

1989

EC89-104 Nebraska Soybean Variety Tests 1989

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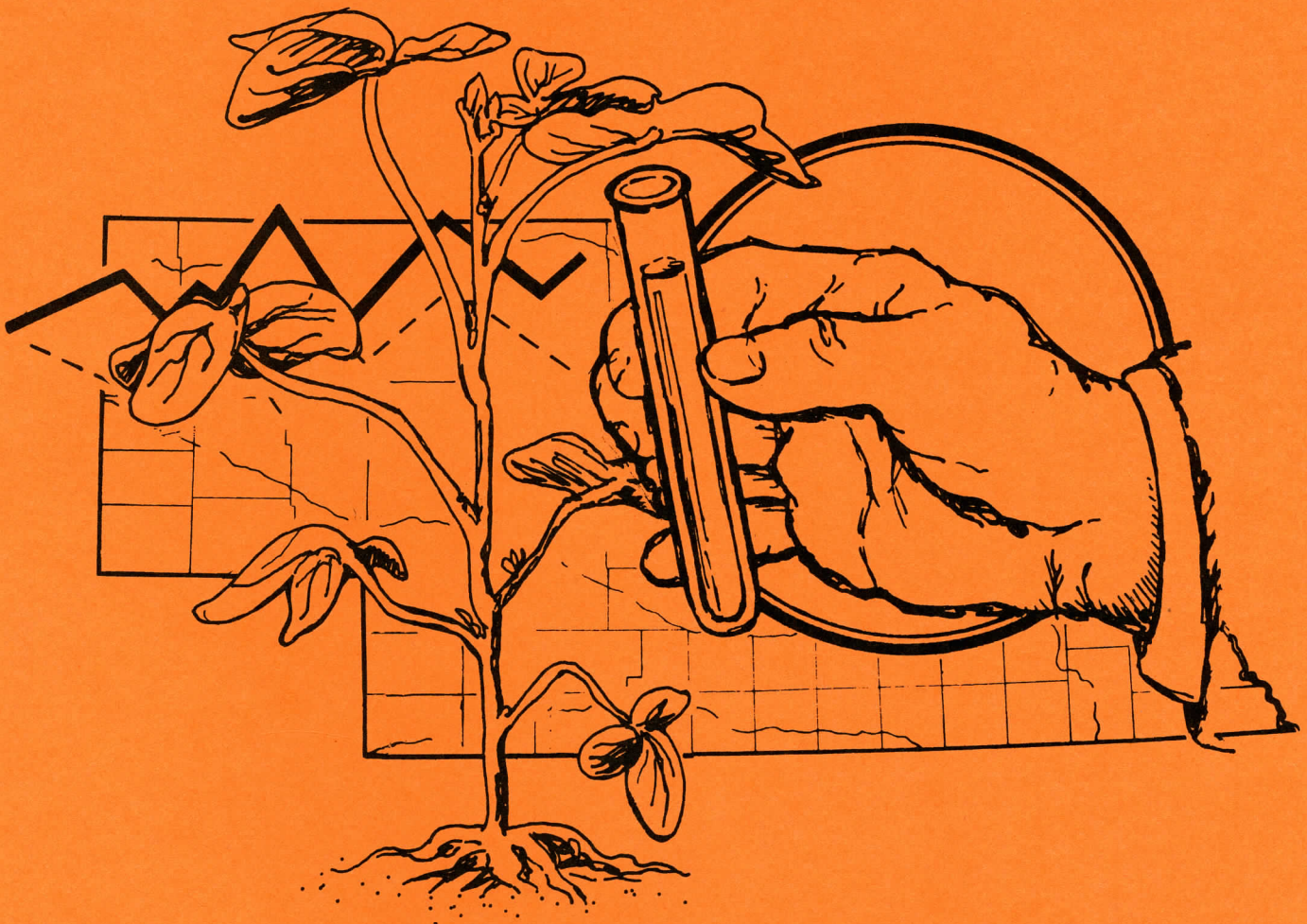
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NEBRASKA SOYBEAN VARIETY TESTS

1989

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NEBRASKA SOYBEAN VARIETY TESTS

January 1990

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sprinkler irrigation experiments established by the West Central Research and Extension Center. The Soybean check-off grants were used to fund the protein and oil analysis. Acknowledgment is made to farmers who furnished land for experiments; also to extension agents and other I.A.N.R. personnel who assisted with the tests.

This is the first year for the off-station sites in the North Platte area. Bob Klein has made a significant contribution to this year's data with Rock, Furnas, and Perkins County locations.

The authors wish to recognize the contributions of the technical staff, John Eis, Patrick Tenopir, Ray Brentlinger, Robert Hendrickson, George Hoffmeister, and Don Thrailkill.

METRIC EQUIVALENTS

1 centimeter	= 0.394 inches	cm	= inches x 2.54
1 hectare	= 2.471 acres	ha	= acres x 0.405
1 kilogram	= 2.205 pounds	kg	= pounds x 0.454
1 hectoliter	= 2.838 bushels	hl	= bushels x 0.352

Kilogram/hectare (kg/ha) = bu/A x 67.26 (60# bushel)

NEBRASKA SOYBEAN PRODUCTION

The following data were obtained from Nebraska Agricultural Statistics.
In 1940, 13,000 acres of soybeans also were cut for hay.

Year	Harvested acres (ha) 000	Average yield bushels (kg/ha)	Production Bushels (metric tons) 000
1940	4 (2)	14.0 (942)	56 (2)
1950	50 (20)	24.0 (1614)	1,200 (33)
1955	180 (73)	10.5 (706)	1,890 (51)
1956	146 (59)	11.5 (773)	1,679 (46)
1957	142 (58)	26.0 (1749)	3,692 (101)
1958	206 (83)	29.0 (1951)	5,974 (163)
1959	146 (59)	24.0 (1614)	3,504 (95)
1960	164 (66)	28.0 (1883)	4,592 (125)
1961	292 (118)	25.5 (1715)	7,446 (203)
1962	310 (126)	27.0 (1816)	8,370 (228)
1963	356 (144)	28.5 (1917)	10,146 (276)
1964	523 (212)	22.0 (1480)	11,506 (313)
1965	696 (282)	23.5 (1581)	16,356 (446)
1966	745 (302)	29.5 (1984)	21,978 (599)
1967	782 (317)	22.5 (1513)	17,595 (479)
1968	782 (317)	23.5 (1581)	18,377 (501)
1969	766 (310)	33.5 (2253)	25,661 (699)
1970	812 (329)	22.0 (1480)	17,864 (487)
1971	609 (247)	25.0 (1682)	15,225 (415)
1972	746 (302)	33.0 (2220)	24,618 (671)
1973	1,210 (490)	30.0 (2018)	36,300 (989)
1974	1,190 (482)	24.0 (1614)	28,560 (778)
1975	1,200 (486)	27.0 (1816)	32,400 (883)
1976	980 (397)	20.0 (1345)	19,600 (534)
1977	1,300 (458)	36.0 (2421)	40,680 (1108)
1978	1,250 (506)	34.0 (2287)	42,500 (1158)
1979	1,610 (652)	34.0 (2287)	54,740 (1491)
1980	1,770 (717)	30.0 (2018)	53,100 (1446)
1981	2,070 (838)	38.0 (2566)	78,660 (2143)
1982	2,250 (911)	35.0 (2354)	78,750 (2146)
1983	2,070 (838)	28.5 (1917)	58,995 (1607)
1984	2,550 (1033)	26.0 (1748)	66,300 (1804)
1985	2,360 (956)	36.0 (2421)	84,960 (2312)
1986	2,450 (992)	38.0 (2555)	93,100 (2534)
1987	2,350 (952)	35.5 (2388)	83,425 (2270)
1988	2,300 (932)	30.0 (2018)	69,000 (1877)
1989 1	2,550 (1033)	30.0 (2018)	76,500 (2082)

