Yr	2012	
CHANNEL/ 1405R2 __Acceleron __1c __ 1.4	116	68	68	1
G-2 GENETICS/ 6162 __Trilex+Allegiance+Gaucho __1c __ 1.6	114	67	70	2
REA/ 71G20 __NR __0 __ 1.1	112	67	68	2
PRAIRIE BR./ PB-1743R2 __NR __NR __ 1.7	117	67	67	1
PRAIRIE BR./ PB-1320R2 __NR __NR __ 1.3	118	65	70	2
PRAIRIE BR./ PB-1823R2 __NR __NR __ 1.8	118	65	70	2
ASGROW/ AG1431 __Acceleron+Poncho/Votivo __1c __ 1.4	113	65	67	2
PRAIRIE BR./ PB-1591R2 __NR __NR __ 1.5	117	65	67	2
REA/ 75G12 __NR __1c __ 1.5	115	65	66	1
CHANNEL/ 1105R2 __Acceleron __3 __ 1.1	116	65	66	2
WENSMAN/ W 3108R2 __Acceleron __3 __ 1	111	65	65	2
DAIRYLAND/ DSR-1370/R2Y __Cruiser Maxx __1c __ 1.3	118	64	68	2
PRAIRIE BR./ PB-1722R2 __NR __NR __ 1.7	116	64	67	1
WENSMAN/ W 3140R2 __Acceleron __0 __ 1.4	117	64	66	2
REA/ 72G21 __NR __1c __ 1.3	120	63	66	2
HEFTY/ H11Y12 __NR __3 __ 1.1	116	63	65	2
WENSMAN/ W 3120R2 __Acceleron __1c __ 1.2	118	63	65	2
ASGROW/ AG1631 __Acceleron+Poncho/Votivo __1c __ 1.6	114	63	63	2
SEEDS 2000/ 2121 RR2Y __NR __3 __ 1.2	111	62	62	1
STINE/ 11RC08 __NR __3a __ 1.1	109	61	62	2
ASGROW/ AG1031 __Acceleron+Poncho/Votivo __3 __ 1	110	61	60	1
PIONEER/ 91Y90 __PPST Pkg. __NR __ 1.9	119	60	61	1
ASGROW/ AG1233 __Acceleron+Poncho/Votivo __1k __ 1.2	116	.	74	1
WENSMAN/ W 3101R2 __Acceleron __1c __ 1	110	.	72	1
SODAK GENET./ SD2172R2Y __Cruiser Maxx __1c __ 1.7	119	.	72	2
PRAIRIE BR./ EXP 12151 __NR __NR __ 1.5	118	.	70	2
WENSMAN/ W 3160NR2 __Acceleron __1c __ 1.6	118	.	70	1
HEFTY/ H10Y12 __NR __1k __ 1	109	.	69	2
PRAIRIE BR./ PB-1566R2 __NR __NR __ 1.5	114	.	69	2
SODAK GENET./ SD2181NR2 __Cruiser Maxx __1c __ 1.8	119	.	69	2
HEFTY/ H16Y12 __NR __1k __ 1.6	120	.	68	1
STINE/ 16RD66 __NR __1c __ 1.6	119	.	68	2
SODAK GENET./ SD2101R2Y __Cruiser Maxx __1k __ 1	109	.	68	2
PIONEER/ 91Y74 __PPST Pkg. __1k __ 1.7	118	.	67	1
HEFTY/ H13Y11 __NR __1c __ 1.3	117	.	67	2
PRAIRIE BR./ PB-1433R2 __NR __NR __ 1.4	116	.	67	2
MUSTANG/ 14323 __Acceleron __1c __ 1.4	116	.	66	1
HEFTY/ EXP-H14R3 __NR __1c __ 1.4	115	.	66	1
PETERSON/ PFS 11R10 __NR __1c __ 1	112	.	66	1
PRAIRIE BR./ EXP 12161 __NR __NR __ 1.6	118	.	66	2
PRAIRIE BR./ PB-1637R2 __NR __NR __ 1.6	118	.	66	2
PIONEER/ 91Y30 __PPST Pkg. __1c __ 1.3	109	.	65	1
PIONEER/ 91Y01 __PPST Pkg. __1c __ 1	108	.	65	2
HEFTY/ H15Y12 __NR __3 __ 1.5	115	.	65	2
DAIRYLAND/ DSR-1710/R2Y __Cruiser Maxx __1c __ 1.7	120	.	65	2

Brand/ Variety Seed Trt. [1] PRR Gene [2] Mat. rtg. [3]	DTM [4]	Yield Averages* bu/a		2012 Ldg. Rtg. (1-5) [5]
		2-Yr	2012	
PETERSON/ PFS 12R12 __NR __3 __ 1.1	109	.	65	2
HEFTY/ H12Y11 __NR __3 __ 1.2	112	.	64	2
HEFTY/ H16Y11 __NR __1c __ 1.6	119	.	64	2
HEFTY/ EXP-H10R3 __NR __3 __ 1	115	.	63	1
NORTHSTAR/ NS 1257R2 __Acceleron __3 __ 1.1	109	.	63	2
WENSMAN/ W 3142NR2 __Acceleron __1k __ 1.4	118	.	62	2
NORTHSTAR/ NS 1528NR2 __Acceleron __1c __ 1.5	114	.	62	1
G-2 GENETICS/ 6143 __Trilex+Allegiance+Gaucho __1c __ 1.4	109	.	61	2
PIONEER/ 91Y81 __PPST Pkg. __1c __ 1.8	118	.	60	1
HEFTY/ H18Y11 __NR __1c __ 1.8	114	.	60	2
SOKAK GENET./ SD2149R2Y __Cruiser Maxx __NR __ 1.4	110	.	60	2
PIONEER/ 91Y10 __PPST Pkg. __1c __ 1.1	108	.	59	1
G-2 GENETICS/ 7186 __Trilex+Allegiance+Gaucho __1k __ 1.7	115	.	59	2
G-2 GENETICS/ 7183 __Trilex+Allegiance+Gaucho __1c __ 1.8	118	.	59	1
MUSTANG/ 15523 __Acceleron __1c __ 1.5	113	.	57	2
Test avg. :	115	64	65	2
High avg. :	120	68	74	2
Low avg. :	108	60	57	1
[6] Test LSD (.05):		NS**	5	<1
[7] Min.TPG-avg. :		60	69	.
[8] Max.TPG-avg. :		.	.	1
[9] Test Coef. Var.:		4	5	28
No. Entries:	60	22	60	60
NOTE: Table reference numbers [1-9] are explained in Table C.				
* Shaded values within a yield or lodging rating column are included in the top-performance group (TPG). Therefore, look for varieties that have shaded values within each yield or lodging rating column.				
** Indicates differences between values within a yield or lodging rating column are non-significant (NS).				

GLYPHOSATE-RESISTANT SOYBEAN VARIETY TRIAL RESULTS

Maturity Group-0 (Table 1):

The two-year and 2012 yield averages were **65** and **63** bushels per acre, respectively; and the lodging rating average was **1**. Varieties had to average **63** and **64** bushels or higher to be in the top yield group for two years and for 2012, respectively. Variety yield differences among both the two-year and 2012 averages had to differ by **5** bu. Variety lodging rating values had to equal **1** to be in the top performance group for lodging resistance and had to differ by less than **1** to be significantly different.

Maturity Group-I (Table 2):

The two-year and 2012 test-yield averages were **64** and **65** bushels per acre, respectively; the lodging rating average was **2**. Varieties had to average **60** and **69** bushels or higher to be in the top yield group for two years and for 2012, respectively. Variety two-year yield averages did not differ significantly. The 2012 variety yield differences had to differ by **5** bushels to be significantly different. Variety lodging score values had to equal **1** to be in the top performance group for lodging resistance and had to differ by **1** to be significantly different.

ARCHIVE

Nathan Mueller | SDSU Extension Agronomist
Kevin Kirby | Ag Research Manager/Specialist
Shawn Hawks | Ag Research Manager/Specialist

Location: Geddes (57342) in Charles Mix County (GPS: UTM 14N, 525540 m East 4797186 m North)
Cooperator: Curtis Sybesma Farm
Soil Type: Highmore silt loam, 0-2% slope, non-irrigated
Soil Tests: 3.8% OM, 6.3 pH, 19 ppm P (Bray P1), 444 ppm K, 1.4 ppm Zn
Previous Crop: Winter Wheat
Tillage: No-till
Row Spacing: 30 inches
Seeding Rate: 165,000/acre
Pest Management: Authority Assist – Pre, Glyphosate - Post
Date planted/harvested: May 31/Oct. 2

Table 1. Glyphosate-resistant soybean variety performance results (average of 3 replications sorted by yield) – Maturity Group 1 Trial at Geddes (1 Brand, 5 varieties).						
Varietal Information			Measurements			
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score	Days to Maturity
Sodak Genetics	SD2172R2Y	1.7	61.6	8.3	1	115
-	CHECK	1.8	59.9	8.3	1	115
Sodak Genetics	SD2101R2Y	1.0	59.4	8.4	1	109
Sodak Genetics	SD2179	1.7	55.9	8.3	1	114
Sodak Genetics	SD2102R2Y	1.0	54.4	8.1	1	108
Sodak Genetics	SD2182R2Y	1.8	50.5	8.5	1	115
Trial Average			57.1	8.3	1	112
LSD (0.05)†			5.5	0.2	NS	4
C.V.			5.5	1.5	-	1.7

† Yield, moisture, lodging, or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

2013 Soybean Variety Trial Results – Geddes

Table 2a. Glyphosate-resistant soybean variety performance results (average of 3 replications sorted by yield) – Maturity Group 2 Trial at Geddes (10 Brands, 55 varieties).

Varietal Information		Measurements				
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score	Days to Maturity
Prairie Brand	PB-2419RR2	2.3	69.7	9.1	1.0	123
Wensman	W 3230R2	2.3	69.0	8.3	1.0	122
Channel	2607R2	2.6	68.4	8.5	1.0	123
Renk	RS241R2	2.4	68.3	8.7	1.0	120
Wensman	W 3222NR2	2.2	67.4	8.1	1.3	118
Stine	22RD00	2.2	66.4	8.0	1.0	117
Asgrow	AG2134	2.1	65.9	8.0	1.0	116
Pioneer	P25T51R	2.5	65.7	8.9	1.3	119
Asgrow	AG2031	2.0	65.6	8.4	1.3	117
Prairie Brand	PB-2024R2	2.0	65.5	8.4	1.0	120
Prairie Brand	PB-2668R2	2.6	65.2	8.3	1.3	119
Prairie Brand	PB-2544R2	2.5	65.2	8.8	2.0	119
Hefty	H23Y10	2.9	65.2	8.4	1.0	119
Wensman	W 3200NR2	2.0	64.7	8.2	1.0	117
Prairie Brand	PB-2798R2	2.7	64.1	8.3	1.0	119
Prairie Brand	PB-2997R2	2.8	63.8	9.0	1.3	121
Channel	2105R2	2.1	63.2	8.7	1.0	119
-	CHECK	1.8	63.0	8.0	1.0	115
Channel	2706R2	2.7	62.8	8.1	1.3	120
Hefty	H23R3	2.9	62.7	8.4	1.7	120
Wensman	W 3214NR2	2.1	62.4	8.2	1.3	116
Channel	2402R2	2.4	62.2	8.2	1.0	119
Renk	RS283NR2	2.8	62.2	8.7	2.0	124
Hefty	H20Y12	2.1	62.1	8.0	1.0	116
Channel	2306R2	2.3	62.1	8.2	1.0	117
Channel	2207R2	2.2	61.8	8.0	1.3	115
Mustang	24322	2.4	61.5	8.7	1.3	118
Prairie Brand	PB-2230R2	2.3	61.4	8.4	1.3	120
Prairie Brand	PB-2650R2	2.5	61.4	8.5	1.0	119
Hefty	H20R3	2.0	61.4	8.5	1.0	117
Prairie Brand	PB-2351R2	2.3	61.3	8.3	1.3	120
Dairyland	DSR-2105/R2Y	2.1	61.0	8.8	1.0	117
Asgrow	AG2733	2.7	60.9	8.7	1.0	121
Pioneer	P22T69R	2.2	60.7	7.6	1.0	115
Hefty	H26R3	2.6	60.5	8.6	1.7	121
Trial Average			61.5	8.5	1.2	119
LSD (0.05)			6.5	0.6	0.6	3
C.V.			6.5	4.3	27.5	1.4

† Yield, moisture, lodging, or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

2013 Soybean Variety Trial Results – Geddes

Table 2a. Glyphosate-resistant soybean variety performance results (average of 3 replications sorted by yield) – Maturity Group 2 Trial at Geddes (10 Brands, 55 varieties).

Varietal Information		Measurements				
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score	Days to Maturity
Pioneer	92Y51	2.5	60.4	8.3	1.0	118
Hefty	H26R3S	2.6	60.4	8.5	1.0	121
Dairyland	DSR-2250/R2Y	2.2	59.8	8.2	1.3	118
Dairyland	DSR-2612/R2Y	2.6	59.6	9.4	1.0	121
Channel	2907R2	2.9	59.2	8.2	1.7	118
Wensman	W 3284NR2	2.8	59.1	8.9	1.3	123
Wensman	W 3256NR2	2.5	58.7	8.5	1.7	119
Pioneer	92Y83	2.8	58.7	8.7	1.0	121
Stine	29RD22	2.8	58.5	10.0	2.0	123
Mustang	26623	2.6	58.1	8.3	1.7	116
Prairie Brand	PB-2506R2	2.5	57.4	8.3	1.0	117
Asgrow	AG2433	2.4	56.8	8.5	1.0	117
Dairyland	DSR-2340/R2Y	2.3	55.6	8.2	1.7	116
Mustang	25333	2.5	55.6	8.7	1.0	119
Pioneer	P24T19R	2.4	55.5	9.1	2.0	120
Stine	24RD03	2.4	55.4	8.4	1.3	118
Asgrow	AG2933	2.9	55.3	9.6	1.3	121
Pioneer	93M11	2.9	55.2	8.9	1.0	120
Hefty	EXP H28R4	2.8	55.0	8.5	1.3	121
Stine	20RD20	2.1	54.1	8.5	1.0	117
Trial Average			61.5	8.5	1.2	119
LSD (0.05)			6.5	0.6	0.6	3
C.V.			6.5	4.3	27.5	1.4

† Yield, moisture, lodging, or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Nathan Mueller | SDSU Extension Agronomist
Kevin Kirby | Ag Research Manager/Specialist
Shawn Hawks | Ag Research Manager/Specialist

Location: 6 miles west & 3 miles south of Beresford (57342) in Clay County
(GPS: UTM 14N, 671008 m East 4768053 m North)

Cooperator: SDSU Southeast Research Center – Peter Sexton and staff

Soil Type: Egan-Clarno-Trent silty clay loam, 0-2% slope, non-irrigated

Previous Crop: Corn

Tillage: Conventional

Row Spacing: 30 inches

Seeding Rate: 165,000/acre

Pest Management: Glyphosate, Dual, Sharpen, Metribuzen – Pre; First Rate, Flexstar – Post

Date seeded/harvested: May 23/Oct. 8

Table 1. Glyphosate-resistant soybean variety performance results (average of 3 replications sorted by yield) – Maturity Group 1 Trial at Beresford (1 Brand, 5 varieties).

Varietal Information		Measurements				
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score	Days to Maturity
Sodak Genetics	SD2172R2Y	1.7	74.3	10.7	1.7	121
Sodak Genetics	SD2182R2Y	1.8	72.9	10.5	1.0	123
Sodak Genetics	SD2179	1.7	72.6	10.8	1.0	123
-	CHECK	1.8	68.8	10.8	1.7	121
Sodak Genetics	SD2101R2Y	1.0	68.0	10.6	1.0	120
Sodak Genetics	SD2102R2Y	1.0	64.8	10.8	2.0	120
Trial Average			70.3	10.7	1.5	121
LSD (0.05)†			4.5	0.2	NS	2
C.V.			3.6	1.0	-	0.6

† Yield, moisture, lodging, or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

2013 Soybean Variety Trial Results – Beresford

Table 2a. Glyphosate-resistant soybean variety performance results (average of 3 replications sorted by yield) – Maturity Group 2 Trial at Beresford (10 Brands, 55 varieties).

Varietal Information		Measurements				
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score	Days to Maturity
Dairyland	DSR-2250/R2Y	2.2	70.7	10.9	1.3	123
Asgrow	AG2134	2.1	70.0	10.6	1.3	123
Prairie Brand	PB-2230R2	2.3	70.0	10.7	1.0	123
Channel	2706R2	2.7	68.9	10.8	2.0	128
Channel	2306R2	2.3	68.8	10.8	1.3	125
Channel	2207R2	2.2	68.6	10.9	1.7	124
Wensman	W 3222NR2	2.2	68.5	10.6	1.3	122
Asgrow	AG2733	2.7	68.0	10.5	1.0	127
Prairie Brand	PB-2351R2	2.3	68.0	10.9	2.0	123
Prairie Brand	PB-2506R2	2.5	67.9	10.8	1.0	126
Mustang	26623	2.6	67.8	10.8	2.3	125
Prairie Brand	PB-2650R2	2.5	67.6	11.1	1.0	129
Pioneer	92Y83	2.8	67.6	10.8	1.3	129
Stine	22RD00	2.2	67.6	10.7	1.7	121
Mustang	24322	2.4	67.5	11.4	2.0	126
Wensman	W 3230R2	2.3	67.4	10.7	1.0	125
Hefty	H23R3	2.9	67.2	10.9	1.7	127
Renk	RS241R2	2.4	67.0	10.7	1.3	126
Prairie Brand	PB-2668R2	2.6	66.6	10.7	1.3	128
Wensman	W3214NR2	2.1	66.3	10.8	1.0	123
Hefty	H26R3	2.6	66.2	10.8	1.7	128
Stine	24RD03	2.4	65.9	10.9	1.3	124
Dairyland	DSR-2105/R2Y	2.1	65.3	10.7	1.0	123
Mustang	25333	2.5	65.1	11.0	1.0	126
Hefty	EXP H28R4	2.8	65.1	11.1	1.7	128
Prairie Brand	PB-2544R2	2.5	65.0	11.5	2.0	125
Stine	26RD02	2.6	65.0	10.9	1.7	128
Wensman	W 3200NR2	2.0	64.9	10.7	1.7	125
Dairyland	DSR-2340/R2Y	2.3	64.9	10.9	1.7	124
Pioneer	93M11	2.9	64.5	10.9	1.0	131
Wensman	W 3256NR2	2.5	64.3	11.2	2.0	125
Prairie Brand	PB-2419RR2	2.3	64.3	10.5	1.7	124
Stine	28RE20	2.8	64.3	10.5	1.3	128
-	CHECK	1.8	64.2	10.7	2.3	123
Asgrow	AG2433	2.4	64.1	10.7	1.0	126
Trial Average			64.9	10.8	1.4	126
LSD (0.05)			5.0	0.3	0.8	1
C.V.			4.8	2.0	36.6	0.5

† Yield, moisture, lodging or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

2013 Soybean Variety Trial Results – Beresford

Table 2a. Glyphosate-resistant soybean variety performance results (average of 3 replications sorted by yield) – Maturity Group 2 Trial at Beresford (10 Brands, 55 varieties).

Varietal Information		Measurements				
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score	Days to Maturity
Prairie Brand	PB-2798R2	2.7	63.7	10.8	1.0	129
Pioneer	P24T19R	2.4	63.4	10.8	1.0	124
Pioneer	P25T51R	2.5	63.2	11.1	1.0	124
Hefty	H20R3	2.0	62.8	10.8	1.7	125
Asgrow	AG2933	2.9	62.7	11.0	1.0	128
Asgrow	AG2031	2.0	62.6	10.6	2.0	128
Hefty	H26R3S	2.6	62.5	11.0	1.0	124
Hefty	H23Y10	2.9	62.4	10.6	1.0	124
Prairie Brand	PB-2997R2	2.8	62.2	10.9	2.3	128
Prairie Brand	PB-2024R2	2.0	62.2	10.8	1.3	126
Dairyland	DSR-2612/R2Y	2.6	62.1	10.9	1.0	127
Hefty	H20Y12	2.1	61.9	10.5	1.0	124
Channel	2607R2	2.6	61.8	10.7	1.0	128
Channel	2402R2	2.4	61.7	10.6	1.7	124
Pioneer	92Y51	2.5	61.7	10.9	1.3	128
Channel	2105R2	2.1	61.4	11.3	1.3	128
Channel	2907R2	2.9	61.1	10.8	1.7	126
Stine	29RD22	2.8	60.4	10.9	1.3	131
Renk	RS283NR2	2.8	58.5	10.9	1.3	129
Wensman	W 3284NR2	2.8	56.5	10.9	1.7	132
Trial Average			64.9	10.8	1.4	126
LSD (0.05)			5.0	0.3	0.8	1
C.V.			4.8	2.0	36.6	0.5

† Yield, moisture, lodging, or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Nathan Mueller | SDSU Extension Agronomist
Kevin Kirby | Ag Research Manager/Specialist
Shawn Hawks | Ag Research Manager/Specialist

Location: 1.5 miles south of Volga (57071) in Brookings County
(GPS: UTM 14N, 665888 m East 4907622 m North)
Cooperator: SDSU Volga Research Farm – Doug Doyle and staff
Soil Type: Brandt silty clay loam, 0-2% slope, non-irrigated
Soil Test: 4.9 % OM, 5.7 pH, 50 ppm P (Bray-P1), 143 ppm K, 1.8 ppm Zn
Previous Crop: Spring wheat
Tillage: Conventional
Row Spacing: 30 inches
Seeding Rate: 165,000/acre
Pest Management: Dual – Pre, Glyphosate – Post
Date seeded/harvested: Jun. 3/ Oct. 1 (Mat. Grp 0s, 1s) & Oct. 9 (Mat. Grp 2s)

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2013 Soybean Variety Trial Results – Volga

Table 1a. Glyphosate-resistant soybean variety performance results (average of 3 replications sorted by yield) – Maturity Group 0 to 1 Trial at Volga (13 Brands, 46 varieties).						
Varietal Information			Measurements			
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score	Days to Maturity
Proseed	PX11	1.1	53.9	8.1	1.0	109
Sodak Genetics	SD2091R2Y	0.9	51.5	8.1	1.0	103
Hefty	EXP H17R4	1.7	51.4	9.0	1.0	112
Sodak Genetics	SD2101R2Y	1.0	51.4	8.1	1.0	106
Sodak Genetics	SD2081R2Y	0.8	51.2	8.0	1.0	106
Proseed	2-140	1.4	50.1	8.5	1.0	109
Rea	71G20	1.1	49.8	8.3	1.0	106
Dairyland	DSR-1515/R2Y	1.5	49.6	8.2	1.0	109
Asgrow	AG1733	1.7	49.3	8.1	1.0	110
Prairie Brand	PB-1539R2	1.5	49.0	8.5	1.0	110
Channel	1405R2	1.4	49.0	8.5	1.0	109
Proseed	PX12	1.2	48.8	8.4	1.0	109
Prairie Brand	PB-1481R2	1.4	48.7	8.4	1.7	110
Rea	71G14	1.1	48.4	8.4	1.3	108
Mustang	12224	1.2	47.9	8.3	1.0	106
Asgrow	AG1431	1.4	47.7	8.2	1.0	108
Wensman	W 3160NR2	1.6	47.3	8.3	1.0	110
Channel	1805R2	1.8	47.3	8.7	1.0	112
Prairie Brand	PB-1611R2	1.6	47.0	8.9	1.0	111
Sodak Genetics	SD2179	1.7	46.6	8.3	1.0	113
Dairyland	DSR-1808/R2Y	1.8	46.6	8.5	1.0	111
Prairie Brand	EXP13151R2	1.5	46.2	8.5	1.0	109
Stine	16RD66	1.6	46.1	8.2	1.0	110
Mustang	14323	1.4	46.0	8.1	1.0	109
Rea	73G13	1.3	45.8	8.2	2.0	109
Prairie Brand	PB-1722R2	1.7	45.6	8.6	1.0	111
Wensman	W 3140R2	1.5	45.5	8.3	1.0	107
Prairie Brand	PB-1566R2	1.5	45.4	8.3	1.0	110
Renk	RS183NR2	1.8	45.3	8.3	1.0	112
Prairie Brand	PB-1982R2	1.9	44.8	8.6	1.0	112
Rea	75G12	1.5	44.3	8.2	1.0	107
Stine	14RD62	1.4	44.2	8.2	1.0	110
Prairie Brand	PB-1843R2	1.8	43.7	8.1	1.0	111
Sodak Genetics	SD2102R2Y	1.0	43.5	8.3	1.0	108
Asgrow	AG1534	1.5	43.5	8.3	1.0	107
Trial Average			45.9	8.4	1.0	109
LSD (0.05)			4.5	0.5	0.4	1
C.V.			6.0	3.5	16.6	0.6

† Yield, moisture, lodging or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

2013 Soybean Variety Trial Results – Volga

Table 1b. Glyphosate-resistant soybean variety performance results (average of 3 replications sorted by yield) – Maturity Group 0 to 1 Trial at Volga (13 Brands, 46 varieties).

Varietal Information			Measurements			
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score	Days to Maturity
Stine	20RD20	1.9	43.0	8.6	1.0	114
Proseed	PX18	1.8	42.9	8.3	1.0	112
-	CHECK	1.8	42.5	8.2	1.0	109
Pioneer	91Y90	1.9	42.5	8.8	1.0	111
Pioneer	P19T60R	1.9	42.3	8.4	1.3	110
Prairie Brand	PB-1591R2	1.5	42.0	8.6	1.0	108
Hefty	EXP H16R4	1.6	41.6	8.1	1.0	110
Prairie Brand	PB-2042R2	1.9	41.2	8.6	1.0	112
Sodak Genetics	SD2172R2Y	1.7	40.2	8.3	1.0	107
Rea	78G12	1.8	37.5	8.3	1.0	112
Sodak Genetics	SD2182R2Y	1.8	35.1	8.2	1.0	111
Trial Average			45.9	8.4	1.0	109
LSD (0.05)			4.5	0.5	0.4	1
C.V.			6.0	3.5	16.6	0.6

† Yield, moisture, lodging, or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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2013 Soybean Variety Trial Results – Volga

Table 2a. Glyphosate-resistant soybean variety performance results (average of 3 replications sorted by yield) – Maturity Group 2 Trial at Volga (11 Brands, 37 varieties).

Varietal Information		Measurements				
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score	Days to Maturity
Prairie Brand	PB-2136R2	2.1	51.4	10.5	1.0	116
-	CHECK	1.8	50.0	10.1	1.0	111
Pioneer	P25T51R	2.5	48.9	11.0	1.0	117
Dairyland	DSR-2105/R2Y	2.1	48.6	10.6	1.0	116
Channel	2207R2	2.2	48.6	10.3	1.0	114
Renk	RS213NR2	2.1	48.5	10.5	1.0	116
Mustang	21993	2.1	47.8	10.3	1.0	115
Pioneer	P22T69R	2.2	47.5	10.6	1.0	114
Prairie Brand	EXP 13241	2.3	47.0	10.8	1.0	118
Asgrow	AG2134	2.1	46.7	10.4	1.0	114
Prairie Brand	PB-2230R2	2.3	46.7	10.5	1.0	116
Pioneer	92Y51	2.5	46.6	10.6	1.3	118
Asgrow	AG2031	2.0	46.3	10.6	1.0	112
Wensman	W 3222NR2	2.2	45.4	10.3	1.0	113
Wensman	W 3200NR2	2.0	45.4	10.3	1.0	112
Prairie Brand	PB-2024R2	2.0	44.6	10.9	1.0	113
Hefty	H20Y12	2.1	44.3	10.2	1.0	112
Proseed	PX21	2.1	44.2	10.5	1.0	112
Rea	82G14	2.2	43.4	10.6	1.0	114
Rea	80G11	2.0	43.0	10.5	1.0	114
Prairie Brand	PB-2419RR2	2.3	42.5	10.4	1.0	117
Prairie Brand	PB-2506R2	2.5	42.0	10.5	1.0	114
Wensman	W 3214NR2	2.1	41.7	10.2	1.0	115
Prairie Brand	PB-2351R2	2.3	41.6	10.4	1.0	112
Pioneer	P24T19R	2.4	40.9	10.9	1.3	116
Wensman	W 3230R2	2.3	40.4	10.2	1.0	112
Hefty	H20R3	2.0	40.3	10.4	1.0	112
Channel	2105R2	2.1	40.3	10.9	1.3	117
Prairie Brand	PB-2544R2	2.5	40.1	11.1	1.0	116
Hefty	H23Y10	2.9	39.9	10.5	1.0	116
Hefty	EXP H28R4	2.8	39.6	10.7	1.0	118
Renk	RS224NR2	2.2	39.5	10.5	1.0	112
Prairie Brand	PB-2668R2	2.6	39.2	10.6	1.0	116
Hefty	H26R3	2.6	37.9	10.7	1.0	116
Prairie Brand	PB-2650R2	2.5	37.9	10.8	1.0	115
Trial Average			43.5	10.6	1.0	114
LSD (0.05)			3.8	0.4	0.3	1
C.V.			5.4	2.3	16.0	0.6

† Yield, moisture, lodging or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

2013 Soybean Variety Trial Results – Volga

Table 2b. Glyphosate-resistant soybean variety performance results (average of 3 replications sorted by yield) – Maturity Group 2 Trial at Volga (11 Brands, 37 varieties).

Varietal Information			Measurements			
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score	Days to Maturity
Hefty	H26R3S	2.6	36.1	10.7	1.0	115
Hefty	H23R3	2.9	35.0	10.5	1.0	114
Trial Average			43.5	10.6	1.0	114
LSD (0.05)			3.8	0.4	0.3	1
C.V.			5.4	2.3	16.0	0.6

† Yield, moisture, lodging, or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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Nathan Mueller | SDSU Extension Agronomist
Kevin Kirby | Ag Research Manager/Specialist
Shawn Hawks | Ag Research Manager/Specialist

Location: 4 miles north and 0.5 miles west of Bancroft (57353) in Kingsbury County
(GPS: UTM 14N, 597828 m East 4932887 m North)

Cooperator: E. Weerts Farm Inc.

Soil Type: Houdek-Stickney loam, 0-2% slope, non-irrigated

Previous Crop: Corn

Tillage: No-till

Row Spacing: 30 inches

Seeding Rate: 165,000/acre

Pest Management: Sharpen – Pre, Glyphosate – Post

Date seeded/harvested: Jun. 5/Oct. 10

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2013 Soybean Variety Trial Results – Bancroft

Table 1a. Glyphosate-resistant soybean variety performance results (average of 3 replications sorted by yield) – Maturity Group 0 to 1 Trial at Bancroft (12 Brands, 50 varieties).						
Varietal Information			Measurements			
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1-5)*	Days to Maturity
Hefty	EXP H17R4	1.7	65.2	11.3	1.0	118
Channel	1805R2	1.8	61.5	10.6	1.0	119
Wensman	W 3178R2	1.7	61.5	11.3	1.0	117
Prairie Brand	PB-1611R2	1.6	60.6	11.2	1.0	116
Prairie Brand	PB-1591R2	1.5	59.9	10.9	1.0	117
Stine	20RD20	1.9	59.4	11.2	1.0	121
Prairie Brand	PB-1481R2	1.4	58.9	10.7	1.0	118
Wensman	W 3140R2	1.5	58.8	11.0	1.0	117
Prairie Brand	PB-1566R2	1.5	57.9	10.8	1.0	117
Rea	71G14	1.1	57.9	10.9	1.0	112
Wensman	W 3160NR2	1.6	57.7	10.5	1.0	119
Proseed	PX12	1.2	57.6	10.8	1.0	114
Prairie Brand	PB-2042R2	1.9	57.3	11.0	1.0	120
Asgrow	AG1431	1.4	57.3	10.6	1.0	116
Rea	78G12	1.8	57.1	10.7	1.0	119
Mustang	12224	1.2	57.1	11.0	1.0	113
Proseed	2-140	1.4	57.0	10.3	1.0	119
Dairyland	DSR-1515/R2Y	1.5	56.8	10.8	1.0	121
Mustang	16624	1.6	56.4	10.7	1.0	118
Prairie Brand	PB-1722R2	1.7	56.3	10.7	1.0	117
-	CHECK	1.8	56.2	10.6	1.0	119
Rea	71G20	1.1	56.0	10.7	1.0	113
Stine	16RD66	1.6	55.6	10.8	1.0	114
Hefty	EXP H16R4	1.6	55.3	10.5	1.0	119
Rea	73G13	1.3	55.3	11.0	1.0	113
Channel	1405R2	1.4	54.5	11.0	1.0	117
Mustang	14323	1.4	53.9	10.5	1.0	119
Asgrow	AG1733	1.7	53.9	10.7	1.0	120
Sodak Genetics	SD2172R2Y	1.7	53.3	10.8	1.0	120
Sodak Genetics	SD2179	1.7	53.1	10.9	1.0	118
Stine	14RD62	1.4	53.1	10.7	1.0	118
Asgrow	AG1534	1.5	53.0	10.4	1.0	112
Prairie Brand	PB-1982R2	1.9	53.0	11.0	1.0	118
Proseed	PX11	1.1	52.2	10.8	1.0	110
Pioneer	P19T60R	1.9	52.1	10.4	1.0	120
Trial Average			54.7	10.7	1.0	117
LSD (0.05)†			4.2	0.5	NS	3
C.V.‡			4.7	2.9	-	1.2

† Yield, moisture, lodging or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence. *Lodging score (1 = no lodging to 5 = flat on ground)

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

2013 Soybean Variety Trial Results – Bancroft

Table 1b. Glyphosate-resistant soybean variety performance results (average of 3 replications sorted by yield) – Maturity Group 0 to 1 Trial at Bancroft (12 Brands, 50 varieties).

Varietal Information			Measurements			
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1- 5)*	Days to Maturity
Sodak Genetics	SD2102R2Y	1.0	51.9	10.6	1.0	111
Pioneer	P16T04R	1.6	51.7	11.2	1.0	118
Prairie Brand	PB-1539R2	1.5	51.7	10.4	1.0	121
Sodak Genetics	SD2182R2Y	1.8	51.5	10.9	1.0	119
Prairie Brand	EXP13151R2	1.5	51.4	10.3	1.0	120
Proseed	PX18	1.8	51.3	10.7	1.0	118
Prairie Brand	PB-1843R2	1.8	51.1	10.6	1.0	120
Dairyland	DSR-1808/R2Y	1.8	51.0	10.5	1.0	119
Rea	75G12	1.5	50.5	10.8	1.0	118
Pioneer	91Y90	1.9	50.4	10.6	1.0	120
Pioneer	91Y01	1.0	49.4	10.3	1.0	118
Sodak Genetics	SD2081R2Y	0.8	49.2	10.6	1.0	110
Sodak Genetics	SD2101R2Y	1.0	48.9	10.7	1.0	112
Pioneer	91Y30	1.3	47.4	10.6	1.0	113
Sodak Genetics	SD2091R2Y	0.9	44.3	10.9	1.0	119
Trial Average			54.7	10.7	1.0	117
LSD (0.05)†			4.2	0.5	NS	3
C.V.‡			4.7	2.9	-	1.2

† Yield, moisture, lodging or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence. *Lodging score (1 = no lodging to 5 = flat on ground)

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

2013 Soybean Variety Trial Results – Bancroft

Table 2. Glyphosate-resistant soybean variety performance results (average of 3 replications sorted by yield) – Maturity Group 2 Trial at Bancroft (9 Brands, 25 varieties).

Varietal Information		Measurements				
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1-5)*	Days to Maturity
Prairie Brand	PB-2650R2	2.5	63.2	13.0	1.0	126
Prairie Brand	PB-2419RR2	2.3	62.4	12.3	1.0	124
Wensman	W 3230R2	2.3	62.3	10.5	1.0	124
Prairie Brand	EXP 13241	2.3	61.5	11.7	1.0	124
Wensman	W 3222NR2	2.2	60.2	10.6	1.0	122
Channel	2105R2	2.1	59.1	12.0	1.0	123
Pioneer	P22T69R	2.2	57.9	11.6	1.0	125
Prairie Brand	PB-2544R2	2.5	57.9	11.7	1.0	120
Hefty	H20R3	2.0	56.9	11.6	1.0	123
Prairie Brand	PB-2024R2	2.0	56.0	11.0	1.0	123
Proseed	PX21	2.1	55.4	10.8	1.0	119
Hefty	H20Y12	2.1	54.9	10.4	1.0	121
Prairie Brand	PB-2351R2	2.3	54.9	10.9	1.0	122
Dairyland	DSR-2105/R2Y	2.1	54.6	10.8	1.0	119
Channel	2207R2	2.2	54.6	10.7	1.0	119
Wensman	W 3214NR2	2.1	54.4	11.0	1.0	122
-	CHECK	1.8	53.8	10.7	1.0	120
Rea	80G11	2.0	53.7	10.7	1.0	121
Wensman	W 3200NR2	2.0	53.4	10.6	1.0	121
Prairie Brand	PB-2668R2	2.6	53.0	11.1	1.0	124
Prairie Brand	PB-2230R2	2.3	52.7	10.7	1.0	122
Prairie Brand	PB-2136R2	2.1	52.4	10.8	1.0	123
Mustang	21993	2.1	50.6	10.5	1.0	121
Prairie Brand	PB-2506R2	2.5	49.3	11.6	1.0	121
Rea	82G14	2.2	48.4	10.6	1.0	121
Trial Average			55.7	11.1	1.0	122
LSD (0.05)†			5.1	1.1	NS	3
C.V.‡			5.5	6.0	-	1.2

† Yield, moisture, lodging or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence. *Lodging score (1 = no lodging to 5 = flat on ground)
‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Nathan Mueller | SDSU Extension Agronomist
Kevin Kirby | Ag Research Manager/Specialist
Shawn Hawks | Ag Research Manager/Specialist

Location: 2.5 miles south and 1 mile east of Bath (57427) in Brown County
(GPS: UTM 14N, 554169 m East 5030612 m North)

Cooperator: Gordon and Roger Locken Farms.