1 November 1 estimate.

EXTENSION CIRCULAR

89-104

CONTENTS

Procedure	5
Cultural Practices.	7
Test Locations	8
Entries	10
Entrants	12
Performance by years	13
 Data Tables	
<u>Northeast Region</u>	
Northeast early 1989	14
Northeast early 1985-1989	16
Northeast late 1988	18
Northeast late 1985-1989	20
<u>East Central Region</u>	
East Central early 1989	22
East Central early 1985-1989	24
East Central late 1989	26
East Central late 1983-1989	28
<u>Southeast Region</u>	
Southeast early 1989	30
Southeast early 1985-1989	32
Southeast late 1989	34
Southeast late 1985-1989	36
<u>South Central Region</u>	
South Central irrigated two tests early 1989	38
South Central irrigated early 1985-1989	40
South Central irrigated two tests late 1989	42
South Central irrigated late 1985-1989	44
<u>Central Region</u>	
Central Irrigated Early 1989	46
Central Irrigated Late 1989	48
<u>West Central Region</u>	
West Central Two Tests 1989	49
<u>North Central Region</u>	
North Central Test 1989	50

NEBRASKA SOYBEAN VARIETY TESTS

1989

The 1989 estimated soybean yield for Nebraska was 30 bushels per acre from 2,550,000 harvested acres. The yield was low because of the hot dry summer. The total production of soybeans for the state was 76,500,000 bushels.

The crop was planted ahead of normal. The growing season was slightly behind

normal because of drought. Cool weather in late August and early September slowed maturing down. Along with the cool weather, scattered rains in Southeastern Nebraska slowed maturity. Harvest was behind normal because of the cool weather and drought.

PROCEDURE

Data were obtained from 15 trials at 9 locations (Table A). Publicly-released entries were included at all sites. Privately developed varieties or blends were included in trials at all locations. Privately developed varieties were selected by the seed producer. At many locations, entries were divided into early and late for convenience in handling. A list of entries by brand name is shown in Table B. Names and addresses of entrants are shown in Table C.

Entries usually were planted in four-row plots 15 to 35 feet long. Plots were replicated four times in a randomized complete block design. A planting rate of 8.5 seeds per foot in 30-inch rows (148,100 seeds per acre) was used unless a higher or lower rate was requested by the entrant. Hobbit, Hoyt and Ripley were planted at a 13 seeds per foot rate.

At harvest, two rows 10 to 30 feet long were threshed for yield. Reported yields are corrected to 13% moisture. Plots were rated mature when 95% of the pods had

turned brown. Plant height was measured in inches from the soil surface to the top node of the main stem. Lodging scores were based on a 1 to 5 scale where 1 = all plants erect and 5 = all plants flat. Seeds per pound or grams per 100 seeds data are reported for some locations. Seeds per pound = $453.6 \times 100 \times$ grams per 100 seeds. Protein and oil content were obtained at many locations in 1989. These are reported on a 13% moisture basis and will appear lower than many reported figures. Conversions can be made to 0% by multiplying the protein or oil by 1.15. Estimated Processed Value per Bushel (EPVB) is calculated from the protein and oil content and the January, 1990 Chicago Board of Trade futures prices for soybean oil (\$0.193/lb.) and 44 percent protein soybean meal (\$183.10/ton) on Sept. 1 1989. To obtain EPVA (Estimated Processed Value per Acre) calculate by multiplying the yield (bu/acre) times the EPVB value. The Iowa State University Grain Quality Laboratory did the protein and oil content analyses, our thanks to Iowa State University.

PERFORMANCE

Entries generally are listed in tables in order of decreasing yield. Average performance of varieties included in trials for five years in each area is shown in Table D. These data give an indication of year effects on yield, maturity, lodging,

plant height and seed size. From these data, it is quite apparent that the drought of 1989 had considerable effect on yield and seed size of the non irrigated locations.

Performance of entries cannot be

measured with absolute accuracy because of variations in moisture, soil fertility and other factors. For this reason small yield differences have little significance. Differences required for significance are shown in each table at the 5% and 25% levels. This means that differences this great would be expected through chance alone in 1 of 20 or 1 of 4 trials, respectively.

Many soybean varieties have similar yield potentials. Early-maturing varieties are

favored in some seasons and later-maturing varieties in others. Period-of-years averages provide a measure of performance over a range of environmental conditions.

This was the ninth year that privately developed entries were included in these trials. Period-of-years data for varieties included for two-, three-, four-, and five-years are reported.

RESULTS AT INDIVIDUAL LOCATIONS

Northeast (Tables 1A and 2A)

Rainfall was generally short during the entire growing season. However, timely rain a few days after planting assured seed emergence and generally uniform stands. The growing season was relatively mild as to temperatures. An early freeze caught many of the late varieties ahead of ripened pod color but most varieties were physiologically mature. The freeze delayed uniform ripening of pods.

East Central (Tables 3A & 4A)

The yields were real good for a dryland plot. Rain two days prior to planting assured good germination but did cause some crusting. Timely rains throughout the growing season and when the pods were filling helped boost the yields. A rain followed by strong winds in the fall caused a considerable amount of lodging.

Southeast (Tables 5A & 6A)

Emergence was not good due to soil crusting after planting. Hot, dry conditions during summer reduced yields. Plant heights were short but had very little lodging. Maturity was slowed because of drought in the summer and rain followed by cool weather in the fall. A light frost also delayed normal maturing of the later varieties.

South Central Irrigated (Tables 7A & 8A)

In Clay County due to dry soil conditions at planting time the ridge was shaved off prior to planting with a Buffalo ridge runner. Yields in Clay County were good due to irrigation.

In Fillmore County, average yields were in near 60 bushels per acre. Here as in Clay County irrigation helped boost yields.

Central Irrigated (Tables 7C & 8C)

Yields were good due to irrigation. There was some variability due to irrigation, yields were adjusted using plant heights and field location.

West Central Irrigated (Table 9A)

In Furnas County extremely dry conditions after planting hurt emergence. Irrigation raised yields in this drought-stricken area. In Perkins County the yields were not good due to drought, a late spring frost, and an early fall frost.

North Central Irrigated (Table 9C)

Shorter than normal season, cool August (especially at night), and an early frost hurt yields.

CULTURAL PRACTICES

Dixon: Previous crop was corn. Herbicides used were Treflan at 0.75 lbs./A soil incorporated, Poast at 0.2 lbs./A applied postemergence for additional grass control.

Dodge: Cropping history: 1987: soybeans 1988: corn. Herbicides used were Lasso 2.5 qts./A and Lexon 8 oz./A. This test was cultivated one time and hand weeded.

Otoe: Cropping history: 1987: soybeans 1988: corn. Herbicide used Sencor 0.6 lbs./A dry flowable. Due to a crust after planting, it was rotary-hoed. This test was cultivated one time and hand weeded.

Clay: Previous crop was corn. Herbicides used were Lasso MT 2 qts./A and Sencor .5 lb.

Fillmore: Cropping history: corn since 1983. Herbicides used were Command and Scepter.

Howard: Cropping history: 1988: soybeans 1987: continuous corn. Pursuit (post emergent) was the herbicide used.

Furnas: Cropping history: 1986: soybeans 1987: corn 1988: corn. Broadcasted Commence 2.66 pts./A preplant.

Perkins: Cropping history: 1988: corn 1987: pinto beans. No herbicide was used it was hand weeded. Soil applied Inoculum 6.5 lbs./A.

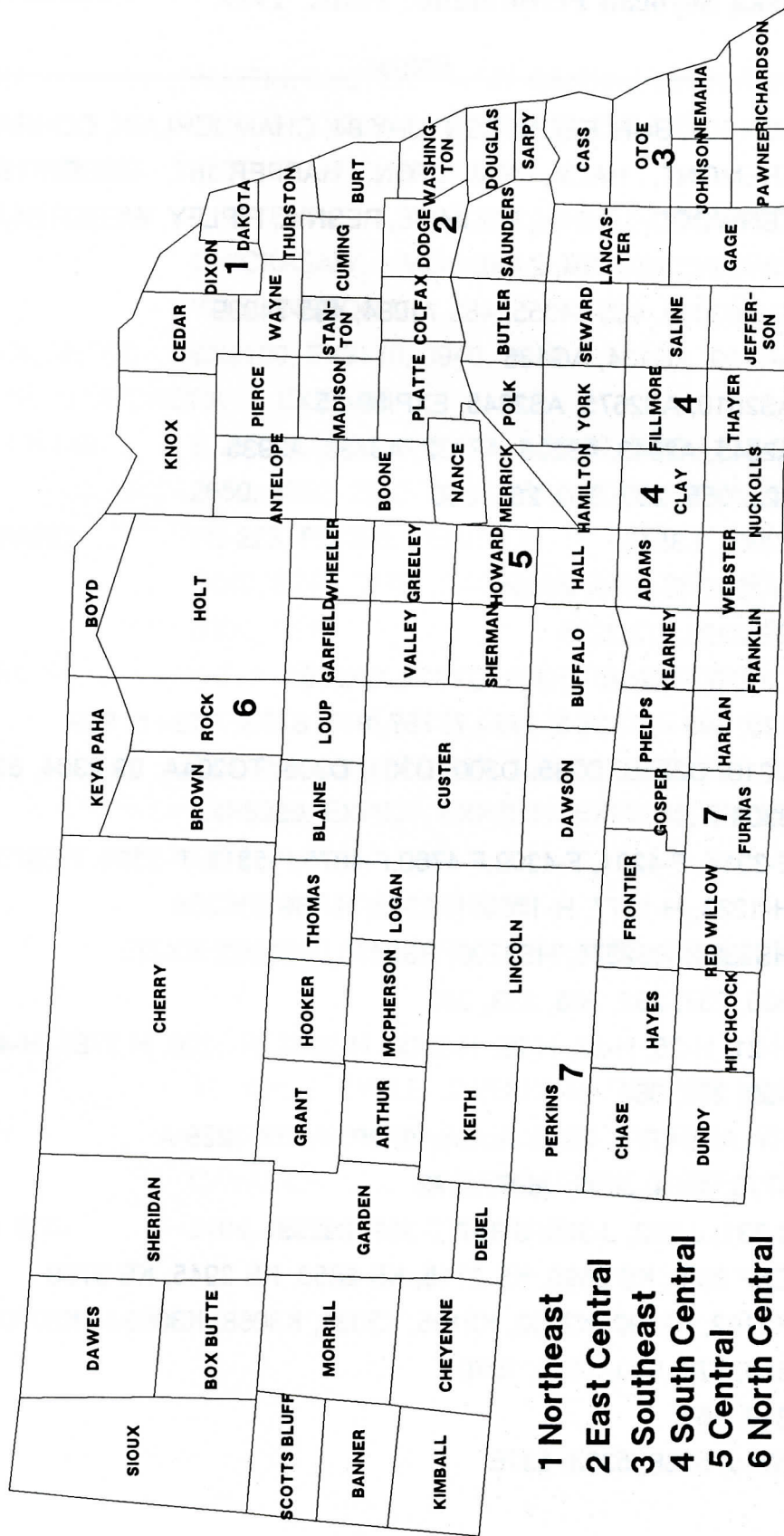
Rock: Cropping history: 1988: corn 1987: corn. Herbicides used were Scepter 0.5 pt./A and Treflan 1 qt./A preplanting time. Fertilizer used was 7 lbs. of N, 16 lbs. of P, 5 lbs. of K, and 7 lbs. of S.

Table A. Locations. Nebraska Soybean Performance Tests. 1989.

Location and Cooperator	Soil Type/Herbicide	Test	Planted	Harvested	Average yield bu/A	Mat-yield correlation r
Northeast						
Dixon County	Moody silty clay loam	Early	May 24	Oct. 10	28.7	0.13
Richard Kraemer, Dixon	Treflan + Poast	Late	May 25	Oct. 11	26.9	0.46
North Central						
Rock County	Ipaga loamy sand	-----	May 26	Oct. 19	41.6	-----
Dale Ellwanger, Basset	Scepter & Treflan					
East Central						
Dodge County	Moody silty clay loam	Early	May 23	Oct. 9	50.3	0.13
Willis Bopp, Hooper	Lasso + Lexon	Late	May 24	Oct. 10	50.1	-0.02**
Southeast						
Otoe County	Sharpsburg silty clay loam	Early	May 25	Oct. 23	33.4	0.12
Norm Rohlfing, Talimage	Sencor	Late	May 25	Oct. 24	33.0	0.15
South Central Irrigated						
Clay County	Hastings silt loam	Early	May 11	Sept. 29	51.8	0.07
South Central Res. & Ext. Center	Lasso & Sencor	Late	May 11	Oct. 4	52.1	-0.27**
Fillmore County	Crete & Butler silt loam	Early irr.	May 12	Oct. 13	59.5	-----
Rick Hughes, Geneva	Command & Scepter	Late irr.	May 12	Oct. 13	57.9	-----
Central Irrigated						
Howard County	Holder silt loam	Early irr.	May 26	Oct. 17	49.4	-----
Sack Bros., St. Paul	Pursuit	Late irr.	May 26	Oct. 17	42.6	-----
West Central Irrigated						
Furnas County	Hall silt loam	-----	May 26	Oct. 19	52.0	-----
Jerry Hoffman, Holbrook	Commence					
Perkins County	Kuma silt loam	-----	May 26	Oct. 13	27.0	-----
Dennis Demmel, Ogallala	No herbicide					

* , ** significant at the 5% and 1% level, respectively. Negative r values indicate that early varieties were higher yielding.

PLOT LOCATIONS - 1989 SOYBEAN TESTS



- 1 Northeast
- 2 East Central
- 3 Southeast
- 4 South Central
- 5 Central
- 6 North Central
- 7 West Central

Table B. Entries. Nebraska Soybean Performance Tests. 1989.

Brand	Entries
-----	BSR 101, BURLESON, CENTURY 84, CHAMBERLAIN, CONRAD, FLYER, FREMONT, HACK, HAMILTON, HARPER 87, HOBBIT 87, HOYT, KENWOOD, LOGAN, PELLA 86, RESNIK, RIPLEY, WEBER 84, WILLIAMS 82, WINCHESTER, ZANE
EXPERIMENTAL-UNL	485-63023, 485-64055, 485-71084, 485-74089
AGRIGENE	AG129, AG134, AG138
ARROW SEED	AS2610, AS2675, AS2845, EXP.89-25
ASGROW	A2543, A2943, A3205, A3322, A3733, A3935
ATLAS	225, 255, 280, 370, 285, 350
CENEX/LAND O'LAKES	L3901, L3545
CIBA-GEIGY	G-3232, G-3300, 21054
DAHLGREN	DS-3220, DS-3285
DEKALB-PFIZER	CX226, CX264, CX298, CX326, CX366
DE SOY	420, 595+, 750+5, 777+7, 787, 877, 877+, 919+5, 939
DIAMOND BRAND	D210, D225B, D285, D300, D301, D305, TC204A, 89-2304, 89-2305, 89-3303
FONTANELLE	F-3914, F-4201, F-4309, F-4760, F-4875, F-5319, F-5529, F-5889, F-5808
GOLDEN HARVEST	H-1233, H-1277, H-1285, H-1355, H-1391, X-308
HILL SEED	HS2380, HS2575, HS2700, HS3475, HS3288, EX279
HOEGEMEYER	205, 237, 282, 368, 383, 395
HORIZON	H-21, H-25, H-28, H-29, H-2600, H-2987, H-3200, H-3788, H-4688
HYPERFORMER	180, 270, 360
HY-VIGOR	HYLANDER, K-3903, Rocker-9, 905-A, EX:3228-A
JACOBSEN	J776, J824, J895, J897, J972
JACQUES	J-231, J-282, J-335, J-357, J-361, 89299
KAUP SEED	EXP 88-6, KS 2690, KS 2715, KS 2850, KS 3945, KS 3790
KRUGER	K2162, K2190, K2192, K2195, K3031, K3068, K3069+, K3070 KEX639
LATHAM	650, 770, 920, 1010, 1070
LEWIS	310, 367
LYNKS SEEDS	5245, 5288, 5303, 5376

Table B. Concluded.