Soil Type: Great Bend silt loam, 0-2% slope, non-irrigated

Previous Crop: Corn

Tillage: No-till

Row Spacing: 30 inches

Seeding Rate: 165,000/acre

Pest Management: Glyphosate and Sharpen – Pre, Glyphosate – Post

Date seeded/harvested: Jun. 5/Oct. 11

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2013 Soybean Variety Trial Results – Bath

Table 1. Glyphosate-resistant soybean variety performance results (average of 3 replications sorted by yield) – Maturity Group 0 Trial at Bath (12 Brands, 27 varieties).						
Varietal Information			Measurements			
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1-5)*	Days to Maturity
Asgrow	AG0934	0.9	66.6	11.2	1.0	114
Wensman	W 3076R2	0.7	66.4	11.4	1.0	112
Latham	L0885R2	0.8	66.0	11.4	1.0	113
Wensman	W 3090NR2	0.8	65.7	11.3	1.0	113
Prairie Brand	PB-1234R2	0.9	65.3	11.4	1.0	115
Nuseed	2071 RR2YN	0.7	64.6	11.0	1.0	114
Nuseed	2093 RR2YN	0.9	64.6	11.6	1.0	113
Hefty	EXP H09R4	0.9	64.2	12.0	1.0	113
Prairie Brand	PB-0863R2	0.8	64.2	11.3	1.0	114
Prairie Brand	PB-0991R2	0.9	63.4	11.7	1.0	116
Dairyland	DSR-0904/R2Y	0.9	63.0	11.3	1.0	114
Channel	0906R2	0.8	62.8	11.2	1.0	113
Prairie Brand	PB-0777R2	0.8	62.4	11.7	1.0	114
Peterson Farms	PFS 13R08N	0.8	62.2	11.4	1.0	113
Prairie Brand	PB-1040R2	0.9	61.5	11.4	1.0	112
Mustang	8824	0.8	61.4	11.4	1.0	114
Prairie Brand	PB-0866R2	0.8	60.8	11.6	1.0	114
Mustang	7724	0.7	60.1	11.6	1.0	114
Latham	L0648R2	0.6	60.1	11.4	1.0	108
Hefty	H07Y12	0.7	59.8	11.2	1.0	111
Sodak Genetics	SD2081R2Y	0.8	58.9	11.1	1.0	111
-	CHECK	1.8	58.5	11.5	1.0	116
Prairie Brand	PB-1031R2	0.9	57.2	11.4	1.0	113
Prairie Brand	PB0879NRR2	0.9	57.0	11.1	1.0	115
Asgrow	AG0832	0.8	55.6	11.6	1.0	114
Pioneer	90Y80	0.8	53.5	11.4	1.0	109
Sodak Genetics	SD2091R2Y	0.9	53.4	11.3	1.0	116
Trial Average			61.3	11.4	1.0	113
LSD (0.05)†			4.3	0.4	NS	2
C.V.‡			4.3	2.0	-	1.1

† Yield, moisture, lodging or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence. *Lodging score (1 = no lodging to 5 = flat on ground)

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

2013 Soybean Variety Trial Results – Bath

Table 2a. Glyphosate-resistant soybean variety performance results (average of 3 replications sorted by yield) – Maturity Group 1 Trial at Bath (16 Brands, 60 varieties).						
Varietal Information			Measurements			
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1-5)*	Days to Maturity
Prairie Brand	PB-1611R2	1.6	65.9	12.1	1.0	118
Hefty	EXP H12R4	1.2	65.0	11.3	1.0	115
Asgrow	AG1431	1.4	64.0	11.2	1.0	116
Stine	10RD03	1.1	62.9	11.1	1.0	115
Asgrow	AG1534	1.5	62.8	11.8	1.0	116
Federal Hybrids	F143RR2Y	1.4	62.8	11.6	1.0	120
Dairyland	DSR-1515/R2Y	1.5	62.8	11.3	1.0	124
Hefty	H10R3	1.0	62.7	11.2	1.0	119
Prairie Brand	PB-1481R2	1.4	62.4	11.5	1.0	116
Proseed	PX12	1.2	62.2	11.7	1.0	115
Latham	L1345R2	1.3	62.1	11.5	1.0	115
Wensman	W 3128R2	1.2	62.1	11.2	1.0	114
Proseed	2-140	1.4	61.7	11.2	1.0	117
Hefty	EXP H10R4	1.0	61.5	11.3	1.0	113
Wensman	W 3121NR2	1.2	61.4	11.5	1.0	116
Prairie Brand	PB-1539R2	1.5	61.4	11.3	1.0	125
Latham	L1948R2	1.9	61.3	11.5	1.0	121
Mustang	12224	1.2	61.1	11.4	1.0	116
Wensman	W 3106R2	1.0	60.6	11.3	1.0	114
Sodak Genetics	SD2172R2Y	1.7	60.5	11.5	1.0	126
-	CHECK	1.8	60.0	11.5	1.0	124
Federal Hybrids	F154NRR2Y	1.5	59.9	11.4	1.0	121
Wensman	W 3140R2	1.5	59.7	12.0	1.0	118
Channel	1207R2	1.2	59.4	11.5	1.0	115
Pioneer	P16T04R	1.6	59.2	11.3	1.0	119
Proseed	PX18	1.8	59.1	11.5	1.0	119
Mustang	16624	1.6	59.1	11.5	1.0	121
Rea	71G14	1.1	58.6	11.5	1.0	115
Sodak Genetics	SD2182R2Y	1.8	58.6	12.0	1.0	122
Stine	14RD62	1.4	58.5	11.7	1.0	118
Latham	L1084R2	1.0	58.4	11.3	1.0	116
Latham	L1585R2	1.5	58.2	11.4	1.0	120
Prairie Brand	PB-1982R2	1.9	58.2	11.6	1.0	118
Rea	73G13	1.3	58.2	11.2	1.0	114
Latham	L1783R2	1.7	58.1	11.2	1.0	116
Trial Average			58.9	11.5	1.0	118
LSD (0.05)†			5.7	0.7	NS	5
C.V.‡			6.0	4.0	-	2.2

† Yield, moisture, lodging or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence. *Lodging score (1 = no lodging to 5 = flat on ground)

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

2013 Soybean Variety Trial Results – Bath

Table 2b. Glyphosate-resistant soybean variety performance results (average of 3 replications sorted by yield) – Maturity Group 1 Trial at Bath (16 Brands, 60 varieties).

Varietal Information			Measurements			
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1- 5)*	Days to Maturity
Peterson Farms	PFS 12R12	1.2	58.0	11.2	1.0	114
Nuseed	2122 RR2YN	1.2	57.9	11.4	1.0	116
Dairyland	DSR-1120/R2Y	1.1	57.9	11.2	1.0	118
Proseed	PX11	1.1	57.7	11.3	1.0	113
Hefty	H11R3	1.1	57.6	11.1	1.0	114
Mustang	14323	1.4	57.6	11.7	1.0	124
Prairie Brand	PB-1591R2	1.5	57.5	12.7	1.0	121
Pioneer	91Y90	1.9	57.4	11.6	1.0	124
Prairie Brand	PB-1566R2	1.5	57.3	11.5	1.0	121
Rea	75G12	1.5	57.1	11.6	1.0	121
Sodak Genetics	SD2102R2Y	1.0	57.0	12.3	1.0	113
Latham	L1568R2	1.5	56.6	11.3	1.0	120
Latham	1985R2	1.9	56.5	11.9	1.0	123
Peterson Farms	PFS 14R13	1.0	56.2	12.4	1.0	119
Prairie Brand	PB-1722R2	1.7	56.1	11.6	1.0	120
Asgrow	AG1234	1.2	55.9	11.4	1.0	117
Pioneer	91Y01	1.0	55.8	11.1	1.0	116
Prairie Brand	PB-1843R2	1.8	55.0	11.8	1.0	126
Sodak Genetics	SD2101R2Y	1.0	54.6	11.4	1.0	114
Rea	71G20	1.1	54.3	11.1	1.0	117
Sodak Genetics	SD2179	1.7	53.8	11.7	1.0	123
Pioneer	91Y30	1.3	53.3	11.2	1.0	114
Pioneer	P19T60R	1.9	53.2	11.5	1.0	123
Rea	78G12	1.8	52.6	12.3	1.0	125
Prairie Brand	EXP13151R2	1.5	51.9	11.1	1.0	119
Trial Average			58.9	11.5	1.0	118
LSD (0.05)†			5.7	0.7	NS	5
C.V.‡			6.0	4.0	-	2.2

† Yield, moisture, lodging or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence. *Lodging score (1 = no lodging to 5 = flat on ground)

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Nathan Mueller | SDSU Extension Agronomist
Kevin Kirby | Ag Research Manager/Specialist
Shawn Hawks | Ag Research Manager/Specialist

Location: 8.5 miles west of South Shore (57263) in Codington County
(GPS: UTM 14N, 649382 m East 4996615 m North)

Cooperator: SDSU Northeast Research Farm – Allen Heuer.

Soil Type: Kranzburg-Brookings silty clay loam, 0-2% slope, non-irrigated

Soil Test/Fertilizer: 18 ppm P (Bray P1), 157 ppm K / 100 lbs P₂O₅ and 50 lbs K₂O

Previous Crop: Spring wheat

Tillage: Conventional

Row Spacing: 30 inches

Seeding Rate: 165,000/acre

Pest Management: Dual II – Pre, Glyphosate – Post

Date seeded/harvested: Jun. 13/Oct. 25

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2013 Soybean Variety Trial Results – South Shore

Table 1. Glyphosate-resistant soybean variety performance results (average of 3 replications sorted by yield) – Maturity Group 0 Trial at South Shore (13 Brands, 29 varieties).

Varietal Information		Measurements				
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1-5)*	Days to Maturity
Nuseed	2071 RR2YN	0.7	63.9	14.8	1.0	106
Asgrow	AG0934	0.9	62.7	14.2	1.7	109
Mustang	7724	0.7	62.5	14.5	1.0	104
Peterson Farms	PFS 13R08N	0.8	61.4	14.5	1.3	108
Channel	0906R2	0.8	61.4	14.6	1.0	108
Wensman	W 3076R2	0.7	61.1	14.2	1.0	105
Latham	L0648R2	0.6	61.0	14.4	2.3	102
Prairie Brand	PB-0863R2	0.8	60.5	14.5	1.7	107
Prairie Brand	PB-1031R2	0.9	60.5	14.6	2.3	106
Prairie Brand	PB-0866R2	0.8	60.1	15.0	1.3	106
Latham	L0885R2	0.8	59.7	14.6	1.3	107
Prairie Brand	PB-0991R2	0.9	59.6	15.1	1.0	112
Hefty	EXP H09R4	0.9	59.5	15.3	2.0	109
Wensman	W 3090NR2	0.8	59.0	14.7	1.7	107
Sodak Genetics	SD2081R2Y	0.8	58.7	15.0	1.3	106
-	CHECK	1.8	58.4	14.9	1.7	108
Dairyland	DSR-0904/R2Y	0.9	58.1	14.4	1.3	107
Sodak Genetics	SD2091R2Y	0.9	57.1	14.7	1.7	108
Prairie Brand	PPB0879NRR2	0.9	56.9	15.3	2.0	104
Asgrow	AG0832	0.8	56.7	14.7	1.7	107
Nuseed	2093 RR2YN	0.9	56.5	15.1	2.0	106
Prairie Brand	PB-0777R2	0.7	55.9	15.3	1.7	110
Prairie Brand	PB-1040R2	0.9	55.7	14.7	2.0	109
Hefty	H07Y12	0.7	55.7	14.3	1.0	107
Pioneer	90Y80	0.8	55.1	15.2	2.7	105
Federal Hybrids	F084NRR2Y	0.8	54.3	15.2	2.0	107
Prairie Brand	PB-1234R2	0.9	53.9	15.2	1.7	109
Mustang	6942	0.6	53.1	14.7	2.0	103
Mustang	8824	0.8	51.9	15.6	2.0	106
Trial Average			58.4	14.8	1.6	107
LSD (0.05)†			4.6	0.5	0.8	1
C.V.‡			4.8	2.1	28.3	0.5

† Yield, moisture, lodging or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence. *Lodging score (1 = no lodging to 5 = flat on ground)

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

2013 Soybean Variety Trial Results – South Shore

Table 2a. Glyphosate-resistant soybean variety performance results (average of 3 replications sorted by yield) – Maturity Group 1 Trial at South Shore (16 Brands, 59 varieties).						
Varietal Information			Measurements			
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1-5)*	Days to Maturity
Peterson Farms	PFS 14R13	1.3	63.5	14.6	1.0	109
Dairyland	DSR-1515/R2Y	1.5	62.4	14.8	1.3	109
Stine	10RD03	1.1	61.7	14.2	2.0	106
Prairie Brand	PB-1611R2	1.6	61.4	14.8	1.3	112
Prairie Brand	PB-1539R2	1.5	61.1	14.7	2.0	108
Proseed	PX12	1.2	61.1	14.9	2.0	108
Prairie Brand	PB-1722R2	1.7	60.9	14.7	1.0	112
Federal Hybrids	F114RR2Y	1.1	60.9	15.1	1.0	107
Hefty	EXP H10R4	1.0	60.6	14.6	1.3	106
Sodak Genetics	SD2172R2Y	1.7	60.0	14.7	2.0	107
Nuseed	2122 RR2YN	1.2	59.6	15.0	2.0	109
Wensman	W 3140R2	1.5	59.3	14.8	1.7	113
Latham	L1568R2	1.5	59.3	14.8	1.3	109
Asgrow	AG1534	1.5	59.2	14.5	1.7	108
Wensman	W 3128R2	1.2	58.8	14.5	1.0	106
Prairie Brand	PB-1982R2	1.9	58.6	15.2	1.0	113
Wensman	W 3102NR2	1.0	58.4	15.0	2.0	107
Latham	L1585R2	1.5	58.3	14.9	1.3	111
Channel	1405R2	1.4	58.2	14.4	2.0	109
Pioneer	P16T04R	1.6	57.9	14.6	1.7	111
Sodak Genetics	SD2101R2Y	1.0	57.8	14.4	1.3	107
Hefty	H11R3	1.1	57.5	14.5	1.7	104
-	CHECK	1.8	57.5	14.9	2.0	112
Prairie Brand	PB-1591R2	1.5	57.4	15.0	2.3	110
Channel	1207R2	1.2	57.4	15.1	2.0	108
Dairyland	DSR-1120/R2Y	1.1	57.3	14.8	1.3	107
Mustang	16624	1.6	57.2	14.5	2.0	110
Prairie Brand	PB-1566R2	1.5	57.1	14.7	2.0	109
Channel	1805R2	1.8	56.9	14.6	2.0	113
Latham	L1345R2	1.3	56.9	14.4	1.0	106
Latham	L1783R2	1.7	56.6	14.4	1.3	112
Rea	71G14	1.1	56.5	15.2	2.3	107
Sodak Genetics	SD2182R2Y	1.8	56.3	14.1	1.3	110
Hefty	EXP H12R4	1.2	56.2	14.7	2.0	108
Asgrow	AG1234	1.2	56.2	14.5	1.7	105
Trial Average			56.9	14.7	1.6	108
LSD (0.05)†			3.8	0.5	0.7	1
C.V.‡			4.1	2.3	25.4	0.5

† Yield, moisture, lodging or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence. *Lodging score (1 = no lodging to 5 = flat on ground)
‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

2013 Soybean Variety Trial Results – South Shore

Table 2b. Glyphosate-resistant soybean variety performance results (average of 3 replications sorted by yield) – Maturity Group 1 Trial at South Shore (16 Brands, 59 varieties).						
Varietal Information			Measurements			
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1- 5)*	Days to Maturity
Hefty	H10R3	1.0	56.1	14.2	1.3	107
Wensman	W 3121NR2	1.2	56.1	14.6	1.7	105
Proseed	2-140	1.4	56.1	14.9	2.0	109
Prairie Brand	PB-1843R2	1.8	56.1	14.9	2.0	110
Rea	78G12	1.8	56.1	14.5	1.3	111
Latham	1985R2	1.9	56.0	14.8	1.3	111
Rea	73G13	1.3	55.8	14.4	2.0	109
Latham	L1948R2	1.9	55.4	15.0	1.7	113
Prairie Brand	PB-1481R2	1.4	55.0	14.8	1.7	107
Sodak Genetics	SD2179	1.7	54.7	15.0	1.0	110
Proseed	PX11	1.1	54.7	14.3	1.3	108
Mustang	12224	1.2	54.6	14.9	1.3	106
Rea	71G20	1.1	54.4	15.0	2.0	104
Wensman	W 3106R2	1.0	54.1	14.6	1.0	105
Proseed	PX18	1.8	53.8	14.7	1.3	113
Latham	L1084R2	1.0	53.7	14.8	1.7	107
Peterson Farms	PFS 12R12	1.2	53.5	14.7	2.0	109
Asgrow	AG1431	1.4	53.4	15.1	2.0	109
Prairie Brand	EXP13151R2	1.5	53.4	14.5	2.3	109
Sodak Genetics	SD2102R2Y	1.0	53.2	15.2	2.0	104
Stine	14RD62	1.4	51.9	14.7	1.7	109
Pioneer	91Y30	1.3	51.1	14.8	1.3	106
Rea	75G12	1.5	51.0	14.4	1.0	109
Pioneer	91Y01	1.0	50.4	15.0	2.3	105
Trial Average			56.9	14.7	1.6	108
LSD (0.05)†			3.8	0.5	0.7	1
C.V.‡			4.1	2.3	25.4	0.5

† Yield, moisture, lodging or days to maturity value required (≥LSD) to determine if varieties are different from each other with confidence. *Lodging score (1 = no lodging to 5 = flat on ground)

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Nathan Mueller | SDSU Extension Agronomist
Kevin Kirby | Ag Research Manager/Specialist
Shawn Hawks | Ag Research Manager/Specialist

Location: 17 miles south and 8.5 miles east of Miller (57362) in Hand County
(GPS: UTM 14N, 514690 m East 4901684 m North)

Cooperator: Marlen Winter

Soil Type: Raber-Eakin loam, 3-5% slope, non-irrigated

Fertilizer: Foliar application of SG ReLEAF, MaxGrow, & Presto-Gold on July 16th

Previous Crop: Corn

Tillage: No-till

Row Spacing: 30 inches

Seeding Rate: 165,000/acre

Pest Management: Authority Assist & 2,4-D – Pre, Glyphosate – Post

Date seeded/harvested: Jun. 4/Oct. 26

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2013 Soybean Variety Trial Results – Miller

Table 1a. Glyphosate-resistant soybean variety performance results (average of 3 replications sorted by yield) – Maturity Group 0 and 1 Trial at Miller (11 Brands, 44 varieties).						
Varietal Information			Measurements			
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1-5)*	Days to Maturity
Asgrow	AG1431	1.4	59.2	13.5	1.0	114
Rea	75G12	1.5	58.4	13.3	1.0	116
Sodak Genetics	SD2182R2Y	1.8	58.4	13.2	1.0	118
Rea	71G20	1.1	58.1	13.9	1.0	112
Wensman	W 3160NR2	1.6	57.7	13.4	1.0	116
Hefty	EXP H16R4	1.6	57.7	13.5	1.0	116
Prairie Brand	PB-1611R2	1.6	57.7	13.6	1.0	116
Prairie Brand	PB-1982R2	1.9	57.4	13.9	1.0	117
Prairie Brand	PB-1843R2	1.8	57.3	13.7	1.0	117
Stine	16RD66	1.6	57.2	13.7	1.0	115
Hefty	EXP H17R4	1.7	57.0	13.6	1.0	115
Sodak Genetics	SD2091R2Y	0.9	56.8	13.7	1.0	113
-	CHECK	1.8	56.7	13.8	1.0	115
Prairie Brand	PB-1566R2	1.5	56.2	13.5	1.0	116
Prairie Brand	PB-1481R2	1.4	56.1	14.2	1.0	114
Wensman	W 3140R2	1.5	55.7	13.5	1.0	113
Asgrow	AG1733	1.7	55.5	13.5	1.0	117
Sodak Genetics	SD2172R2Y	1.7	55.2	13.6	1.0	116
Prairie Brand	PB-1722R2	1.7	55.0	13.5	1.0	115
Prairie Brand	PB-2042R2	1.9	55.0	13.8	1.0	118
Rea	71G14	1.1	54.5	13.9	1.0	113
Dairyland	DSR-1515/R2Y	1.5	54.5	13.7	1.0	112
Prairie Brand	EXP13151R2	1.5	54.1	13.4	1.0	114
Rea	73G13	1.3	54.0	13.4	1.0	114
Asgrow	AG1534	1.5	54.0	13.6	1.0	109
Stine	20RD20	1.9	54.0	13.5	1.0	119
Mustang	16624	1.6	53.9	13.3	1.0	115
Pioneer	91Y30	1.3	53.7	14.0	1.0	114
Channel	1405R2	1.4	53.7	13.9	1.0	114
Prairie Brand	PB-1539R2	1.5	53.2	13.4	1.0	113
Rea	78G12	1.8	53.1	13.7	1.0	115
Dairyland	DSR-1808/R2Y	1.8	52.7	14.0	1.0	115
Pioneer	91Y90	1.9	51.2	13.7	1.0	116
Stine	14RD62	1.4	51.2	13.7	1.0	114
Pioneer	P19T60R	1.9	50.8	13.7	1.0	114
Trial Average			54.2	13.7	1.0	114
LSD (0.05)†			5.6	0.5	NS	4
C.V.‡			6.3	2.4	-	1.5

† Yield, moisture, lodging or days to maturity value required (≥LSD) to determine if varieties are different from each other with confidence. *Lodging score (1 = no lodging to 5 = flat on ground)

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

2013 Soybean Variety Trial Results – Miller

Table 1b. Glyphosate-resistant soybean variety performance results (average of 3 replications sorted by yield) – Maturity Group 0 and 1 Trial at Miller (11 Brands, 44 varieties).						
Varietal Information			Measurements			
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1- 5)*	Days to Maturity
Pioneer	91Y01	1.0	50.8	13.8	1.0	111
Prairie Brand	PB-1591R2	1.5	50.7	13.8	1.0	113
Wensman	W 3178R2	1.7	50.3	13.2	1.0	115
Pioneer	P16T04R	1.6	50.2	13.9	1.0	116
Channel	1805R2	1.8	49.7	13.9	1.0	116
Sodak Genetics	SD2081R2Y	0.8	49.7	14.0	1.0	111
Sodak Genetics	SD2179	1.7	48.2	13.8	1.0	115
Sodak Genetics	SD2102R2Y	1.0	48.2	14.0	1.0	111
Sodak Genetics	SD2101R2Y	1.0	47.1	13.4	1.0	111
Trial Average			54.2	13.7	1.0	114
LSD (0.05)†			5.6	0.5	NS	4
C.V.‡			6.3	2.4	-	1.5

† Yield, moisture, lodging or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence. *Lodging score (1 = no lodging to 5 = flat on ground)
 ‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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2013 Soybean Variety Trial Results – Miller

Table 2. Glyphosate-resistant soybean variety performance results (average of 3 replications sorted by yield) – Maturity Group 2 Trial at Miller (7 Brands, 19 varieties).

Varietal Information		Measurements				
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1-5)*	Days to Maturity
Prairie Brand	PB-2136R2	2.1	58.8	13.2	1.0	124
Pioneer	P22T69R	2.2	58.4	13.3	1.0	124
-	CHECK	1.8	58.0	13.6	1.0	126
Rea	82G14	2.2	57.8	13.0	1.0	126
Hefty	H20Y12	2.1	57.3	13.1	1.0	125
Prairie Brand	PB-2230R2	2.3	56.9	13.1	1.0	125
Dairyland	DSR-2105/R2Y	2.1	56.6	13.4	1.0	123
Prairie Brand	PB-2419RR2	2.3	56.3	13.1	1.0	125
Prairie Brand	PB-2506R2	2.5	56.0	13.3	1.0	126
Hefty	H20R3	2.0	56.0	13.8	1.0	125
Prairie Brand	PB-2544R2	2.5	55.1	14.2	1.0	125
Wensman	W 3200NR2	2.0	54.4	13.5	1.0	125
Mustang	21993	2.1	54.2	13.0	1.0	125
Prairie Brand	PB-2024R2	2.0	53.7	13.5	1.0	125
Prairie Brand	PB-2668R2	2.6	53.1	13.6	1.0	127
Rea	80G11	2.0	52.8	13.6	1.0	124
Prairie Brand	PB-2650R2	2.5	51.6	13.7	1.0	124
Prairie Brand	EXP 13241	2.3	51.3	13.9	1.0	126
Prairie Brand	PB-2351R2	2.3	49.3	13.5	1.0	124
Trial Average			55.1	13.4	1.0	125
LSD (0.05)†			5.7	0.4	NS	3
C.V.‡			6.2	1.6	-	1.0

† Yield, moisture, lodging or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence. *Lodging score (1 = no lodging to 5 = flat on ground)

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Nathan Mueller | SDSU Extension Agronomist
Kevin Kirby | Ag Research Manager/Specialist
Shawn Hawks | Ag Research Manager/Specialist

Beresford: 6 miles west & 3 miles south of Beresford (57342) in Clay County
 (GPS: UTM 14N, 671008 m East 4768053 m North)

Cooperator: SDSU Southeast Research Center – Peter Sexton and staff

Soil Type: Egan-Clarno-Trent silty clay loam, 0-2% slope, non-irrigated

Previous Crop: Corn

Tillage: Conventional

Row Spacing: 30 inches

Seeding Rate: 165,000/acre

Pre-emergent herbicide: Glyphosate, Dual, Sharpen, & Metribuzen on May 23

Post herbicide: Dual & Raptor on June 7

Date seeded/harvested: May 23/Oct. 8

Table 1. Conventional or non-glyphosate resistant soybean variety performance results (average of 3 replications sorted by yield) – **Beresford Maturity Group 1 Trial.**

Varietal Information			Measurements					
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1-5)*	Days to Maturity	Oil %	Protein %
SD-AES	BROOKINGS	1.7	66.7	11.5	2.0	124	19.0	35.2
SDSU Exp	SD09CV-1040	.	62.2	11.0	2.0	121	19.1	36.9
SD-AES	DEUEL	1.1	61.3	11.0	3.7	122	19.1	36.7
SDSU Exp	SD08CV-1043	.	58.8	11.1	1.7	120	19.6	37.3
Richland IFC	CHALLENGER	1.3	55.2	11.8	3.3	122	18.5	39.8
Richland IFC	MK9101	1.1	51.3	10.2	1.0	122	20.7	35.3
Richland IFC	MK1016	1.0	46.4	11.0	4.3	118	17.8	37.5
Trial Average			57.4	11.1	2.6	121	19.1	37.0
LSD (0.05)†			5.4	0.4	1.1	3	1.0	0.7
C.V.‡			5.3	2.1	25.0	0.9	2.8	1.0

† Yield, moisture, lodging or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence. *Lodging score (1 = no lodging to 5 = flat on ground).

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

2013 Conventional Soybean Variety Trial Results

Table 2. Conventional or non-glyphosate resistant soybean variety performance results (average of 3 replications sorted by yield) – **Beresford Maturity Group 2 Trial.**

Varietal Information			Measurements					
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1-5)*	Days to Maturity	Oil %	Protein %
SD-AES	DAVISON	2.2	60.0	11.1	2.7	121	18.7	35.6
SDSU Exp	SD10CV-2005	.	50.3	11.5	2.0	123	19.5	36.6
SDSU Exp	SD10CV-2013	.	50.0	11.1	2.3	123	19.6	37.4
Trial Average			53.4	11.2	2.3	122	19.3	36.5
LSD (0.05)†			2.3	0.3	NS	2	0.4	0.7
C.V.‡			1.9	1.4	17.5	0.3	1.0	0.8

† Yield, moisture, lodging or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence. *Lodging score (1 = no lodging to 5 = flat on ground). No significant (NS) difference between varieties.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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2013 Conventional Soybean Variety Trial Results

Volga: 1.5 miles south of Volga (57071) in Brookings County

(GPS: UTM 14N, 665888 m East 4907622 m North)

Cooperator: SDSU Volga Research Farm – Doug Doyle and staff

Soil Type: Brandt silty clay loam, 0-2% slope, non-irrigated

Soil Test: 4.9 % OM, 5.7 pH, 50 ppm P (Bray-P1), 143 ppm K, 1.8 ppm Zn

Previous Crop: Spring wheat

Tillage: Conventional

Row Spacing: 30 inches

Seeding Rate: 165,000/acre

Pre-emergent herbicide: Dual

Post herbicide: None, only row cultivation

Date seeded/harvested: Jun. 3/ Oct. 1

Table 3. Conventional or non-glyphosate resistant soybean variety performance results (average of 3 replications sorted by yield) – **Volga Maturity Group 0 Trial.**

Varietal Information			Measurements					
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1-5)*	Days to Maturity	Oil %	Protein %
SDSU Exp	SD08CV-0015	.	51.0	8.7	1.0	109	17.9	36.7
Richland IFC	MK831	0.8	49.1	8.4	2.0	107	17.3	36.5
SDSU Exp	SD08CV-0018	.	49.1	8.4	1.0	106	18.9	36.1
SDSU-AES	SURGE	0.7	48.7	8.7	2.0	108	18.4	37.1
SDSU-AES	CODINGTON	0.9	48.5	8.5	1.7	111	18.0	37.9
SDSU-AES	ROBERTS	0.6	47.5	8.6	2.0	103	17.8	37.5
SDSU Exp	SD09CV-0133	.	47.4	8.9	2.0	108	17.6	38.4
SDSU Exp	SD06-415	.	47.0	9.2	1.0	112	19.9	35.3
SDSU Exp	SD07CV-539	.	44.1	8.6	2.0	110	17.9	35.4
SDSU Exp	SD06-418	.	44.1	8.7	2.0	108	18.4	35.8
Richland IFC	MK0508	0.8	42.4	8.7	4.7	103	15.5	38.2
Richland IFC	MK850	0.8	41.9	8.2	1.0	107	18.7	35.8
Trial Average			46.7	8.6	1.9	107	18.0	36.7
LSD (0.05)†			3.1	0.5	0.4	1	0.6	1.3
C.V.‡			4.0	3.5	12.9	0.5	2.0	2.1

† Yield, moisture, lodging or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence. *Lodging score (1 = no lodging to 5 = flat on ground).

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

2013 Conventional Soybean Variety Trial Results

Table 4. Conventional or non-glyphosate resistant soybean variety performance results (average of 3 replications sorted by yield) – **Volga Maturity Group 1 Trial.**

Varietal Information			Measurements					
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1-5)*	Days to Maturity	Oil %	Protein %
SDSU Exp	SD08CV-1043	.	43.2	9.0	1.0	110	17.2	38.8
SDSU Exp	SD09CV-1040	.	39.6	9.0	1.7	111	16.3	39.1
SDSU-AES	DEUEL	1.1	38.5	9.1	3.3	112	16.8	37.8
SDSU-AES	BROOKINGS	1.7	37.4	9.2	1.0	114	14.7	39.1
Richland IFC	MK1016	1.0	36.9	8.8	2.7	111	14.7	41.2
Richland IFC	MK9101	1.1	34.0	10.3	1.0	112	20.1	35.4
Richland IFC	CHALLENGER	1.3	27.0	9.3	3.7	110	14.8	43.1
Trial Average			36.6	9.2	2.0	111	16.4	39.2
LSD (0.05)†			3.8	0.5	1.0	2	1.6	2.1
C.V.‡			5.8	3.0	28.2	0.7	5.4	3.0

† Yield, moisture, lodging or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence. *Lodging score (1 = no lodging to 5 = flat on ground).

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 5. Conventional or non-glyphosate resistant soybean variety performance results (average of 3 replications sorted by yield) – **Volga Maturity Group 2 Trial.**

Varietal Information			Measurements					
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1-5)*	Days to Maturity	Oil %	Protein %
SDSU-AES	DAVISON	2.2	40.3	11.2	1.0	114	15.1	39.6
SDSU Exp	SD10CV-2013	.	39.0	12.4	3.0	119	18.7	37.1
SDSU Exp	SD10CV-2005	.	35.4	13.3	3.7	120	18.3	37.0
Trial Average			38.2	12.3	2.6	117	17.4	37.9
LSD (0.05)†			2.2	0.9	0.8	-	0.5	0.3
C.V.‡			2.6	3.2	13.0	-	1.3	0.4

† Yield, moisture, lodging or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence. *Lodging score (1 = no lodging to 5 = flat on ground).

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

2013 Conventional Soybean Variety Trial Results

South Shore: 8.5 miles west of South Shore (57263) in Codington County

(GPS: UTM 14N, 649382 m East 4996615 m North)

Cooperator: SDSU Northeast Research Farm – Allen Heuer.

Soil Type: Kranzburg-Brookings silty clay loam, 0-2% slope, non-irrigated

Soil Test/Fertilizer: 18 ppm P (Bray P1), 157 ppm K / 100 lbs P₂O₅ and 50 lbs K₂O

Previous Crop: Spring wheat

Tillage: Conventional

Row Spacing: 30 inches

Seeding Rate: 165,000/acre

Pre-emergent: Dual II on June 14

Post herbicide: Harmony on July 11

Date seeded/harvested: Jun. 13/Oct. 25

Table 6. Conventional or non-glyphosate resistant soybean variety performance results (average of 3 replications sorted by yield) – **South Shore Maturity Group 0 Trial.**

Varietal Information			Measurements					
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1-5)*	Days to Maturity	Oil %	Protein %
SDSU-AES	ROBERTS	0.6	54.3	14.1	1.7	107	19.6	38.8
SDSU Exp	SD07CV-539	.	53.7	14.2	1.3	106	19.9	36.3
SDSU-AES	CODINGTON	0.9	53.5	15.1	1.0	107	19.3	39.4
SDSU-AES	SURGE	0.7	52.5	14.4	1.7	107	18.9	40.7
SDSU Exp	SD08CV-0018	.	51.0	14.1	1.3	108	19.9	37.8
SDSU Exp	SD06-415	.	50.5	14.2	1.7	104	20.3	37.8
SDSU Exp	SD08CV-0015	.	50.2	14.0	1.3	109	18.9	39.1
SDSU Exp	SD06-418	.	49.9	14.4	2.3	109	19.7	38.3
Peterson Farms	PFS L08-11§	0.8	49.9	14.2	1.0	108	19.1	38.0
Richland IFC	MK831	0.8	46.7	14.7	2.7	105	17.5	40.8
SDSU Exp	SD09CV-0133	.	46.3	14.4	1.3	108	18.6	40.9
Richland IFC	MK0508	0.8	41.7	14.5	3.3	106	16.9	40.4
Richland IFC	MK850	0.8	41.0	14.4	2.0	106	19.2	40.7
Trial Average			49.3	14.4	1.7	107	19.1	39.1
LSD (0.05)†			3.1	0.3	0.9	1	0.4	1.2
C.V.‡			3.7	1.3	30.5	0.5	1.4	1.8

† Yield, moisture, lodging or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence. *Lodging score (1 = no lodging to 5 = flat on ground).