MC CUBBIN	AUSTIN, CUSTER, DIXON, GENTRY, LYON, TAYLOR, TAYLOR 88, TROYIII, TAHOE, EX28942-B, EX38978, EX38106
MCCURDY/RIVERSID	260B,279, 373, 3033, 3605
MERSCHMAN	CHEYENNE II, UTE, GARFIELD, KENNEDY III, EISENHOWER II, CHICKASAW, MOHAVE, MOHAWK, MUNSEE II, TRUMAN III, WASHINGTON VI
MIDWEST OILSEEDS	EX2100, EX3170, 3940, 3090
MIDWEST SEED NETWORK	EX2790B
NORTHRUP KING	B 236, S 23-03, S 27-10, S 29-20, S 30-41, S 34-19, S 36-36, S 42-30
OHLDE	2650, 2850, 2922, 2930, 2990, 3000, 3000A, 3431, 3431A, 3650, 3710A
PRAIRIE BRAND	PB-223, PB-395, ZENITH II
S BRAND	S44D, S240, S270, B240, B320, S250, S57A, B359, S60J, S62+ , S64B, S67, B300, B270
SANSGAARD SEED	S-315, ZEPHYR, S-8700, EXP2062, EXP8951
SEXAUER	SX-2080, SX-2090, SX-29, SX-3000, SX-3010, SX-3050
SOI	229, 268, 269, 277, 287, 380, 389, 392, 394, 398, EXP386, EXP2233
STAR	EXP8929, EXP831, EXP8931, EXP8935, EXP8933, EXP8934, 8829, 8832, 8835
STAR SEED	ACHIEVER, CHALLENGER
STINE	2770, 2840, 2865, 2930, 2960, 2980, 3000, 3020, 3040, 3790, 3810, 3905, 4915
TAYLOR	TSF330,
TERRA	ADVANCE, CYCLE, JAVELIN, MARATHON, MEDALIST, SPRINT, TRIUMPH
TRI VALLEY	BLAZER, BLAZER 86, BLAZER 87, BRAT, BUICK, CAPRI, CATALINA, CAVALIER, CELICA, CHARGER 90, CIERRA, COMET, CORVETTE, TV-22
WILSON BLEND	2404, 2606, 3165, 3300, 3490

Table C. Entrants. Nebraska Soybean Performance Tests. 1989.

Brand	Entrant	Address
Agrigene	Agrigene Seed Research	Des Moines, IA 50322
Arrow Seed	Arrow Seed Company	Broken Bow, NE 68822
Asgrow	Asgrow Seed Company	Kalamazoo, MI 49001
Atlas Seed Company	Atlas Seed Company	Adel, IA 50003
Cenex/Land O'Lakes	Cenex/Land O'Lakes	Fort Dodge, IA 50501
Ciba-Geigy	Ciba-Geigy Seed Division	Greensboro, NC 27419
Dahlgren	Dahlgren and Company	Crookston, MN 56716
DeKalb-Pfizer	DeKalb-Pfizer Genetics	DeKalb, IL 60115
DeSoy	Farm Seed	Jewell, IA 50130
Diamond Brand Seed	Diamond Brand Seed Co.	Carroll, IA 51401
Fontanelle	Fontanelle Hybrids	Nickerson, NE 68044
Golden Harvest	The J. C. Robinson Seed Co.	Waterloo, NE 68069
Hill Seed	Hill Seed Company	Eylsworth, IA 50075
Hoegemeyer Hybrids	Hoegemeyer Hybrids	Hooper, NE 68031
Horizon	Horizon Seeds	Lincoln, NE 68501
Hyperformer	Hyperformer Seed Company	Memphis, TN 38137
Hy-Vigor Seeds, Inc.	Hy-Vigor Seeds, Inc.	Paullina, IA 51046
Jacobsen	Jacobsen Hybrid Corn Co., Inc.	Lake View, IA 51450
Jacques	Jacques Seed Company	Prescott, WI 54021
Kaup Seed	Kaup Seed & Fertilizer	West Point, NE 68788
Kruger Seed Company	Kruger Seed Company	Dike Iowa 50624
Latham	Latham Seed Company	Alexander, IA 50420
Lewis	Lewis Hybrids, Inc.	Ursa, IL 62376
Lynks Seeds	Lynks Seeds	Marshalltown, IA 50158
McCubbin	McCubbin Seed Farm, Inc.	Green Mountain, IA 50637
McCurdy/Riverside	McCurdy Seed Company	Fremont, IA 52561
Merschman	Merschman, Seeds	West Point, IA 52656
Midwest Oilseeds, Inc.	Midwest Oilseeds, Inc.	Adel, IA 50003
Midwest Seed Network	Midwest Seed Network	Bloomfield, NE 68718
Northrup King	Northrup King	Minneapolis, MN 55440
Ohlde	Ohlde Seed Farms	Palmer, KS 66962
Prairie Brand	Prairie Brand Seed Co., Inc.	Story City, IA 50248
S Brand	Schechinger Seed Company	Harlan, IA 51537
Sansgaard Seed	Sansgaard Seed Farms Inc.	Story City, IA 50248
The Sexauer Company	The Sexauer Company	Norfolk, NE 68702
SOI	Sand Seed Service, Inc.	Marcus, IA 51035
Star	Star Brand Seeds	Marcus, IA 51035
Star Seed	Star Seed	Beluit, KS 67420
Stine Seed Farm, Inc.	Stine Seed Farm, Inc.	Adel, IA 50003
Taylor-TSF	Taylor Seed Farms, Inc.	White Cloud, KS 66094
Terra	Terra International, Inc.	Champaign, IL 61820
Tri Valley Seed	Tri Valley Seed	Council Bluffs, IA 51501
Wilson Blend	Wilson Hybrids, Inc.	Harlan, IA 51537

Table D. Soybean performance. Average for entries common over years within tests. Five years. 1985–1989.

Test	Year	Yield bu/A	Mature date	Lodging score	Height inches	Seeds /pound
Northeast						
Early (6 entries)	1985	59.0	10-4	1.1	36	2482
	1986	42.4	9-30	1.0	32	2915
	1987	47.7	9-29	1.2	36	----
	1988	35.3	9-16	1.0	30	2887
	1989	29.2	9-21	1.0	20	2640
Late (9 entries)	1985	54.8	10-9	1.0	40	2633
	1986	44.2	10-3	1.0	34	2967
	1987	54.9	10-2	1.2	40	----
	1988	36.2	9-21	1.0	31	3022
	1989	27.4	9-25	1.0	20	2519
East Central						
Early (8 entries)	1985	42.7	9-26	2.3	43	2453
	1986	66.7	9-27	2.5	42	2648
	1987	46.9	9-27	1.2	35	2841
	1988	34.9	9-10	1.4	38	3591
	1989	47.9	9-21	2.4	37	2749
Late (6 entries)	1985	42.8	10-3	2.1	44	2415
	1986	61.1	10-5	2.4	44	2683
	1987	47.7	10-2	1.4	37	2778
	1988	33.3	9-19	1.3	39	3382
	1989	46.9	9-26	2.6	38	2670
Southeast						
Early (5 entries)	1985	50.4	9-26	1.5	43	2416
	1986	57.4	9-22	2.7	43	2608
	1987	40.2	9-20	1.7	35	3096
	1988	25.9	9-12	1.9	43	3660
	1989	33.0	10-7	1.2	25	2404
Late (4 entries)	1985	51.5	10-2	1.8	43	2598
	1986	64.3	10-1	2.5	45	2625
	1987	42.4	9-25	1.7	37	3130
	1988	24.5	9-19	1.6	43	3630
	1989	32.9	9-10	1.2	24	2633
South Central						
Early (6 entries)	1985	48.6	10-2	2.2	40	2488
	1986	61.9	9-21	1.9	38	2674
	1987	47.7	9-14	1.5	38	2849
	1988	50.7	9-20	1.5	37	----
	1989	54.8	9-21	1.4	38	2449
Late (4 entries)	1985	39.3	10-5	2.7	42	2341
	1986	56.1	9-26	1.6	42	2506
	1987	47.5	9-20	1.7	44	2639
	1988	51.1	9-26	1.7	41	----
	1989	52.1	9-26	2.1	42	2463

Table 1A. Northeast Soybean Early Performance Test. Dixon County. 1989.

BRAND	VARIETY	YIELD		MATURE DATE	HEIGHT INCHES	SEEDS POUND	PROTEIN		OIL VALUE*	
		BU/A	BU/A				%	%	%	\$/BU
MERSHMAN	UTE	38.6	38.6	9-23	20	2310	35.7	19.3	6.66	6.66
OHLEDE	2850	37.0	37.0	9-29	19	2530	33.9	19.0	6.36	6.36
KRUGER	K2190	34.4	34.4	9-22	22	2690	33.1	20.6	6.45	6.45
DE SOY	595+	34.4	34.4	9-23	18	2410	35.9	19.0	6.64	6.64
NORTHROP KING	S 23-03	34.0	34.0	9-17	22	2650	36.1	19.2	6.69	6.69
MCCURDY/RIVERSID	260B	33.9	33.9	9-24	19	2680	35.2	19.5	6.62	6.62
STINE	2840	33.6	33.6	9-23	20	2290	35.1	19.2	6.57	6.57
MERSHMAN	MUNSEE II	33.3	33.3	9-25	19	2360	35.1	19.3	6.60	6.60
TRI VALLEY	TV-22	33.1	33.1	9-22	19	2650	34.1	20.0	6.53	6.53
-----	WEBER 84	32.9	32.9	9-15	19	3140	36.1	18.1	6.58	6.58
PRAIRIE BRAND	PB-223	32.7	32.7	9-23	20	2710	37.8	19.0	6.89	6.89
SOI	277	32.6	32.6	9-20	20	2690	36.1	19.5	6.73	6.73
HORIZON	H-25	32.3	32.3	9-22	19	2900	36.8	19.0	6.77	6.77
SEXAUER	SX-2080	32.2	32.2	9-20	20	2680	35.7	19.9	6.73	6.73
LATHAM	650	32.2	32.2	9-20	19	2900	36.4	19.1	6.73	6.73
JACQUES	J-231	31.9	31.9	9-23	21	2350	34.9	19.3	6.57	6.57
DE SOY	420	31.7	31.7	9-15	19	2760	35.1	19.5	6.60	6.60
HY-VIGOR	905-A	31.7	31.7	9-23	19	2590	33.9	19.5	6.44	6.44
OHLEDE	2650	31.6	31.6	9-25	19	2080	37.5	18.8	6.82	6.82
HOEGEMEYER	237	31.4	31.4	9-23	18	2380	35.1	20.3	6.69	6.69
DAHLGREN	DS-3285	31.1	31.1	9-26	18	2540	35.5	19.3	6.64	6.64
JACOBSEN	J895	31.1	31.1	9-24	20	2500	35.2	19.3	6.59	6.59
NORTHROP KING	B 236	31.0	31.0	9-26	20	2290	34.7	19.1	6.50	6.50
KRUGER	K2162	30.8	30.8	9-22	19	2280	35.7	19.2	6.64	6.64
-----	BURLISON	30.8	30.8	9-29	19	2170	35.1	19.3	6.58	6.58
HILL SEED	HS2380	30.2	30.2	9-23	20	2290	34.4	20.0	6.57	6.57
HOEGEMEYER	282	29.7	29.7	9-22	19	2760	36.4	18.6	6.66	6.66
DIAMOND BRAND	D225B	29.4	29.4	9-26	20	2420	34.6	19.4	6.53	6.53
FONTANELLE	F-3914	29.1	29.1	9-28	18	2550	35.5	19.4	6.65	6.65
-----	FREMONT	29.0	29.0	9-28	20	2260	34.2	19.1	6.43	6.43
DIAMOND BRAND	D210	28.9	28.9	9-23	20	2420	34.8	19.4	6.56	6.56
-----	CENTURY 84	28.8	28.8	9-24	18	2340	37.1	18.6	6.75	6.75

-----	HACK	28.6	9-23	18	2470	36.1	19.4	6.71
TRI VALLEY	BUICK	28.5	9-26	18	2230	34.9	19.4	6.57
SOI	287	28.4	9-22	19	2300	37.4	18.6	6.80
TERRA	JAVELIN	28.2	9-22	18	2600	34.6	19.8	6.58
LYNKS SEEDS	5245	28.1	9-23	17	2410	34.1	19.8	6.50
DAHLGREN	DS-3220	28.1	9-18	21	2940	34.9	19.5	6.59
SANSGAARD SEED	S-8700	27.5	9-22	19	2350	36.3	19.1	6.71
CIBA-GEIGY SEED	2105Y	27.4	9-22	19	2850	36.0	19.2	6.68
KAUP SEED	KS 2715	27.3	9-23	20	2610	35.0	19.4	6.58
MCCURDY/RIVERSID	279	27.2	9-24	19	2620	34.6	19.7	6.56
LATHAM	770	26.8	9-26	18	2450	34.6	19.8	6.57
WILSON BLEND	2404	26.5	9-23	20	2570	35.8	19.8	6.72
MIDWEST OILSEEDS	EX2100	26.4	9-22	17	2730	36.1	19.4	6.72
SEXAUER	SX-29	26.3	9-23	18	2770	36.0	19.6	6.73
MC CUBBIN	DIXON	26.3	9-14	20	2630	35.0	19.6	6.62
JACOBSEN	J776	26.2	9-24	19	2490	37.1	18.6	6.75
AGRIGENE	AG 129	26.0	9-28	19	2620	34.7	18.9	6.48
TERRA	MEDALIST	25.7	9-24	19	2600	34.9	19.4	6.57
ATLAS	225	25.7	9-20	19	2870	36.0	19.0	6.67
DEKALB-PFIZER	CX264	25.2	9-20	18	2850	37.1	18.9	6.79
DEKALB-PFIZER	CX226	25.0	9-22	17	2330	35.2	19.6	6.63
GOLDEN HARVEST	H-1233	24.9	9-22	19	2680	36.4	19.8	6.80
MIDWEST SEED NET	EX2790B	24.2	9-26	19	2640	32.7	20.5	6.37
S BRAND	S-44D	24.0	9-23	17	2370	36.6	18.8	6.72
CIBA-GEIGY SEED	G-3232	23.9	9-23	21	2620	34.2	19.6	6.50
MC CUBBIN	LYON	23.9	9-14	19	2780	34.8	19.6	6.59
FONTANELLE	F-4201	23.8	9-26	20	2300	36.0	18.9	6.66
ASGROW	A2543	23.6	9-22	17	2560	36.4	18.7	6.67
HYPERFORMER	180	23.2	9-13	19	2530	34.0	19.0	6.38
KAUP SEED	KS 2850	23.1	9-23	18	2790	34.9	19.7	6.61
S BRAND	S-240	22.7	9-25	17	2410	35.7	19.6	6.69
STINE	2960	21.4	9-25	19	2480	35.6	19.1	6.63
SANSGAARD SEED	EXP 2062	21.3	9-17	18	2730	35.3	19.2	6.59
-----	BSR 101	20.6	9-20	20	2710	36.6	18.7	6.71
Average all entries		28.7	9-22	18.9	2550	35.5	19.3	6.63
Dif. Req. for Sig. 5%		7.2	2.3	2.4	240	1.3	0.5	0.16
25%		4.2	1.3	1.4	140	0.7	0.5	0.09

* VALUE = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN

Table 1B. Northeast Early Soybean Performance Tests.
1985 - 1989.