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

§ Liberty Link variety

2013 Conventional Soybean Variety Trial Results

Table 7. Conventional or non-glyphosate resistant soybean variety performance results (average of 3 replications sorted by yield) – **South Shore Maturity Group 1 Trial.**

Varietal Information			Measurements					
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1-5)*	Days to Maturity	Oil %	Protein %
SDSU-AES	BROOKINGS	1.7	53.1	14.8	1.0	115	18.7	36.9
SDSU-AES	DEUEL	1.1	49.5	14.9	1.7	108	18.7	39.2
Peterson Farms	PFS L11-13N§	1.1	48.0	13.9	1.3	111	18.8	38.7
SDSU Exp	SD08CV-1043	.	47.2	14.6	1.3	109	18.8	39.5
SDSU Exp	SD09CV-1040	.	45.6	13.9	1.3	111	17.9	39.3
Richland IFC	MK9101	1.1	44.4	13.9	1.0	109	20.5	36.0
Richland IFC	CHALLENGER	1.3	43.9	15.3	1.7	112	17.5	43.5
Richland IFC	MK1016	1.0	41.8	14.6	2.3	106	16.4	41.3
Trial Average			46.7	14.5	1.5	110	18.4	39.3
LSD (0.05)†			3.3	0.6	NS	1	0.7	2.1
C.V.‡			4.1	2.5	35.1	0.5	2.1	3.0

† Yield, moisture, lodging or days to maturity value required (\geq LSD) to determine if varieties are different from each other with confidence. *Lodging score (1 = no lodging to 5 = flat on ground). No significant (NS) difference between varieties.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

§ Liberty Link variety

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Jonathan Kleinjan | SDSU Crop Performance Testing Director
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location: 11 miles north and 2.75 miles west of Miller (57362) in Hand County, SD
(GPS: N 44°41.589' W 099°02.612')

Cooperator: Reno Brueggeman

Soil Type: Houdek-Dudley loams, nearly level

Fertilizer: none

Previous crop: Corn

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Valor, Dimetric & Glyphosate

Post: Glyphosate, Extreme, Warrant, Cadet, and Select Max

Date seeded: 5/23/2014

Date harvested: 10/2/2014

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Table 1a. Glyphosate-resistant soybean variety performance results (average of 3 replications) - Maturity Groups 0 & 1 at Miller, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Prairie Brand	PB-1611R2	1.6	39.4	10.3	1.0
Wensman	W 3140R2	1.5	38.3	11.1	1.0
Prairie Brand	PB-1947R2	1.9	38.1	10.9	1.0
Dairyland	DSR-1515/R2Y	1.5	38.0	11.2	1.0
Sodak Genetics	2172R2Y	1.7	37.9	11.2	1.0
Wensman	W 3195NR2	1.9	37.8	10.6	1.0
Pioneer	P19T60R	1.9	37.6	10.8	1.0
Hefty	EXP H18R5	1.8	37.4	10.5	1.0
Sodak Genetics	2091R2Y	0.9	37.3	11.1	1.0
Federal Hybrids	F143RR2Y	1.4	37.3	10.8	1.0
Hefty	EXP H13R5	1.3	37.2	11.4	1.0
Check	Check	1.7	37.2	11.0	1.0
Hefty	EXP H16R5	1.6	37.1	11.0	1.0
Pioneer	P16T04R	1.6	36.9	9.8	1.0
Channel	1808R2	1.8	36.4	10.6	1.0
Prairie Brand	PB-1822R2	1.8	36.3	10.4	1.0
Prairie Brand	PB-1466R2	1.4	36.2	11.3	1.0
Hefty	EXP H15R5	1.5	35.8	11.3	1.0
Federal Hybrids	F115NRR2Y	1.1	35.6	11.4	1.0
REA Hybrids	R1515	1.5	35.3	10.2	1.0
REA Hybrids	75G12	1.5	35.2	11.0	1.0
Prairie	PB-1566R2	1.5	35.1	10.8	1.0
Hefty	EXP H17R5	1.7	35.0	11.5	1.0
Federal Hybrids	F154NRR2Y	1.5	34.7	10.6	1.0
Titan Pro	TP-17R54	1.7	34.6	11.0	1.0
Prairie Brand	PB-1956R2	1.9	34.5	11.4	1.0
Wensman	W 3158NR2	1.5	34.5	11.1	1.0
Nutech/G2 Genetics	7104	1.0	34.2	11.2	1.0
Nutech/G2 Genetics	6112	1.1	34.1	9.8	1.0
Nutech/G2 Genetics	6143	1.4	34.1	11.0	1.0
Trial Average			35.4	10.9	1.0
LSD (0.05)†			2.7	0.6	-
C.V.‡			4.6	3.6	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable

Table 1a. Glyphosate-resistant soybean variety performance results, continued (average of 3 replications) - Maturity Groups 0 & 1 at Miller, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Wensman	W 3170NR2	1.7	34.0	11.1	1.0
REA Hybrids	78G12	1.8	34.0	10.8	1.0
Channel	1508R2	1.5	34.0	10.4	1.0
Titan Pro	15M22	1.5	33.8	10.8	1.0
Channel	1308R2	1.3	33.5	11.0	1.0
REA Hybrids	R1815	1.8	33.5	10.9	1.0
Sodak Genetics	2101R2Y	1.0	33.5	10.9	1.0
Prairie Brand	PB-1794R2	1.7	33.4	11.8	1.0
Wensman	W 3160NR2	1.6	33.4	11.0	1.0
Wensman	W 3128R2	1.2	32.9	11.3	1.0
Dairyland	DSR-1990/R2Y	1.9	32.6	10.8	1.0
Nutech/G2 Genetics	7157	1.5	32.6	11.3	1.0
Trial Average			35.4	10.9	1.0
LSD (0.05)†			2.7	0.6	-
C.V.‡			4.6	3.6	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable

Table 2. Glyphosate-resistant soybean variety performance results (average of 3 replications) - Maturity Group 2 at Miller, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Pioneer	P22T69R	2.2	38.5	10.6	1.0
Prairie Brand	PB-2188R2	2.1	37.7	11.0	1.0
Titan Pro	20M1	2.0	37.2	10.6	1.0
Check	Check	1.7	36.9	10.7	1.0
Prairie Brand	PB-2600R2	2.6	36.5	13.8	1.0
Great Lakes Hybrids	2569R2	2.0	35.9	12.6	1.0
Prairie Brand	EXP-1947R2	2.0	35.7	10.5	1.0
Nutech/G2 Genetics	7233	2.3	35.1	11.3	1.0
REA Hybrids	80G11	2.0	35.1	10.6	1.0
Great Lakes Hybrids	2469R2	2.0	35.1	11.0	1.0
Great Lakes Hybrids	2289R2	2.0	34.9	10.9	1.0
Pioneer	P22T61R	2.2	34.9	10.5	1.0
Channel	2108R2	2.1	34.7	10.9	1.0
Pioneer	P21T66R2	2.1	34.6	10.5	1.0
Prairie Brand	PB-2319R2	2.3	34.4	11.6	1.0
Prairie Brand	PB-2556R2	2.5	34.2	13.8	1.0
Nutech/G2 Genetics	7216	2.1	34.2	10.8	1.0
Prairie Brand	PB-2024R2	2.0	33.5	11.0	1.0
Prairie Brand	PB-2230R2	2.1	33.2	10.3	1.0
Pioneer	P25T51R	2.5	33.2	11.5	1.0
REA Hybrids	R2115	2.1	33.1	10.8	1.0
Nutech/G2 Genetics	7204R2	2.0	32.9	9.7	1.0
Trial Average			35.1	11.1	1.0
LSD (0.05)†			1.9	0.9	-
C.V.‡			3.3	4.8	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable

Jonathan Kleinjan | SDSU Crop Performance Testing Director
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location: 2.5 miles north of Bancroft (57353) in Kingsbury County
(GPS: N 44°31.091' W 097°45.244)

Cooperator: Weerts Farm, Inc.

Soil Type: Houdek-Stickney-Tetonka loam, 0-2% slope

Fertilizer: none

Previous crop: Corn

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Sharpen
Post: Glyphosate, Select

Date seeded: 5/23/2014

Date harvested: 10/9/2014

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Table 1a. Glyphosate-resistant soybean variety performance results (average of 3 replications) - Maturity Groups 0 & 1 at Bancroft, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Hefty	EXP H18R5	1.8	63.7	10.9	1.0
Hefty	EXP H15R5	1.5	63.6	10.5	1.0
Wensman	W 3170NR2	1.7	63.6	11.0	1.0
Prairie Brand	PB-1611R2	1.6	63.5	10.9	1.0
Prairie Brand	PB-1956R2	1.9	62.2	10.8	1.0
Hefty	EXP H16R5	1.6	62.1	10.4	1.0
Federal Hybrids	F143RR2Y	1.4	62.0	10.3	1.0
Wensman	W 3140R2	1.4	62.0	11.1	1.0
REA Hybrids	78G12	1.8	61.3	10.4	1.0
Titan Pro	15M22	1.5	61.0	10.8	1.0
REA Hybrids	R1515	1.5	60.6	10.8	1.0
Prairie Brand	PB-1947R2	1.9	60.3	10.3	1.0
Legend Seeds	LS 13R556N	1.3	60.1	10.4	1.0
REA Hybrids	75G12	1.5	60.0	10.9	1.0
Legend Seeds	LS 12R24N	1.2	60.0	10.7	1.0
Nutech/G2 Genetics	7104	1	60.0	10.8	1.0
Wensman	W 3158NR2	1.5	59.5	10.8	1.0
Hefty	EXP H17R5	1.7	59.5	10.6	1.0
REA Hybrids	R1815	1.8	59.4	10.6	1.0
Prairie Brand	PB-1566R2	1.5	59.3	11.0	1.0
Prairie	PB-1466R2	1.4	59.2	10.8	1.0
Wensman	W 3160NR2	1.6	59.2	10.6	1.0
Channel	1508R2	1.5	59.1	10.5	1.0
Wensman	W 3128R2	1.2	58.9	10.7	1.0
Prairie Brand	PB-1822R2	1.8	58.8	11.0	1.0
Pioneer	P16T04R	1.6	58.6	10.2	1.0
Nutech/G2 Genetics	6112	1.1	58.6	10.7	1.0
Channel	1808R2	1.8	58.5	10.5	1.0
Nutech/G2 Genetics	7157	1.5	58.3	10.7	1.0
Legend Seeds	LS 17R500N	1.7	58.0	10.5	1.0
Trial Average			58.8	10.6	1.0
LSD (0.05)†			4.1	0.6	-
C.V.‡			4.4	3.4	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable

Table 1a. Glyphosate-resistant soybean variety performance results, continued (average of 3 replications) - Maturity Groups 0 & 1 at Bancroft, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Channel	1308R2	1.3	57.4	10.8	1.0
Dairyland Seeds	DSR-1515/R2Y	1.5	57.3	10.7	1.0
Dairyland Seeds	DSR-1990/R2Y	1.9	57.0	10.7	1.0
Nutech/G2 Genetics	6143	1.4	57.0	10.1	1.0
Titan Pro	TP-17R54	1.7	56.7	10.6	1.0
Pioneer	P19T60R	1.9	56.5	10.6	1.0
Check	Check	1.7	56.5	10.3	1.0
Federal Hybrids	F175NRR2Y	1.7	56.2	10.9	1.0
Wensman	W 3195NR2	1.9	56.1	10.5	1.0
Sodak Genetics	SD2172R2Y	1.7	55.8	10.6	1.0
Stine	19RF32	1.9	55.1	10.5	1.0
Sodak Genetics	SD2091R2Y	0.9	54.2	10.4	1.0
Sodak Genetics	SD2101R2Y	1	54.0	10.6	1.0
Prairie Brand	PB-1794R2	1.7	52.6	10.9	1.0
Trial Average			58.8	10.6	1.0
LSD (0.05)†			4.1	0.6	-
C.V.‡			4.4	3.4	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable

Table 2. Glyphosate-resistant soybean variety performance results (average of 3 replications) - Maturity Group 2 at Bancroft, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Prairie Brand	EXP-1947R2	2.1	63.2	10.3	1.0
Prairie Brand	PB-2024R2	2.0	62.0	10.3	1.0
Pioneer	P22T69R	2.2	61.6	10.2	1.0
Wensman	W 3200NR2	2.0	60.4	10.4	1.0
Hefty	H21Y11	2.1	59.0	10.3	1.0
Titan Pro	20M1	2.0	58.7	10.1	1.0
Legend	20R524N	2.0	58.6	10.5	1.0
Prairie Brand	PB-2188R2	2.1	58.1	10.3	1.0
Channel	2108R2	2.1	58.0	10.4	1.0
Prairie Brand	PB-2600R2	2.6	57.4	11.2	1.0
Prairie Brand	PB-2230R2	2.1	57.3	10.4	1.0
Great Lakes Hybrids	2039R2	2.0	57.0	10.4	1.0
Hefty	EXP H23R5	2.3	57.0	10.4	1.0
REA Hybrids	80G11	2.0	56.8	10.3	1.0
Pioneer	P22T61R	2.2	56.4	10.4	1.0
Hefty	EXP H20R5	2.0	56.4	10.3	1.0
Stine	22RD00	2.2	56.1	10.3	1.0
Nutech/G2 Genetics	7233	2.3	56.1	10.5	1.0
Prairie Brand	PB-2319R2	2.3	56.0	10.4	1.0
Check	Check	1.7	56.0	10.1	1.0
Federal Hybrids	F205NRR2Y	2.0	55.3	10.4	1.0
Pioneer	P21T66R2	2.1	55.3	10.4	1.0
Pioneer	P25T51R	2.5	55.2	10.7	1.0
Prairie Brand	PB-2556R2	2.5	55.0	10.4	1.0
Great Lakes Hybrids	2569R2	2.5	54.8	10.9	1.0
Nutech/G2 Genetics	7204R2	2.0	53.6	10.4	1.0
Wensman	W 3214NR2	2.1	53.4	10.3	1.0
REA Hybrids	R2115	2.1	53.0	10.3	1.0
Nutech/G2 Genetics	7216	2.1	52.9	10.3	1.0
Trial Average			56.9	10.4	1.0
LSD (0.05)†			5.0	0.5	-
C.V.‡			5.4	3.0	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable

Jonathan Kleinjan | SDSU Crop Performance Testing Director
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location: 2 miles east and 1/2 mile north of Geddes (57432) in Charles Mix County, SD
(N 43°15.956' W 098°39.844')

Cooperator: Curtis Sybesma

Soil Type: Highmore-Eakin silt loam, 0-2% slope

Fertilizer: none

Previous crop: Corn

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Authority Assist

Post: Glyphosate

Date seeded: 5/22/2014

Date harvested: 10/6/2014

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Table 1. Glyphosate-resistant soybean variety performance results (average of 3 replications) - Maturity Group 1 at Geddes, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Hefty	HR18R5	1.8	59.8	9.9	1.0
Nutech/G2 Genetics	7157	1.5	57.9	10.0	1.0
Prairie Brand	EXP-1947R2	1.9	57.2	9.7	1.0
Channel	1808R2	1.8	55.9	10.1	1.0
Sodak Genetics	SD2172R2Y	1.7	55.5	9.8	1.0
Check	Check	1.7	54.7	9.7	1.0
Sodak Genetics	SD2101R2Y	1.0	52.8	10.0	1.0
Trial Average			56.3	9.9	1.0
LSD (0.05)†			3.8	0.4	-
C.V.‡			3.9	2.6	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable

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Table 2a. Glyphosate-resistant soybean variety performance results (average of 3 replications) - Maturity Group 2 at Geddes, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Channel	2508R2	2.5	69.7	10.6	1.0
Dairyland Seed	DSR-2411/R2Y	2.4	69.3	10.3	1.0
Nutech/G2 Genetics	7273	2.7	69.3	11.7	1.0
Wensman	W 3275NR2	2.7	68.9	10.9	1.7
Hoegemeyer	HPT 2511NRR	2.5	68.7	10.0	1.0
Prairie Brand	PB-2188R2	2.1	68.4	10.1	1.0
REA Hybrids	R2115	2.1	68.4	10.0	1.0
Pioneer	P22T69R	2.2	67.4	9.5	1.0
Nutech/G2 Genetics	7250	2.5	66.9	10.7	1.0
Prairie Brand	PB-2419RR2	2.4	66.9	10.2	1.0
Dairyland Seed	DST-26-005R2	2.6	66.7	10.9	1.0
Prairie Brand	PB-2024R2	2	66.5	9.9	1.0
Renk	RS224NR2	2.2	66.0	9.9	1.0
Great Lakes Hybrids	2789R2	2.7	65.7	10.6	1.7
Channel	2408R2	2.4	65.3	10.3	1.0
Wensman	W 3230R2	2.3	65.2	10.1	1.0
Hefty	EXP H20R5	2	65.1	10.0	1.0
Pioneer	P25T51R	2.5	64.9	10.3	1.0
Pioneer	P27T87R2	2.7	64.7	10.8	1.0
Channel	2108R2	2.1	64.7	9.7	1.0
Prairie Brand	PB-2997R2	2.9	64.6	11.8	1.0
Prairie Brand	PB-2600R2	2.6	64.4	11.2	1.0
Channel	2808R2	2.8	64.3	12.1	1.0
REA Hybrids	R2415	2.4	63.9	10.0	1.0
Prairie Brand	PB-2556R2	2.5	63.8	10.0	1.0
Nutech/G2 Genetics	7204R2	2	63.6	10.0	1.0
Nutech/G2 Genetics	7261	2.6	63.4	10.6	1.0
Wensman	W 3254NR2	2.5	63.3	10.0	1.0
Titan Pro	TP-23R04	2.3	62.5	9.8	1.0
Hefty	EXP H23R5	2.3	62.3	9.8	1.0
Renk	RS265NR2	2.6	62.1	10.8	1.0
Trial Average			62.3	10.3	1.0
LSD (0.05)†			5.8	0.7	-
C.V.‡			5.8	4.0	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable

Table 2b. Glyphosate-resistant soybean variety performance results, continued (average of 3 replications) - Maturity Group 2 at Geddes, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Nutech/G2 Genetics	7233	2.3	61.9	10.4	1.0
Wensman	W 3228NR2	2.2	61.9	9.9	1.0
Renk	RS213NR2	2.1	61.3	10.0	1.0
Hefty	EXP H25R5	2.5	61.2	10.2	1.0
Hoegemeyer	HPT 2707RR	2.7	61.1	10.2	1.0
Wensman	W 3214NR2	2.1	60.9	10.3	1.0
REA Hybrids	86G14	2.5	60.8	10.4	1.0
Titan Pro	20M1	2	60.2	10.2	1.0
Stine	28RE20	2.8	60.0	10.3	1.0
Great Lakes Hybrids	2869R2	2.8	59.9	10.7	1.0
Prairie Brand	PB-2319R2	2.3	59.7	9.9	1.0
Hefty	H21Y11	2.2	59.5	10.4	1.0
Hefty	EXP H24R5	2.4	59.5	10.1	1.0
Wensman	W 3200NR2	2	59.4	10.0	1.0
Channel	2607R2	2.6	59.3	9.8	1.0
Nutech/G2 Genetics	7240	2.4	59.1	10.1	1.0
Pioneer	92Y83	2.8	59.1	11.4	1.0
Titan Pro	TP-20R44	2	59.0	10.1	1.0
Prairie Brand	PB-2230R2	2.2	58.6	10.0	1.0
Stine	24RE03	2.4	58.6	9.9	1.0
Pioneer	P22T61R	2.2	58.2	9.6	1.0
Channel	2306R2	2.3	58.1	10.2	1.0
Stine	22RD00	2.2	58.1	10.0	1.0
REA Hybrids	80G11	2	57.9	9.8	1.0
Dairyland Seed	DSR-2250/R2Y	2.2	57.5	10.0	1.0
Titan Pro	TP-21R63	2.1	56.0	10.2	1.0
Hoegemeyer	HPT 2233NRR	2.2	55.6	9.8	1.0
Channel	2207R2	2.2	55.6	10.0	1.0
Check	Check	1.7	54.7	9.7	1.0
Nutech/G2 Genetics	7216	2.1	53.1	9.7	1.0
Trial Average			62.3	10.3	1.0
LSD (0.05)†			5.8	0.7	-
C.V.‡			5.8	4.0	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable

Jonathan Kleinjan | SDSU Crop Performance Testing Director
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location: 4 miles south and 1 mile east of Bath (57427) in Brown County, SD
(GPS: N 45°23.580' W 098°18.325')

Cooperator: Gordon and Roger Locken Farms

Soil Type: Great Bend-Beotia silt loams, 0-2% slope

Fertilizer: none

Previous crop: Corn

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Authority MTZ
Post: Glyphosate

Date seeded: 5/20/2014

Date harvested: 10/15/2014

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Table 1. Glyphosate-resistant soybean variety performance results (average of 3 replications) - Maturity Group 0 at Bath, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Prairie Brand	PB-0863R2	0.8	70.0	9.4	1.0
Prairie Brand	PB-1234R2	0.9	69.3	9.5	1.0
Dairyland Seeds	DSR-0904/R2Y	0.9	67.9	9.4	1.0
Wensman	W 3090NR2	0.8	67.3	9.2	1.0
Peterson Farms Seed	14R09N	0.9	67.2	9.4	1.0
Prairie Brand	PB-1147R2	0.9	66.9	9.4	1.0
Peterson Farms Seed	13R08N	0.8	66.7	9.3	1.0
Prairie Brand	PB-0777R2	0.7	64.8	9.6	1.0
Dairyland Seeds	DSR-0711/R2Y	0.7	64.8	9.3	1.0
Check	Check	1.7	64.0	9.3	1.0
Legacy Seeds	LS0833 NRR2	0.8	63.0	9.5	1.0
Sodak Genetics	SD2091R2Y	0.9	62.8	9.4	1.0
Federal Hybrids	F084NRR2Y	0.8	62.3	9.4	1.0
Nuseed	2093 RR2YN	0.9	60.8	9.4	1.0
Nuseed	2074 RR2YN	0.7	60.5	9.4	1.0
Wensman	W 3076R2	0.7	59.1	9.4	1.0
Nutech/G2 Genetics	6084R2	0.8	57.8	9.5	1.0
Trial Average			64.4	9.4	1.0
LSD (0.05)†			3.9	0.4	-
C.V.‡			3.7	2.2	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2a. Glyphosate-resistant soybean variety performance results (average of 3 replications) - Maturity Group 1 at Bath, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Federal Hybrids	F143RR2Y	1.4	69.9	9.1	1.0
Prairie Brand	PB-1956R2	1.9	68.3	9.1	1.0
Prairie Brand	PB-1947R2	1.9	67.6	9.1	1.0
Prairie Brand	PB-1611R2	1.6	66.7	9.0	1.0
Peterson Farms Seed	14R13	1.3	66.0	9.3	1.0
Prairie Brand	PB-1566R2	1.5	65.9	9.1	1.0
Channel	1508R2	1.5	65.4	8.8	1.0
Wensman	W 3102NR2	1.0	65.4	9.0	1.0
Proseed	30-18	1.8	65.1	8.9	1.0
Prairie Brand	PB-1794R2	1.7	65.0	9.3	1.0
Dairyland Seed	DSR-1340/R2Y	1.3	64.9	9.0	1.0
Proseed	30-11	1.1	64.8	9.3	1.0
Stine	14RF06	1.4	64.7	8.8	1.0
Peterson Farms Seed	14R11N	1.1	64.7	9.2	1.0
Pioneer	P13T99R	1.3	64.6	9.4	1.0
REA Hybrids	R1515	1.5	64.6	8.9	1.0
Legacy Seeds	LS1134 NRR2	1.1	64.6	9.1	1.0
Great Lakes Hybrids	1441R2	1.4	64.2	9.0	1.0
REA Hybrids	R1215	1.2	64.1	9.2	1.0
Hefty	EXP H15R5	1.5	64.0	9.0	1.0
Proseed	30-12	1.2	63.8	9.0	1.0
Dairyland Seed	DSR-1120/R2Y	1.1	63.8	8.9	1.0
Wensman	W 3121NR2	1.2	63.8	8.9	1.0
Hefty	EXP H13R5	1.3	63.7	9.0	1.0
Hefty	EXP H16R5	1.6	63.7	9.0	1.0
Wensman	W 3158NR2	1.5	63.6	8.8	1.0
Channel	1207R2	1.2	63.1	9.1	1.0
Pioneer	P16T04R	1.3	62.9	8.9	1.0
Great Lakes Hybrids	1829R2	1.8	62.8	9.0	1.0
Nutech/G2 Genetics	7157	1.5	62.8	9.1	1.0
Trial Average			62.9	9.1	1.0
LSD (0.05)†			4.1	0.3	-
C.V.‡			4.0	2.3	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant soybean variety performance results, continued (average of 3 replications) - Maturity Group 1 at Bath, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Prairie Brand	PB-1822R2	1.8	62.1	9.1	1.0
Nutech/G2 Genetics	7104	1.0	62.1	9.1	1.0
Proseed	PX411N	1.0	61.8	8.9	1.0
Check	Check	1.7	61.7	8.7	1.0
Nuseed	2122 RR2YN	1.2	61.6	9.0	1.0
Legacy Seeds	LS1314 NRR2	1.3	61.5	9.0	1.0
Prairie Brand	PB-1466R2	1.4	61.3	9.0	1.0
Hefty	EXP H11R5	1.1	61.2	9.4	1.0
Stine	10RD03	1.0	61.2	8.9	1.0
Sodak Genetics	SD2172R2Y	1.7	61.1	8.9	1.0
Pioneer	P19T60R	1.9	61.1	9.1	1.0
Nutech/G2 Genetics	6112	1.1	61.1	9.0	1.0
REA Hybrids	71G20	1.1	61.0	9.4	1.0
Pioneer	P10T02R	1.0	61.0	9.3	1.0
Dairyland Seed	DSR-1515/R2Y	1.2	60.7	9.1	1.0
Channel	1308R2	1.3	60.5	9.1	1.0
REA Hybrids	71G14	1.1	60.4	9.3	1.0
Federal Hybrids	F115NRR2Y	1.1	60.0	9.1	1.0
REA Hybrids	75G12	1.5	59.8	8.8	1.0
Peterson Farms Seed	12R12	1.1	59.7	9.2	1.0
Wensman	W 3128R2	1.2	59.4	9.2	1.0
Sodak Genetics	SD2101R2Y	1.0	59.3	8.9	1.0
Nutech/G2 Genetics	6143	1.4	58.0	8.9	1.0
Channel	1108R2	1.1	57.5	9.2	1.0
Trial Average			62.9	9.1	1.0
LSD (0.05)†			4.1	0.3	-
C.V.‡			4.0	2.3	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Jonathan Kleinjan | SDSU Crop Performance Testing Director
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location: 8.5 miles west of South Shore (57263) in Codington County, SD
(GPS: N 45°06.368' W 097°06.120')

Cooperator: SDSU Northeast Research Farm - Allen Heuer, manager

Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slope

Fertilizer: 0-100-50 preplant incorporated

Previous crop: Spring Wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Dual II
Post: Glyphosate

Date seeded: 5/21/2014

Date harvested: 10/10/2014

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Table 1. Glyphosate-resistant soybean variety performance results (average of 3 replications) - Maturity Group 0 at South Shore, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Wensman	3090NR2	0.8	68.7	10.1	1.0
Prairie Brand	PB-1234R2	0.9	68.2	10.5	1.0
Legacy Seeds	LS0833 NRR2	0.8	68.1	10.3	1.3
Peterson Farms Seed	14R09N	0.9	67.6	10.3	1.0
Dairyland Seeds	DSR-0904/R2Y	0.9	67.3	10.2	1.0
Dairyland Seeds	DSR-0711/R2Y	0.7	66.8	10.4	1.0
Peterson Farms Seed	13R08N	0.8	66.7	10.2	1.0
Nuseed	2093 RR2YN	0.9	66.6	10.4	1.3
Federal Hybrids	F084NRR2Y	0.8	66.4	10.4	1.3
Prairie Brand	PB-0777R2	0.7	66.3	10.3	1.0
Wensman	3076R2	0.7	65.7	10.1	1.0
Check	Check	1.7	65.6	10.2	1.0
Prairie Brand	PB-0863R2	0.8	65.4	10.2	1.0
Sodak Genetics	SD2091R2Y	0.9	63.8	10.0	1.0
Nuseed	2074 RR2YN	0.7	61.0	10.2	1.0
Nutech/G2 Genetics	6084R2	0.8	60.8	10.2	1.0
Prairie Brand	PB-1147R2	0.9	58.7	10.7	2.0
Trial Average			65.5	10.3	1.1
LSD (0.05)†			3.1	0.2	0.4
C.V.‡			3.0	1.2	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2a. Glyphosate-resistant soybean variety performance results (average of 3 replications) - Maturity Group 1 at South Shore, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Peterson Farms Seed	14R13	1.3	69.7	10.0	1.0
Stine	10RD03	1.0	69.7	9.9	1.3
NK Brand	S14-J7	1.4	68.7	10.2	1.0
NK Brand	S12-H2	1.2	68.2	10.0	1.0
NK Brand	S10-P9	1.0	68.0	10.0	1.0
Wensman	W 3128R2	1.2	68.0	10.1	1.0
Wensman	W 3160NR2	1.6	67.3	10.4	1.0
Nutech/G2 Genetics	6112	1.1	67.2	10.1	1.0
Proseed	30-12	1.2	67.0	10.4	1.3
Dairyland Seeds	DSR-1340/R2Y	1.3	66.9	10.2	1.0
Prairie Brand	PB-1611R2	1.6	66.8	11.4	1.0
Proseed	30-11	1.1	66.5	10.2	1.0
Pioneer	P10T02R	1.0	66.3	10.2	2.0
Peterson Farms Seed	15R14N	1.4	66.3	10.0	1.0
Wensman	W 3102NR2	1.0	66.2	10.2	1.3
Peterson Farms Seed	14R11N	1.1	66.2	10.1	1.3
Wensman	W 3158NR2	1.5	66.2	10.1	1.0
REA Hybrids	71G14	1.1	66.2	10.6	1.7
Sodak Genetics	SD2172R2Y	1.7	66.1	9.9	1.0
Nuseed	2122 RR2YN	1.2	66.1	10.4	1.0
Nutech/G2 Genetics	7104	1.0	65.9	10.1	2.0
Proseed	PX411N	1.0	65.7	10.5	1.3
Channel	1207R2	1.2	65.5	10.2	2.0
Legacy Seeds	LS1314 NRR2	1.3	65.5	10.3	1.0
Hefty	EXP H15R5	1.5	65.4	10.2	1.0
Prairie Brand	PB-1566R2	1.5	65.2	10.8	1.0
Prairie Brand	PB-1947R2	1.9	65.1	11.1	2.3
Check	Check	1.7	65.0	9.9	1.0
Titan Pro	15M22	1.5	64.7	10.5	1.0
Dairyland Seeds	DSR-1515/R2Y	1.5	64.6	10.0	1.0
Trial Average			64.4	10.4	1.4
LSD (0.05)†			3.0	0.7	0.7
C.V.‡			2.9	4.2	

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant soybean variety performance results, continued (average of 3 replications) - Maturity Group 1 at South Shore, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Hefty	EXP H13R5	1.3	64.6	10.5	2.0
Great Lakes Hybrids	1441R2	1.4	64.5	10.1	1.0
Pioneer	P13T99R	1.3	64.5	10.4	1.0
Wensman	W 3121NR2	1.2	64.3	10.1	1.0
REA Hybrids	R1215	1.2	64.2	10.2	2.0
Channel	1308R2	1.3	64.0	10.2	1.7
Great Lakes Hybrids	1829R2	1.8	63.9	11.7	2.0
Nutech/G2 Genetics	7157	1.5	63.8	9.9	1.0
Pioneer	P19T60R	1.9	63.7	10.3	1.3
Prairie Brand	PB-1466R2	1.4	63.6	10.5	2.0
Dairyland Seeds	DSR-1120/R2Y	1.1	63.5	10.2	1.3
Sodak Genetics	SD2101R2Y	1.0	63.5	10.0	1.0
NK Brand	S15-P1	1.5	63.3	11.0	2.3
REA Hybrids	71G20	1.1	63.2	10.3	2.7
Peterson Farms Seed	12R12	1.1	63.1	10.2	1.0
Prairie Brand	PB-1956R2	1.9	62.7	12.2	1.7
Prairie Brand	PB-1822R2	1.8	62.7	11.2	1.3
Hefty	EXP H16R5	1.6	62.5	10.5	1.0
Stine	14RF06	1.4	62.5	10.5	1.7
Channel	1508R2	1.2	62.0	10.4	1.7
Nutech/G2 Genetics	6143	1.4	61.7	10.1	1.3
REA Hybrids	R1515	1.5	61.6	10.9	2.0
Pioneer	P16T04R	1.6	61.4	10.5	1.0
Prairie Brand	PB-1794R2	1.7	61.3	13.0	2.0
Federal Hybrids	F143RR2Y	1.4	61.3	10.4	2.0
Channel	1108R2	1.1	61.2	10.3	2.3
Proseed	30-18	1.8	61.1	10.9	1.0
REA Hybrids	75G12	1.5	60.1	10.1	1.0
Legacy Seeds	LS1134 NRR2	1.1	58.0	10.5	2.7
Federal Hybrids	F115NRR2Y	1.1	57.8	10.4	2.3
Hefty	EXP H11R5	1.1	57.1	10.4	2.7
Trial Average			64.4	10.4	1.4
LSD (0.05)†			3.0	0.7	0.7
C.V.‡			2.9	4.2	

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.



A Service of SDSU Extension

2014 South Dakota

Soybean Variety Trial Results - Volga

Jonathan Kleinjan | SDSU Crop Performance Testing Director

Kevin Kirby | Agricultural Research Manager

Shawn Hawks | Agricultural Research Manager

Location: 1.5 mile south of Volga (57101) in Brookings County, SD
(GPS: N 44°17.915' W 096°55.393')

Cooperator: SDSU Volga Research Farm - Jack Ingemansen, manager

Soil Type: Brandt silty clay loam, 0-2% slope

Fertilizer: none

Previous crop: Spring wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Dual II
Post: Glyphosate

Date seeded: 5/19/2014

Date harvested: 10/6/2014 (Groups 0&1), 10/13/14 (Group 2)

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Table 1a. Glyphosate-resistant soybean variety performance results (average of 3 replications) - Maturity Groups 0 & 1 at Volga, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Peterson Farms Seed	13R08N	0.8	64.1	11.2	1.0
Titan Pro	15M22	1.5	62.9	11.5	1.3
Peterson Farms Seed	14R13	1.3	62.7	11.1	1.0
Sodak Genetics	SD2172R2Y	1.7	61.2	11.0	2.0
Prairie Brand	PB-1611R2	1.6	61.1	12.0	1.0
Wensman	W 3195NR2	1.9	60.6	12.0	2.0
Sodak Genetics	SD2091R2Y	0.9	60.2	10.9	2.0
Wensman	W 3160NR2	1.6	59.9	11.4	1.3
Nutech/G2 Genetics	7157	1.5	59.7	10.9	1.3
Check	Check	1.7	59.5	10.9	1.3
Wensman	W 3140R2	1.5	59.2	11.6	2.0
Wensman	W 3128R2	1.2	59.2	11.1	1.0
Peterson Farms Seed	15R14N	1.4	58.9	11.0	1.0
Nutech/G2 Genetics	7104	1.0	58.8	11.2	1.3
Nutech/G2 Genetics	6143	1.4	58.7	10.8	1.7
Prairie Brand	PB-1566R2	1.5	58.6	12.1	1.3
NK Brand	S14-J7	1.4	58.4	11.2	1.0
Nutech/G2 Genetics	6112	1.1	58.3	11.4	1.7
Peterson Farms Seed	14R09N	0.9	58.1	11.4	2.0
NK Brand	S15-P1	1.5	58.1	11.8	1.3
Channel	1308R2	1.3	57.8	11.1	2.0
Prairie Brand	PB-1466R2	1.4	57.8	11.2	2.0
Prairie Brand	PB-1947R2	1.9	57.6	11.5	1.3
Hefty	EXP H17R5	1.7	57.4	15.1	2.0
Dairyland Seeds	DSR-1515/R2Y	1.5	57.4	10.9	1.7
Channel	1808R2	1.8	56.9	13.6	2.0
Renk	RS195NR2	1.9	56.9	11.9	1.3
REA Hybrids	78G12	1.8	56.8	11.5	1.7
REA Hybrids	R1515	1.5	56.7	11.8	1.7
Wensman	W 3158NR2	1.5	56.6	11.0	1.0
Trial Average			57.0	12.0	1.5
LSD (0.05)†			3.0	0.8	-
C.V.‡			3.3	4.4	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Titan Pro	TP-17R54	1.7	56.4	12.9	2.0
NK Brand	S19-Z9	1.9	55.8	19.0	2.3
Peterson Farms Seed	12R12	1.1	55.7	11.2	2.0
Prairie Brand	PB-1956R2	1.9	55.7	16.7	2.0
Sodak Genetics	SD2101R2Y	1.0	55.4	10.9	1.0
Proseed	30-18	1.8	55.3	11.9	1.7
Peterson Farms Seed	14R11N	1.1	55.2	11.0	1.0
Channel	1508R2	1.5	55.0	11.9	1.3
REA Hybrids	75G12	1.5	54.4	11.1	1.0
Renk	RS175NR2	1.7	54.3	13.6	1.7
REA Hybrids	R1815	1.8	54.3	13.2	1.0
Stine	19RF32	1.9	54.1	11.8	1.0
Pioneer	P19T60R	1.9	54.0	11.2	2.0
Prairie Brand	PB-1822R2	1.8	53.8	11.9	1.3
Renk	RS183NR2	1.8	53.8	12.3	1.0
Prairie Brand	PB-1794R2	1.7	52.8	12.4	1.3
Pioneer	P16T04R	1.6	52.8	12.2	1.3
Wensman	W 3170NR2	1.7	52.6	11.7	1.7
Hefty	EXP H18R5	1.8	52.5	11.5	1.3
Dairyland Seeds	DSR-1990/R2Y	1.9	52.4	15.7	2.3
Stine	14RF06	1.4	52.0	11.4	1.3
Trial Average			57.0	12.0	1.5
LSD (0.05)†			3.0	0.8	-
C.V.‡			3.3	4.4	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Glyphosate-resistant soybean variety performance results (average of 3 replications) - Maturity Group 2 at Volga, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
NK Brand	S20-T6	2.0	58.3	11.4	1.0
Check	Check	1.7	58.2	11.3	1.0
Wensman	W 3200NR2	2.0	55.4	11.5	1.0
Proseed	30-21	2.1	54.3	11.6	1.0
Prairie Brand	EXP-1947R2	2.0	53.7	11.6	1.0
REA Hybrids	80G11	2.0	53.4	11.9	1.0
Prairie Brand	PB-2600R2	2.6	53.1	12.6	1.0
Channel	2108R2	2.1	53.1	12.3	1.0
Pioneer	P25T51R	2.5	53.0	14.9	1.0
Federal Hybrids	F230RR2Y	2.3	52.8	12.8	1.3
Renk	RS213NR2	2.1	52.6	12.1	1.0
Prairie Brand	PB-2024R2	2.0	51.9	11.7	1.0
Hefty	H21Y11	2.1	51.9	11.6	1.0
Pioneer	P22T69R	2.2	51.5	11.8	1.0
Nutech/G2 Genetics	7216	2.1	51.5	11.8	1.0
Pioneer	P21T66R2	2.1	51.2	12.0	1.3
Hefty	H23R5	2.3	51.2	11.9	1.3
REA Hybrids	R2115	2.1	51.0	12.4	1.3
Prairie Brand	PB-2230R2	2.2	50.9	12.0	1.0
Titan Pro	20M1	2.0	50.7	11.5	1.0
Prairie Brand	PB-2319R2	2.3	50.6	11.9	1.0
Great Lakes Hybrids	2469R2	2.4	50.4	12.1	1.0
Federal Hybrids	F224NRR2Y	2.2	49.9	11.9	1.0
Hefty	H20R5	2.0	49.8	11.9	1.0
Pioneer	P22T61R	2.2	49.7	11.7	1.0
Nutech/G2 Genetics	7204R2	2.0	49.4	12.0	1.0
Great Lakes Hybrids	2289R2	2.2	48.9	11.4	1.0
Nutech/G2 Genetics	7233	2.3	48.2	11.9	1.0
Prairie Brand	PB-2188R2	2.1	47.9	12.1	1.3
Prairie Brand	PB-2556R2	2.5	43.1	13.7	1.3
Trial Average			51.6	12.0	1.1
LSD (0.05)†			2.9	0.5	0.4
C.V.‡			3.4	2.3	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Jonathan Kleinjan | SDSU Extension Crop Performance Testing Director

Kevin Kirby | Agricultural Research Manager

Shawn Hawks | Agricultural Research Manager

Location: 6 miles west and 3 miles south of Beresford (57432) in Clay county, SD
(GPS: N 44°17.915' W 096°55.393')

Cooperator: SDSU Southeast Research Farm - Peter Sexton, manager

Soil Type: Egan-Clarno-Trent silty clay loam, 0-2% slope, non-irrigated

Fertilizer: 0-0-80 preplant incorporated

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Glyphosate, Authority MTZ
Post: Glyphosate, Select

Date seeded: 5/22/2014

Date harvested: 10/14/2014

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Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Prairie Brand	EXP-1947R2	2.0	76.0	10.7	1.0
Prairie Brand	PB-2419RR2	2.4	73.8	10.5	1.0
Hoegemeyer	HPT 2860NRR	2.8	73.6	11.1	1.0
Dairyland Seed	DST-26-005R2	2.6	73.1	10.7	1.3
Channel	2207R2	2.2	72.8	10.8	1.0
Dairyland Seed	DSR-2411/R2Y	2.4	72.7	10.4	1.0
Channel	2306R2	2.3	72.5	10.6	1.0
Nutech/G2 Genetics	7250	2.5	72.4	10.6	1.0
Hoegemeyer	HPT 2511NRR	2.5	72.3	10.9	1.0
Nutech/G2 Genetics	7157	1.5	72.3	10.7	1.0
Hefty	EXP H20R5	2.0	72.2	10.8	1.7
Stine	19RF32	1.9	72.1	10.7	1.0
Prairie Brand	PB-2188R2	2.1	71.9	10.6	1.0
Channel	2408R2	2.4	71.8	10.4	1.0
Nutech/G2 Genetics	7240	2.4	71.8	10.8	1.3
Prairie Brand	PB-2319R2	2.3	71.8	10.8	1.0
Hefty	EXP H23R5	2.3	71.8	10.7	1.0
Channel	2108R2	2.1	71.7	10.8	1.7
Legend Seeds	LS 20R524N	2.0	71.7	10.8	1.0
REA Hybrids	R2115	2.1	71.7	10.6	2.0
Wensman	W 3228NR2	2.2	71.7	10.7	1.0
Pioneer	P22T61R	2.2	71.6	10.8	1.3
Pioneer	P22T69R	2.2	71.6	10.6	1.0
Wensman	W 3214NR2	2.1	71.4	10.7	1.3
Prairie Brand	PB-2600R2	2.6	71.3	10.8	1.3
Hoegemeyer	HPT 2707RR	2.7	71.3	10.6	1.0
Channel	1808R2	1.8	71.1	10.9	1.0
Prairie Brand	PB-2024R2	2.0	70.9	10.7	1.3
Wensman	W 3230R2	2.3	70.7	10.7	1.3
Nutech/G2 Genetics	7273	2.7	70.7	10.9	1.3
Trial Average			69.5	10.8	1.2
LSD (0.05)†			3.9	0.3	0.6
C.V.‡			3.5	2.0	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant soybean variety performance results, continued (average of 3 replications) - Maturity Groups 1 & 2 at Beresford, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Renk	RS265NR2	2.6	70.6	10.6	1.0
Check	Check	1.7	70.5	10.6	1.0
Pioneer	P25T51R	2.5	69.9	11.1	1.3
Wensman	W 3254NR2	2.5	69.5	10.3	1.7
REA Hybrids	R2415	2.4	69.4	10.6	1.3
Wensman	W 3200NR2	2.0	69.3	10.5	1.0
Titan Pro	TP-23R04	2.3	69.3	10.7	1.0
Pioneer	92Y83	2.8	69.2	10.7	1.0
Stine	28RE20	2.8	69.1	10.8	1.0
Channel	2508R2	2.5	69.1	10.8	2.3
Great Lakes Hybrids	2869R2	2.8	69.0	10.7	1.0
Prairie Brand	PB-2556R2	2.5	68.9	10.6	1.0
Sodak Genetics	SD2172R2Y	1.7	68.8	10.8	1.0
Nutech/G2 Genetics	7204R2	2.0	68.8	10.7	1.0
Nutech/G2 Genetics	7233	2.3	68.8	10.8	1.0
Legend Seeds	LS 25R21N	2.5	68.7	11.2	2.3
REA Hybrids	86G14	2.5	68.5	10.8	1.3
Hefty	H21Y11	2.1	68.1	10.6	1.0
Hefty	EXP H24R5	2.4	68.1	10.7	1.3
Legend Seeds	LS 24R563N	2.4	67.6	10.9	1.0
Titan Pro	TP-20R44	2.0	67.5	10.9	1.0
Hefty	EXP H28R5	2.8	67.4	11.6	1.7
Prairie Brand	PB-2997R2	2.9	67.3	11.0	1.7
Nutech/G2 Genetics	7216	2.1	67.1	10.7	1.0
Pioneer	P27T87R2	2.7	67.1	11.1	1.7
Titan Pro	TP-21R63	2.1	67.0	10.8	1.0
REA Hybrids	80G11	2.0	66.9	10.6	1.0
Dairyland Seed	DSR-2250/R2Y	2.2	66.8	10.5	1.0
Channel	2607R2	2.6	66.7	10.5	1.0
Prairie Brand	PB-2230R2	2.1	66.6	10.6	1.3
Trial Average			69.5	10.8	1.2
LSD (0.05)†			3.9	0.3	0.6
C.V.‡			3.5	2.0	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1c. Glyphosate-resistant soybean variety performance results, continued (average of 3 replications) - Maturity Groups 1 & 2 at Beresford, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Stine	24RE03	2.4	66.4	10.9	2.0
Titan Pro	20M1	2.0	66.4	10.5	1.0
Wensman	W 3275NR2	2.7	66.3	10.7	2.7
Hefty	EXP H25R5	2.5	66.2	10.8	1.3
Channel	2808R2	2.8	66.1	11.7	1.3
Stine	22RD00	2.2	65.7	10.6	1.0
Nutech/G2 Genetics	7261	2.6	64.9	10.9	1.0
Great Lakes Hybrids	2789R2	2.7	64.6	11.0	2.0
Sodak Genetics	SD2101R2Y	1.0	64.1	11.2	1.0
Legend Seeds	LS 28R20N	2.8	62.1	10.8	1.7
Trial Average			69.5	10.8	1.2
LSD (0.05)†			3.9	0.3	0.6
C.V.‡			3.5	2.0	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Jonathan Kleinjan | SDSU Crop Performance Testing Director
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Beresford

Location: 6 miles west and 3 miles south of Beresford (57432) in Clay county, SD
(GPS: N 44°17.915' W 096°55.393')

Cooperator: SDSU Southeast Research Farm - Peter Sexton, manager

Soil Type: Egan-Clarno-Trent silty clay loam, 0-2% slope, non-irrigated

Fertilizer: none

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Glyphosate, Authority MTZ
Post: none (hand-weeded)

Date seeded: 5/22/2014
Date harvested: 10/14/2014

Table 1. Non-glyphosate resistant soybean variety performance results (average of 3 replications sorted by yield) - Maturity Groups 1 & 2 at Beresford, SD).

Variety Information			Agronomic Performance				
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Protein %	Oil %	Lodging Score (1-5)*
Check	Check	1.7	72.5	11.6	35.0	19.7	1.0
SD-AES	BROOKINGS	1.7	72.2	11.4	35.7	18.6	1.3
Royal	EXP-RS2101	1.9	70.8	11.7	38.1	17.8	1.7
SD-AES	DEUEL	1.1	70.0	10.9	36.2	18.7	2.7
SD-AES	DAVISON	2.2	68.7	11.2	36.2	17.5	1.3
Richland IFC	MK9101	1.0	58.9	10.2	35.8	19.9	1.0
Richland IFC	MK1016	1.0	52.0	12.1	37.4	17.1	1.3
Trial Average			63.3	11.3	36.3	18.5	1.5
LSD (0.05)†			3.9	0.7	0.6	0.3	0.9
C.V.‡			3.5	3.7	0.8	0.9	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Volga

Location: 1.5 mile south of Volga (57101) in Brookings County, SD
(GPS: N 44°17.915' W 096°55.393')

Cooperator: SDSU Volga Research Farm - Jack Ingemansen, manager

Soil Type: Brandt silty clay loam, 0-2% slope

Fertilizer: none

Previous crop: Spring wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Dual II
Post: Harmony GT

Date seeded: 5/19/2014

Date harvested: 10/6/2014 (Groups 0&1), 10/13/14 (Group 2)

Table 2. Non-glyphosate resistant soybean variety performance results (average of 3 replications sorted by yield) - Maturity Group 0 at Volga, SD).

Variety Information			Agronomic Performance				
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Protein %	Oil %	Lodging Score (1-5)*
Check	Check	1.7	57.9	9.8	33.8	17.9	1.3
Peterson Farms Seed	L08-14§	0.8	55.0	9.1	33.2	17.7	1.0
SD-AES	SURGE	0.7	52.2	9.3	33.3	18.7	1.0
SD-AES	ROBERTS	0.6	51.0	8.7	32.4	18.6	1.3
SD-AES	CODINGTON	0.9	50.2	8.9	34.9	18.0	1.0
SDSU EXP	SD07CV-539	-	49.7	10.5	32.1	19.3	1.0
SDSU EXP	SD08CV-0015	-	48.9	8.8	32.5	17.9	1.0
SDSU EXP	SD06-415	-	47.0	9.1	31.4	19.8	1.7
Richland IFC	MK0508	0.8	41.2	8.7	31.8	16.1	3.0
Trial Average			50.3	9.2	32.8	18.2	1.4
LSD (0.05)†			4.0	1.5	0.7	0.6	0.6
C.V.‡			4.6	9.3	1.3	1.8	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

§ Liberty Link variety

Table 3. Non-glyphosate resistant soybean variety performance results (average of 3 replications sorted by yield) - Maturity Groups 1 & 2 at Volga, SD).

Variety Information			Agronomic Performance				
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Protein %	Oil %	Lodging Score (1-5)*
Check	Check	1.7	56.6	11.5	35.0	18.3	1.0
SD-AES	BROOKINGS	1.7	48.3	12.4	36.0	16.9	1.0
SD-AES	DAVISON	2.2	48.2	11.8	35.8	16.7	1.0
Peterson Farms Seed	L11-13N§	1.1	48.0	11.6	35.3	18.5	1.0
SD-AES	DEUEL	1.1	47.4	11.2	35.3	17.6	1.7
Royal	EXP-RS2101	1.9	46.1	13.4	38.4	17.1	1.0
Richland IFC	MK1016	1	42.5	11.6	35.8	16.1	1.3
Richland IFC	MK9101	1	39.5	11.6	35.0	20.3	1.0
Trial Average			45.6	12.1	36.0	17.8	1.1
LSD (0.05)†			3.8	1.6	1.1	0.9	0.8
C.V.‡			4.9	7.6	1.8	2.9	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

§ Liberty Link variety

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South Shore

Location: 8.5 miles west of South Shore (57263) in Codington County, SD
(GPS: N 45°06.368' W 097°06.120')

Cooperator: SDSU Northeast Research Farm - Allen Heuer, manager

Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slope

Fertilizer: 0-100-50 preplant incorporated

Previous crop: Spring Wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Dual II
Post: Poast, Harmony SG

Date seeded: 5/21/2014

Date harvested: 10/10/2014

Table 4. Non-glyphosate resistant soybean variety performance results (average of 3 replications sorted by yield) - Maturity Group 0 at South Shore, SD).

Variety Information			Agronomic Performance				
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Protein %	Oil %	Lodging Score (1-5)*
SDSU EXP	SD08CV-0015	-	62.1	9.8	35.4	17.3	1.3
SDSU EXP	SD07CV-539	-	61.2	10.4	32.7	18.9	1.0
Check	Check	1.7	61.1	9.5	34.3	17.5	1.0
Peterson Seed Farms	L08-14§	0.8	59.0	10.0	34.9	17.5	1.0
SD-AES	ROBERTS	0.6	59.0	9.7	34.6	18.1	1.0
SD-AES	SURGE	0.7	58.7	9.5	35.7	17.6	1.0
SD-AES	CODINGTON	0.9	57.9	9.4	35.2	17.9	1.0
SDSU EXP	SD06-415	-	55.7	9.7	34.4	18.7	1.3
Richland IFC	MK0508	0.8	50.0	9.4	33.9	15.9	3.7
Trial Average			58.3	9.7	34.6	17.7	1.4
LSD (0.05)†			2.3	0.7	0.7	0.3	0.5
C.V.‡			2.3	4.2	1.2	1.1	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

§ Liberty Link variety

Table 5. Non-glyphosate resistant soybean variety performance results (average of 3 replications sorted by yield) - Maturity Group 1 at South Shore, SD).

Variety Information			Agronomic Performance				
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Protein %	Oil %	Lodging Score (1-5)*
Royal	EXP-RS2101	1.9	64.2	11.6	38.4	16.5	2.3
Check	Check	1.7	61.9	9.4	33.9	17.4	1.3
SD-AES	DEUEL	1.1	59.8	10.5	36.2	16.9	2.0
Peterson Farms Seed	L11-13N§	1.1	59.5	10.5	35.3	17.8	1.0
SD-AES	BROOKINGS	1.7	58.9	12.3	36.5	17.3	1.3
Richland IFC	MK1016	1.0	49.0	9.2	36.4	14.9	3.0
Richland IFC	MK9101	1.0	48.9	11.3	35.4	20.0	1.0
Trial Average			55.9	11.5	36.3	17.6	1.8
LSD (0.05)†			4.5	1.3	0.8	0.7	0.6
C.V.‡			4.7	6.4	1.2	2.4	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

§ Liberty Link variety

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Jonathan Kleinjan | SDSU Crop Performance Testing Director
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location: 4 miles north and 1/2 mile west of Bancroft (57353) in Kingsbury County
(GPS: N 44°31.091' W 097°45.244)

Cooperator: Weerts Farm, Inc.

Soil Type: Houdek-Stickney loam, 0-2% slope, non-irrigated

Fertilizer: None

Previous crop: Corn

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Sulfentrazone + Metribuzin (Authority MTZ)
Post: Glyphosate (Roundup Power Max) + Fomesafen (Marvel)

Insecticide: None

Date seeded: 5/22/2015

Date harvested: 10/9/2015

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Table 1a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Groups 0 & 1 at Bancroft, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Thunder Seed	3619N R2Y	1.9	65.5	11.8	1.0
Rea Hybrids	R1815	1.8	65.1	12.1	1.0
Dairyland Seed	DSR-1721/R2Y	1.7	65.0	12.0	1.0
Thunder Seed	3114 R2Y	1.4	65.0	11.9	1.0
Channel	1808R2	1.8	65.0	11.9	1.0
NK Brand	S13-H5	1.3	64.8	12.1	1.0
Legend Seeds	LS 17R645N	1.6	64.5	11.8	1.0
Thunder Seed	3617 R2Y	1.7	64.4	11.7	1.0
Renk Seed	RS195NR2	1.9	64.3	11.8	1.0
Thunder Seed	3511N R2Y	1.1	64.3	12.1	1.0
NK Brand	S14-J7	1.4	64.2	12.0	1.0
Thunder Seed	3614N R2Y	1.4	64.1	11.9	1.0
Thunder Seed	3408N R2Y	0.8	64.0	12.7	1.0
Wensman	W3160NR2	1.6	64.0	12.1	1.0
Great Lakes Hybrids	1953NR2	1.9	63.9	11.8	1.0
Wensman	W3140R2	1.5	63.8	12.4	1.0
Prairie Brand	PB-1947R2	1.9	63.6	12.0	1.0
Rea Hybrids	R1716	1.7	63.6	11.5	1.0
Prairie Brand	PB-1611R2	1.6	63.3	11.5	1.0
Nutech/G2 Genetics	7169	1.6	63.3	12.3	1.0
Thunder Seed	3609N R2Y	0.9	63.2	12.9	1.0
Legend Seeds	LS 13R556N	1.3	63.1	12.0	1.0
Credenz	CZ 1787 RY	1.7	63.0	11.7	1.0
Wensman	W3195NR2	1.9	62.5	12.3	1.0
Prairie Brand	X15175R2	1.7	62.4	11.7	1.0
Wensman	W3170NR2	1.7	62.4	12.2	1.0
Federal Hybrids	F165RR2Y	1.6	62.4	11.5	1.0
Federal Hybrids	F195NRR2Y	1.9	62.3	11.7	1.0
Federal Hybrids	F185NRR2Y	1.8	62.3	12.3	1.0
Dairyland Seed	DSR-1990/R2Y	1.9	62.3	12.0	1.0
Trial Average			61.7	12.0	1.0
LSD (0.05)†			3.4	0.4	0.0
C.V.‡			4.1	2.5	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Groups 0 & 1 at Bancroft, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Legend Seeds	LS 14R22N	1.4	62.1	12.0	1.0
Pioneer	P18T26R2	1.8	62.1	11.9	1.0
Rea Hybrids	R1515	1.5	62.1	11.6	1.0
Prairie Brand	X15143R2	1.3	62.1	12.1	1.0
NK Brand	S12-H2	1.2	62.1	12.0	1.0
Federal Hybrids	F145NRR2Y	1.4	62.0	12.3	1.0
Wensman	W3143NR2	1.4	61.8	12.0	1.0
Prairie Brand	PB-1956R2	1.9	61.7	12.5	1.0
Federal Hybrids	F154NRR2Y	1.5	61.5	12.1	1.0
NK Brand	S15-P1	1.5	61.4	12.0	1.0
Prairie Brand	PB-1466R2	1.4	61.4	12.2	1.0
Titan Pro	TP-18R24	1.8	61.3	12.9	1.0
NK Brand	S11-C8	1.1	61.2	12.5	1.0
Prairie Brand	PB-1822R2	1.8	60.5	11.9	1.0
Nutech/G2 Genetics	7172R2	1.7	60.3	11.8	1.0
Legend Seeds	LS 17R500N	1.7	60.2	12.2	1.0
Channel	1508R2	1.5	60.2	11.7	1.0
Federal Hybrids	F124NRR2Y	1.2	59.4	12.0	1.0
Renk Seed	RS175NR2	1.7	59.3	12.1	1.0
Legend Seeds	LS 12R24N	1.2	59.3	12.6	1.0
Sodak Genetics	SD2092R2Y	0.9	58.7	12.1	1.0
Titan Pro	15M22	1.5	58.7	12.1	1.0
Prairie Brand	PB-1586R2	1.5	58.2	11.6	1.0
Check	Check	1.4	58.0	12.0	1.0
Sodak Genetics	SD2172R2Y	1.7	56.9	11.7	1.0
Federal Hybrids	F106NRR2Y	1.0	56.8	12.7	1.0
Sodak Genetics	SD2173R2Y	1.7	56.3	12.0	1.0
Dairyland Seed	DSR-1515/R2Y	1.5	55.5	11.9	1.0
Credenz	CZ 767 RY	0.7	55.0	11.8	1.0
Sodak Genetics	SD2101R2Y	1.0	54.5	12.3	1.0
Sodak Genetics	SD2061R2Y	0.6	54.1	12.4	1.0
Trial Average			61.7	12.0	1.0
LSD (0.05)†			3.4	0.4	0.0
C.V.‡			4.1	2.5	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 2 at Bancroft, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Nutech/G2 Genetics	7250	2.5	67.8	21.7	1.0
Legend Seeds	LS 20R663N	2.0	67.4	11.7	1.0
Nutech/G2 Genetics	7204R2	2.0	66.4	13.4	1.0
Wensman	W3201NR2	2.0	66.1	13.2	1.0
Titan Pro	TP-20R25	2.0	66.0	13.1	1.0
Prairie Brand	PB-2296R2	2.2	65.6	14.5	1.0
Wensman	W3226NR2	2.2	65.4	13.2	1.0
Channel	2009R2	2.0	65.4	13.9	1.0
Great Lakes Hybrids	2469R2	2.4	65.0	13.1	1.0
Rea Hybrids	R2115	2.1	64.7	12.8	1.0
Dairyland Seed	DSR-2110/R2Y	2.1	64.5	14.1	1.0
Channel	2108R2	2.1	64.2	12.8	1.0
Channel	2408R2	2.4	64.1	19.6	1.0
Prairie Brand	PB-2419RR2	2.4	64.0	15.5	1.0
Rea Hybrids	R2016	2.0	63.8	13.2	1.0
Prairie Brand	PB-2230R2	2.1	63.4	13.5	1.0
Prairie Brand	PB-2156R2	2.1	63.4	12.7	1.0
Prairie Brand	PB-2024R2	2.1	63.3	13.0	1.0
Pioneer	P20T79R2	2.0	63.1	12.1	1.0
Federal Hybrids	F205NRR2Y	2.0	63.1	13.2	1.0
Wensman	W3200NR2	2.0	63.1	12.8	1.0
Nutech/G2 Genetics	7217R2	2.1	62.8	13.7	1.0
Channel	2309R2	2.3	62.2	15.5	1.0
Titan Pro	20M1	2.0	62.1	11.9	1.0
Great Lakes Hybrids	2258NR2	2.2	61.9	14.0	1.0
Nutech/G2 Genetics	7240	2.4	61.9	14.6	1.0
Great Lakes Hybrids	2551NR2	2.5	61.9	17.7	1.0
Prairie Brand	PB-2188R2	2.1	61.9	13.2	1.0
Credenz	CZ 2474 RY	2.4	61.4	15.2	1.0
Prairie Brand	PB-2600R2	2.6	61.3	35.4	1.0
Check	Check	1.4	60.3	12.1	1.0
Titan Pro	TP-20R44	2.0	59.3	12.5	1.0
Credenz	CZ 2788 RY	2.7	55.3	41.4	1.0
Trial Average			63.3	15.6	1.0
LSD (0.05)†			3.7	2.4	0.0
C.V.‡			4.1	10.8	

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Jonathan Kleinjan | SDSU Crop Performance Testing Director
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location: 4 miles south and 2.5 miles east of Bath (57427) in Brown County, SD
(GPS: N 45°23.953' W 098°23.953')

Cooperator: Gordon and Roger Locken Farms

Soil Type: Great Bend-Beotia silt loams, 0-2% slopes

Fertilizer: none

Previous crop: Corn

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Roundup & Authority Assist
Post: Glyphosate (Roundup Power Max)

Insecticide: Tundra Supreme

Date seeded: 5/21/2015

Date harvested: 10/1/2015

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Table 1. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 0 at Bath, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Proseed	PX509 N	0.9	72.5	7.8	1.0
Nutech/G2 Genetics	6097R2	0.9	72.2	7.7	1.0
Rea Hybrids	R0815	0.8	71.0	7.8	1.0
Thunder Seed	3609N R2Y	0.9	70.3	8.0	1.0
Check	Check	1.4	70.3	8.1	1.0
Peterson Farms Seed	16R09N	0.9	70.2	8.0	1.0
Prairie Brand	PB-0777R2	0.7	70.0	7.8	1.0
Legacy Seeds	LS-0833N	0.8	69.4	7.9	1.0
Prairie Brand	X15093R2	0.9	69.2	8.0	1.0
Rea Hybrids	69G14	0.9	69.0	8.0	1.0
Thunder Seed	3408N R2Y	0.8	68.7	7.8	1.0
Prairie Brand	PB-0966R2	0.9	68.7	8.2	1.0
Prairie Brand	PB-0863R2	0.8	68.5	7.7	1.0
Wensman	W3072NR2	0.7	68.3	7.9	1.0
Federal Hybrids	F084NRR2Y	0.8	68.3	8.0	1.0
Wensman	W3090NR2	0.8	68.2	7.7	1.0
Legacy Seeds	LS-0935N	0.9	68.1	8.0	1.0
Dairyland Seed	DSR-0904/R2Y	0.9	68.0	7.7	1.0
Prairie Brand	PB-1234R2	0.9	68.0	8.2	1.0
Stine	07RF33	0.7	67.6	7.8	1.0
Federal Hybrids	F066NRR2Y	0.6	67.5	7.9	1.0
Dairyland Seed	DSR-0711/R2Y	0.7	66.9	8.3	1.0
Credenz	CZ 767 RY	0.7	66.6	7.4	1.0
Sodak Genetics	SD2061R2Y	0.6	66.4	7.6	1.0
Sodak Genetics	SD2091R2Y	0.9	65.4	7.9	1.0
Sodak Genetics	SD2092R2Y	0.9	62.7	8.3	1.0
Channel	0709R2	0.7	60.8	7.9	1.0
Trial Average			68.2	7.9	1.0
LSD (0.05)†			2.8	0.3	0.0
C.V.‡			2.9	3.0	

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 1 at Bath, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
NK Brand	S13-H5	1.3	71.3	8.9	1.0
Legacy Seeds	LS-1335N	1.3	71.3	7.9	1.0
Prairie Brand	X15143R2	1.3	71.0	8.0	1.0
Channel	1405R2	1.4	71.0	8.4	1.0
Wensman	W3143NR2	1.4	71.0	8.2	1.0
Thunder Seed	3614N R2Y	1.4	70.8	8.2	1.0
Thunder Seed	3619N R2Y	1.9	70.4	9.5	1.0
Peterson Farms Seed	16R10	1.0	70.3	8.1	1.0
Stine	10RD03	1.0	70.2	7.7	1.0
NK Brand	S10-P9	1.0	70.2	7.8	1.0
Prairie Brand	X15175R2	1.7	70.1	9.0	1.0
Pioneer	P14T52R2	1.4	70.1	7.7	1.0
Prairie Brand	PB-1466R2	1.4	69.8	7.9	1.0
Wensman	W3140R2	1.5	69.8	9.1	1.0
Thunder Seed	3114 R2Y	1.4	69.7	8.8	1.0
Credenz	CZ 1787 RY	1.7	69.5	8.5	1.0
NK Brand	S14-J7	1.4	69.5	7.9	1.0
Rea Hybrids	71G14	1.1	69.5	8.1	1.0
Federal Hybrids	F145NRR2Y	1.4	69.4	8.3	1.0
Check	Check	1.4	69.4	7.9	1.0
Prairie Brand	PB-1947R2	1.9	69.4	11.0	1.0
Renk Seed	RS175NR2	1.7	69.4	10.1	1.0
Proseed	41-30 N	1.3	69.3	8.2	1.0
Prairie Brand	PB-1822R2	1.8	69.3	9.4	1.0
Thunder Seed	3617 R2Y	1.7	69.2	8.7	1.0
Channel	1808R2	1.8	68.9	9.1	1.0
Renk Seed	RS145NR2	1.4	68.7	8.1	1.0
Federal Hybrids	F124NRR2Y	1.2	68.7	8.0	1.0
Wensman	W3100NR2	1.0	68.6	8.1	1.0
Sodak Genetics	SD2172R2Y	1.7	68.6	8.5	1.0
Trial Average			68.0	8.5	1.0
LSD (0.05)†			2.7	0.6	0.0
C.V.‡			2.9	5.3	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Group 1 at Bath, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Dairyland Seed	DSR-1120/R2Y	1.1	68.3	7.9	1.0
Dairyland Seed	DSR-1515/R2Y	1.5	68.3	8.0	1.0
Peterson Farms Seed	14R11N	1.1	68.3	8.0	1.0
Wensman	W3128R2	1.2	68.2	8.1	1.0
Pioneer	P16T17R2	1.6	68.1	8.0	1.0
Peterson Farms Seed	15R14N	1.4	67.9	8.2	1.0
Prairie Brand	PB-1956R2	1.9	67.8	10.2	1.0
Prairie Brand	PB-1611R2	1.6	67.8	9.1	1.0
Proseed	P230-18	1.9	67.3	9.2	1.0
Federal Hybrids	F106NRR2Y	1.0	67.3	8.0	1.0
Nutech/G2 Genetics	7138	1.3	67.1	8.3	1.0
NK Brand	S12-H2	1.2	67.0	8.3	1.0
Prairie Brand	PB-1794R2	1.7	66.6	9.5	1.0
Proseed	31-10N	1.1	66.5	8.0	1.0
Legacy Seeds	LS-1134N	1.1	66.2	8.3	1.0
NK Brand	S11-C8	1.1	66.1	8.0	1.0
Dairyland Seed	DSR-1340/R2Y	1.3	66.1	8.4	1.0
Channel	1508R2	1.5	65.9	8.4	1.0
Channel	1108R2	1.1	65.8	8.3	1.0
Nutech/G2 Genetics	7169	1.6	65.5	8.1	1.0
NK Brand	S15-P1	1.5	65.3	10.7	1.0
Peterson Farms Seed	14R13	1.3	65.1	8.4	1.0
Proseed	41-10 N	1.1	65.0	8.0	1.0
Sodak Genetics	SD2101R2Y	1.0	64.9	7.9	1.0
Thunder Seed	3511N R2Y	1.1	64.4	8.2	1.0
Pioneer	P15T46R2	1.5	63.8	8.3	1.0
Rea Hybrids	R1515	1.5	63.5	8.5	1.0
Prairie Brand	PB-1586R2	1.5	62.3	8.7	1.0
Sodak Genetics	SD2173R2Y	1.7	60.6	9.2	1.0
Trial Average			68.0	8.5	1.0
LSD (0.05)†			2.7	0.6	0.0
C.V.‡			2.9	5.3	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Jonathan Kleinjan | SDSU Crop Performance Testing Director

Kevin Kirby | Agricultural Research Manager

Shawn Hawks | Agricultural Research Manager

Location: 6 miles west and 3 miles south of Beresford (57432) in Clay county, SD
(GPS: N 43°02.776' W 096°54.068')

Cooperator: SDSU Southeast Research Farm - Peter Sexton, manager

Soil Type: Egan-Clarno-Trent silty clay loam, 0-2% slope, non-irrigated

Fertilizer: 0-78-90 preplant incorporated

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Roundup Power Max (glyphosate) + Dual (metolachlor) + Metribuzen
(metribuzen) + Sharpen (saflufenacil)
Post: Roundup Power Max (glyphosate) + Select Max (clethodim)

Insecticide: None

Date seeded: 5/19/2015

Date harvested: 10/13/2015

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Table 1. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 1 at Beresford, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Thunder Seed	3619N R2Y	1.9	76.7	8.3	2.5
Channel	1808R2	1.8	73.7	8.3	2.8
Rend Seed	RS195NR2	1.9	73.4	8.2	1.5
Thunder Seed	3614N R2Y	1.4	72.9	8.2	2.8
Credenz	CZ 1787 RY	1.7	71.6	8.1	2.8
Check	Check	1.4	70.0	8.3	3.0
Thunder Seed	3511N R2Y	1.1	69.9	8.4	4.0
Thunder Seed	3617 R2Y	1.7	68.6	8.2	1.8
Thunder Seed	3114 R2Y	1.4	68.6	8.0	3.0
Sodak Genetics	SD2172R2Y	1.7	68.1	7.9	3.3
Sodak Genetics	SD2101R2Y	1.0	64.7	8.3	1.8
Sodak Genetics	SD2173R2Y	1.7	63.5	8.2	2.0
Trial Average			70.1	8.2	2.6
LSD (0.05)†			2.7	0.2	0.7
C.V.‡			2.7	1.6	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 2 at Beresford, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Dairyland Seed	DSR-2616/R2Y	2.6	75.9	8.0	2.3
Channel	2108R2	2.1	75.1	8.0	3.5
Pioneer	P31T11R	3.1	74.7	8.3	2.5
Channel	2808R2	2.8	74.2	8.3	2.3
Nutech/G2 Genetics	7273	2.7	74.0	8.2	2.0
Pioneer	P28T08R	2.8	73.9	7.6	2.0
Rea Hybrids	R2016	2.0	73.8	8.1	3.8
Stine	24RE03	2.4	73.6	8.3	3.0
Titan Pro	22M12	2.2	73.4	7.9	2.8
Nutech/G2 Genetics	7250	2.5	73.4	8.1	2.5
Prairie Brand	PB-2188R2	2.1	72.8	8.0	3.3
Great Lakes Hybrids	2551NR2	2.5	72.6	8.1	2.8
Rea Hybrids	R2115	2.1	72.5	8.2	3.8
Rea Hybrids	R2815	2.8	72.4	8.6	2.8
Dairyland Seed	DSR-2110/R2Y	2.1	72.1	8.2	3.3
Wensman	W3200NR2	2.0	71.8	8.1	2.3
Rea Hybrids	R2615	2.6	71.8	8.0	2.8
Channel	2908R2	2.9	71.7	8.3	3.8
Prairie Brand	PB-2600R2	2.6	71.7	8.0	2.0
Prairie Brand	PB-2556R2	2.5	71.4	8.1	3.0
Great Lakes Hybrids	2469R2	2.4	71.3	8.0	3.3
Credenz	CZ 2474 RY	2.4	71.2	8.3	2.8
Prairie Brand	PB-2876R2	2.8	70.9	8.3	2.3
Stine	24RH62	2.4	70.9	8.3	2.3
Rea Hybrids	R2316	2.3	70.9	8.0	2.8
Wensman	W3201NR2	2.0	70.8	8.1	3.0
Wensman	W3226NR2	2.2	70.7	8.0	3.3
Prairie Brand	PB-2419RR2	2.3	70.7	8.1	2.8
Prairie Brand	X15263R2	2.6	70.3	8.1	3.0
Channel	2607R2	2.6	70.3	7.9	3.0
Trial Average			70.5	8.1	2.9
LSD (0.05)†			3.4	0.3	0.7
C.V.‡			3.5	2.7	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Group 2 at Beresford, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Channel	2408R2	2.1	70.2	8.1	2.8
Credenz	CZ 2788 RY	2.7	70.2	8.6	2.3
Renk Seed	RS246NR2	2.4	70.1	8.2	2.5
Prairie Brand	PB-2156R2	2.1	69.9	7.9	3.8
Channel	2609R2	2.6	69.7	8.1	4.0
Wensman	W3254NR2	2.5	69.7	8.1	2.5
Stine	29RE22	2.9	69.6	8.4	2.3
Check	Check	1.4	69.4	7.8	4.0
Prairie Brand	PB-2024R2	2.1	69.3	8.1	2.5
Titan Pro	TP-23R04	2.3	69.0	7.9	3.0
Titan Pro	TP-21R55	2.1	69.0	8.0	3.5
Channel	2009R2	2.0	68.9	8.0	3.8
Prairie Brand	PB-2296R2	2.2	68.5	8.1	3.3
Prairie Brand	PB-2486R2	2.4	68.1	8.2	2.3
Channel	2309R2	2.3	68.0	8.0	3.0
Dairyland Seed	DSR-2330/R2Y	2.3	68.0	8.1	2.5
Wensman	W3275NR2	2.7	68.0	8.4	3.8
Wensman	W3228NR2	2.2	67.8	7.7	3.0
Renk Seed	RS213NR2	2.1	67.7	8.1	3.0
Great Lakes Hybrids	2789R2	2.7	67.5	8.1	3.8
Renk Seed	RS216NR2	2.1	66.9	7.8	4.3
Nutech/G2 Genetics	7240	2.4	66.5	8.3	2.3
Stine	28RF02	2.8	66.2	7.9	2.0
Pioneer	P24T93R	2.4	64.4	8.0	2.0
Great Lakes Hybrids	2959NR2	2.9	62.4	8.0	2.0
Trial Average			70.5	8.1	2.9
LSD (0.05)†			3.4	0.3	0.7
C.V.‡			3.5	2.7	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Jonathan Kleinjan | SDSU Crop Performance Testing Director
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location: 2 miles east and 3/4 mile north of Geddes (57432) in Charles Mix County, SD
(GPS: N 43°15.997' W 098°39.898')

Cooperator: Curtis Sybesma

Soil Type: Highmore-Eakin silt loam, 0-2% slope

Fertilizer: none

Previous crop: Corn

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 2, 4-D Ester, Flumioxazin (Gangster), & Metribuzin (Tricor DF)
Post: Glyphosate (Roundup Power Max) + Clethodim (Intensity)