BRAND	ENTRY	YIELD BU/A	MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS /POUND
2 YEAR AVERAGE						
OHLDE	2850	37.3	9-26	1.0	26	2810
PRAIRIE BRAND	PB-223	35.8	9-19	1.0	25	2800
HORIZON	H-25	35.2	9-18	1.0	25	2960
MCCURDY/RIVERSID	260B	35.0	9-20	1.0	25	2740
NORTHRUP KING	S 23-03	34.5	9-15	1.0	27	2770
JACQUES	J-231	34.3	9-19	1.0	26	2390
KRUGER	K2162	34.3	9-21	1.0	24	2530
TRI VALLEY	TV-22	34.3	9-19	1.0	24	2860
SOI	277	34.1	9-17	1.0	25	2930
DIAMOND BRAND	D210	33.9	9-21	1.0	26	2540
MERSHMAN	MUNSEE II	33.9	9-22	1.0	24	2530
-----	BURLESON	33.9	9-25	1.0	25	2520
SEXAUER	SX-2080	33.5	9-20	1.0	25	2690
SOI	287	33.1	9-19	1.0	24	2560
NORTHRUP KING	B 236	33.0	9-22	1.0	25	2460
-----	WEBER 84	33.0	9-12	1.0	25	3210
-----	FREMONT	31.9	9-25	1.0	26	2650
-----	HACK	31.7	9-22	1.0	24	2640
DAHLGREN	DS-3220	31.7	9-16	1.0	26	2880
TRI VALLEY	BUICK	31.6	9-23	1.0	23	2460
MC CUBBIN	DIXON	31.5	9-13	1.0	25	2620
TERRA	JAVELIN	31.2	9-18	1.0	25	2890
GOLDEN HARVEST	H-1233	31.1	9-18	1.0	25	2750
JACOBSEN	J776	31.0	9-20	1.0	25	2780
TERRA	MEDALIST	31.0	9-21	1.0	26	3020
MC CUBBIN	LYON	30.9	9-14	1.0	24	2860
WILSON BLEND	2404	30.7	9-19	1.0	26	2910
KAUP SEED	KS 2715	30.6	9-19	1.0	25	2670
LATHAM	770	30.4	9-22	1.0	23	2740
SEXAUER	SX-29	30.3	9-19	1.0	25	3030
FONTANELLE	F-3914	30.3	9-24	1.0	23	2770
DEKALB-PFIZER	CX226	30.3	9-21	1.0	23	2580
KAUP SEED	KS 2850	29.5	9-19	1.0	25	2890
CIBA-GEIGY SEED	G-3232	28.6	9-21	1.0	27	2930
STINE	2960	27.8	9-22	1.0	24	2700
-----	BSR 101	26.9	9-18	1.0	25	2840
AVERAGE ALL ENTRIES		32.1	9-19	1.0	24.6	2750
DIF. REQ. FOR SIG. 5%		NS	1.8	---	1.0	170
25%		1.6	1.0	---	0.6	100
3 YEAR AVERAGE						
SOI	277	40.1	9-21	1.0	29	2930
HORIZON	H-25	39.9	9-22	1.2	29	2960
MCCURDY/RIVERSID	260B	39.9	9-23	1.2	28	2740
TRI VALLEY	TV-22	39.6	9-23	1.3	27	2860
MERSHMAN	MUNSEE II	39.4	9-25	1.0	27	2530
KRUGER	K2162	39.1	9-24	1.2	28	2530

Table 1B. Northeast Early Soybean Performance Tests.
1985 - 1989. (CONTINUED).

BRAND	ENTRY	YIELD BU/A	MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS /POUND
3 YEAR AVERAGE (CONT.)						
SEXAUER	SX-2080	38.5	9-23	1.0	28	2690
NORTHRUP KING	S 23-03	38.4	9-19	1.0	31	2770
DEKALB-PFIZER	CX226	37.8	9-23	1.2	26	2580
GOLDEN HARVEST	H-1233	37.4	9-22	1.3	29	2750
MC CUBBIN	DIXON	37.3	9-16	1.0	27	2620
KAUP SEED	KS 2850	37.1	9-22	1.2	28	2890
WILSON BLEND	2404	36.9	9-22	1.0	30	2910
-----	HACK	36.8	9-24	1.0	28	2640
SEXAUER	SX-29	36.7	9-22	1.3	30	3030
-----	WEBER 84	36.7	9-15	1.0	28	3210
MC CUBBIN	LYON	36.6	9-18	1.0	27	2860
STINE	2960	35.9	9-24	1.0	27	2700
-----	BSR 101	32.2	9-21	1.0	28	2840
AVERAGE ALL ENTRIES		37.7	9-21	1.1	28	2790
DIF. REQ. FOR SIG. 5%		NS	1.0	NS	0.4	120
25%		NS	0.6	NS	0.2	70
4 YEAR AVERAGE						
HORIZON	H-25	41.3	9-24	1.1	30	3010
TRI VALLEY	TV-22	40.9	9-25	1.2	28	2840
MCCURDY/RIVERSID	260B	40.4	9-25	1.1	29	2810
NORTHRUP KING	S 23-03	39.9	9-22	1.0	32	2770
GOLDEN HARVEST	H-1233	39.2	9-24	1.2	30	2870
-----	HACK	38.1	9-26	1.0	28	2710
-----	WEBER 84	37.1	9-17	1.0	29	3250
-----	BSR 101	33.3	9-23	1.0	29	2880
AVERAGE ALL ENTRIES		38.8	9-23	1.0	29	2890
DIF. REQ. FOR SIG. 5%		1.8	0.9	NS	0.7	70
25%		1.0	0.5	NS	0.4	40
5 YEAR AVERAGE						
TRI VALLEY	TV-22	44.9	9-27	1.1	30	2760
MCCURDY/RIVERSID	260B	44.4	9-27	1.1	31	2740
NORTHRUP KING	S 23-03	43.1	9-24	1.1	34	2700
GOLDEN HARVEST	H-1233	43.0	9-26	1.1	31	2790
-----	HACK	42.6	9-28	1.0	29	2630
-----	BSR 101	38.3	9-25	1.0	31	2780
AVERAGE ALL ENTRIES		42.7	9-26	1.1	31	2730
DIF. REQ. FOR SIG. 5%		1.7	0.1	NS	0.7	NS
25%		1.0	NS	NS	0.4	60

Table 2A. Northeast Soybean Late Performance Test. Dixon County. 1989.

BRAND	VARIETY	YIELD BU/A	MATURE DATE	HEIGHT INCHES	SEEDS POUND	PROTEIN %	OIL %	VALUE * \$
KAUP SEED	KS 3945	34.8	9-27	20	2170	36.2	18.3	6.61
KRUGER	K2195	33.7	9-27	21	2590	37.0	18.1	6.68
WILSON BLEND	3165	33.6	9-27	21	2230	35.6	18.9	6.59
OHLDE	2990	32.7	9-30	21	2720	35.1	19.1	6.56
OHLDE	3000	30.6	9-29	20	2330	34.9	18.9	6.51
LATHAM	1010	30.4	9-25	19	2530	35.3	19.1	6.59
MERSHMAN	CHEYENNE II	30.1	9-26	20	2600	35.8	18.9	6.62
LYNKS SEEDS	5288	29.9	9-25	23	2150	35.4	19.1	6.60
CIBA-GEIGY SEED	G-3300	29.9	9-26	20	2470	35.5	18.8	6.58
JACQUES	89299	29.3	9-26	18	2410	35.8	18.4	6.57
-----	FREMONT	29.3	9-26	21	2390	34.9	19.4	6.58
SOI	268	29.1	9-23	19	2670	36.6	18.4	6.67
FONTANELLE	F-4875	29.0	10-1	21	2410	36.2	18.3	6.62
STAR	EX 8929	29.0	9-25	19	2440	36.3	18.7	6.67
FONTANELLE	F-4760	28.7	9-26	21	2430	36.2	18.8	6.66
LATHAM	920	28.6	9-27	18	2620	35.3	19.1	6.59
-----	KENWOOD	28.5	9-23	21	2840	34.1	19.5	6.47
TERRA	SPRINT	28.5	9-27	19	2480	35.6	19.1	6.62
-----	PELLA 86	28.4	9-27	20	2050	35.0	19.8	6.63
MERSHMAN	MOHAVE	28.3	9-29	21	2360	36.7	18.3	6.67
STINE	2980	28.3	9-28	20	2160	36.0	18.4	6.59
KRUGER	K2192	28.2	9-30	20	2570	34.6	19.2	6.50
MCCURDY/RIVERSID	3033	28.2	9-26	21	2630	34.4	19.5	6.50
-----	ZANE	28.1	9-29	21	2360	36.5	18.9	6.72
DIAMOND BRAND	D285	28.0	9-26	19	2650	35.6	18.7	6.58
KAUP SEED	KS 2690	27.9	9-25	21	2610	36.7	18.5	6.70
TRI VALLEY	BLAZER 87	27.8	9-24	20	2650	36.8	18.1	6.67
HORIZON	H-2600	27.7	9-26	19	2700	34.5	19.2	6.48
GOLDEN HARVEST	H-1285	27.5	9-27	20	2400	34.9	19.6	6.61
NORTHROP KING	S 29-20	27.4	9-27	21	2320	36.6	18.0	6.63
HILL SEED	HS2575	27.4	9-22	20	2670	35.8	18.8	6.62