Insecticide: None

Date seeded: 5/27/2015

Date harvested: 10/6/2015

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Table 1. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 1 at Geddes, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Sodak Genetics	SD2172R2Y	1.7	62.5	11.2	1.0
Check	Check	1.4	61.5	11.3	1.0
Thunder Seed	3619N R2Y	1.9	61.0	11.2	1.0
Credenz	CZ 1787 RY	1.7	60.6	11.3	1.0
Thunder Seed	3614N R2Y	1.4	60.3	11.4	1.0
Thunder Seed	3114 R2Y	1.4	59.9	11.3	1.0
Renk Seed	RS195NR2	1.9	59.7	11.2	1.0
Thunder Seed	3617 R2Y	1.7	57.6	11.2	1.0
Sodak Genetics	SD2101R2Y	1	57.2	11.2	1.0
Thunder Seed	3511N R2Y	1.1	55.5	11.5	1.5
Rea Hybrids	R1815	1.8	54.4	11.2	1.0
Channel	1808R2	11.8	51.6	11.4	1.3
Sodak Genetics	SD2173R2Y	1.7	47.9	11.4	1.0
Trial Average			57.7	11.3	1.0
LSD (0.05)†			3.4	0.2	0.3
C.V.‡			4.2	1.3	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 2 at Geddes, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Prairie Brand	PB-2296R2	2.2	60.6	10.4	1.0
Prairie Brand	PB-2188R2	2.1	60.5	10.5	1.0
Renk Seed	RS213NR2	2.1	60.2	10.5	1.0
Channel	2607R2	2.6	60.0	10.4	1.3
Rea Hybrids	R2316	2.3	60.0	10.6	1.3
Wensman	W3228NR2	2.2	59.7	10.5	1.0
Prairie Brand	PB-2419RR2	2.4	59.6	10.5	1.0
Dairyland Seed	DSR-2110/R2Y	2.1	59.4	10.8	1.0
Prairie Brand	PB-2486R2	2.4	59.3	10.9	1.0
Titan Pro	22M12	2.2	59.3	10.8	1.0
Renk Seed	RS246NR2	2.4	58.9	10.5	1.0
Channel	2908R2	2.9	58.8	11.1	1.3
Check	Check	1.4	58.8	10.4	1.0
Dairyland Seed	DSR-2616/R2Y	2.6	58.7	10.8	1.0
Prairie Brand	PB-2024R2	2.1	58.6	10.5	1.0
Channel	2408R2	2.4	58.5	10.3	1.0
Great Lakes Hybrids	2551NR2	2.5	58.4	10.7	1.0
Titan Pro	TP-23R04	2.3	58.4	10.6	1.0
Channel	2108R2	2.1	57.8	10.4	1.3
Pioneer	P20T79R2	2	57.5	10.5	1.0
Pioneer	P28T08R	2.8	57.5	10.8	1.0
Prairie Brand	PB-2600R2	2.6	57.5	10.6	1.0
Prairie Brand	PB-2876R2	2.8	57.4	11.0	1.0
Nutech/G2 Genetics	7273	2.7	57.4	10.7	1.0
Rea Hybrids	R2115	2.1	57.3	10.5	1.3
Nutech/G2 Genetics	7250	2.5	57.3	10.4	1.0
Prairie Brand	PB-2156R2	2.1	57.1	10.4	1.3
Wensman	W3275NR2	2.7	57.1	10.8	1.5
Pioneer	P24T93R	2.4	57.1	10.3	1.0
Wensman	W3254NR2	2.5	56.9	10.5	1.0
Trial Average			57.2	10.6	1.1
LSD (0.05)†			3.4	0.6	0.3
C.V.‡			4.3	4.1	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Group 2 at Geddes, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Channel	2009R2	2	56.8	10.7	1.0
Titan Pro	TP-21R55	2.1	56.8	10.6	1.0
Dairyland Seed	DSR-2330/R2Y	2.3	56.7	10.6	1.0
Wensman	W3226NR2	2.2	56.5	10.5	1.0
Renk Seed	RS216NR2	2.1	56.4	10.4	1.0
Prairie Brand	PB-2556R2	2.5	56.0	10.7	1.0
Wensman	W3214NR2	2.1	55.8	10.5	1.3
Great Lakes Hybrids	2469R2	2.4	55.8	10.4	1.0
Channel	2309R2	2.3	55.6	10.5	1.0
Wensman	W3201NR2	2	55.4	10.4	1.0
Great Lakes Hybrids	2789R2	2.7	55.3	10.6	1.5
Credenz	CZ 2474 RY	2.4	55.0	10.9	1.0
Credenz	CZ 2788 RY	2.7	54.8	11.5	1.0
Channel	2808R2	2.8	54.7	11.7	1.0
Prairie Brand	X15263R2	2.6	54.4	11.0	1.0
Great Lakes Hybrids	2959NR2	2.9	54.2	11.9	1.0
Rea Hybrids	R2016	2	54.0	10.4	1.0
Channel	2609R2	2.6	53.9	10.6	1.3
Nutech/G2 Genetics	7240	2.4	50.1	10.5	1.0
Trial Average			57.2	10.6	1.1
LSD (0.05)†			3.4	0.6	0.3
C.V.‡			4.3	4.1	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Jonathan Kleinjan | SDSU Crop Performance Testing Director
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location: 7 1/2 miles south and 2 miles east of Wessington (57381) in Beadle County
(GPS: N 44°20.766' W 098°39.548')

Cooperator: Paul Fulton

Soil Type: Houdek-Prosper loams, 0-2% slopes

Fertilizer: 11-52-0 preplant

Previous crop: Corn

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: RT3 (glyphosate) + Authority Assist (sulfentrazone) + LV6 (2,4-D)
Post: Roundup Weather Max (glyphosate)

Insecticide: None

Date seeded: 5/26/2015

Date harvested: 10/14/2015

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Table 1a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Groups 0 & 1 at Miller, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Thunder Seed	3619N R2Y	1.9	59.8	7.5	1.0
Federal Hybrids	F165RR2Y	1.3	59.1	7.5	1.0
NK Brand	S13-H5	1.3	58.8	7.6	1.0
Prairie Brand	PB-1611R2	1.6	58.6	7.7	1.0
Pioneer	P18T26R2	1.8	58.3	7.5	1.0
Prairie Brand	X15143R2	1.3	58.2	7.4	1.0
Rea Hybrids	R1716	1.7	58.2	7.5	1.0
Thunder Seed	3114 R2Y	1.4	58.1	7.6	1.0
Thunder Seed	3614N R2Y	1.4	57.9	7.8	1.0
Wensman	W3143NR2	1.4	57.9	7.8	1.0
Wensman	W3140R2	1.5	57.8	7.6	1.0
Thunder Seed	3609N R2Y	0.9	57.5	8.3	1.0
Federal Hybrids	F154NRR2Y	1.5	57.4	7.5	1.0
Wensman	W3195NR2	1.9	57.4	7.7	1.0
Thunder Seed	3617 R2Y	1.7	57.3	7.5	1.0
Federal Hybrids	F195NRR2Y	1.9	57.2	7.6	1.0
Thunder Seed	3408N R2Y	0.8	56.8	8.3	1.0
Prairie Brand	X15175R2	1.7	56.8	7.5	1.0
Dairyland Seed	DSR-1515/R2Y	1.5	56.7	7.7	1.0
Credenz	CZ 1787 RY	1.7	56.6	7.7	1.0
Nutech/G2 Genetics	7172R2	1.7	56.4	7.5	1.0
NK Brand	S15-P1	1.5	56.3	8.1	1.0
NK Brand	S12-H2	1.2	56.3	7.6	1.0
Wensman	W3160NR2	1.6	56.1	7.4	1.0
Sodak Genetics	SD2061R2Y	0.6	56.1	7.8	1.0
NK Brand	S14-J7	1.4	56.0	7.5	1.0
Prairie Brand	PB-1822R2	1.8	55.9	7.7	1.0
Prairie Brand	PB-1947R2	1.9	55.9	7.8	1.0
Rea Hybrids	R1515	1.5	55.5	7.6	1.0
Rea Hybrids	R1815	1.8	55.4	7.3	1.0
Trial Average			55.3	7.7	1.0
LSD (0.05)†			2.6	0.4	0.0
C.V.‡			3.4	3.8	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Groups 0 & 1 at Miller, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Check	Check	1.4	55.2	7.6	1.0
Channel	1808R2	1.8	55.1	7.3	1.0
Renk Seed	RS195NR2	1.9	54.9	7.6	1.0
Federal Hybrids	F145NRR2Y	1.4	54.6	7.7	1.0
Federal Hybrids	F124NRR2Y	1.2	54.5	7.5	1.0
Federal Hybrids	F185NRR2Y	1.8	54.5	7.6	1.0
Nutech/G2 Genetics	7169	1.6	54.4	7.7	1.0
Titan Pro	15M22	1.5	54.3	8.0	1.0
Dairyland Seed	DSR-1721/R2Y	1.7	53.8	7.8	1.0
Prairie Brand	PB-1466R2	1.4	53.7	7.5	1.0
Titan Pro	TP-18R24	1.8	53.7	7.6	1.0
Credenz	CZ 767 RY	0.7	53.5	7.8	1.0
Channel	1508R2	1.5	53.4	7.5	1.0
Thunder Seed	3511N R2Y	1.1	53.1	7.6	1.0
Sodak Genetics	SD2092R2Y	0.9	53.0	8.0	1.0
NK Brand	S11-C8	1.1	52.7	7.8	1.0
Sodak Genetics	SD2173R2Y	1.7	52.3	7.7	1.0
Federal Hybrids	F106NRR2Y	1.0	52.0	7.7	1.0
Wensman	W3170NR2	1.7	51.7	7.8	1.0
Prairie Brand	PB-1586R2	1.5	51.2	7.6	1.0
Sodak Genetics	SD2172R2Y	1.7	51.1	7.5	1.0
Sodak Genetics	SD2101R2Y	1.0	50.6	7.9	1.0
Prairie Brand	PB-1956R2	1.9	50.3	7.6	1.0
Renk Seed	RS175NR2	1.7	50.0	7.8	1.0
Dairyland Seed	DSR-1990/R2Y	1.7	48.9	7.8	1.0
Trial Average			55.3	7.7	1.0
LSD (0.05)†			2.6	0.4	0.0
C.V.‡			3.4	3.8	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 2 at Miller, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Nutech/G2 Genetics	7250	2.5	58.8	7.9	1.0
Pioneer	P24T93R	2.4	58.6	7.4	1.0
Prairie Brand	PB-2600R2	2.6	57.9	8.1	1.0
Prairie Brand	PB-2419RR2	2.3	57.5	7.5	1.0
Prairie Brand	PB-2230R2	2.1	56.6	7.4	1.0
Nutech/G2 Genetics	7240	2.4	56.3	8.1	1.0
Dairyland Seed	DSR-2110/R2Y	2.1	56.2	7.5	1.0
Credenz	CZ 2788 RY	2.7	55.7	8.4	1.0
Nutech/G2 Genetics	7204R2	2.0	55.5	7.5	1.0
Rea Hybrids	R2016	2.0	55.4	7.3	1.0
Prairie Brand	PB-2156R2	2.1	55.3	7.7	1.0
Channel	2009R2	2.0	54.5	7.7	1.0
Check	Check	1.4	54.5	7.4	1.0
Nutech/G2 Genetics	7217R2	2.1	53.7	7.7	1.0
Titan Pro	20M1	2.0	53.7	7.3	1.0
Channel	2408R2	2.4	53.6	7.5	1.0
Prairie Brand	PB-2024R2	2.1	53.3	7.4	1.0
Credenz	CZ 2474 RY	2.4	53.2	7.8	1.0
Prairie Brand	PB-2296R2	2.2	53.0	7.6	1.0
Wensman	W3200NR2	2.0	52.9	7.4	1.0
Federal Hybrids	F205NRR2Y	2.0	52.6	7.3	1.0
Channel	2309R2	2.3	51.8	7.5	1.0
Prairie Brand	PB-2188R2	2.1	51.7	7.6	1.0
Wensman	W3201NR2	2.0	51.7	7.4	1.0
Rea Hybrids	R2316	2.3	51.3	7.5	1.0
Titan Pro	TP-20R25	2.0	51.0	7.3	1.0
Pioneer	P20T79R2	2.0	50.5	7.4	1.0
Titan Pro	TP-20R44	2.0	50.2	7.4	1.0
Rea Hybrids	R2115	2.1	49.5	7.5	1.0
Channel	2108R2	2.1	48.7	7.4	1.0
Trial Average			53.8	7.5	1.0
LSD (0.05)†			2.5	0.4	0.0
C.V.‡			3.3	3.3	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Jonathan Kleinjan | SDSU Crop Performance Testing Director
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location: 8.5 miles west of South Shore (57263) in Codington County, SD
(GPS: N 45°06.368' W 097°06.120')

Cooperator: SDSU Northeast Research Farm - Allen Heuer, manager

Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slope

Fertilizer: 0-100-0 preplant incorporated

Previous crop: Spring Wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Dual II
Post: Glyphosate (Roundup Ultramax)

Date seeded: 5/28/2015

Date harvested: 9/29/2015

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Table 1. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 0 at South Shore, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Dairyland Seed	DSR-0711/R2Y	0.7	54.9	9.2	2.5
Nutech/G2 Genetics	6097R2	0.9	54.3	8.9	2.0
Legend Seeds	LS 06R665N	0.6	54.1	9.0	2.3
Prairie Brand	X15093R2	0.9	53.4	9.1	2.0
Legend Seeds	LS 09R606N	0.9	53.3	9.1	2.5
Thunder Seed	3609N R2Y	0.9	52.8	9.2	2.0
Proseed	PX509 N	0.9	52.5	9.0	2.0
Wensman	W3072NR2	0.7	52.4	9.1	2.0
Legend Seeds	LS 06R565N	0.6	52.1	9.1	2.0
Prairie Brand	PB-0777R2	0.7	51.6	9.1	2.0
Dairyland Seed	DSR-0904/R2Y	0.9	51.5	8.9	2.0
Prairie Brand	PB-0966R2	0.9	51.5	9.2	2.0
Thunder Seed	3408N R2Y	0.8	51.4	9.1	2.3
Check	Check	1.4	51.3	9.1	2.0
Federal Hybrids	F084NRR2Y	0.8	51.1	9.1	1.5
Prairie Brand	PB-0863R2	0.8	51.0	9.0	2.0
Legend Seeds	LS 08R22N	0.8	50.5	8.9	1.8
Peterson Farms Seed	16R09N	0.9	50.4	9.1	2.5
Stine	07RF33	0.7	50.4	9.1	2.0
Prairie Brand	PB-1234R2	0.9	50.4	9.1	2.0
Federal Hybrids	F066NRR2Y	0.6	50.3	9.0	1.5
Channel	0709R2	0.7	50.2	8.9	2.0
Rea Hybrids	69G14	0.9	50.0	9.1	2.0
Sodak Genetics	SD2061R2Y	0.6	49.8	8.9	2.5
Legacy Seeds	LS-0935N	0.9	49.8	9.2	2.3
Pioneer	P09T74R2	0.9	49.0	8.9	2.3
Wensman	W3090NR2	0.9	48.5	8.9	1.8
Sodak Genetics	SD2091R2Y	0.9	48.0	9.0	2.3
Legacy Seeds	LS-0833N	0.8	47.9	9.0	2.0
Sodak Genetics	SD2092R2Y	0.9	47.6	9.1	2.0
Credenz	CZ 767 RY	0.7	47.5	8.9	2.8
Trial Average			51.0	9.0	2.1
LSD (0.05)†			2.8	0.2	0.6
C.V.‡			3.8	1.2	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 1 at South Shore, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Channel	1405R2	1.4	54.0	9.2	2.0
Prairie Brand	X15143R2	1.3	53.6	9.2	2.0
Proseed	31-10N	1.1	53.2	9.2	2.0
Prairie Brand	PB-1586R2	1.5	52.7	9.5	2.0
Legend Seeds	LS 10R551N	1.0	52.0	9.1	2.0
Check	Check	1.4	51.8	9.1	2.0
Prairie Brand	PB-1947R2	1.9	51.5	10.7	2.0
Peterson Farms Seed	16R10	1.0	51.5	9.4	1.5
Thunder Seed	3619N R2Y	1.9	51.4	9.8	1.8
Pioneer	P15T46R2	1.5	51.3	9.3	2.0
Proseed	41-10 N	1.1	51.2	9.4	2.3
Thunder Seed	3614N R2Y	1.4	51.2	9.4	1.8
Prairie Brand	PB-1822R2	1.8	51.1	9.6	2.0
Thunder Seed	3114 R2Y	1.4	51.1	9.1	2.0
Legacy Seeds	LS-1335N	1.3	51.1	9.2	2.0
NK Brand	S11-C8	1.1	51.0	9.2	1.8
Renk Seed	RS145NR2	1.4	51.0	9.2	2.0
Legend Seeds	LS 13R556N	1.3	50.9	9.2	1.8
Rea Hybrids	R1716	1.7	50.9	9.4	2.0
Peterson Farms Seed	15R14N	1.4	50.8	9.1	1.8
Dairyland Seed	DSR-1340/R2Y	1.3	50.8	9.3	2.0
Proseed	41-30 N	1.3	50.7	9.2	2.0
Wensman	W3143NR2	1.4	50.6	9.4	2.0
Federal Hybrids	F145NRR2Y	1.4	50.6	9.7	2.0
Wensman	W3121NR2	1.2	50.5	9.2	1.8
Federal Hybrids	F106NRR2Y	1.0	50.5	9.2	2.0
NK Brand	S10-P9	1.0	50.5	9.3	1.3
Legend Seeds	LS 12R24N	1.2	50.3	9.3	2.0
NK Brand	S13-H5	1.3	50.3	9.4	1.8
Wensman	W3128R2	1.2	50.1	9.3	1.5
Rea Hybrids	71G14	1.1	50.1	9.2	2.0
Sodak Genetics	SD2172R2Y	1.7	50.1	9.0	2.0
NK Brand	S12-H2	1.2	49.8	9.3	1.5
Trial Average			49.8	9.4	1.9
LSD (0.05)†			2.9	0.6	0.5
C.V.‡			4.2	4.4	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Group 1 at South Shore, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Titan Pro	15M22	1.5	49.8	9.5	2.0
NK Brand	S15-P1	1.5	49.8	9.4	1.8
Wensman	W3140R2	1.5	49.7	9.8	1.8
NK Brand	S14-J7	1.4	49.7	9.2	1.8
Wensman	W3160NR2	1.6	49.4	9.4	1.8
Nutech/G2 Genetics	7169	1.6	49.4	9.5	1.8
Prairie Brand	PB-1466R2	1.4	49.3	9.2	2.0
Dairyland Seed	DSR-1120/R2Y	1.1	49.3	8.8	1.8
Rea Hybrids	R1515	1.5	49.3	9.5	2.0
Prairie Brand	PB-1956R2	1.9	49.2	11.5	2.0
Thunder Seed	3511N R2Y	1.1	49.1	9.3	2.0
Sodak Genetics	SD2101R2Y	1.0	49.0	9.0	2.0
Prairie Brand	PB-1611R2	1.6	49.0	9.6	1.8
Credeuz	CZ 1787 RY	1.7	48.9	9.3	2.0
Channel	1808R2	1.8	48.8	10.3	2.0
Dairyland Seed	DSR-1515/R2Y	1.5	48.6	9.1	2.0
Nutech/G2 Genetics	7138	1.3	48.5	9.7	1.8
Federal Hybrids	F124NRR2Y	1.2	48.4	9.1	2.0
Thunder Seed	3617 R2Y	1.7	48.4	9.5	1.3
Pioneer	P16T17R2	1.6	48.3	9.3	2.0
Renk Seed	RS175NR2	1.7	48.2	10.4	2.0
Legacy Seeds	LS-1134N	1.1	48.1	9.2	2.0
Prairie Brand	PB-1794R2	1.7	47.9	10.1	1.8
Peterson Farms Seed	14R11N	1.1	47.9	9.4	2.0
Peterson Farms Seed	14R13	1.3	47.8	9.5	1.8
Wensman	W3100NR2	1.0	47.6	9.4	2.0
Stine	10RD03	1.0	47.5	9.0	1.8
Prairie Brand	X15175R2	1.7	47.3	9.3	2.0
Channel	1108R2	1.1	47.2	9.4	2.0
Proseed	P230-18	1.9	47.0	9.8	1.3
Renk Seed	RS166NR2	1.6	46.6	9.8	1.5
Channel	1508R2	1.5	46.4	9.7	2.0
Sodak Genetics	SD2173R2Y	1.7	44.3	9.5	1.8
Trial Average			49.8	9.4	1.9
LSD (0.05)†			2.9	0.6	0.5
C.V.‡			4.2	4.4	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Jonathan Kleinjan | SDSU Crop Performance Testing Director
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location: 1.5 miles south of Volga in Brookings County, SD
(GPS: N 44°18.152' W 096°55.138')

Cooperator: SDSU Volga Research Farm - Jack Ingemansen, manager

Soil Type: Brandt silty clay loam, 0-2% slope

Fertilizer: none

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Metolachlor (Dual II Magnum)
Post: Glyphosate (Roundup Power Max)

Insecticide: None

Date seeded: 5/20/2015

Date harvested: 9/30/2015 (Group 0&1), 10/7/2015 (Group 2)

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Table 1. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 0 at Volga, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Thunder Seed	3408N R2Y	0.8	58.7	10.1	2.5
Check	Check	1.4	58.3	9.8	2.0
Proseed	PX509 N	0.9	57.9	10.1	2.5
Peterson Farms Seed	16R09N	0.9	57.8	10.0	2.3
Thunder Seed	3609N R2Y	0.9	57.1	9.9	2.3
Credenz	CZ 767 RY	0.7	56.1	9.7	2.5
Sodak Genetics	SD2092R2Y	0.9	53.3	9.7	2.5
Sodak Genetics	SD2061R2Y	0.6	51.3	9.8	2.5
Trial Average			56.3	9.9	2.4
LSD (0.05)†			3.1	0.4	0.7
C.V.‡			3.8	2.5	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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Table 2a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 1 at Volga, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Credenz	CZ 1787 RY	1.7	60.2	9.8	2.3
Great Lakes Hybrids	1953NR2	1.9	60.1	10.0	2.0
Wensman	W3195NR2	1.9	59.9	11.5	2.5
Wensman	W3170NR2	1.7	59.6	10.0	2.5
Thunder Seed	3619N R2Y	1.9	59.5	9.9	2.3
Prairie Brand	PB-1956R2	1.9	59.1	12.1	2.3
Legend Seeds	LS 14R22N	1.4	59.0	9.7	2.3
Legend Seeds	LS 13R556N	1.3	58.4	9.6	2.0
Stine	19RF32	1.9	58.2	10.1	2.3
Prairie Brand	PB-1822R2	1.8	58.0	10.2	2.5
NK Brand	S19-B2	1.9	57.9	10.4	2.0
Legend Seeds	LS 17R500N	1.7	57.7	9.9	2.0
Federal Hybrids	F195NRR2Y	1.9	57.6	10.1	2.0
Wensman	W3140R2	1.5	57.4	9.6	2.0
Prairie Brand	PB-1586R2	1.5	57.1	9.6	2.0
Proseed	P230-18	1.9	57.1	10.3	2.0
Titan Pro	15M22	1.5	57.0	9.5	2.0
Nutech/G2 Genetics	7169	1.6	56.9	9.9	2.0
Wensman	W3160NR2	1.6	56.9	9.5	2.3
Peterson Farms Seed	15R14N	1.4	56.8	9.4	2.3
Prairie Brand	PB-1947R2	1.9	56.6	10.1	2.0
Stine	18RH02	1.8	56.5	14.5	2.8
Titan Pro	TP-18R24	1.8	56.5	10.2	2.8
Proseed	41-10 N	1.1	56.4	9.8	3.0
Sodak Genetics	SD2172R2Y	1.7	56.4	9.5	2.0
Rea Hybrids	R1716	1.7	56.3	9.7	2.3
NK Brand	S15-P1	1.5	56.3	9.7	2.0
Pioneer	P19T78R	1.9	56.2	9.9	2.3
Prairie Brand	PB-1466R2	1.4	56.2	9.6	2.3
Dairyland Seed	DSR-1721/R2Y	1.7	56.1	10.1	2.0
Trial Average			56.0	9.9	2.2
LSD (0.05)†			2.6	0.5	0.6
C.V.‡			3.4	3.8	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Group 1 at Volga, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Thunder Seed	3114 R2Y	1.4	56.1	9.8	2.3
Renk Seed	RS195NR2	1.9	56.1	10.1	2.3
Federal Hybrids	F185NRR2Y	1.8	55.9	10.2	2.0
Thunder Seed	3511N R2Y	1.1	55.7	9.7	3.3
Channel	1808R2	1.8	55.7	10.5	2.5
Stine	14RD62	1.5	55.6	9.6	2.3
Thunder Seed	3614N R2Y	1.4	55.5	9.4	2.3
Nutech/G2 Genetics	7172R2	1.7	55.3	9.6	2.3
Dairyland Seed	DSR-1990/R2Y	1.9	55.1	10.3	2.5
Proseed	41-30 N	1.3	55.1	9.6	2.0
Prairie Brand	PB-1611R2	1.6	55.0	9.5	2.3
Prairie Brand	X15175R2	1.7	54.8	9.7	2.3
Check	Check	1.4	54.7	9.4	2.0
Dairyland Seed	DSR-1515/R2Y	1.5	54.7	9.4	2.0
Legend Seeds	LS 17R645N	1.7	54.7	9.6	2.3
Stine	14RF06	1.4	54.7	9.6	2.3
Prairie Brand	X15143R2	1.3	54.5	9.4	2.0
Wensman	W3143NR2	1.4	54.3	9.3	2.0
Renk Seed	RS175NR2	1.7	54.3	10.2	2.3
Peterson Farms Seed	16R10	1.0	53.7	9.7	2.8
Proseed	31-10N	1.1	53.7	9.4	2.0
Thunder Seed	3617R2Y	1.7	53.3	9.7	2.0
Rea Hybrids	R1515	1.5	53.1	9.6	2.0
Peterson Farms Seed	14R13	1.3	52.2	9.6	2.3
Channel	1508R2	1.5	51.8	9.7	2.5
Sodak Genetics	SD2101R2Y	1.0	51.5	9.4	2.3
Peterson Farms Seed	14R11N	1.1	50.8	9.7	2.5
Sodak Genetics	SD2173R2Y	1.7	50.5	9.7	2.0
Trial Average			56.0	9.9	2.2
LSD (0.05)†			2.6	0.5	0.6
C.V.‡			3.4	3.8	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 3a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 2 at Volga, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
NK Brand	S20-T6	2.0	64.9	10.4	2.0
Prairie Brand	PB-2296R2	2.2	62.8	12.3	3.0
Great Lakes Hybrids	2551NR2	2.5	62.7	10.8	2.0
NUTECH/G2 Genetics	7250	2.5	62.7	10.6	2.0
Prairie Brand	PB-2230R2	2.1	62.3	10.6	2.3
Wensman	W3200NR2	2.0	61.4	10.4	2.0
Great Lakes Hybrids	2258NR2	2.2	61.3	11.1	2.3
NUTECH/G2 Genetics	7204R2	2.0	61.3	11.1	2.5
NK Brand	S21-M7	2.1	61.0	10.4	2.3
Prairie Brand	PB-2419RR2	2.4	60.7	13.5	2.5
Prairie Brand	PB-2600R2	2.6	60.3	12.9	2.0
Rea Hybrids	R2016	2.0	60.3	11.2	2.8
Legend Seeds	LS 20R663N	2.0	60.3	9.9	2.0
Wensman	W3201NR2	2.0	60.3	10.7	2.0
Channel	2408R2	2.4	60.2	16.7	2.8
Channel	2108R2	2.1	60.2	10.6	2.5
Legend Seeds	LS 20R524N	2.0	59.9	10.6	2.3
Great Lakes Hybrids	2469R2	2.4	59.8	10.7	2.0
Dairyland Seed	DSR-2110/R2Y	2.1	59.6	10.9	2.3
Channel	2009R2	2.0	59.6	11.5	2.5
Federal Hybrids	F205NRR2Y	2.0	59.3	10.7	2.3
Pioneer	P24T93R	2.4	59.2	11.5	2.3
Prairie Brand	PB-2188R2	2.1	59.1	12.1	2.8
NUTECH/G2 Genetics	7217R2	2.1	59.0	11.0	2.0
Channel	2309R2	2.3	59.0	10.9	2.5
Prairie Brand	PB-2024R2	2.1	59.0	10.4	2.3
Rea Hybrids	R2316	2.3	58.9	11.0	2.5
Pioneer	P20T79R2	2.0	58.6	10.8	2.3
Prairie Brand	PB-2156R2	2.1	58.4	11.1	2.5
Check	Check	1.4	58.1	10.5	2.3
Trial Average			59.2	12.0	2.4
LSD (0.05)†			2.6	0.8	0.7
C.V.‡			3.2	4.6	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 3b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Group 2 at Volga, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Titan Pro	TP-20R25	2.0	58.1	10.7	2.3
NUTECH/G2 Genetics	7240	2.4	57.6	11.7	2.3
Credenz	CZ 2474 RY	2.4	57.4	11.4	2.3
Federal Hybrids	F226NRR2Y	2.2	57.2	11.2	2.5
Titan Pro	TP-20R44	2.0	56.8	10.4	2.5
Titan Pro	20M1	2.0	55.3	10.8	2.3
Credenz	CZ 2788 RY	2.7	40.4	40.3	3.8
Trial Average			59.2	12.0	2.4
LSD (0.05)†			2.6	0.8	0.7
C.V.‡			3.2	4.6	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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Jonathan Kleinjan | SDSU Crop Performance Testing Director
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Beresford

Location: 6 miles west and 3 miles south of Beresford (57432) in Clay county, SD
(GPS: N 43°02.776' W 096°54.068')

Cooperator: SDSU Southeast Research Farm - Peter Sexton, manager

Soil Type: Egan-Clarno-Trent silty clay loam, 0-2% slope, non-irrigated

Fertilizer: 0-78-90 preplant incorporated

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Roundup Power Max (glyphosate) + Dual (metolachlor) + Metribuzen (metribuzen) + Sharpen (saflufenacil)
Post: Flexstar (fomesafen) + FirstRate (cloransulam) + Select (clethodim)

Insecticide: None

Date seeded: 5/19/2015

Date harvested: 10/13/2015

Table 1. Conventional soybean variety performance results (average of 4 replications sorted by yield) - Maturity Groups 1 & 2 at Beresford, SD).

Variety Information			Agronomic Performance				
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Protein %	Oil %	Lodging Score (1-5)*
Check	Check	1.4	68.8	7.6	33.1	19.6	2.3
Royal	EXP-RS1601	1.9	66.4	7.6	33.6	18.5	2.3
SD AES	Davison	2.2	65.5	8.1	33.4	18.5	2.5
Royal	EXP-RS2101	1.9	63.6	7.7	34.2	18.6	2.0
SD AES	Brookings	1.7	60.4	7.8	32.9	19.7	3.0
Richland IFC	MK41	1.4	56.8	7.9	34.4	18.3	1.3
Richland IFC	MK9101	1.1	54.3	7.9	34.7	20.9	2.3
Richland IFC	MK1016	1.0	44.7	7.8	35.8	16.7	4.3
Trial Average			60.1	7.8	34.0	18.8	2.5
LSD (0.05)†			4.2	0.2	1.2	1.5	0.9
C.V.‡			4.7	1.8	2.3	5.3	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Volga

Location: 1.5 mile south of Volga (57101) in Brookings County, SD
(GPS: N 44°18.152' W 096°55.138')

Cooperator: SDSU Volga Research Farm - Jack Ingemansen, manager

Soil Type: Brandt silty clay loam, 0-2% slope

Fertilizer: none

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Metolachlor (Dual II Magnum)
Post: None (cultivation and hand weeding)

Insecticide: None

Date seeded: 5/20/2015

Date harvested: 9/30/2015 (Group 0&1), 10/7/2015 (Group 2)

Table 2. Conventional soybean variety performance results (average of 4 replications sorted by yield) - Maturity Groups 0, 1, & 2 at Volga, SD).

Variety Information			Agronomic Performance				
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Protein %	Oil %	Lodging Score (1-5)*
SD AES	Davison	2.2	57.5	10.9	35.3	17.8	1.8
Check	Check	1.4	55.1	9.3	33.8	18.7	1.5
SD AES	Brookings	1.7	54.6	9.9	34.0	18.1	2.0
Royhal	EXP-RS1601	1.9	52.6	10.0	35.7	18.0	2.0
Royhal	EXP-RS2101	1.9	51.3	11.4	36.4	18.4	2.0
SD AES	Roberts	0.6	51.1	9.1	34.4	18.2	2.3
SD AES	Codington	0.9	49.1	9.6	35.3	18.2	2.0
Richland IFC	MK41	1.4	48.8	9.5	35.6	17.1	1.3
Richland IFC	MK42	0.7	47.3	9.4	39.0	16.3	3.5
Richland IFC	MK1016	1.0	45.9	9.4	36.6	15.4	2.5
Richland IFC	EXP603	0.7	44.7	9.4	37.5	14.3	3.8
Richland IFC	MK9101	1.1	43.1	10.1	35.0	21.0	2.0
Richland IFC	MK0508	0.8	41.2	9.5	35.6	14.7	3.5
Trial Average			49.4	9.8	35.7	17.4	2.3
LSD (0.05)†			2.7	0.3	0.9	0.9	0.6
C.V.‡			3.7	2.4	1.8	3.4	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

§ Liberty Link variety

South Shore

Location: 8.5 miles west of South Shore (57263) in Codington County, SD
(GPS: N 45°06.368' W 097°06.120')

Cooperator: SDSU Northeast Research Farm - Allen Heuer, manager

Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slope

Fertilizer: 0-100-0 preplant incorporated

Previous crop: Spring Wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Dual II
Post: Select (clethodim) + Harmony SG (thifensulfuron)

Insecticide: None

Date seeded: 5/28/2015

Date harvested: 9/29/2015

Table 3. Conventional soybean variety performance results (average of 4 replications sorted by yield) - Maturity Groups 0 & 1 at South Shore, SD).

Variety Information			Agronomic Performance				
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Protein %	Oil %	Lodging Score (1-5)*
Check	Check	1.4	48.1	10.3	34.9	18.3	2.0
Royal	EXP-RS1601	1.9	44.7	12.2	37.8	17.5	2.0
Royal	EXP-RS2101	1.9	43.3	14.5	38.4	18.6	2.0
SD AES	Roberts	0.6	42.1	9.1	33.8	18.4	2.0
SD AES	Brookings	1.7	42.0	11.2	36.1	17.5	2.0
SD AES	Codington	0.9	40.9	9.8	35.1	18.2	1.8
Richland IFC	EXP603	0.7	36.5	9.7	37.8	14.6	2.5
Richland IFC	MK9101	1.1	35.7	11.6	35.0	20.3	2.0
Richland IFC	MK42	0.7	35.3	9.3	38.5	15.8	2.3
Richland IFC	MK1016	1.0	31.7	9.8	38.8	15.2	2.0
Richland IFC	MK0508	0.8	30.8	9.4	36.0	14.7	2.3
Richland IFC	MK41	1.4	28.8	10.5	39.0	15.7	2.0
Trial Average			38.3	10.6	36.8	17.1	2.1
LSD (0.05)†			3.0	0.8	0.8	0.6	0.4
C.V.‡			5.6	5.4	1.5	2.5	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

§ Liberty Link variety

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Jonathan Kleinjan | SDSU Crop Performance Testing Director
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Beresford

Location: 6 miles west and 3 miles south of Beresford (57432) in Clay county, SD
(GPS: N 43°02.776' W 096°54.068')

Cooperator: SDSU Southeast Research Farm - Peter Sexton, manager

Soil Type: Egan-Clarno-Trent silty clay loam, 0-2% slope, non-irrigated

Fertilizer: 0-78-90 preplant incorporated

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Roundup Power Max (glyphosate) + Dual (metolachlor) + Metribuzen
(metribuzen) + Sharpen (saflufenacil)
Post: Flexstar (fomesafen) + FirstRate (cloransulam) + Select (clethodim)

Insecticide: None

Date seeded: 5/19/2015

Date harvested: 10/13/2015

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Table 1. Liberty Link soybean variety performance results (average of 4 replications sorted by yield) - Maturity Groups 1 & 2 at Beresford, SD).

Variety Information			Agronomic Performance				
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Protein %	Oil %	Lodging Score (1-5)*
Credenz	CZ 2810 LL	2.8	71.4	8.2	33.8	18.9	1.5
NuTech	3252L	2.5	70.3	7.9	33.2	19.0	2.0
Credenz	CZ 1332 LL	1.3	69.5	7.7	31.7	18.5	1.3
Credenz	CZ 2312 LL	2.3	68.8	7.8	33.6	18.3	1.8
Credenz	CZ 2915 LL	2.9	68.0	8.4	34.3	18.3	2.3
NuTech	3205L	2.0	67.7	7.8	32.3	19.0	1.0
Check	Check	1.4	67.4	7.6	33.1	19.0	2.3
Credenz	CZ 1623 LL	1.6	67.3	7.9	33.6	17.9	2.5
NuTech	3273L	2.7	67.1	8.2	34.3	18.3	2.0
Credenz	CZ 2510 LL	2.5	67.0	7.7	34.1	18.1	1.8
Thunder Seed	5615LLN	1.5	66.3	7.8	33.0	18.7	2.3
Credenz	CZ 1845 LL	1.8	64.3	7.6	31.6	18.3	1.8
NuTech	3243L	2.4	63.3	7.7	33.8	18.3	1.5
Thunder Seed	5411LLN	1.1	62.6	7.7	34.1	18.2	3.0
Trial Average			67.2	7.8	33.3	18.5	1.9
LSD (0.05)†			4.4	0.2	1.2	1.2	0.6
C.V.‡			4.7	1.7	2.6	4.6	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Volga

Location: 1.5 mile south of Volga (57101) in Brookings County, SD
(GPS: N 44°18.152' W 096°55.138')

Cooperator: SDSU Volga Research Farm - Jack Ingemansen, manager

Soil Type: Brandt silty clay loam, 0-2% slope

Fertilizer: none

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Metolachlor (Dual II Magnum)
Post: None (cultivation and hand weeding)

Insecticide: None

Date seeded: 5/20/2015

Date harvested: 9/30/2015 (Group 0&1), 10/7/2015 (Group 2)

Table 2. Liberty Link soybean variety performance results (average of 4 replications sorted by yield) - Maturity Groups 0 & 1 at Volga, SD).

Variety Information			Agronomic Performance				
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Protein %	Oil %	Lodging Score (1-5)*
Credenz	CZ 525 LL	0.5	61.7	9.2	35.0	19.5	2.0
Credenz	CZ 1332 LL	1.3	60.5	9.4	34.9	18.4	1.3
Credenz	CZ 1845 LL	1.8	59.2	9.9	33.1	19.6	1.8
Credenz	CZ 1623 LL	1.6	58.8	10.2	35.5	18.7	2.0
Check	Check	1.4	57.5	9.3	33.9	19.5	2.0
Credenz	CZ 848 LL	0.8	57.2	9.1	34.1	19.2	1.5
Thunder Seed	5411LLN	1.1	56.3	9.1	34.4	20.0	2.0
Thunder Seed	5615LLN	1.5	55.7	10.0	35.0	18.9	2.3
NuTech	3181L	1.8	55.1	9.9	35.5	18.7	2.0
Credenz	CZ 121 LL	0.1	48.7	9.1	33.4	19.3	2.0
Trial Average			57.1	9.5	34.5	19.2	1.9
LSD (0.05)†			2.4	0.4	0.5	0.3	0.4
C.V.‡			2.9	2.9	0.9	1.1	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

§ Liberty Link variety

Table 3. Liberty Link soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 2 at Volga, SD).

Variety Information			Agronomic Performance				
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Protein %	Oil %	Lodging Score (1-5)*
Credenz	CZ 2510 LL	2.5	64.9	12.2	36.4	19.5	1.8
Credenz	CZ 2312 LL	2.3	62.8	11.0	36.1	18.7	2.0
NuTech	3243L	2.4	62.3	11.9	36.4	19.0	2.0
NuTech	3252L	2.5	60.0	15.6	37.7	21.0	2.3
Check	Check	1.4	57.6	10.6	34.6	19.3	2.0
NuTech	3205L	2.0	57.4	11.2	34.2	19.4	2.0
Credenz	CZ 2915 LL	2.9	53.7	31.5	41.6	21.7	2.5
Trial Average			59.8	14.8	36.7	19.8	2.1
LSD (0.05)†			2.6	0.8	0.9	0.4	0.5
C.V.‡			3.0	3.8	1.7	1.4	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

§ Liberty Link variety

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South Shore

Location: 8.5 miles west of South Shore (57263) in Codington County, SD
(GPS: N 45°06.368' W 097°06.120')

Cooperator: SDSU Northeast Research Farm - Allen Heuer, manager

Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slope

Fertilizer: 0-100-0 preplant incorporated

Previous crop: Spring Wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Dual II
Post: Select (clethodim) + Harmony SG (thifensulfuron)

Insecticide: None

Date seeded: 5/28/2015

Date harvested: 9/29/2015

Table 4. Liberty Link soybean variety performance results (average of 4 replications sorted by yield) - Maturity Groups 0 & 1 at South Shore, SD).

Variety Information			Agronomic Performance				
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Protein %	Oil %	Lodging Score (1-5)*
NuTech	3126L	1.2	51.4	9.4	35.0	18.0	2.0
Credenz	CZ 1332 LL	1.3	48.5	9.3	35.4	18.0	2.0
Thunder Seed	5615LLN	1.5	48.5	10.6	35.9	18.4	2.0
Credenz	CZ 525 LL	0.5	47.2	8.9	34.5	19.4	2.0
Check	Check	1.4	47.0	9.1	34.8	19.2	2.0
NuTech	3181L	1.8	46.8	10.8	36.1	18.2	2.0
NuTech	3153L	1.5	44.8	10.8	37.2	18.3	2.0
Credenz	CZ 1623 LL	1.6	44.7	10.1	35.7	18.4	2.0
Credenz	CZ 848 LL	0.8	43.2	9.4	35.0	18.7	1.5
Credenz	CZ 1845 LL	1.8	42.6	10.9	36.6	17.7	2.0
Thunder Seed	5411LLN	1.1	40.9	9.0	35.7	19.1	2.0
Credenz	CZ 121 LL	0.1	37.9	8.9	32.7	19.3	2.3
Trial Average			45.3	9.8	35.4	18.5	2.0
LSD (0.05)†			2.8	0.4	0.8	0.3	0.4
C.V.‡			4.2	3.2	1.6	0.9	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

§ Liberty Link variety

Jonathan Kleinjan | SDSU Crop Performance Testing Director
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location: 2.5 miles north of Bancroft (57353) in Kingsbury County
(GPS: N 44°31.091' W 097°45.244)

Cooperator: Weerts Farm, Inc.

Soil Type: Houdek-Stickney-Tetonka loam, 0-2% slope, non-irrigated

Fertilizer: None

Previous crop: Corn

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 14 oz Authority MTZ (metribuzin)
Post: 32 oz Roundup (glyphosate); 32 oz Roundup(glyphosate) + 9 oz Sinister
(fomesafen)

Insecticide: None

Date seeded: 5/17/2016

Date harvested: 10/21/2016

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Table 1a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Groups 0 & 1 at Bancroft, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Thunder Seed	3614 R2YN	1.4	79.3	12.0	1.0
Prairie Brand	X16153R2	1.5	79.1	12.0	1.0
Prairie Brand	PB-1566R2	1.5	77.7	12.1	1.0
Renk	RS147NR2	1.4	77.6	12.2	1.0
Prairie Brand	PB-1466R2	1.4	77.2	12.4	1.0
Check	Check	1.4	77.0	12.2	1.0
Federal Hybrids	F147NRR2Y	1.4	76.5	12.3	1.0
Peterson Farms Seed	17X13	1.3	76.5	12.3	1.0
Wensman	W3143NR2	1.4	76.3	12.3	1.0
Prairie Brand	PB-1376R2	1.3	75.9	12.0	1.0
NorthStar Genetics	1661NR2	1.6	75.9	12.4	1.0
Federal Hybrids	F195NRR2Y	1.9	75.2	12.1	1.0
Wensman	W3160NR2	1.6	75.0	12.1	1.0
Federal Hybrids	F154NRR2Y	1.5	74.8	12.3	1.0
NorthStar Genetics	1911NR2	1.9	74.8	11.9	1.0
Federal Hybrids	F1670NR2X	1.6	74.7	12.1	1.0
Thunder Seed	EXP 8713N	1.3	74.6	12.3	1.0
Channel	1405R2	1.4	74.0	12.1	1.0
Federal Hybrids	F106NRR2Y	1.0	73.9	12.7	1.0
Prairie Brand	PB-1611R2	1.6	73.8	12.0	1.0
Federal Hybrids	F1370NR2X	1.3	73.7	12.2	1.0
Federal Hybrids	F185NRR2Y	1.8	73.6	12.3	1.0
Thunder Seed	3511 R2YN	1.1	73.5	12.4	1.0
Prairie Brand	PB-1822R2	1.8	73.4	12.5	1.0
Renk	RS137NX	1.3	73.3	12.4	1.0
Thunder Seed	3408 R2YN	0.8	72.3	12.6	1.0
Thunder Seed	3619 R2YN	1.9	72.2	11.7	1.0
Renk	RS175NR2	1.7	72.2	12.2	1.0
Renk	RS107NX	1.0	72.1	12.3	1.0
Renk	RS145NR2	1.4	71.8	12.5	1.0
Trial Average			71.2	12.2	1.0
LSD (0.05)†			4.2	0.4	-
C.V.‡			4.2	2.5	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Groups 0 & 1 at Bancroft, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
NuTech	7172R2	1.7	71.4	12.2	1.0
Titan Pro	TP-16X36	1.6	70.8	11.9	1.0
NuTech	7127R2	1.2	70.2	12.7	1.0
Channel	1808R2	1.8	70.0	12.1	1.0
Thunder Seed	EXP 8710N	1.0	69.9	12.3	1.0
Dairyland Seed	DSR-1870/R2Y	1.8	69.7	11.9	1.0
Prairie Brand	PB-1956R2	1.9	69.7	12.1	1.0
Dairyland Seed	DSR-1721/R2Y	1.7	69.1	12.5	1.0
Prairie Brand	PB-1787R2	1.7	68.2	12.2	1.0
Peterson Farms Seed	17X18N	1.8	67.5	12.1	1.0
Prairie Brand	PB-1947R2	1.9	67.1	11.9	1.0
Federal Hybrids	F1260NR2X	1.2	66.8	12.2	1.0
Peterson Farms Seed	16X12N	1.2	66.7	12.3	1.0
Titan Pro	TP-19X06	1.9	66.2	12.1	1.0
Peterson Farms Seed	17X14N	1.4	64.6	12.2	1.0
Titan Pro	TP-17X26	1.7	64.4	12.3	1.0
Thunder Seed	EXP 8718N	1.8	62.3	12.1	1.0
Peterson Farms Seed	17X17N	1.7	60.7	11.9	1.0
Renk	RS177NX	1.7	60.5	12.2	1.0
Wensman	W1183NRX	1.8	60.0	11.9	1.0
Federal Hybrids	F1470NR2X	1.4	45.3	12.3	1.0
Trial Average			71.2	12.2	1.0
LSD (0.05)†			4.2	0.4	-
C.V.‡			4.2	2.5	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 2 at Bancroft, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Prairie Brand	PB-2419RR2	2.4	71.7	11.3	1.0
Prairie Brand	PB-2296R2	2.2	71.4	11.3	1.0
NorthStar Genetics	2111NR2	2.1	71.2	11.4	1.0
Prairie Brand	PB-2156R2	2.1	70.9	11.4	1.0
Titan Pro	TP-21X46	2.1	70.6	11.4	1.0
Check	Check	1.4	70.4	11.5	1.0
Wensman	W1208NRX	2.0	69.8	11.3	1.0
Wensman	W3226NR2	2.2	69.6	11.3	1.0
NorthStar Genetics	2031NR2	2.0	69.2	11.6	1.0
Prairie Brand	PB-2600R2	2.6	68.8	11.7	1.0
Prairie Brand	PB-2024R2	2.0	68.5	11.6	1.0
Dairyland Seed	DSR-2017/R2Y	2.0	67.7	11.3	1.0
Wensman	W1233RX	2.3	67.7	11.2	1.0
Federal Hybrids	F2170NR2X	2.1	67.6	11.3	1.0
Wensman	W3201NR2	2.0	67.1	11.4	1.0
Federal Hybrids	F205NRR2Y	2.0	66.8	11.6	1.0
NuTech	7224	2.2	66.4	11.2	1.0
Titan Pro	TP-20R25	2.0	65.5	11.5	1.0
NorthStar Genetics	2281NR2	2.2	65.1	11.3	1.0
Dairyland Seed	DSR-2110/R2Y	2.1	64.3	11.5	1.0
NuTech	7217R2	2.1	64.2	11.7	1.0
Channel	2108R2	2.1	63.5	11.4	1.0
Trial Average			68.1	11.4	1.0
LSD (0.05)†			3.9	0.2	-
C.V.‡			4.1	1.3	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Jonathan Kleinjan | SDSU Crop Performance Testing Director
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location: 4.5 miles south and 1.25 miles east of Bath (57427) in Brown County, SD
(GPS: 45.39281, -98.30567)

Cooperator: Gordon and Roger Locken Farms

Soil Type: Great Bend-Beotia silt loams, 0-2% slopes

Fertilizer: none

Previous crop: Corn

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Authority Assist (sulfentrazone + imazethapyr)
Post: 32 oz Roundup (glyphosate)

Insecticide: none

Date seeded: 5/17/2016

Date harvested: 10/3/2016

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Table 1. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 0 at Bath, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Stine	09RH26	0.9	73.3	9.8	1.3
Renk	RS096NR2	0.9	73.2	9.9	1.0
Legacy Seed	LS-0935NRR2	0.9	73.2	9.9	1.3
Northstar Genetics	NS 0941NR2	0.9	72.9	9.8	1.0
Wensman	W3080NR2	0.8	72.5	9.6	1.0
Thunder Seed	3408 R2YN	0.8	72.4	9.7	1.3
Federal Hybrids	F087NRR2Y	0.8	71.6	9.8	1.0
Legacy Seed	LS-0833NRR2	0.8	71.6	9.8	1.0
Legacy Seed	LS-0837NRR2	0.8	71.5	9.6	1.0
Nutech	6097R2	0.9	71.2	9.3	1.0
Renk	RS084NR2	0.8	71.1	9.7	1.0
Prairie Brand	PB-1257R2	0.9	71.0	9.5	1.3
Dairyland Seed	DSR-0988/R2Y	0.9	71.0	9.7	1.0
Check	Check	1.4	70.3	9.5	1.0
Prairie Brand	PB-0777R2	0.7	70.2	9.8	1.3
Prairie Brand	PB-0987R2	0.8	70.0	9.8	1.0
Channel	0906R2	0.9	69.7	9.3	1.0
Dairyland Seed	DSR-0807/R2Y	0.8	68.8	9.4	1.0
Stine	07RF33	0.7	68.6	9.5	1.0
Renk	RS067NR2	0.6	68.4	9.7	1.0
Proseed	XT609	0.9	67.7	9.8	1.0
Dairyland Seed	DSR-0711/R2Y	0.7	67.0	9.1	1.0
Mycogen Seeds	5B033R2	0.3	66.3	9.7	1.0
Prairie Brand	PB-0863R2	0.8	65.8	9.5	1.0
Federal Hybrids	F067NRR2Y	0.6	63.9	9.7	1.0
Mycogen Seeds	5B040R2	0.4	62.5	9.5	1.0
Federal Hybrids	F0960NR2X	0.9	61.9	9.8	1.0
Federal Hybrids	F0860NR2X	0.8	61.3	9.4	1.3
Wensman	W3072NR2	0.7	61.1	9.7	1.0
Mycogen Seeds	5B024R2	0.2	61.0	9.2	1.0
Mycogen Seeds	5G009R2	0.09	58.0	9.3	1.0
Trial Average			68.4	9.6	1.0
LSD (0.05)†			3.4	0.2	0.3
C.V.‡			3.5	1.5	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 1 at Bath, SD).					
Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Prairie Brand	PB-1566R2	1.5	75.5	9.1	1.0
Thunder Seed	3614 R2YN	1.4	75.3	9.2	1.3
Peterson Farms Seed	16R10	1.0	74.7	9.2	1.0
Wensman	W3100NR2	1.0	74.2	9.4	1.0
Stine	10RD03	1.0	73.8	9.0	1.0
Dairyland Seed	DSR-1526/R2Y	1.5	73.8	9.1	1.0
Federal Hybrids	F106NRR2Y	1.0	73.3	9.4	1.0
Stine	19RF32	1.9	73.0	9.6	1.0
Wensman	W1129NRX	1.2	72.8	9.3	1.0
Prairie Brand	PB-1376R2	1.3	72.7	9.1	1.0
Federal Hybrids	F1370NR2X	1.3	72.5	9.2	1.0
Northstar Genetics	NS 1390NR2	1.3	72.4	9.3	1.0
Prairie Brand	PB-1947R2	1.9	72.3	9.4	1.0
Channel	1405R2	1.4	72.3	9.2	1.0
Legacy Seed	LS-1335NRR2	1.3	72.3	9.2	1.0
Proseed	XT613	1.3	72.2	9.1	1.0
Prairie Brand	PB-1466R2	1.4	71.7	9.2	1.5
Thunder Seed	3511 R2YN	1.1	71.7	9.2	1.3
Northstar Genetics	NS 1661 NR2	1.6	71.6	9.1	1.3
Wensman	W3143NR2	1.4	71.5	9.0	1.0
Dairyland Seed	DSR-1313/R2Y	1.3	71.2	9.1	1.3
Check	Check	1.4	71.2	9.2	1.0
Stine	14RD62	1.4	71.2	9.1	1.0
Peterson Farms Seed	17X13	1.3	70.9	9.2	1.0
Thunder Seed	3619 R2YN	1.9	70.3	9.0	1.0
Thunder Seed	EXP 8713N	1.3	70.2	9.2	1.0
Prairie Brand	PB-1611R2	1.6	70.2	9.1	1.0
Prairie Brand	PB-1822R2	1.8	69.9	9.2	1.0
Renk	RS107NX	1.0	69.5	9.3	1.0
Prairie Brand	X16153R2	1.5	69.2	9.2	1.3
Trial Average			70.0	9.2	1.1
LSD (0.05)†			3.1	0.2	0.4
C.V.‡			3.1	1.3	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Group 1 at Bath, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Legacy Seed	LS-1134NRR2	1.1	69.1	9.3	1.5
Federal Hybrids	F1470NR2X	1.4	69.1	9.1	1.3
Proseed	XT614	1.4	67.8	9.2	2.5
Proseed	XT610	1.0	67.4	9.3	1.0
Northstar Genetics	NS 1040NR2	1.1	66.9	9.3	1.5
Wensman	W1106NRX	1.0	66.4	9.2	1.0
Thunder Seed	EXP 8710N	1.0	66.1	9.3	1.0
Dairyland Seed	DSR-1120/R2Y	1.1	65.8	9.0	1.0
Prairie Brand	PB-1787R2	1.7	65.7	9.3	1.0
Prairie Brand	PB-1956R2	1.9	65.4	9.7	1.0
Peterson Farms Seed	17X14N	1.4	64.6	9.2	1.5
Peterson Farms Seed	16X12N	1.2	63.8	9.3	1.0
Federal Hybrids	F1260NR2X	1.2	61.4	9.3	1.0
Thunder Seed	EXP 8718N	1.8	59.6	9.2	1.0
Trial Average			70.0	9.2	1.1
LSD (0.05)†			3.1	0.2	0.4
C.V.‡			3.1	1.3	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Jonathan Kleinjan | SDSU Crop Performance Testing Director
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location: 5 1/4 miles south of St. Lawrence (57381) in Beadle County
(GPS: 44.43811, -98.92559)

Cooperator: Paul Fulton

Soil Type: Houdek-Prosper loams, 0-2% slopes

Fertilizer: None

Previous crop: Millet

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 6 oz Authority Assist (sulfentrazone + imazethapyr), 32 oz RT3
(glyphosate), 8 oz LV6, 1 qt/100 gal Bronc Max (water conditioner)
Post: 44 oz Roundup Weathermax (glyphosate), 1 qt/100 gal Bronc Max

Insecticide: None

Date seeded: 5/18/2016

Date harvested: 9/29/2016

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Table 1a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Groups 0 & 1 at Miller, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Prairie Brand	PB-1947R2	1.9	66.3	9.8	1.0
Federal Hybrids	F185NRR2Y	1.8	64.5	10.2	1.0
Renk	RS147NR2	1.4	63.6	9.3	1.0
Federal Hybrids	F147NRR2Y	1.4	62.2	9.5	1.0
Federal Hybrids	F195NRR2Y	1.9	59.8	9.5	1.0
Prairie Brand	PB-1822R2	1.8	59.4	9.5	1.0
Prairie Brand	X16153R2	1.5	59.0	9.9	1.0
Peterson Farms Seed	17X17N	1.7	58.9	10.1	1.0
Thunder Seed	EXP 8718N	1.8	58.2	10.1	1.0
Prairie Brand	PB-1956R2	1.9	58.2	10.0	1.0
Renk	RS137NX	1.3	58.0	9.5	1.0
Titan Pro	TP-17X26	1.7	57.5	9.7	1.0
Nutech	7127R2	1.2	57.2	9.8	1.0
Federal Hybrids	F1370NR2X	1.3	57.2	9.8	1.0
Thunder Seed	3511 R2YN	1.1	57.1	10.1	1.0
Renk	RS177NX	1.8	57.0	9.8	1.0
Prairie Brand	PB-1787R2	1.7	56.9	9.8	1.0
Prairie Brand	PB-1566R2	1.2	56.8	9.8	1.0
Check	Check	1.4	56.7	9.9	1.0
Titan Pro	TP-19X06	1.9	56.6	9.6	1.0
Nutech	7172R2	1.7	56.3	9.1	1.0
Renk	RS145NR2	1.4	56.3	9.7	1.0
Channel	1808R2	1.8	56.3	10.1	1.0
Federal Hybrids	F1670NR2X	1.6	56.1	9.3	1.0
Dairyland Seed	DSR-1870/R2Y	1.8	56.1	9.4	1.0
Prairie Brand	PB-1611R2	1.6	56.1	9.5	1.0
Peterson Farms Seed	17X14N	1.4	55.8	9.6	1.0
Thunder Seed	3614 R2YN	1.4	55.8	9.8	1.0
Prairie Brand	PB-1376R2	1.3	55.7	9.6	1.0
Renk	RS175NR2	1.7	55.7	9.9	1.0
Trial Average			56.5	9.8	1.0
LSD (0.05)†			4.6	0.7	-
C.V.‡			5.8	5	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Groups 0 & 1 at Miller, SD).					
Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Wensman	W3143NR2	1.4	55.3	10.0	1.0
Federal Hybrids	F154NRR2Y	1.5	55.3	10.1	1.0
Thunder Seed	EXP 8713N	1.3	55.2	10.0	1.0
Dairyland Seed	DSR-1721/R2Y	1.7	55.1	9.6	1.0
Thunder Seed	3619 R2YN	1.9	54.9	9.5	1.0
Thunder Seed	3408 R2YN	0.8	54.9	10.1	1.0
Wensman	W1183NRX	1.8	54.9	10.7	1.0
Federal Hybrids	F1470NR2X	1.4	54.9	9.5	1.0
Peterson Farms Seed	17X13	1.3	54.8	9.8	1.0
Federal Hybrids	F106NRR2Y	1	54.8	10.1	1.0
Wensman	W3160NR2	1.6	54.7	9.9	1.0
Peterson Farms Seed	17X18N	1.8	54.4	9.5	1.0
Renk	RS107NX	1	54.0	9.7	1.0
Peterson Farms Seed	16X12N	1.2	53.8	9.9	1.0
Titan Pro	TP-16X36	1.6	53.8	9.9	1.0
Prairie Brand	PB-1466R2	1.4	53.5	9.8	1.0
Channel	1405R2	1.4	52.8	9.6	1.0
Thunder Seed	EXP 8710N	1	49.9	9.8	1.0
Federal Hybrids	F1260NR2X	1.2	48.6	9.8	1.0
Trial Average			56.5	9.8	1.0
LSD (0.05)†			4.6	0.7	-
C.V.‡			5.8	5	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 2 at Miller, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Titan Pro	TP-21X46	2.1	64.3	9.5	1.0
Prairie Brand	PB-2419RR2	2.4	63.7	11.6	1.0
Prairie Brand	PB-2156R2	2.1	61.6	10.1	1.0
Wensman	W3201NR2	2.0	61.6	9.9	1.0
Nutech	7224	2.2	60.1	10.0	1.0
Prairie Brand	PB-2296R2	2.2	59.9	9.4	1.0
Nutech	7217R2	2.1	59.6	10.5	1.0
Dairyland Seed	DSR-2017/R2Y	2.0	58.6	10.0	1.0
Wensman	W3226NR2	2.2	57.4	9.8	1.0
Titan Pro	TP-20R25	2.0	56.8	10.0	1.0
Dairyland Seed	DSR-2110/R2Y	2.1	56.5	10.0	1.0
Federal Hybrids	F2170NR2X	2.1	56.5	9.4	1.0
Wensman	W1208NRX	2.0	56.5	9.6	1.0
Prairie Brand	PB-2600R2	2.6	55.3	15.2	1.0
Check	Check	1.4	55.3	9.5	1.0
Federal Hybrids	F205NRR2Y	2.0	54.8	9.7	1.0
Channel	2108R2	2.1	53.0	10.0	1.0
Prairie Brand	PB-2024R2	2.0	52.6	9.6	1.0
Trial Average			58.0	10.2	1.0
LSD (0.05)†			3.8	0.9	-
C.V.‡			4.7	5.9	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Jonathan Kleinjan | SDSU Crop Performance Testing Director
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location: 8.5 miles west of South Shore (57263) in Codington County, SD
(GPS: 45.106822, -97.099983)

Cooperator: SDSU Northeast Research Farm - Allen Heuer, manager

Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slope

Fertilizer: None

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 32 oz Dual II Magnum (s-metolachlor)
Post: 32 oz Roundup Ultramax (glyphosate)

Insecticide: None

Date seeded: 5/17/2016

Date harvested: 9/30/2016

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Table 1. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 0 at South Shore, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
NorthStar Genetics	NS 0941NR2	0.9	56.8	12.7	1.0
Check	Check	1.4	56.0	12.2	1.0
Channel	0906R2	0.9	55.4	11.8	1.0
Prairie Brand	PB-1257R2	0.9	55.3	12.0	1.0
Legacy Seed	LS-0837NRR2	0.8	55.1	12.6	1.0
Nutech	6097R2	0.9	54.1	12.4	1.0
Proseed	XT609	0.9	53.6	12.3	1.0
Thunder Seed	3408 R2YN	0.8	53.6	12.5	1.0
Federal Hybrids	F087NRR2Y	0.8	53.4	12.1	1.0
Renk	RS067NR2	0.6	53.2	12.3	1.0
Stine	07RF33	0.7	52.6	12.3	1.0
Stine	09RH26	0.9	52.3	12.4	1.0
Dairyland Seed	DSR-0988/R2Y	0.9	52.0	12.3	1.0
Renk	RS096NR2	0.9	52.0	12.7	1.0
Legacy Seed	LS-0833NRR2	0.8	51.8	12.4	1.0
Dairyland Seed	DSR-0711/R2Y	0.7	51.7	12.1	1.0
Prairie Brand	PB-0987R2	0.8	51.7	12.5	1.0
Wensman	W3080NR2	0.8	51.6	12.6	1.0
Renk	RS084NR2	0.8	51.5	12.3	1.0
Federal Hybrids	F067NRR2Y	0.6	51.5	12.2	1.0
Prairie Brand	PB-0777R2	0.7	50.8	12.5	1.0
Legacy Seed	LS-0935NRR2	0.9	50.8	12.5	1.0
Federal Hybrids	F0960NR2X	0.9	50.8	12.4	1.0
Federal Hybrids	F0860NR2X	0.8	50.7	12.4	1.0
Dairyland Seed	DSR-0807/R2Y	0.8	50.6	12.0	1.0
Prairie Brand	PB-0863R2	0.8	50.5	11.9	1.0
Wensman	W3072NR2	0.7	48.7	12.4	1.0
Wensman	W1067RX	0.6	48.2	12.2	1.0
Mycogen Seeds	5B033R2	0.3	48.1	12.0	1.0
Mycogen Seeds	5B040R2	0.4	46.0	12.2	1.0
Mycogen Seeds	5G009R2	0.09	40.9	12.1	1.0
Mycogen Seeds	5B024R2	0.2	39.0	12.5	1.0
Trial Average			51.3	12.3	1.0
LSD (0.05)†			2.9	0.5	-
C.V.‡			3.9	2.8	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 1 at South Shore, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Legacy Seed	LS-1335NRR2	1.3	58.3	11.1	1.0
Prairie Brand	PB-1611R2	1.6	57.5	12.3	1.0
Prairie Brand	PB-1822R2	1.8	56.7	12.8	1.0
Thunder Seed	3614 R2YN	1.4	56.3	11.2	1.0
Wensman	W3143NR2	1.4	56.2	11.2	1.0
Prairie Brand	PB-1566R2	1.5	55.5	11.6	1.0
Prairie Brand	PB-1947R2	1.9	55.5	14.4	1.0
Stine	10RD03	1.0	55.4	11.0	1.0
Peterson Farms Seed	16R10	1.0	55.2	11.9	1.0
Check	Check	1.4	54.6	11.3	1.0
Wensman	W3160NR2	1.6	54.5	11.5	1.0
Peterson Farms Seed	16X12N	1.2	54.5	11.5	1.0
Prairie Brand	PB-1956R2	1.9	54.3	13.2	1.0
Proseed	XT613	1.3	54.2	11.6	1.0
Dairyland Seed	DSR-1313/R2Y	1.3	54.2	11.0	1.0
Thunder Seed	3511 R2YN	1.1	54.0	11.5	1.0
Dairyland Seed	DSR-1526/R2Y	1.5	53.9	11.1	1.0
Thunder Seed	3619 R2YN	1.9	53.9	11.5	1.0
Federal Hybrids	F106NRR2Y	1.0	53.7	11.8	1.0
Wensman	W1129NRX	1.2	53.5	11.5	1.0
Wensman	W1106NRX	1.0	53.5	11.5	1.0
Peterson Farms Seed	17X13	1.3	53.3	11.5	1.0
Wensman	W3100NR2	1.0	53.2	11.7	1.0
Prairie Brand	PB-1376R2	1.3	53.0	11.3	1.0
Prairie Brand	X16153R2	1.5	53.0	11.1	1.0
Channel	1405R2	1.4	52.9	11.5	1.0
Prairie Brand	PB-1787R2	1.7	52.9	11.6	1.0
Thunder Seed	EXP 8718N	1.8	52.7	12.3	1.0
Federal Hybrids	F1470NR2X	1.4	52.6	11.4	1.0
Federal Hybrids	F1260NR2X	1.2	52.6	11.5	1.0
Trial Average			53.4	11.6	1.0
LSD (0.05)†			2.4	0.6	-
C.V.‡			3.3	3.7	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Group 1 at South Shore, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Thunder Seed	EXP 8710N	1.0	52.5	11.3	1.0
NorthStar Genetics	NS 1390NR2	1.3	52.5	11.7	1.0
Peterson Farms Seed	17X14N	1.4	52.4	11.5	1.0
Proseed	XT614	1.4	52.0	11.7	1.0
Titan Pro	TP-17X26	1.7	51.9	12.7	1.0
NorthStar Genetics	NS 1661 NR2	1.6	51.9	11.3	1.0
Prairie Brand	PB-1466R2	1.4	51.7	11.7	1.0
Proseed	XT610	1.1	51.7	11.4	1.0
Federal Hybrids	F1370NR2X	1.3	51.7	11.4	1.0
Renk	RS107NX	1.0	51.7	11.4	1.0
Thunder Seed	EXP 8713N	1.3	50.7	11.4	1.0
Dairyland Seed	DSR-1120/R2Y	1.1	50.6	11.2	1.0
Legacy Seed	LS-1134NRR2	1.1	49.6	11.9	1.0
NorthStar Genetics	NS 1040NR2	1.1	49.5	11.7	1.0
Trial Average			53.4	11.6	1.0
LSD (0.05)†			2.4	0.6	-
C.V.‡			3.3	3.7	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Jonathan Kleinjan | SDSU Extension Crop Production Associate
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location: 1.5 miles south of Volga in Brookings County, SD
(GPS: 44.298780, -96.926099)

Cooperator: SDSU Volga Research Farm - Jack Ingemansen, manager

Soil Type: Brandt silty clay loam, 0-2% slope

Fertilizer: None

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Dual II Magnum (metolachlor)
Post: Roundup Power Max (glyphosate)

Insecticide: None

Date seeded: 5/12/2016

Date harvested: 10/14/2016 (Group 1), 10/17/2016 (Group 2)

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Table 1a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 1 at Volga, SD).					
Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Federal Hybrids	F195NRR2Y	1.9	83.2	11.2	2.5
Prairie Brand	PB-1566R2	1.5	82.9	11.3	2.0
Wensman	W3143NR2	1.4	82.6	11.2	2.3
Wensman	W1129NRX	1.2	82.4	11.4	2.8
Thunder Seed	3614 R2YN	1.4	82.1	11.4	2.5
Dairyland Seed	DSR-1870/R2Y	1.8	81.9	11.3	3.3
Wensman	W3160NR2	1.6	81.7	11.3	2.3
Prairie Brand	PB-1956R2	1.9	81.4	11.3	3.3
NorthStar Genetics	1911NR2	1.9	81.2	11.1	2.8
Stine	19RF32	1.9	81.2	11.3	2.3
Prairie Brand	PB-1947R2	1.9	80.7	11.2	2.3
Prairie Brand	PB-1822R2	1.8	80.6	11.3	3.0
Dairyland Seed	DSR-1721/R2Y	1.7	80.6	11.6	2.5
NorthStar Genetics	1661NR2	1.6	80.3	11.5	2.0
Federal Hybrids	F185NRR2Y	1.8	80.2	11.4	3.3
Renk	RS137NX	1.3	79.9	11.5	2.5
Stine	14RD62	1.4	79.9	11.5	2.3
Prairie Brand	X16153R2	1.5	79.8	11.5	2.0
Peterson Farms Seed	17X18N	1.8	79.7	11.3	3.0
Thunder Seed	3619 R2YN	1.9	79.7	11.1	2.8
NuTech	7172R2	1.7	79.6	11.2	2.0
Channel	1808R2	1.8	79.4	11.3	2.8
Thunder Seed	EXP 8713N	1.3	79.4	11.3	2.5
Check	Check	1.4	79.3	11.3	3.0
Prairie Brand	PB-1611R2	1.6	79.2	11.3	3.3
Renk	RS147NR2	1.4	78.9	11.3	2.3
Prairie Brand	PB-1376R2	1.3	78.7	11.2	2.5
Thunder Seed	3408 R2YN	0.8	78.6	11.6	3.0
Thunder Seed	3511 R2YN	1.1	78.2	11.4	2.8
Titan Pro	TP-19X06	1.9	78.0	11.2	2.8
Trial Average			78.6	11.3	2.7
LSD (0.05)†			3.9	0.2	0.7
C.V.‡			3.6	1.6	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Group 1 at Volga, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Prairie Brand	PB-1787R2	1.7	77.9	11.2	3.3
NuTech	7127R2	1.2	77.8	11.5	2.3
Renk	RS145NR2	1.4	77.5	11.4	2.8
Renk	RS177NX	1.8	77.5	11.3	3.0
Renk	RS107NX	1.0	77.2	11.4	2.0
Prairie Brand	PB-1466R2	1.4	77.1	11.5	2.3
Stine	17RH03	1.8	77.0	11.4	3.3
Peterson Farms Seed	16X12N	1.2	76.5	11.3	2.0
Peterson Farms Seed	17X14N	1.4	75.9	11.6	3.0
Thunder Seed	EXP 8710N	1.0	75.9	11.4	2.5
Titan Pro	TP-16X36	1.6	75.5	11.3	3.0
Renk	RS175NR2	1.7	75.3	11.4	2.8
Thunder Seed	EXP 8718N	1.8	75.1	11.4	3.3
Peterson Farms Seed	17X17N	1.7	71.6	11.2	3.3
Titan Pro	TP-17X26	1.7	69.9	11.4	2.5
Wensman	W1183NRX	1.8	67.1	11.3	3.0
Trial Average			78.6	11.3	2.7
LSD (0.05)†			3.9	0.2	0.7
C.V.‡			3.6	1.6	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 3. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 2 at Volga, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Titan Pro	TP-21X46	2.1	79.7	12.5	2.8
NorthStar Genetics	2281NR2	2.2	77.3	12.5	2.5
Check	Check	1.4	77.3	12.9	3.0
Wensman	W1208NRX	2.0	77.1	12.4	2.5
NorthStar Genetics	2111NR2	2.1	76.6	12.7	2.0
Dairyland Seed	DSR-2017/R2Y	2.0	76.5	12.5	2.5
Federal Hybrids	F226NRR2Y	2.2	76.5	12.4	2.5
NuTech	7224	2.2	76.4	13.0	2.0
NorthStar Genetics	2031NR2	2.0	75.8	12.6	2.3
Prairie Brand	PB-2419RR2	2.4	75.7	12.3	3.8
Federal Hybrids	F2170NR2X	2.1	75.6	12.4	2.5
Stine	20RD20	2.1	75.0	12.6	2.5
Prairie Brand	PB-2600R2	2.6	74.7	12.8	2.8
Dairyland Seed	DSR-2110/R2Y	2.1	74.7	12.6	2.0
Stine	24RH62	2.4	74.4	12.7	3.0
Titan Pro	TP-20R25	2.0	74.0	12.6	2.8
Federal Hybrids	F205NRR2Y	2.0	73.6	12.7	2.5
Wensman	W3201NR2	2.0	73.4	12.7	3.0
Wensman	W1233RX	2.3	72.8	12.5	3.5
NuTech	7217R2	2.1	72.6	12.9	3.3
Prairie Brand	PB-2296R2	2.2	72.6	12.5	3.8
Prairie Brand	PB-2024R2	2.0	72.6	12.7	2.5
Prairie Brand	PB-2156R2	2.1	72.0	12.4	2.5
Channel	2306R2	2.3	71.5	12.3	3.5
Trial Average			74.9	12.6	2.7
LSD (0.05)†			3.3	0.2	0.6
C.V.‡			3.1	1.0	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Jonathan Kleinjan | SDSU Crop Performance Testing Director
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location: 5 miles north and 1 mile east of Geddes (57432) in Charles Mix County, SD
(GPS: 43.326899, -98.685335)

Cooperator: Curtis Sybesma

Soil Type: Highmore-Eakin silt loam, 0-2% slope

Fertilizer: 6-26-0 broadcast

Previous crop: Corn

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 2, 4-D Ester, Authority First, & Metribuzin 75
Post: 1 qt Roundup Power Max (glyphosate) (2X) + Intensity (clethodim)

Insecticide: None

Date seeded: 6/2/2016

Date harvested: 10/13/2016

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Table 1. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 1 at Geddes, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Great Lakes Hybrids	GL1953NR2	1.9	69.4	12.1	1.0
Great Lakes Hybrids	GL1760NRX	1.7	67.6	12.5	1.0
Check	Check	1.4	67.4	12.7	1.0
Thunder Seed	3619 R2YN	1.9	64.4	12.2	1.0
Channel	1808R2	1.8	64.2	12.4	1.0
Thunder Seed	3511 R2YN	1.1	63.4	12.9	1.0
Thunder Seed	3614 R2YN	1.4	62.9	12.8	1.0
Thunder Seed	EXP 8718N	1.8	62.4	12.6	1.0
Thunder Seed	EXP 8713N	1.3	61.6	12.8	1.0
Thunder Seed	EXP 8710N	1.0	58.4	12.9	1.0
Trial Average			64.2	12.6	1.0
LSD (0.05)†			2.8	0.3	-
C.V.‡			3.0	1.6	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 2 at Geddes, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Prairie Brand	PB-2156R2	2.1	78.8	11.6	1.0
Prairie Brand	PB-2600R2	2.6	77.8	11.6	1.0
Wensman	W3228NR2	2.2	74.3	11.9	1.0
Wensman	W1233RX	2.3	73.8	11.7	1.0
Prairie Brand	PB-2419RR2	2.4	73.7	11.5	1.0
Great Lakes Hybrids	GL2063NRX	2.0	73.4	11.5	1.0
Dairyland Seed	DSR-2616/R2Y	2.6	72.0	11.7	1.0
Great Lakes Hybrids	GL2269NR2	2.2	71.7	11.6	1.0
Prairie Brand	PB-2876R2	2.8	71.6	11.8	1.0
Wensman	W3226NR2	2.2	71.3	11.9	1.0
Great Lakes Hybrids	GL2469R2	2.4	70.9	11.8	1.0
Prairie Brand	PB-2296R2	2.2	70.5	11.2	1.0
Prairie Brand	PB-2486R2	2.4	69.9	11.8	1.0
Wensman	W3201NR2	2.0	69.8	12.0	1.0
Titan Pro	22M12	2.2	69.8	12.0	1.0
Wensman	W1208NRX	2.0	69.1	11.5	1.0
Prairie Brand	PB-2024R2	2.0	69.1	11.9	1.0
NuTech	7279	2.7	69.0	11.3	1.0
Great Lakes Hybrids	GL2465NRX	2.4	68.4	11.4	1.0
Prairie Brand	PB-3087R2	2.9	68.3	11.8	1.0
NuTech	7224	2.2	68.2	11.8	1.0
Check	Check	1.4	68.0	12.2	1.0
Titan Pro	TP-24R26	2.4	67.8	11.6	1.0
Prairie Brand	PB-2576R2	2.5	67.6	12.1	1.0
Prairie Brand	PB-2788R2	2.7	67.4	11.4	1.0
Trial Average			69.6	11.7	1.0
LSD (0.05)†			3.7	0.4	-
C.V.‡			3.8	2.2	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Group 2 at Geddes, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Dyna-Gro Seed	S26RS75	2.6	67.1	12.3	1.0
Wensman	W1255NRX	2.5	67.0	11.5	1.0
NuTech	7217R2	2.1	66.4	12.2	1.0
Channel	2108R2	2.1	66.4	11.8	1.0
Dyna-Gro Seed	S23RY85	2.3	66.3	12.1	1.0
Channel	2306R2	2.3	66.0	11.9	1.0
Titan Pro	TP-28X45	2.8	65.8	11.4	1.0
Dairyland Seed	DSR-2330/R2Y	2.3	64.6	11.9	1.0
Dyna-Gro Seed	S20RY45	2.0	64.0	12.1	1.0
Trial Average			69.6	11.7	1.0
LSD (0.05)†			3.7	0.4	-
C.V.‡			3.8	2.2	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.