GOLDEN HARVEST	H-1277	27.3	9-22	20	2720	37.1	18.6	6.76
-----	LOGAN	27.3	9-27	23	2260	34.3	19.5	6.49
S BRAND	B-240	26.9	9-24	19	2610	34.1	19.3	6.44
HILL SEED	HS2700	26.8	9-25	21	2580	35.2	19.0	6.56
TERRA	ADVANCE	26.7	9-27	22	2230	35.8	18.4	6.57
SOI	229	26.3	9-26	20	2640	34.9	19.2	6.54
NORTHURP KING	S-27-10	26.0	9-19	20	3140	36.1	18.6	6.63
S BRAND	S-270	25.9	9-24	19	2140	37.3	18.3	6.74
DIAMOND BRAND	TC204A	25.9	9-26	19	2600	35.5	18.9	6.59
HORIZON	H-28	25.9	9-22	18	2560	35.0	19.0	6.54
SEXAUER	SX-2090	25.8	9-21	24	2670	35.5	19.1	6.61
LATHAM	1070	25.5	9-26	22	2290	36.5	18.5	6.67
STINE	2865	25.3	9-26	19	2480	35.2	19.4	6.61
HY-VIGOR	K-3903	25.2	9-22	19	2620	36.3	18.3	6.68
DE SOY	750+5	25.0	9-24	21	2590	35.4	19.0	6.58
HOEGEMEYER	205	24.9	9-26	19	2480	35.0	19.2	6.57
-----	WEBER 84	24.8	9-16	21	3200	34.6	19.0	6.48
-----	485-64055	24.7	9-26	23	2330	35.6	19.0	6.59
-----	CONRAD	24.7	9-20	19	2750	34.9	19.3	6.56
-----	FLYER	24.6	9-21	19	2450	35.4	19.2	6.62
HYPERFORMER	270	24.5	9-27	19	2460	35.9	19.0	6.66
JACQUES	J-282	24.2	9-22	21	2750	35.7	18.6	6.58
DE SOY	777+7	23.9	9-30	21	2510	36.3	18.6	6.65
STAR	8829	23.8	9-22	19	2810	34.8	19.7	6.59
-----	HACK	23.2	9-24	20	2410	35.9	18.8	6.63
-----	HOYT	23.2	9-24	18	2670	36.6	18.6	6.70
TRI VALLEY	BLAZER	23.1	9-19	20	3070	36.0	18.6	6.62
WILSON BLEND	2606	22.1	9-26	19	2620	36.8	18.2	6.68
MC CUBBIN	TAHOE	21.9	9-25	18	2400	34.0	19.9	6.49
MC CUBBIN	EX 28942-B	21.7	9-24	18	2530	36.5	18.0	6.61
ATLAS	254	20.5	9-24	19	2690	37.3	19.4	6.87
HY-VIGOR	EX-3228-A	18.9	9-23	18	2560	36.7	18.4	6.68
Average all entries								
Dif. Req. for Sig. 5%								
25%								
* VALUE = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN								

Table 2B. Northeast Late Soybean Performance Tests.
1985 - 1989.

BRAND	ENTRY	YIELD BU/A	MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS /POUND
2 YEAR AVERAGE						
WILSON BLEND	3165	35.9	9-26	1.0	26	2590
KRUGER	K2195	35.7	9-24	1.0	26	2830
OHLDE	3000	35.0	9-28	1.0	25	2620
MCCURDY/RIVERSID	3033	33.8	9-25	1.0	26	2800
TERRA	SPRINT	33.4	9-24	1.0	25	2830
LATHAM	1010	33.4	9-22	1.0	24	2810
MERSHMAN	MOHAVE	32.7	9-25	1.0	25	2630
-----	ZANE	32.5	9-30	1.0	27	2530
KAUP SEED	KS 2690	32.3	9-22	1.0	27	2820
HILL SEED	HS2700	32.1	9-23	1.0	26	2820
TRI VALLEY	BLAZER 87	32.1	9-21	1.0	25	2980
LATHAM	920	32.0	9-24	1.0	23	2960
HOEGEMEYER	205	31.9	9-23	1.0	25	2740
SOI	229	31.9	9-23	1.0	26	2860
GOLDEN HARVEST	H-1285	31.9	9-25	1.0	25	2740
SOI	268	31.7	9-21	1.0	25	2970
-----	LOGAN	31.5	9-26	1.0	30	2570
-----	PELLA 86	31.5	9-26	1.0	26	2370
NORTHRUP KING	S 29-20	31.2	9-25	1.0	26	2580
DIAMOND BRAND	TC204A	31.1	9-23	1.0	25	2900
-----	FREMONT	30.9	9-25	1.0	28	2750
GOLDEN HARVEST	H-1277	30.9	9-20	1.0	24	3040
HILL SEED	HS2575	30.7	9-20	1.0	25	2970
TERRA	ADVANCE	30.6	9-25	1.0	26	2470
HORIZON	H-28	30.6	9-20	1.0	25	2790
DIAMOND BRAND	D285	30.5	9-24	1.0	24	2950
HY-VIGOR	K-3903	30.4	9-21	1.0	25	2870
TRI VALLEY	BLAZER	29.8	9-18	1.0	25	3020
JACQUES	J-282	29.6	9-20	1.0	25	2980
NORTHRUP KING	S 27-10	29.3	9-18	1.0	24	3040
-----	WEBER 84	28.9	9-14	1.0	27	3170
-----	HACK	28.4	9-23	1.0	25	2640
MC CUBBIN	EX 28942-B	27.9	9-21	1.0	23	2700
-----	HOYT	24.7	9-20	1.0	20	2850
AVERAGE ALL ENTRIES		31.4	9-23	1	25	2800
DIF. REQ. FOR SIG. 5%		2.0	1.4	NS	1.5	160
25%		1.1	0.8	NS	0.9	90
3 YEAR AVERAGE						
LATHAM	920	42.0	9-26	1.0	27	2960
KRUGER	K2195	41.4	9-26	1.0	30	2830
MCCURDY/RIVERSID	3033	41.0	9-27	1.3	30	2800
LATHAM	1010	40.6	9-25	1.2	29	2810
TERRA	SPRINT	40.5	9-27	1.0	30	2830
HORIZON	H-28	40.4	9-23	1.3	29	2790
HILL SEED	HS2700	40.4	9-26	1.0	30	2820
HOEGEMEYER	205	40.2	9-26	1.0	30	2740

(CONTINUED)

TABLE 2B (CONCLUDED)