A Service of SDSU Extension

2016 South Dakota

Soybean Variety Trial Results - Beresford

Jonathan Kleinjan | SDSU Crop Performance Testing Director

Kevin Kirby | Agricultural Research Manager

Shawn Hawks | Agricultural Research Manager

Location: 6 miles west and 3 miles south of Beresford (57432) in Clay county, SD
(GPS: 43.046386, -96.902161)

Cooperator: SDSU Southeast Research Farm - Peter Sexton, manager

Soil Type: Egan-Clarno-Trent silty clay loam, 0-2% slope, non-irrigated

Fertilizer: None

Previous crop: Corn

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 32 oz Roundup Power Max (glyphosate) + 1.33 pt Dual (metolachlor) + 4 oz
Glory (metribuzen) + 1 oz Sharpen (saflufenacil)
Post: 0.3 oz FirstRate (cloransulam) + 12 oz Flexstar (fomesafen) + 6 oz Select
(clethodim)

Insecticide: None

Date seeded: 5/20/2016

Date harvested: 10/24/2016

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Table 1. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 1 at Beresford, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Great Lakes Hybrids	GL1953NR2	1.9	81.8	12.9	1.0
Channel	1808R2	1.8	78.1	13.0	1.0
Thunder Seed	3614 R2YN	1.4	77.1	13.2	1.0
Thunder Seed	3619 R2YN	1.9	76.7	12.8	1.0
Thunder Seed	3511 R2YN	1.1	75.8	13.2	1.0
Thunder Seed	EXP 8713N	1.3	71.4	13.2	1.0
Great Lakes Hybrids	GL1760NRX	1.7	71.4	13.0	1.0
Check	Check	1.4	71.2	13.3	1.0
Thunder Seed	EXP 8710N	1.0	68.3	13.2	1.0
Thunder Seed	EXP 8718N	1.8	67.6	12.8	1.0
Trial Average			73.9	13.0	1.0
LSD (0.05)†			4.1	0.2	-
C.V.‡			3.8	1.0	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 2 at Beresford, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Stine	24RH62	2.4	84.1	12.6	1.0
Great Lakes Hybrids	GL2469R2	2.4	82.2	12.8	1.0
Stine	28RH02	2.8	81.8	12.7	1.0
Dyna-Gro Seed	S23RY85	2.3	81.3	12.6	1.0
Prairie Brand	PB-2876R2	2.8	81.3	12.5	1.0
Prairie Brand	PB-2600R2	2.6	80.6	12.4	1.0
Prairie Brand	PB-2419RR2	2.4	80.3	12.2	1.0
Wensman	W3228NR2	2.2	79.7	12.3	1.0
Wensman	W1208NRX	2.0	79.3	12.3	1.0
Wensman	W3226NR2	2.2	79.1	12.7	1.0
Great Lakes Hybrids	GL2063NRX	2.0	78.5	12.4	1.0
Prairie Brand	PB-3087R2	2.9	78.2	12.4	1.0
NuTech	7279	2.7	78.2	12.5	1.0
Dairyland Seed	DSR-2330/R2Y	2.3	77.7	12.8	1.0
Dairyland Seed	DSR-2616/R2Y	2.6	77.3	12.3	1.0
Titan Pro	TP-24R26	2.4	77.2	12.7	1.0
Dyna-Gro Seed	S26RS75	2.6	77.0	12.9	1.0
Prairie Brand	PB-2486R2	2.4	76.6	12.7	1.0
Titan Pro	TP-28X45	2.8	76.5	12.5	1.0
Prairie Brand	PB-2576R2	2.5	76.1	12.7	1.0
Wensman	W3201NR2	2.0	76.0	13.2	1.0
Wensman	W1233RX	2.3	75.7	12.3	1.0
Channel	2607R2	2.6	74.9	12.6	1.0
Channel	2306R2	2.3	74.9	12.3	1.0
Prairie Brand	PB-2296R2	2.2	74.8	12.4	1.0
Dyna-Gro Seed	S20RY45	2.0	74.6	12.8	1.0
Prairie Brand	PB-2788R2	2.7	74.5	12.4	1.0
Prairie Brand	PB-2156R2	2.1	74.3	12.8	1.0
Great Lakes Hybrids	GL2269NR2	2.2	74.3	12.4	1.0
Wensman	W1255NRX	2.5	73.3	12.4	1.0
Trial Average			75.9	12.6	1.0
LSD (0.05)†			4.6	0.4	-
C.V.‡			4.3	2.1	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Group 2 at Beresford, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Great Lakes Hybrids	GL2465NRX	2.4	72.9	12.4	1.0
Check	Check	1.4	70.7	12.9	1.0
Prairie Brand	PB-2024R2	2.0	70.2	12.6	1.0
NuTech	7217R2	2.1	69.7	12.9	1.0
NuTech	7224	2.2	68.8	12.9	1.0
Titan Pro	22M12	2.2	68.6	12.8	1.0
Stine	29RE22	2.9	63.4	12.3	1.0
Trial Average			75.9	12.6	1.0
LSD (0.05)†			4.6	0.4	-
C.V.‡			4.3	2.1	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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Jonathan Kleinjan | SDSU Crop Performance Testing Director

Kevin Kirby | Agricultural Research Manager

Shawn Hawks | Agricultural Research Manager

Beresford

Location: 6 miles west and 3 miles south of Beresford (57432) in Clay county, SD
(GPS: 43.046386, -96.902161)

Cooperator: SDSU Southeast Research Farm - Peter Sexton, manager

Soil Type: Egan-Clarno-Trent silty clay loam, 0-2% slope, non-irrigated

Fertilizer: None

Previous crop: Corn

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 32 oz Roundup Power Max (glyphosate) + 1.33 pt Dual (metolachlor) + 4 oz Glory (metribuzen) + 1 oz Sharpen (saflufenacil)

Post: 0.3 oz FirstRate (cloransulam) + 12 oz Flexstar (fomesafen) + 6 oz Select (clethodim)

Insecticide: None

Date seeded: 5/20/2016

Date harvested: 10/24/2016

Table 1. Conventional soybean variety performance results (average of 4 replications sorted by yield) - Maturity Groups 1 & 2 at Beresford, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Oil %	Lodging Score (1-5)*
Simplex	V1967A	1.8	76.0	12.1	1.0
Halls Seed	2101	1.9	75.2	12.2	1.0
Great Lakes Hybrids	GL2765N	2.7	75.0	11.7	1.0
Halls Seed	1601	1.9	73.9	12.1	1.0
Simplex	V2267A	1.9	73.2	13.0	1.0
Simplex	V2367B	2.3	71.3	12.5	1.0
Great Lakes Hybrids	GL2254N	2.2	69.2	12.2	1.0
SD AES	Brookings	1.7	67.3	12.2	1.0
Check	Check	1.4	65.9	12.4	1.0
Richland IFC	MK41	1.4	60.0	12.5	1.0
SD AES	Davison	2.2	58.1	9.8	1.0
MN AES	MN1701CN	1.7	52.2	12.3	1.0
MN AES	MN1806CN	1.8	52.2	12.1	1.0
MN AES	MN1612CN	1.6	48.2	12.2	1.0
Richland IFC	EXP373	2.0	47.9	12.2	1.0
Richland IFC	MK9101	1.1	35.7	10.8	1.0
Richland IFC	MK1016	1.0	19.6	12.5	1.0
Trial Average			60.1	12.0	1.0
LSD (0.05)†			7.0	1.7	-
C.V.‡			8.5	10.2	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Volga

Location: 1.5 mile south of Volga (57101) in Brookings County, SD
(GPS: 44.298780, -96.926099)

Cooperator: SDSU Volga Research Farm - Jack Ingemansen, manager

Soil Type: Brandt silty clay loam, 0-2% slope

Fertilizer: none

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Dual II Magnum (metolachlor)
Post: Harmony SG (thifensulferon)

Insecticide: None

Date seeded: 5/12/2016

Date harvested: 10/14/2016 (Group 1), 10/17/2016 (Group 2)

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Table 2. Conventional soybean variety performance results (average of 4 replications sorted by yield) - Maturity Groups 0, 1, & 2 at Volga, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Check	Check	1.4	79.1	14.1	2.8
Simplex	V2367B	2.3	76.9	13.8	2.8
SD AES	Brookings	1.7	76.4	14.3	3.0
Simplex	V2267A	1.9	75.6	14.1	3.0
Halls Seed	2101	1.9	74.9	13.5	2.8
SD AES	Roberts	0.6	74.3	14.4	2.3
Simplex	V1767A	1.5	74.1	14.1	2.8
Halls Seed	1601	1.9	73.8	13.7	2.5
Richland IFC	FG0822CN	0.8	72.1	14.4	2.8
Richland IFC	EXP373	2.0	72.0	13.8	3.0
Simplex	V1967A	1.8	71.1	14.0	3.0
SD AES	Codington	0.9	70.8	15.5	2.3
SD AES	Davison	2.2	68.8	14.2	3.3
Richland IFC	MK41	1.4	68.8	14.7	2.3
MN AES	MN1806CN	1.8	68.1	13.6	4.5
MN AES	MN1701CN	1.7	68.1	13.7	4.5
Richland IFC	MK0603	0.6	65.5	14.7	4.0
Richland IFC	MK808CN	0.8	64.3	15.7	3.3
MN AES	MN1612CN	1.6	63.6	13.9	2.8
Richland IFC	MK9404CN	0.6	62.6	14.0	2.3
Richland IFC	MK42	0.7	61.7	14.4	4.0
Richland IFC	MK1016	1.0	61.0	15.2	4.0
Richland IFC	MK9101	1.1	60.2	12.2	2.0
Richland IFC	MK0508	0.8	59.8	15.2	4.5
Trial Average			69.3	14.2	3.1
LSD (0.05)†			3.6	0.5	0.6
C.V.‡			3.6	2.6	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

South Shore

Location: 8.5 miles west of South Shore (57263) in Codington County, SD
(GPS: 45.106822, -97.099983)

Cooperator: SDSU Northeast Research Farm - Allen Heuer, manager

Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slope

Fertilizer: None

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Dual II
Post: Select (clethodim) + Harmony SG (thifensulfuron)

Insecticide: None

Date seeded: 5/17/2016

Date harvested: 9/30/2016 (Group 0)
10/10/2016 (Group 1)

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Table 3. Conventional soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 0 at South Shore, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Check	Check	1.4	52.9	10.8	1.0
Richland IFC	FG0822CN	0.8	50.3	11.1	1.0
SD AES	Roberts	0.6	45.5	10.9	1.0
Richland IFC	MK808CN	0.8	43.6	12.0	1.0
SD AES	Codington	0.9	43.5	11.7	1.0
Richland IFC	MK0603	0.6	42.8	11.2	1.8
Richland IFC	MK0508	0.8	41.6	11.3	1.0
Richland IFC	MK9404CN	0.6	41.0	11.8	1.0
Richland IFC	MK42	0.7	37.4	11.1	1.3
Trial Average			44.3	11.3	1.1
LSD (0.05)†			3.5	0.3	0.2
C.V.‡			5.5	1.9	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 4. Conventional soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 1 at South Shore, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Stine	14F06	1.4	58.2	12.0	1.0
Halls Seed	1601	1.9	55.6	11.9	1.0
SD AES	Brookings	1.7	55.4	12.4	1.0
Check	Check	1.4	54.4	11.9	1.0
Simplex	V1767A	1.5	54.3	12.3	1.0
Halls Seed	2101	1.9	53.8	12.5	1.0
Simplex	V1567B	1.4	53.5	11.8	1.0
Richland IFC	MK41	1.4	50.1	12.4	1.0
MN AES	MN1701CN	1.7	49.7	12.5	2.5
MN AES	MN1612CN	1.6	48.1	12.1	1.0
MN AES	MN1806CN	1.8	47.7	12.3	1.0
Richland IFC	MK9101	1.1	45.7	12.0	1.0
Richland IFC	MK1016	1.0	40.0	12.2	1.8
Trial Average			51.4	12.2	1.2
LSD (0.05)†			2.3	0.5	0.3
C.V.‡			3.2	2.8	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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Beresford

Location: 6 miles west and 3 miles south of Beresford (57432) in Clay county, SD
(GPS: 43.046386, -96.902161)

Cooperator: SDSU Southeast Research Farm - Peter Sexton, manager

Soil Type: Egan-Clarno-Trent silty clay loam, 0-2% slope, non-irrigated

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 32 oz Roundup Power Max (glyphosate) + 1.33 pt Dual (metolachlor) + 4 oz Glory (metribuzen) + 1 oz Sharpen (saflufenacil)
Post: 0.3 oz FirstRate (cloransulam) + 12 oz Flexstar (fomesafen) + 6 oz Select (clethodim)

Insecticide: None

Date seeded: 5/20/2016

Date harvested: 10/24/2016

Table 1. Liberty Link soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 1 at Beresford, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Credenz	CZ 1845 LL	1.8	66.6	11.8	1.0
Check	Check	1.4	65.9	12.4	1.0
Thunder Seed	5411LLN	1.1	65.3	12.2	1.0
Great Lakes Hybrids	GL1769NLL	1.7	61.5	12.2	1.0
Thunder Seed	5615LLN	1.5	61.1	12.0	1.0
Credenz	CZ 1332 LL	1.3	60.6	12.4	1.0
Credenz	CZ 1623 LL	1.6	59.0	12.3	1.0
Trial Average			62.8	12.2	1.0
LSD (0.05)†			9.3	0.3	-
C.V.‡			9.9	1.6	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Liberty Link soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 2 at Beresford, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
NuTech	3252L	2.5	71.9	12.0	1.0
Credenz	CZ 2601 LL	2.6	70.4	11.8	1.0
Credenz	CZ 2312 LL	2.3	69.5	11.8	1.0
Great Lakes Hybrids	GL2557NLL	2.5	69.3	11.9	1.0
Great Lakes Hybrids	GL2264NLL	2.2	65.1	11.8	1.0
NuTech	3205L	2.0	63.9	12.0	1.0
Great Lakes Hybrids	GL2860NLL	2.8	63.6	11.6	1.0
Check	Check	1.4	62.1	12.0	1.0
Credenz	CZ 2101 LL	2.1	59.4	11.9	1.0
Credenz	CZ 2510 LL	2.5	56.8	11.9	1.0
Trial Average			66.4	11.9	1.0
LSD (0.05)†			8.9	0.2	-
C.V.‡			9.3	1.2	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Volga

Location: 1.5 mile south of Volga (57101) in Brookings County, SD
(GPS: N 44°18.152' W 096°55.138')

Cooperator: SDSU Volga Research Farm - Jack Ingemansen, manager

Soil Type: Brandt silty clay loam, 0-2% slope

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Metolachlor (Dual II Magnum)
Post: Harmony SG (thifensulfuron)

Insecticide: None

Date seeded: 5/12/2016

Date harvested: 10/14/2016 (Group 1), 10/17/2016 (Group 2)

Table 3. Liberty Link soybean variety performance results (average of 4 replications sorted by yield) - Maturity Groups 0 & 1 at Volga, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Peterson Farms Seed	L17-16N	1.7	82.5	13.7	2.3
Credenz	CZ 1332 LL	1.3	81.1	14.2	2.3
NuTech	3174L	1.7	79.9	13.6	2.8
Check	Check	1.4	79.1	14.1	2.8
Credenz	CZ 1201 LL	1.2	77.0	13.7	3.0
Peterson Farms Seed	L13-15N	1.3	76.7	13.9	2.5
Peterson Farms Seed	L12-16N	1.2	76.7	14.3	3.0
Credenz	CZ 1845 LL	1.8	75.7	13.7	3.3
Thunder Seed	5615LLN	1.5	74.9	14.1	3.0
Peterson Farms Seed	L07-16N	0.7	74.8	14.4	2.0
Credenz	CZ 1623 LL	1.6	74.5	13.9	3.0
Peterson Farms Seed	L11-13N	1.1	73.0	14.2	2.8
Thunder Seed	5411LLN	1.1	72.6	13.8	2.8
Trial Average			76.8	14.0	2.7
LSD (0.05)†			4.4	0.6	0.5
C.V.‡			4.0	3.0	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 4. Liberty Link soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 2 at Volga, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Credenz	CZ 2312 LL	2.3	84.0	13.3	2.8
Credenz	CZ 2601 LL	2.6	76.2	14.0	3.0
NuTech	3205L	2.0	75.8	13.5	2.3
Credenz	CZ 2510 LL	2.5	75.3	13.4	3.3
Check	Check	1.4	75.3	13.6	3.0
Credenz	CZ 2101 LL	2.1	72.7	13.3	2.0
Trial Average			76.5	13.5	2.7
LSD (0.05)†			4.3	0.2	0.5
C.V.‡			3.7	1.0	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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South Shore

Location: 8.5 miles west of South Shore (57263) in Codington County, SD
(GPS: 45.106822, -97.099983)

Cooperator: SDSU Northeast Research Farm - Allen Heuer, manager

Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slope

Fertilizer: 0-100-0 preplant incorporated

Previous crop: Spring Wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Dual II
Post: Select (clethodim) + Harmony SG (thifensulfuron)

Insecticide: None

Date seeded: 5/17/2016

Date harvested: 9/30/2016 (Group 0)
10/10/2016 (Group 1)

Table 5. Liberty Link soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 0 at South Shore, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Check	Check	1.4	52.9	10.8	1.0
Nutech	3066L	0.6	50.5	10.9	1.0
Stine	06LH26	0.6	48.2	10.9	1.0
Stine	05LH60	0.6	48.1	11.0	1.0
Peterson Farms Seed	L07-16N	0.7	47.3	11.6	1.0
Credenz	CZ 201 LL	0.5	44.7	10.8	1.0
Trial Average			48.6	11.0	1.0
LSD (0.05)†			3.6	0.3	-
C.V.‡			4.9	2.0	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 6. Liberty Link soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 1 at South Shore, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Credenz	CZ 1332 LL	1.3	57.5	11.7	1.0
Stine	13LH62	1.3	57.0	12.1	1.0
Nutech	3115L	1.1	56.5	12.4	1.0
Credenz	CZ 1201 LL	1.2	55.9	12.4	1.0
Stine	14LF62	1.4	55.4	12.1	1.0
Peterson Farms Seed	L17-16N	1.7	54.8	12.3	1.0
Credenz	CZ 1845 LL	1.8	54.6	12.1	1.0
Credenz	CZ 1623 LL	1.6	54.6	12.1	1.0
Peterson Farms Seed	L12-16N	1.2	54.5	12.2	1.0
Check	Check	1.4	54.4	11.9	1.0
Peterson Farms Seed	L13-15N	1.3	53.6	11.9	1.0
Thunder Seed	5615LLN	1.5	53.5	12.1	1.0
Peterson Farms Seed	L11-13N	1.1	50.6	11.9	1.0
Thunder Seed	5411LLN	1.1	49.5	11.9	1.0
Trial Average			54.5	12.1	1.0
LSD (0.05)†			2.5	0.4	-
C.V.‡			3.2	2.6	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location: 4.5 miles south and 2.5 miles east of Bath (57427) in Brown County, SD
(GPS: 45.399915, -98.278796)

Cooperator: Gordon and Roger Locken Farms

Soil Type: Great Bend-Beotia silt loams, 0-2% slopes

Fertilizer: none

Previous crop: Corn

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 32 oz Roundup RT3 (glyphosate), 1 oz Aim EC (carfentrazone), 7.5 oz
Authority Assist (sulfentrazone + imazethapyr)
Post: 32 oz Roundup Powermax (glyphosate)

Insecticide: none

Date seeded: 5/25/2017

Date harvested: 10/16/2017

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Table 1. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 0 at Bath, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Check	CHECK	1.4	69.2	11.2	1.0
Renk	RS096NR2	0.9	68.0	12.1	1.0
Legacy Seeds	LS-0935N RR2	0.9	67.7	11.9	1.0
Stine	09BA02	0.9	66.7	11.2	1.0
Prairie Brand	PB-0987R2	0.9	66.3	12.1	1.0
Dairyland Seed	DSR-0807/R2Y	0.8	65.9	11.7	1.0
Federal Hybrids	F087N RR2Y	0.8	65.3	12.0	1.0
Dairyland Seed	DSR-0988/R2Y	0.9	65.1	12.3	1.0
Peterson Farms Seed	18X08N	0.8	64.6	11.8	1.3
Stine	09RI62	0.9	63.8	12.3	1.0
Thunder Seed	3408 R2YN	0.8	63.4	11.9	1.0
Renk	RS078NX	0.7	63.0	11.9	1.0
Prairie Brand	PB-0777R2	0.7	62.7	12.0	1.0
Dahlman Seed	6808XN	0.8	62.2	12.1	1.0
Thunder Seed	SB8805N	0.5	61.7	11.5	1.0
Dahlman Seed	6806XN	0.6	61.1	11.6	1.0
Thunder Seed	SB8807N	0.7	60.8	11.5	1.0
Thunder Seed	3606 R2YN	0.6	60.5	12.0	1.0
Federal Hybrids	F0880N R2X	0.8	60.2	11.6	1.0
Legacy Seeds	LS-0836N RR2X	0.8	60.1	11.7	1.0
Thunder Seed	SB8703	0.3	59.6	11.5	1.5
Dahlman Seed	6709XN	0.9	58.7	11.7	1.0
Wensman	W1086NRX	0.8	57.2	11.9	1.0
Peterson Farms Seed	17X09N	0.9	54.7	12.0	1.0
Trial Average			62.8	11.8	1.0
LSD (0.05)†			3.5	0.5	0.2
C.V.‡			4.0	2.5	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 1 at Bath, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Dairyland Seed	DSR-1313/R2Y	1.3	74.1	10.7	1.0
Prairie Brand	PB-1566R2	1.5	73.3	11.1	1.0
Prairie Brand	PB-1376R2	1.3	73.0	10.7	1.0
Stine	14RD62	1.4	72.3	11.0	1.0
Federal Hybrids	F1680N R2X	1.6	72.2	10.7	1.0
Check	CHECK	1.4	72.1	10.8	1.0
Prairie Brand	PB-1787R2	1.7	71.2	10.9	1.5
Legacy Seeds	LS-1638N RR2X	1.6	71.1	11.0	1.0
Dairyland Seed	DSR-1120/R2Y	1.1	71.0	10.7	1.0
Federal Hybrids	F147N RR2Y	1.4	70.9	10.8	1.0
Prairie Brand	PB-1947R2	1.9	70.5	11.2	1.0
Thunder Seed	3614 R2YN	1.4	70.5	10.9	1.0
Dairyland Seed	DSR-1475/R2Y	1.4	70.1	10.6	1.0
Wensman	W1165NRX	1.6	70.0	11.2	1.3
Dairyland Seed	DSR-1526/R2Y	1.5	69.6	11.0	1.0
Stine	15BA30	1.5	69.1	11.4	1.3
Wensman	W1129NRX	1.2	68.8	11.2	1.0
Federal Hybrids	F154N RR2Y	1.5	68.7	10.9	1.0
Stine	19BA23	1.9	68.1	12.0	1.0
Prairie Brand	PB-1257R2	1.2	67.7	11.3	1.5
Thunder Seed	SB8710N	1.0	67.6	11.5	1.0
Legacy Seeds	LS-1134N RR2	1.1	67.5	11.5	1.8
Peterson Farms Seed	18X11N	1.1	67.2	11.1	1.0
Stine	13RI32	1.3	67.1	10.9	1.0
Legacy Seeds	LS-1335N RR2	1.3	66.8	11.0	1.0
Trial Average			68.0	11.0	1.1
LSD (0.05)†			3.9	0.4	0.3
C.V.‡			4.1	2.5	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Group 1 at Bath, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Peterson Farms Seed	18X13N	1.3	66.2	10.8	1.0
Wensman	W1140NRX	1.4	65.9	10.6	1.0
Federal Hybrids	F1180N R2X	1.1	65.5	11.3	1.0
Legacy Seeds	LS-1136N RR2X	1.1	65.2	11.4	1.0
Stine	14BA03	1.4	65.0	10.7	1.5
Federal Hybrids	F1480N R2X	1.4	64.9	11.1	1.0
Wensman	W1121NRX	1.2	64.9	11.4	1.0
Thunder Seed	SB8811N	1.1	64.1	11.1	1.0
Wensman	W1106NRX	1.0	63.8	11.5	1.0
Renk	RS118NX	1.1	63.4	11.1	1.0
Legacy Seeds	LS-1338N RR2X	1.3	63.3	10.9	1.0
Peterson Farms Seed	18X14N	1.4	62.1	11.2	1.0
Legacy Seeds	LS-1138N RR2X	1.1	60.9	11.0	1.0
Trial Average			68.0	11.0	1.1
LSD (0.05)†			3.9	0.4	0.3
C.V.‡			4.1	2.5	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Jonathan Kleinjan | SDSU Extension Crop Production Associate

Kevin Kirby | Agricultural Research Manager

Shawn Hawks | Agricultural Research Manager

Location: 4.5 miles north and 1.5 mile east of Geddes (57432) in Charles Mix County, SD
(GPS: 43.320134, -98.664704)

Cooperator: Curtis Sybesma

Soil Type: Eakin silt loam, 0-2% slopes

Fertilizer: none

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 5 oz Authority First (sulfentrazone+cloransulam), 4 oz Sencore (metribuzin),
24 oz Roundup (glyphosate)
Post: 33 oz Roundup Power Max (glyphosate)

Insecticide: None

Date seeded: 6/1/2017

Date harvested: 10/11/2017

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Table 1. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 1 at Geddes, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Great Lakes Hybrids	1953NR2	1.9	63.9	10.0	1.0
Dairyland Seed	DSR-1950/R2Y	1.9	63.6	10.0	1.0
Check	CHECK	1.4	59.9	10.0	1.0
Wensman	W1184NRX	1.8	57.4	10.0	1.0
Thunder Seed	3614 R2YN	1.4	56.0	9.9	1.0
Thunder Seed	SB8811N	1.1	54.5	10.2	1.0
Thunder Seed	SB8710N	1.0	53.9	10.1	1.0
Trial Average			58.3	10.0	1.0
LSD (0.05)†			2.6	0.2	-
C.V.‡			3.2	1.1	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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Table 2. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 2 at Geddes, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Renk	RS265NR2	2.6	67.3	11.0	1.0
Renk	RS248NX	2.4	66.5	10.7	1.0
Wensman	W1208NRX	2.0	65.6	10.0	1.0
Great Lakes Hybrids	2063NRX	2.0	63.8	10.1	1.0
Dairyland Seed	DSR-2616/R2Y	2.6	63.7	11.5	1.0
Dyna-Gro	S26RS75	2.6	63.3	10.3	1.0
Dyna-Gro	S23RY85	2.3	62.1	9.9	1.0
Great Lakes Hybrids	2269NR2	2.2	62.0	9.9	1.0
Wensman	W3228NR2	2.3	61.4	9.9	1.0
Dairyland Seed	DSR-2110/R2Y	2.1	61.4	10.0	1.0
Great Lakes Hybrids	2372NRX	2.3	61.1	9.9	1.0
Check	CHECK	1.4	60.5	9.9	1.0
Wensman	W1218NRX	2.1	60.3	10.0	1.0
Great Lakes Hybrids	2870NRX	2.8	60.0	11.6	1.0
Wensman	W1233RX	2.2	59.7	9.9	1.0
Great Lakes Hybrids	2551NR2	2.5	59.6	10.1	1.0
Great Lakes Hybrids	2469R2	2.4	59.2	10.0	1.0
Peterson Farms Seed	17X21N	2.1	59.2	9.9	1.0
Peterson Farms Seed	18X23N	2.3	59.1	10.2	1.0
Great Lakes Hybrids	2673NRX	2.6	59.1	10.1	1.0
Dyna-Gro	S24RY87	2.4	58.3	10.1	1.0
Wensman	W1220NRX	2.2	58.0	9.9	1.0
Renk	RS228NX	2.2	57.1	10.0	1.0
Dairyland Seed	DSR-2330/R2Y	2.3	56.5	10.1	1.0
Trial Average			61.0	10.2	1.0
LSD (0.05)†			3.1	0.5	-
C.V.‡			3.6	3.3	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Jonathan Kleinjan | SDSU Extension Crop Production Associate

Kevin Kirby | Agricultural Research Manager

Shawn Hawks | Agricultural Research Manager

Location: 4 miles north and 1/2 mile west of Bancroft (57353) in Kingsbury County
(GPS: 44.543921, -97.767418)

Cooperator: Weerts Farm, Inc.

Soil Type: Houdek-Stickney loam, 0-2% slope, non-irrigated

Fertilizer: None

Previous crop: Corn

Tillage: Minimum-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 14 oz Authority MTZ (sulfentrazone+metribuzin)
Post: 1) 32 oz Roundup Powermax (glyphosate) + 12 oz Andros (fomesafen) + 4
oz Section Three (clethodim); 2) 44 oz Roundup Powermax (glyphosate)

Insecticide: None

Date seeded: 5/30/2017

Date harvested: 10/12/2017

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Table 1. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 0 at Bancroft, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Check	CHECK	1.4	62.8	9.5	1.0
Legacy Seeds	LS-0935N RR2	0.9	58.9	9.6	1.0
Thunder Seed	3408 R2YN	0.8	58.3	9.6	1.0
Thunder Seed	SB8807N	0.7	58.1	9.4	1.0
Thunder Seed	3606 R2YN	0.6	55.2	9.5	1.0
Thunder Seed	SB8805N	0.5	54.7	9.1	1.0
Legacy Seeds	LS-0836N RR2X	0.8	51.8	9.5	1.0
Thunder Seed	SB8703	0.3	49.7	9.2	1.0
Trial Average			56.2	9.4	1.0
LSD (0.05)†			3.4	0.2	-
C.V.‡			4.0	1.6	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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Table 2a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Groups 1 at Bancroft, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Check	CHECK	1.4	66.1	10.0	1.0
Prairie Brand	PB-1566R2	1.5	65.8	9.7	1.0
Federal Hybrids	F147N RR2Y	1.4	65.5	9.7	1.0
Prairie Brand	PB-1947R2	1.9	65.4	10.0	1.0
Dairyland Seed	DSR-1950/R2Y	1.9	65.1	9.8	1.0
Renk	RS147NR2	1.4	65.1	9.7	1.0
Peterson Farms Seed	18X16N	1.6	64.2	9.8	1.0
Federal Hybrids	F154N RR2Y	1.5	63.9	9.8	1.0
Prairie Brand	PB-1376R2	1.3	63.9	9.8	1.0
Thunder Seed	3614 R2YN	1.4	63.8	9.5	1.0
Renk	RS168NX	1.6	63.7	9.9	1.0
Wensman	W1184NRX	1.8	63.6	10.0	1.0
Renk	RS188NX	1.8	62.6	10.1	1.0
Proseed	XT718N	1.8	62.4	10.0	1.0
Proseed	XT714N	1.4	62.4	10.0	1.0
Legacy Seeds	LS-1335N RR2	1.3	62.3	9.8	1.0
Peterson Farms Seed	18X13N	1.3	62.2	9.7	1.0
Wensman	W1165NRX	1.6	62.2	9.7	1.0
Legacy Seeds	LS-1638N RR2X	1.6	61.9	9.8	1.0
Prairie Brand	PB-1822R2	1.8	61.9	10.0	1.0
Legacy Seeds	LS-1134N RR2	1.1	61.8	9.7	1.0
Federal Hybrids	F1880N R2X	1.8	61.7	9.8	1.0
Peterson Farms Seed	18X14N	1.4	61.1	9.7	1.0
Prairie Brand	PB-1956R2	1.9	60.9	10.0	1.0
Dairyland Seed	DSR-1870/R2Y	1.8	60.9	9.8	1.0
Trial Average			61.4	9.8	1.0
LSD (0.05)†			3.1	0.3	-
C.V.‡			3.6	2.0	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Group 1 at Bancroft, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Proseed	XT716N	1.6	60.8	10.0	1.0
Peterson Farms Seed	18X11N	1.1	60.7	9.8	1.0
Renk	RS148NX	1.4	60.4	9.9	1.0
Prairie Brand	PB-1787R2	1.7	60.0	9.6	1.0
Dairyland Seed	DSR-1721/R2Y	1.7	59.7	10.0	1.0
Federal Hybrids	F1180N R2X	1.1	59.6	9.8	1.0
Thunder Seed	SB8811N	1.1	59.5	9.9	1.0
Federal Hybrids	F1680N R2X	1.6	59.0	10.0	1.0
Federal Hybrids	F1480N R2X	1.4	58.6	10.0	1.0
Peterson Farms Seed	17X18N	1.8	58.2	9.8	1.0
Legacy Seeds	LS-1138N RR2X	1.1	57.1	9.6	1.0
Thunder Seed	SB8710N	1.0	55.7	9.7	1.0
Wensman	W1173NRX	1.7	55.5	9.6	1.0
Legacy Seeds	LS-1136N RR2X	1.1	55.4	9.7	1.0
Legacy Seeds	LS-1338N RR2X	1.3	53.3	9.7	1.0
Trial Average			61.4	9.8	1.0
LSD (0.05)†			3.1	0.3	-
C.V.‡			3.6	2.0	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 3. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 2 at Bancroft, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Prairie Brand	PB-2419R2	2.4	70.8	11.8	1.3
Wensman	W1233RX	2.2	68.3	10.3	1.3
Prairie Brand	PB-2296R2	2.2	67.7	10.2	1.0
Federal Hybrids	F2170N R2X	2.1	67.3	10.2	1.3
Renk	RS207NX	2.0	66.6	10.3	1.0
Check	CHECK	1.4	66.6	9.7	1.0
Wensman	W1220NRX	2.2	66.1	10.3	1.0
Wensman	W1208NRX	2.0	65.4	10.3	1.5
Federal Hybrids	F2080N R2X	2.0	64.5	11.1	1.0
Federal Hybrids	F2280N R2X	2.2	64.1	10.4	1.3
Proseed	XT720N	2.0	63.5	10.8	1.0
Renk	RS208NX	2.0	63.3	11.2	1.0
Wensman	W1218NRX	2.1	63.3	11.1	1.3
Dairyland Seed	DSR-2110/R2Y	2.1	62.8	10.4	1.0
Trial Average			65.7	10.6	1.1
LSD (0.05)†			3.7	0.7	0.5
C.V.‡			3.9	4.7	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.



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2017 South Dakota Soybean Variety Trial Results - South Shore

Jonathan Kleinjan | SDSU Extension Crop Production Associate

Kevin Kirby | Agricultural Research Manager

Shawn Hawks | Agricultural Research Manager

Location: 8.5 miles west of South Shore (57263) in Codington County, SD
(GPS: 43.046221, -96.901055)

Cooperator: SDSU Northeast Research Farm - Allen Heuer, manager

Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slope

Fertilizer: None

Previous crop: Spring Wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 1 pt Dual II Magnum (s-metolachlor)

Post: 32 oz Roundup (glyphosate)

Insecticide: None

Date seeded: 5/26/2017

Date harvested: 10/18/2017

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Table 1. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 0 at South Shore, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Prairie Brand	PB-0987R2	0.9	70.0	10.5	1.0
Federal Hybrids	F087N RR2Y	0.8	69.9	10.6	1.0
Check	CHECK	1.4	67.7	10.5	1.0
Dairyland Seed	DSR-0988/R2Y	0.9	67.1	10.6	1.0
Wensman	W1060NRX	0.6	66.8	10.5	1.0
Renk	RS096NR2	0.9	66.8	10.6	1.0
Thunder Seed	SB8805N	0.5	66.6	10.2	1.0
Legacy Seeds	LS-0836N RR2X	0.8	66.5	10.8	1.0
Legacy Seeds	LS-0935N RR2	0.9	66.0	10.7	1.0
Titan Pro	TP-08X17	0.8	65.9	10.5	1.0
Dairyland Seed	DSR-0807/R2Y	0.8	65.9	10.2	1.0
Prairie Brand	PB-0777R2	0.7	65.9	10.6	1.0
Renk	RS078NX	0.7	65.3	10.5	1.0
Federal Hybrids	F0880N R2X	0.8	65.2	10.3	1.0
Peterson Farms Seed	17X09N	0.9	65.1	10.7	1.0
Peterson Farms Seed	18X08N	0.8	64.6	10.6	1.0
Thunder Seed	3408 R2YN	0.8	64.3	10.7	1.0
Wensman	W1086NRX	0.8	63.2	10.6	1.0
Wensman	W1074NRX	0.7	62.9	10.3	1.0
Thunder Seed	3606 R2YN	0.6	62.1	10.6	1.0
Titan Pro	TP-06X57	0.6	61.5	10.4	1.0
Thunder Seed	SB8703	0.3	59.4	10.3	1.5
Thunder Seed	SB8807N	0.7	57.6	10.5	1.0
Trial Average			65.1	10.5	1.0
LSD (0.05)†			2.5	0.2	0.2
C.V.‡			2.8	1.7	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 1 at South Shore, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Federal Hybrids	F154N RR2Y	1.5	72.2	10.3	1.0
Federal Hybrids	F147N RR2Y	1.4	70.4	10.2	1.5
Dairyland Seed	DSR-1526/R2Y	1.5	69.9	10.3	1.0
Check	CHECK	1.4	69.4	10.1	1.0
Prairie Brand	PB-1257R2	1.2	68.8	10.3	1.8
Titan Pro	TP-14X27	1.4	68.0	10.5	1.0
Federal Hybrids	F1680N R2X	1.6	68.0	10.3	1.0
Prairie Brand	PB-1566R2	1.5	67.8	10.2	1.0
Titan Pro	TP-18X97	1.8	67.8	11.1	1.5
Wensman	W1129NRX	1.2	67.8	10.2	1.3
Dairyland Seed	DSR-1120/R2Y	1.1	67.5	10.1	1.3
Renk	RS118NX	1.1	67.4	10.4	1.0
Wensman	W1140NRX	1.4	67.3	10.2	1.3
Federal Hybrids	F1480N R2X	1.4	67.2	10.4	1.0
Prairie Brand	PB-1376R2	1.3	67.2	10.2	1.3
Thunder Seed	SB8811N	1.1	67.1	10.5	1.0
Legacy Seeds	LS-1335N RR2	1.3	67.1	10.2	1.3
Legacy Seeds	LS-1638N RR2X	1.6	67.0	10.4	1.0
Dairyland Seed	DSR-1313/R2Y	1.3	66.9	10.2	1.8
Wensman	W1165NRX	1.6	66.7	10.5	1.0
Legacy Seeds	LS-1134N RR2	1.1	66.5	10.5	1.5
Titan Pro	TP-16X77	1.6	66.5	10.6	1.3
Dairyland Seed	DSR-1475/R2Y	1.4	66.5	10.2	1.0
Legacy Seeds	LS-1338N RR2X	1.3	66.4	10.1	1.0
Peterson Farms Seed	18X11N	1.1	66.4	10.4	1.3
Trial Average			66.9	10.4	1.2
LSD (0.05)†			2.6	0.2	0.5
C.V.‡			2.8	1.4	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

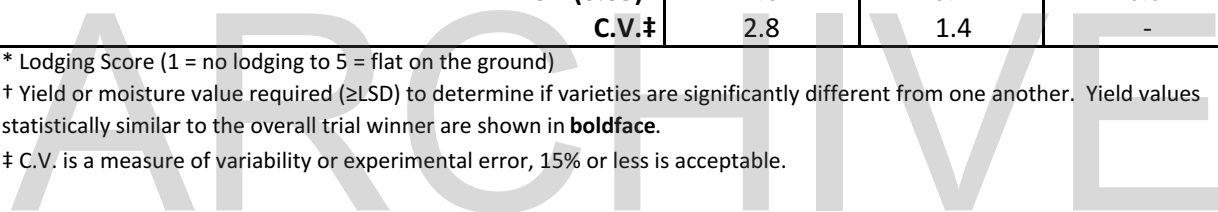
Table 2b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Group 1 at South Shore, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Prairie Brand	PB-1787R2	1.7	66.3	10.4	1.5
Thunder Seed	3614 R2YN	1.4	66.1	10.2	1.5
Prairie Brand	PB-1947R2	1.9	65.7	10.6	1.3
Wensman	W1121NRX	1.2	65.6	10.5	1.0
Titan Pro	TP-11X37	1.1	65.5	10.6	1.3
Federal Hybrids	F1180N R2X	1.1	64.9	10.5	1.0
Legacy Seeds	LS-1138N RR2X	1.1	64.4	10.2	1.0
Legacy Seeds	LS-1136N RR2X	1.1	63.8	10.5	1.0
Wensman	W1106NRX	1.0	62.2	10.4	1.0
Thunder Seed	SB8710N	1.0	61.2	10.4	1.0
Trial Average			66.9	10.4	1.2
LSD (0.05)†			2.6	0.2	0.5
C.V.‡			2.8	1.4	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.



Jonathan Kleinjan | SDSU Extension Crop Production Associate
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location: SDSU (57007) Brookings County, SD
(GPS: 44.319737, -96.771296)

Cooperator: SDSU Research Farm - Jack Ingemansen, manager

Soil Type: Barnes clay loam, 0-2% slopes

Fertilizer: None

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 1 pt Dual II Magnum (metolachlor)
Post: 32 oz Roundup Power Max (glyphosate)

Insecticide: None

Date seeded: 5/31/2017

Date harvested: 10/13/2017 (Group 0&1), 10/19/2017 (Group 2)

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Table 1. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 0 at Brookings, SD).					
Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Check	CHECK	1.4	64.9	10.2	1.0
Legacy Seeds	LS-0935N RR2	0.9	64.5	10.4	1.0
Legacy Seeds	LS-0836N RR2X	0.8	64.4	10.3	1.0
Thunder Seed	3408 R2YN	0.8	63.3	10.3	1.0
Thunder Seed	SB8807N	0.7	59.2	10.3	1.0
Thunder Seed	SB8805N	0.5	57.4	9.9	1.0
Thunder Seed	SB8703	0.3	56.9	10.0	2.5
Thunder Seed	3606 R2YN	0.6	54.5	10.2	1.0
Trial Average			60.7	10.2	1.2
LSD (0.05)†			2.7	0.2	0.3
C.V.‡			3.1	1.6	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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Table 2a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 1 at Brookings, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Stine	19BA23	1.9	72.6	11.0	1.0
Wensman	W1184NRX	1.8	70.4	10.5	1.5
Prairie Brand	PB-1787R2	1.7	69.9	9.8	1.3
Prairie Brand	PB-1956R2	1.9	69.0	11.1	1.8
Stine	18XB32	1.8	68.9	10.5	1.3
Federal Hybrids	F154N RR2Y	1.5	68.6	9.8	1.0
Prairie Brand	PB-1566R2	1.5	68.4	10.1	1.0
Renk	RS188NX	1.8	68.0	10.2	1.0
Dairyland Seed	DSR-1721/R2Y	1.7	68.0	10.1	1.8
Federal Hybrids	F1880N R2X	1.8	67.6	10.4	1.3
Dairyland Seed	DSR-1870/R2Y	1.8	67.6	10.3	1.0
Prairie Brand	PB-1822R2	1.8	67.2	10.0	1.0
Prairie Brand	PB-1947R2	1.9	67.1	10.1	1.3
Federal Hybrids	F1680N R2X	1.6	67.0	10.1	1.5
Titan Pro	TP-14X27	1.4	66.9	10.0	1.0
Titan Pro	TP-18X97	1.8	66.7	10.6	1.0
Check	CHECK	1.4	66.4	9.7	1.3
Titan Pro	TP-16X77	1.6	66.2	10.1	1.3
Peterson Farms Seed	18X14N	1.4	66.2	10.0	1.0
Peterson Farms Seed	18X11N	1.1	66.2	10.0	1.0
Thunder Seed	SB8710N	1.0	66.0	9.9	1.0
Wensman	W1140NRX	1.4	66.0	9.7	1.0
Legacy Seeds	LS-1335N RR2	1.3	65.9	9.6	1.0
Dairyland Seed	DSR-1950/R2Y	1.9	65.8	10.0	1.3
Thunder Seed	SB8811N	1.1	65.6	9.8	1.0
Legacy Seeds	LS-1338N RR2X	1.3	65.2	9.8	1.0
Peterson Farms Seed	17X18N	1.8	65.2	9.9	1.0
Wensman	W1165NRX	1.6	65.0	10.0	1.3
Legacy Seeds	LS-1138N RR2X	1.1	65.0	9.8	1.0
Renk	RS147NR2	1.4	64.9	9.8	1.3
Trial Average			66.2	10.0	1.2
LSD (0.05)†			2.8	0.4	0.5
C.V.‡			3.0	2.8	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Group 1 at Brookings, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Renk	RS147NR2	1.4	64.9	9.8	1.3
Peterson Farms Seed	18X16N	1.6	64.7	10.0	1.8
Wensman	W1173NRX	1.7	64.7	10.0	1.5
Stine	19RF32	1.9	64.5	10.0	1.0
Renk	RS168NX	1.6	64.0	10.0	1.8
Renk	RS148NX	1.4	64.0	9.9	1.0
Legacy Seeds	LS-1134N RR2	1.1	63.9	10.1	2.3
Thunder Seed	3614 R2YN	1.4	63.5	9.7	1.0
Peterson Farms Seed	18X13N	1.3	63.4	9.8	1.0
Legacy Seeds	LS-1638N RR2X	1.6	62.9	10.1	1.3
Legacy Seeds	LS-1136N RR2X	1.1	62.4	10.1	1.0
Stine	15BA30	1.5	62.2	10.2	1.0
Trial Average			66.2	10.0	1.2
LSD (0.05)†			2.8	0.4	0.5
C.V.‡			3.0	2.8	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 3. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 2 at Brookings, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Dairyland Seed	DSR-2110/R2Y	2.1	69.8	9.1	1.0
Renk	RS207NX	2.0	68.7	9.3	1.5
Wensman	W1208NRX	2.0	68.6	9.2	2.5
Credenz	CZ 2188 EXP	2.1	68.1	9.4	1.3
Titan Pro	TP-21X46	2.1	67.6	9.2	1.5
Prairie Brand	PB-2419R2	2.4	66.7	9.2	1.5
Titan Pro	TP-24X87	2.4	66.2	10.2	1.5
Prairie Brand	PB-2296R2	2.2	65.9	9.3	2.3
Titan Pro	TP-20X57	2.0	65.8	9.4	1.0
Federal Hybrids	F2280N R2X	2.2	65.5	9.2	1.0
Federal Hybrids	F2480N R2X	2.4	65.5	10.0	1.5
Federal Hybrids	F2170N R2X	2.1	65.5	9.2	1.8
Wensman	W1220NRX	2.2	65.3	9.2	1.3
Wensman	W1218NRX	2.1	65.1	9.5	1.5
Check	CHECK	1.4	63.7	9.1	1.0
Renk	RS208NX	2.0	63.1	9.4	1.0
Titan Pro	TP-24R26	2.4	62.8	9.3	1.3
Federal Hybrids	F2080N R2X	2.0	62.0	9.4	1.0
Trial Average			65.9	9.4	1.4
LSD (0.05)†			2.6	0.3	0.6
C.V.‡			2.8	2.2	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Jonathan Kleinjan | SDSU Extension Crop Production Associate

Kevin Kirby | Agricultural Research Manager

Shawn Hawks | Agricultural Research Manager

Location: 6 miles west and 3 miles south of Beresford (57432) in Clay county, SD
(GPS: 43.046221, -96.901055)

Cooperator: SDSU Southeast Research Farm - Peter Sexton, manager

Soil Type: Egan-Clarno-Trent complex, 1-6% slopes, non-irrigated

Fertilizer: None

Previous crop: Corn (cover crop: Rye)

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 32 oz Roundup Power Max (glyphosate) + 1.33 pt Dual (metolachlor) + 4 oz Sencor (metribuzin) + 1 oz Sharpen (saflufenacil)
Post: 0.3 oz FirstRate (cloransulam) + 10 oz Flexstar (fomesafen) + 4 oz Latch (drift retardant) + 1% UAN + 1% COC

Insecticide: None

Date seeded: 6/1/2017

Date harvested: 10/17/2017

Table 1. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 1 at Beresford, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Great Lakes Hybrids	1953NR2	1.9	80.3	10.9	1.0
Dairyland Seed	DSR-1950/R2Y	1.9	79.5	11.0	1.0
Check	CHECK	1.4	77.5	11.1	1.0
Thunder Seed	SB8811N	1.1	75.7	11.3	1.0
Thunder Seed	3614 R2YN	1.4	75.5	10.9	1.0
Peterson Farms Seed	18X16N	1.6	75.3	11.1	1.0
Peterson Farms Seed	17X18N	1.8	72.4	10.9	1.0
Thunder Seed	SB8710N	1.0	72.4	11.3	1.0
Trial Average			76.4	11.1	1.0
LSD (0.05)†			2.6	0.5	-
C.V.‡			2.4	3.1	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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Table 2a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 2 at Beresford, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Dairyland Seed	DSR-2616/R2Y	2.6	84.3	10.9	1.0
Prairie Brand	PB-2600R2	2.6	83.2	11.4	1.0
Titan Pro	TP-24X87	2.4	82.4	11.1	1.0
Wensman	W1208NRX	2.0	82.0	10.3	1.0
Great Lakes Hybrids	2063NRX	2.0	81.7	10.3	1.0
Credenz	CZ 2188 EXP	2.1	81.3	10.4	1.0
Renk	RS248NX	2.4	81.2	10.9	1.0
Prairie Brand	PB-2228R2	2.2	81.1	10.1	1.0
Renk	RS265NR2	2.6	80.6	10.8	1.0
Prairie Brand	PB-2197R2	2.1	80.0	10.3	1.0
Great Lakes Hybrids	2469R2	2.4	79.8	10.3	1.0
Titan Pro	TP-24R26	2.4	79.8	10.5	1.0
Stine	28BA02	2.8	79.3	11.3	1.0
Great Lakes Hybrids	2269NR2	2.2	79.2	10.4	1.0
Dyna-Gro	S23RY85	2.3	78.8	10.3	1.0
Prairie Brand	PB-2876R2	2.8	78.8	11.2	1.0
Great Lakes Hybrids	2870NRX	2.8	78.1	10.7	1.0
Stine	26BA32	2.6	78.1	10.7	1.0
Dairyland Seed	DSR-2330/R2Y	2.3	78.1	10.5	1.0
Wensman	W3228NR2	2.3	78.0	10.4	1.0
Peterson Farms Seed	17X21N	2.1	78.0	10.2	1.0
Prairie Brand	PB-2419R2	2.4	77.9	10.1	1.0
Great Lakes Hybrids	2673NRX	2.6	77.8	10.5	1.0
Prairie Brand	PB-2486R2	2.4	77.8	10.6	1.0
Wensman	W1233RX	2.2	77.6	10.3	1.0
Titan Pro	TP-21X46	2.1	77.4	10.2	1.0
Credenz	CZ 2558 EXP	2.5	77.1	10.9	1.0
Dyna-Gro	S26RS75	2.6	76.9	10.7	1.0
Prairie Brand	PB-2296R2	2.2	76.7	10.4	1.0
Titan Pro	TP-28X47	2.8	76.6	10.8	1.0
Trial Average			77.9	10.6	1.0
LSD (0.05)†			3.1	0.4	-
C.V.‡			2.8	2.6	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Group 2 at Beresford, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Dyna-Gro	S24RY87	2.4	76.4	10.5	1.0
Great Lakes Hybrids	2551NR2	2.5	75.9	10.4	1.0
Check	CHECK	1.4	75.7	10.5	1.0
Dairyland Seed	DSR-2110/R2Y	2.1	75.4	10.3	1.0
Wensman	W1218NRX	2.1	75.4	10.6	1.0
Titan Pro	TP-20X57	2.0	74.8	10.9	1.0
Wensman	W1220NRX	2.2	74.7	10.4	1.0
Titan Pro	TP-26X37	2.6	74.0	10.6	1.0
Great Lakes Hybrids	2372NRX	2.3	73.3	10.2	1.0
Peterson Farms Seed	18X23N	2.3	72.3	10.5	1.0
Renk	RS228NX	2.2	72.2	10.8	1.0
Stine	26XB32	2.6	70.6	10.5	1.0
Trial Average			77.9	10.6	1.0
LSD (0.05)†			3.1	0.4	-
C.V.‡			2.8	2.6	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Jonathan Kleinjan | SDSU Extension Crop Production Associate
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location: 3 miles south and 1 mile west of Miller (57362) in Beadle County, SD
(GPS: 44.473122, -99.003088)

Cooperator: Paul Fulton

Soil Type: Houdek-Prosper loams, 0-2% slopes

Fertilizer: 22-52-18-12S-5Z preplant

Previous crop: Corn

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 6 oz Authority Assist (sulfentrazone + imazethapyr), 32 oz RT3
(glyphosate), 8 oz LV6
Post: 32 oz Roundup Weathermax (glyphosate), 4 oz Vaquero (clethodim), 4 oz
Crosshair (drift retardant), 1 qt/100 gal Bronc Max

Insecticide: None

Date seeded: 5/30/2017

Date harvested: 10/12/2016

Table 1. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 0 at Miller, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Thunder Seed	3408 R2YN	0.8	49.7	9.6	1.0
Check	CHECK	1.4	49.3	9.5	1.0
Legacy Seeds	LS-0935N RR2	0.9	47.5	9.7	1.0
Legacy Seeds	LS-0836N RR2X	0.8	46.8	9.5	1.0
Thunder Seed	SB8807N	0.7	45.6	9.1	1.0
Thunder Seed	SB8805N	0.5	44.0	9.1	1.0
Thunder Seed	3606 R2YN	0.6	43.6	9.5	1.0
Thunder Seed	SB8703	0.3	40.8	9.0	1.0
Trial Average			45.9	9.4	1.0
LSD (0.05)†			4.8	0.3	-
C.V.‡			7.1	2.1	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 1 at Miller, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Peterson Farms Seed	18X13N	1.3	51.3	9.1	1.0
Legacy Seeds	LS-1338N RR2X	1.3	49.3	9.1	1.0
Renk	RS168NX	1.6	49.1	9.2	1.0
Wensman	W1165NRX	1.6	49.1	9.1	1.0
Legacy Seeds	LS-1134N RR2	1.1	48.8	9.0	1.0
Peterson Farms Seed	18X16N	1.6	48.6	9.2	1.0
Federal Hybrids	F154N RR2Y	1.5	48.0	8.8	1.0
Peterson Farms Seed	17X18N	1.8	47.7	9.1	1.0
Check	CHECK	1.4	47.4	9.0	1.0
Legacy Seeds	LS-1638N RR2X	1.6	47.4	9.1	1.0
Legacy Seeds	LS-1138N RR2X	1.1	47.2	9.0	1.0
Thunder Seed	3614 R2YN	1.4	47.1	8.8	1.0
Legacy Seeds	LS-1136N RR2X	1.1	47.1	9.1	1.0
Prairie Brand	PB-1822R2	1.8	46.5	9.2	1.0
Renk	RS147NR2	1.4	46.4	8.8	1.0
Prairie Brand	PB-1566R2	1.5	46.2	9.0	1.0
Prairie Brand	PB-1376R2	1.3	46.1	9.0	1.0
Prairie Brand	PB-1947R2	1.9	46.0	9.3	1.0
Wensman	W1140NRX	1.4	45.9	8.9	1.0
Thunder Seed	SB8811N	1.1	45.8	9.1	1.0
Federal Hybrids	F147N RR2Y	1.4	45.7	9.2	1.0
Dairyland Seed	DSR-1950/R2Y	1.9	45.6	9.0	1.0
Peterson Farms Seed	18X14N	1.4	45.4	9.4	1.0
Dairyland Seed	DSR-1870/R2Y	1.8	44.6	9.2	1.0
Proseed	XT716N	1.6	44.6	9.1	1.0
Trial Average			45.4	9.1	1.0
LSD (0.05)†			4.6	0.4	-
C.V.‡			7.3	2.8	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Group 1 at Miller, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Proseed	XT714N	1.4	44.4	9.1	1.0
Peterson Farms Seed	18X11N	1.1	43.9	9.0	1.0
Wensman	W1184NRX	1.8	43.9	9.1	1.0
Dairyland Seed	DSR-1721/R2Y	1.7	43.7	9.3	1.0
Proseed	XT718N	1.8	43.4	8.9	1.0
Federal Hybrids	F1180N R2X	1.1	42.8	9.0	1.0
Federal Hybrids	F1480N R2X	1.4	42.4	9.2	1.0
Renk	RS148NX	1.4	42.4	9.3	1.0
Federal Hybrids	F1680N R2X	1.6	42.3	9.0	1.0
Prairie Brand	PB-1787R2	1.7	42.2	9.0	1.0
Thunder Seed	SB8710N	1	41.9	9.0	1.0
Legacy Seeds	LS-1335N RR2	1.3	40.3	9.0	1.0
Federal Hybrids	F1880N R2X	1.8	38.4	9.0	1.0
Renk	RS188NX	1.8	37.6	9.0	1.0
Trial Average			45.4	9.1	1.0
LSD (0.05)†			4.6	0.4	-
C.V.‡			7.3	2.8	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 3. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 2 at Miller, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Renk	RS207NX	2.0	47.3	9.0	1.0
Check	CHECK	1.4	46.3	8.9	1.0
Dairyland Seed	DSR-2110/R2Y	2.1	45.8	9.1	1.0
Credenz	CZ 2188 EXP	2.1	45.1	9.0	1.0
Wensman	W1208NRX	2.0	44.7	9.0	1.0
Federal Hybrids	F2170N R2X	2.1	43.1	9.0	1.0
Proseed	XT720N	2.0	42.8	9.2	1.0
Renk	RS208NX	2.0	42.4	9.1	1.0
Wensman	W1218NRX	2.1	42.4	9.1	1.0
Wensman	W1220NRX	2.2	41.8	9.1	1.0
Federal Hybrids	F2080N R2X	2.0	41.4	9.2	1.0
Federal Hybrids	F2280N R2X	2.2	39.9	9.1	1.0
Trial Average			43.5	9.1	1.0
LSD (0.05)†			4.2	0.2	-
C.V.‡			6.9	1.3	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Jonathan Kleinjan | SDSU Extension Crop Production Associate

Kevin Kirby | Agricultural Research Manager

Shawn Hawks | Agricultural Research Manager

Beresford

Location: 6 miles west and 3 miles south of Beresford (57432) in Clay county, SD
(GPS: 43.046221, -96.901055)

Cooperator: SDSU Southeast Research Farm - Peter Sexton, manager

Soil Type: Egan-Clarno-Trent complex, 1-6% slopes, non-irrigated

Fertilizer: None

Previous crop: Corn (cover crop: Rye)

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 32 oz Roundup Power Max (glyphosate) + 1.33 pt Dual (metolachlor) + 4 oz
Sencor (metribuzin) + 1 oz Sharpen (saflufenacil)
Post: 0.3 oz FirstRate (cloransulam) + 10 oz Flexstar (fomesafen) + 4 oz Latch
(drift retardant) + 1% UAN + 1% COC

Insecticide: None

Date seeded: 6/1/2017

Date harvested: 10/17/2017

Table 1. Liberty Link soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 1 at Beresford, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Peterson Farms Seed	L17-16N	1.7	75.0	9.9	1.0
Check	CHECK	1.4	73.2	9.9	1.0
Credenz	CZ 1332 LL	1.3	73.0	10.0	1.0
Thunder Seed	5712 LLN	1.2	72.8	9.9	1.0
Thunder Seed	5717 LLN	1.7	72.6	10.0	1.0
Great Lakes Hybrids	1769NLL	1.7	72.4	10.1	1.0
Miller Hybrids	17269LL	1.7	72.4	9.8	1.0
Credenz	CZ 1738 LL	1.7	69.2	10.1	1.0
Thunder Seed	5411 LLN	1.1	63.6	9.6	1.0
Trial Average			71.6	9.9	1.0
LSD (0.05)†			3.7	0.2	-
C.V.‡			3.6	1.4	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Liberty Link soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 2 at Beresford, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Stine	24LJ20	2.5	77.1	9.7	1.0
Credenz	CZ 2601 LL	2.6	76.6	9.7	1.0
Miller Hybrids	25159LL	2.5	76.2	9.6	1.0
Great Lakes Hybrids	2557NLL	2.5	75.7	9.7	1.0
Credenz	CZ 2101 LL	2.1	75.4	9.6	1.0
Credenz	CZ 2312 LL	2.3	75.1	9.3	1.0
Great Lakes Hybrids	2860NLL	2.8	74.1	10.4	1.0
Stine	26LH02	2.6	73.9	9.8	1.0
Great Lakes Hybrids	2264NLL	2.2	73.7	9.6	1.0
Stine	25LH62	2.5	73.7	9.6	1.0
Miller Hybrids	23159LL	2.3	73.7	9.4	1.0
Credenz	CZ 2510 LL	2.5	73.4	9.5	1.0
Peterson Farms Seed	L21-17N	2.1	73.1	9.6	1.0
Check	CHECK	1.4	71.2	9.6	1.0
Trial Average			74.5	9.6	1.0
LSD (0.05)†			2.9	0.3	-
C.V.‡			2.7	2.1	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Brookings

Location: SDSU (57007) Brookings County, SD
(GPS: 44.319737, -96.771296)

Cooperator: SDSU Research Farm - Jack Ingemansen, manager

Soil Type: Barnes clay loam, 0-2% slopes

Fertilizer: None

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 1 pt Dual II Magnum (metolachlor)
Post: 0.125 oz Harmony SG (thifensulfuron)

Insecticide: None

Date seeded: 5/31/2017

Date harvested: 10/19/2017

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Table 3. Liberty Link soybean variety performance results (average of 4 replications sorted by yield) - Maturity Groups 0 & 1 at Brookings, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Thunder Seed	5717 LLN	1.7	69.0	9.1	1.8
Credenz	CZ 1332 LL	1.3	67.4	9.3	1.0
Stine	19LI32	1.9	67.4	9.3	2.3
Credenz	CZ 1738 LL	1.7	67.0	9.1	2.3
Credenz	CZ 1201 LL	1.2	67.0	9.1	2.3
Check	CHECK	1.4	66.9	8.8	1.0
Peterson Farms Seed	L17-16N	1.7	66.4	9.1	2.0
Stine	17LH62	1.7	65.3	9.2	2.0
Thunder Seed	5712 LLN	1.2	65.0	9.1	2.0
Miller Hybrids	13269LL	1.3	64.8	9.2	1.8
Peterson Farms Seed	L12-16N	1.2	64.7	9.1	2.0
Credenz	CZ 1028 LL	1.0	64.5	9.2	1.0
Miller Hybrids	17269LL	1.7	63.4	9.0	1.3
Stine	13LH62	1.4	63.0	9.1	2.0
Peterson Farms Seed	L13-15N	1.3	62.8	9.1	1.0
Thunder Seed	5605 LLN	0.5	61.8	9.1	2.3
Thunder Seed	5411 LLN	1.1	61.5	8.9	1.5
Thunder Seed	5707 LLN	0.7	58.7	9.3	1.0
Trial Average			64.8	9.1	1.7
LSD (0.05)†			3.1	0.2	0.7
C.V.‡			3.4	1.6	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 4. Liberty Link soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 2 at Volga, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Credenz	CZ 2601 LL	2.6	70.8	9.5	1.3
Credenz	CZ 2312 LL	2.3	68.1	9.1	1.3
Miller Hybrids	23159LL	2.3	67.8	9.1	1.3
Credenz	CZ 2510 LL	2.5	67.1	9.3	1.3
Miller Hybrids	25159LL	2.5	66.9	9.4	1.0
Credenz	CZ 2101 LL	2.1	66.1	9.1	1.3
Check	CHECK	1.4	65.9	9.0	1.0
Trial Average			67.5	9.2	1.2
LSD (0.05)†			2.1	0.2	0.4
C.V.‡			2.1	1.7	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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South Shore

Location: 8.5 miles west of South Shore (57263) in Codington County, SD
(GPS: 45.106822, -97.099983)

Cooperator: SDSU Northeast Research Farm - Allen Heuer, manager

Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slope

Fertilizer: None

Previous crop: Spring Wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 1 pt Dual II Magnum (s-metolachlor)
Post: 0.125 oz Harmony SG (thifensulfuron)

Insecticide: None

Date seeded: 5/26/2017

Date harvested: 10/18/2017

Table 5. Liberty Link soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 0 at South Shore, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Check	CHECK	1.4	69.4	9.9	1.0
Credenz	CZ 0525 LL	0.5	66.2	9.9	1.0
Credenz	CZ 0601 LL	0.6	66.0	10.3	1.0
Thunder Seed	5707 LLN	0.7	64.3	10.4	1.0
Thunder Seed	5605 LLN	0.5	63.5	10.0	1.0
Credenz	CZ 0448 LL	0.4	62.3	10.3	1.0
Trial Average			65.2	10.1	1.0
LSD (0.05)†			2.8	0.3	-
C.V.‡			2.9	2.2	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 6. Liberty Link soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 1 at South Shore, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Credenz	CZ 1332 LL	1.3	71.9	10.4	1.0
Credenz	CZ 1738 LL	1.7	71.4	10.2	1.5
Proseed	41-30	1.3	70.1	10.2	1.0
Credenz	CZ 1028 LL	1	69.7	10.3	1.0
Peterson Farms Seed	L17-16N	1.7	69.2	10.1	1.3
Peterson Farms Seed	L12-16N	1.2	68.7	10.1	1.5
Credenz	CZ 1201 LL	1.2	68.6	10.1	1.5
Peterson Farms Seed	L11-18N	1.1	68.3	11.1	1.0
Check	CHECK	1.4	68.1	9.9	1.0
Proseed	51-21	1.2	67.6	10.2	1.5
Thunder Seed	5717 LLN	1.7	67.4	10.2	1.8
Miller Hybrids	11269LL	1.1	67.3	10.2	1.3
Peterson Farms Seed	L13-15N	1.3	66.8	13.9	1.0
Thunder Seed	5712 LLN	1.2	65.2	10.5	1.5
Miller Hybrids	13269LL	1.3	63.6	10.5	1.3
Proseed	21-00	1.1	60.7	9.9	1.0
Thunder Seed	5411 LLN	1.1	57.7	9.8	1.0
Trial Average			67.2	10.4	1.2
LSD (0.05)†			3.2	2.6	0.5
C.V.‡			3.3	1.8	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Jonathan Kleinjan | SDSU Extension Crop Production Associate
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Beresford

Location: 6 miles west and 3 miles south of Beresford (57432) in Clay county, SD
(GPS: 43.046221, -96.901055)

Cooperator: SDSU Southeast Research Farm - Peter Sexton, manager

Soil Type: Egan-Clarno-Trent complex, 1-6% slopes, non-irrigated

Fertilizer: None

Previous crop: Corn (cover crop: Rye)

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 32 oz Roundup Power Max (glyphosate) + 1.33 pt Dual (metolachlor) + 4 oz Sencor (metribuzin) + 1 oz Sharpen (saflufenacil)
Post: 0.3 oz FirstRate (cloransulam) + 10 oz Flexstar (fomesafen) + 4 oz Latch (drift retardant) + 1% UAN + 1% COC

Insecticide: None

Date seeded: 6/1/2017

Date harvested: 10/17/2017

Table 1. Conventional soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 1 at Beresford, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Oil %	Lodging Score (1-5)*
Check	CHECK	1.4	73.2	9.9	1.0
Miller	1968	1.9	70.4	10.4	1.0
Halls Seed	HBK69BL	1.9	69.8	10.0	1.0
SD AES	BROOKINGS	1.7	68.2	10.1	1.0
Brushvale	BS1512	1.5	66.8	9.8	1.8
MN AES	MN1613CN	1.6	66.4	10.0	1.5
Halls Seed	H69P2	1.9	65.8	9.9	1.0
MN AES	MN1806CN	1.8	65.1	9.9	1.0
MN AES	MN1312CN	1.3	60.8	9.7	1.0
Brushvale	BS1146	1.1	60.2	10.1	1.0
Richland IFC	MK41	1.4	55.4	10.2	1.0
Richland IFC	MK9101	1.0	52.9	10.5	1.0
Richland IFC	MK1016	1.0	50.4	10.2	3.0
Trial Average			63.5	10.0	1.3
LSD (0.05)†			2.6	0.2	0.3
C.V.‡			2.9	1.5	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Conventional soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 2 at Beresford, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Great Lakes Hybrids	GL2765N	2.7	78.0	9.9	1.0
Great Lakes Hybrids	GL2254N	2.2	75.8	10.1	1.0
Ag Performance	AP 2718	2.7	75.4	9.8	1.0
Viking	O.2188AT12N	2.5	75.2	9.9	2.0
Viking	2155N	2.1	74.6	10.1	1.0
Ag Performance	AP 2215	2.2	74.4	9.9	1.0
Ag Performance	AP 2218	2.2	73.7	9.8	1.0
Miller Hybrids	2668	2.6	72.7	9.3	1.0
Ag Performance	AP 2918	2.9	71.5	11.1	1.0
Check	CHECK	1.4	71.2	9.6	1.0
Viking	2322N	2.3	70.6	9.9	2.0
Viking	O.2446	2.4	69.3	9.8	1.0
SD AES	DAVISON	2.2	69.1	9.8	1.3
Miller Hybrids	2368	2.3	68.3	9.9	1.5
Richland IFC	MK373	2	66.9	10.1	1.0
Viking	O.2023	2	64.9	9.9	1.0
Trial Average			72.0	9.9	1.2
LSD (0.05)†			2.6	0.4	0.3
C.V.‡			2.5	2.6	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Brookings

Location: SDSU (57007) Brookings County, SD
(GPS: 44.319737, -96.771296)

Cooperator: SDSU Research Farm - Jack Ingemansen, manager

Soil Type: Barnes clay loam, 0-2% slopes

Fertilizer: None

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 1 pt Dual II Magnum (metolachlor)
Post: 0.125 oz Harmony SG (thifensulferon)

Insecticide: None

Date seeded: 5/31/2017

Date harvested: 10/19/2017

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Table 3. Conventional soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 0 at Brookings, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Check	CHECK	1.4	65.1	9.2	1.0
SD AES	ROBERTS	0.6	58.0	9.2	2.3
SD AES	CODINGTON	0.9	55.6	9.6	1.0
Richland IFC	MK808CN	0.8	52.5	9.7	3.5
MN AES	MN0810CN	0.8	51.5	9.3	3.0
Richland IFC	MK0603	0.6	51.2	9.4	4.3
Richland IFC	MK0508	0.8	49.6	9.5	4.5
Richland IFC	MK42	0.7	44.3	9.4	3.3
Trial Average			53.5	9.4	2.8
LSD (0.05)†			3.8	0.3	0.8
C.V.‡			4.8	2.0	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 4. Conventional soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 2 at Brookings, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Viking	2155N	2.1	67.5	9.6	1.3
Ag Performance	AP 2215	2.2	67.3	9.8	1.5
Check	CHECK	1.4	65.9	9.0	1.0
Miller Hybrids	2368	2.3	61.7	9.4	3.0
Ag Performance	AP 2218	2.2	59.1	9.3	1.3
SD AES	DAVISON	2.2	59.0	9.2	1.0
Richland IFC	MK373	2.0	58.0	9.3	1.3
Viking	O.2023	2.0	56.9	9.2	1.0
Trial Average			61.9	9.3	1.4
LSD (0.05)†			2.9	0.3	0.4
C.V.‡			3.1	1.9	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 5. Conventional soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 1 at Brookings, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Check	CHECK	1.4	66.9	8.8	1.0
Viking	1518N	1.5	65.3	9.0	1.0
Ag Performance	AP 1515	1.5	65.2	9.0	1.0
Halls Seed	HBK69BL	1.9	63.6	8.9	1.5
Halls Seed	H69P2	1.9	63.2	8.9	1.0
Viking	1218N	1.2	62.8	8.9	1.0
Viking	O.1202N	1.2	61.7	8.8	1.3
SD AES	BROOKINGS	1.7	61.4	9.1	1.5
MN AES	MN1613CN	1.6	60.8	9.0	2.3
Ag Performance	AP 1816	1.8	60.7	9.3	2.5
Richland IFC	MK41	1.4	60.3	9.1	1.0
Ag Performance	AP 1216	1.2	58.9	8.8	1.0
Miller Hybrids	1968	1.9	58.6	9.6	1.3
Brushvale	BS1146	1.1	58.4	9.2	1.0
MN AES	MN1806CN	1.8	56.8	9.5	3.0
Brushvale	BS1512	1.4	56.3	8.8	1.8
MN AES	MN1312CN	1.3	54.3	8.9	1.0
Richland IFC	MK9101	1.0	44.1	10.0	1.5
Richland IFC	MK1016	1.0	41.5	9.2	2.0
Trial Average			59.0	9.1	1.4
LSD (0.05)†			3.4	0.3	0.7
C.V.‡			4.1	2.2	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

South Shore

Location: 8.5 miles west of South Shore (57263) in Codington County, SD
(GPS: 45.106822, -97.099983)

Cooperator: SDSU Northeast Research Farm - Allen Heuer, manager

Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slope

Fertilizer: None

Previous crop: Spring Wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 1 pt Dual II Magnum (s-metolachlor)
Post: 0.125 oz Harmony SG (thifensulfuron)

Insecticide: None

Date seeded: 5/26/2017

Date harvested: 10/18/2017

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Table 6. Conventional soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 0 at South Shore, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Check	CHECK	1.4	69.4	9.9	1.0
SD AES	ROBERTS	0.6	62.8	9.8	1.3
SD AES	CODINGTON	0.9	61.0	10.3	1.3
MN AES	MN0810CN	0.8	59.1	10.1	2.0
Richland IFC	MK0603	0.6	55.5	10.3	3.0
Richland IFC	MK808CN	0.8	53.4	10.4	1.5
Richland IFC	MK0508	0.8	52.8	10.5	2.8
Richland IFC	MK42	0.7	52.6	10.0	1.5
Trial Average			58.3	10.2	1.8
LSD (0.05)†			2.1	0.2	0.6
C.V.‡			2.5	1.3	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 7. Conventional soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 1 at South Shore, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Check	CHECK	1.4	68.1	9.9	1.0
MN AES	MN1613CN	1.6	66.5	10.0	1.3
Ag Performance	AP 1515	1.5	65.3	10.0	1.0
Ag Performance	AP 1216	1.2	65.2	9.9	1.0
Viking	O.1202N	1.2	65.0	9.8	1.0
Miller Hybrids	1268	1.2	64.8	10.0	1.0
Viking	1218N	1.2	64.8	9.9	1.0
Viking	1518N	1.5	64.7	10.1	1.3
Halls Seed	H69P2	1.9	62.7	10.3	1.5
Richland IFC	MK41	1.4	62.5	10.1	1.0
Brushvale	BS1146	1.1	60.9	10.0	1.0
Halls Seed	HBK69BL	1.9	60.8	10.3	1.5
SD AES	BROOKINGS	1.7	60.5	10.1	1.0
Ag Performance	AP 1816	1.8	59.9	10.9	1.3
MN AES	MN1806CN	1.8	59.3	10.8	1.5
MN AES	MN1312CN	1.3	58.2	9.9	1.0
Brushvale	BS1512	1.4	58.1	9.9	1.0
Richland IFC	MK9101	1.0	47.9	10.9	1.3
Richland IFC	MK1016	1.0	45.6	10.3	1.5
Trial Average			61.1	10.2	1.2
LSD (0.05)†			2.6	0.3	0.5
C.V.‡			3.0	1.8	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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