-----	PELLA 86	40.1	9-29	1.2	30	2370
SOI	268	40.0	9-23	1.0	29	2970
NORTHRUP KING	S 29-20	39.9	9-27	1.0	31	2580
-----	ZANE	39.8	10- 1	1.4	31	2530
GOLDEN HARVEST	H-1285	39.7	9-27	1.0	30	2740
KAUP SEED	KS 2690	39.6	9-26	1.0	31	2820
GOLDEN HARVEST	H-1277	39.6	9-24	1.0	29	3040
HY-VIGOR	K-3903	39.3	9-23	1.0	29	2870
-----	LOGAN	39.3	9-29	1.2	36	2570
TRI VALLEY	BLAZER	39.2	9-21	1.2	29	3020
DIAMOND BRAND	TC204A	38.9	9-26	1.0	30	2900
TERRA	ADVANCE	37.6	9-28	1.4	31	2470
-----	FREMONT	37.3	9-27	1.0	32	2750
-----	WEBER 84	36.6	9-17	1.0	31	3170
-----	HACK	35.7	9-25	1.0	28	2640
-----	HOYT	34.6	9-23	1.0	22	2850
AVERAGE ALL ENTRIES		39.3	9-26	1.1	30	2780
DIF. REQ. FOR SIG. 5%		NS	1.0	NS	1.4	120
25%		1.1	0.6	NS	0.8	70
4 YEAR AVERAGE						
TERRA	SPRINT	42.4	9-28	1.0	31	2790
KRUGER	K2195	42.1	9-28	1.0	31	2850
HILL SEED	HS2700	41.9	9-27	1.0	31	2920
LATHAM	1010	41.7	9-27	1.1	30	2880
HOEGEMEYER	205	41.6	9-28	1.0	31	2890
DIAMOND BRAND	TC204A	40.7	9-28	1.0	30	3000
GOLDEN HARVEST	H-1285	40.6	9-29	1.0	31	2870
TRI VALLEY	BLAZER	40.6	9-24	1.1	30	3040
-----	LOGAN	40.4	10- 1	1.1	36	2640
-----	ZANE	39.8	10- 2	1.3	32	2580
TERRA	ADVANCE	38.9	9-30	1.3	31	2620
-----	FREMONT	38.1	9-29	1.0	33	2790
-----	HACK	37.6	9-27	1.0	29	2710
-----	HOYT	37.5	9-25	1.0	22	3010
-----	WEBER 84	37.3	9-19	1.0	31	3210
AVERAGE ALL ENTRIES		40.1	9-27	1.1	31	2850
DIF. REQ. FOR SIG. 5%		1.7	1.0	NS	1.3	110
25%		1.0	0.6	NS	0.7	60
5 YEAR AVERAGE						
HILL SEED	HS2700	45.8	9-29	1.0	33	2850
TERRA	SPRINT	45.6	9-30	1.0	32	2780
LATHAM	1010	44.5	9-29	1.1	32	2820
DIAMOND BRAND	TC204A	44.2	9-30	1.0	32	2910
TRI VALLEY	BLAZER	43.9	9-26	1.2	32	2940
GOLDEN HARVEST	H-1285	43.7	10- 1	1.0	32	2830
-----	LOGAN	42.2	10- 3	1.1	38	2610
-----	ZANE	41.3	10- 4	1.2	33	2570
-----	FREMONT	40.3	10- 1	1.0	35	2760
AVERAGE ALL ENTRIES		43.5	9-30	1.1	33	2790
DIF. REQ. FOR SIG. 5%		1.7	1.1	NS	0.9	90
25%		1.0	0.6	NS	0.5	50

Table 3A. East Central Soybean Early Performance Test. Dodge County. 1989.

BRAND	VARIETY	YIELD BU/A	MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS POUND	BUSHEL WEIGHT	PROTEIN %	OIL %	VALUE * \$/BU
ATLAS	280	57.1	9-24	1.8	30	2730	58	33.9	19.8	6.47
STINE	3000	57.0	9-23	2.5	37	2430	57	33.2	20.4	6.43
JACOBSEN	J824	56.6	9-22	2.8	39	2900	57	34.4	19.7	6.53
GOLDEN HARVEST	H-1277	54.9	9-21	3.3	36	3230	57	33.2	20.1	6.41
WILSON BLEND	2404	54.2	9-19	3.0	38	2950	57	31.6	20.6	6.23
MC CUBBIN	TAYLOR 88	53.9	9-21	2.3	39	3170	57	32.2	19.9	6.22
TRI VALLEY	BRAT	53.8	9-18	2.3	37	2910	56	32.5	19.8	6.27
LYNKS SEEDS	5245	53.7	9-19	2.5	37	2480	57	31.7	20.4	6.21
HILL SEED	HS2380	53.5	9-18	2.0	37	2540	57	31.9	20.6	6.26
KRUGER	K2190	53.3	9-20	2.0	40	2840	57	31.3	21.0	6.22
KRUGER	K2162	53.1	9-19	2.0	38	2600	57	33.4	20.4	6.48
STAR	EX 8931	52.9	9-25	2.0	33	2830	56	32.5	19.8	6.25
-----	KENWOOD	52.7	9-18	2.3	35	3190	57	31.6	20.9	6.26
OHLDE	3000	52.5	9-25	2.3	36	2640	58	30.9	19.8	6.02
DE SOY	750+5	52.4	9-19	2.0	37	2800	57	32.4	20.9	6.38
S BRAND	S-250	52.1	9-20	1.8	32	2650	56	30.6	21.9	6.23
STINE	2770	52.0	9-21	2.3	34	3090	57	31.7	19.6	6.11
HOEGEMEYER	237	52.0	9-19	2.0	32	2560	57	33.2	21.1	6.53
HYPERFORMER	270	51.9	9-22	2.0	34	2860	57	31.6	20.6	6.23
SOI	392	51.8	9-23	3.3	41	2310	57	34.0	20.3	6.55
KAUP SEED	KS 2690	51.7	9-22	2.3	38	2640	57	33.5	20.3	6.47
DIAMOND BRAND	D225B	51.5	9-22	2.0	35	2690	57	31.9	20.7	6.28
SOI	287	51.5	9-18	2.3	37	2640	57	30.8	21.0	6.16
-----	PELLA 86	51.4	9-24	2.0	34	2180	58	31.7	20.8	6.26
KAUP SEED	KS 2850	51.3	9-18	3.3	38	3040	58	31.9	20.9	6.31
ASGROW	A2943	51.2	9-25	1.5	34	2810	57	35.3	19.5	6.64
TERRA	ADVANCE	51.2	9-25	3.0	41	2400	57	31.0	19.6	6.01
HOEGEMEYER	205	51.1	9-24	2.3	36	2850	57	33.4	19.9	6.42
WILSON BLEND	2606	50.9	9-20	1.8	31	2930	57	32.1	20.4	6.28
TRI VALLEY	BLAZER 86	50.7	9-19	3.0	36	3190	57	30.9	19.9	6.02
FONTANELLE	F-4760	50.7	9-23	2.8	44	2660	57	33.2	20.3	6.42
S BRAND	B-320	50.5	9-28	2.5	35	2700	58	33.8	19.5	6.42

(CONTINUED)

MCCURDY/RIVERSIDE 279	50.5	9-20	3.0	36	3160	57	30.8	20.2	6.05
HILL SEED HS2575	50.5	9-20	2.5	37	3050	58	32.2	20.5	6.29
DE SOY 777+7	50.4	9-26	2.3	35	2580	57	32.8	20.6	6.41
OHLDE 2922	50.2	9-22	2.0	32	2990	58	34.4	19.5	6.51
MERSHMAN GARFIELD	49.9	9-28	1.8	35	3020	58	35.3	19.1	6.59
HORIZON H-2987	49.8	9-23	2.5	45	2640	57	33.0	20.6	6.44
CENEX/LAND O'LAKES L3545	49.7	9-29	2.3	33	2690	57	34.5	20.0	6.59
TERRA SPRINT	49.4	9-25	2.5	40	2720	57	34.4	19.4	6.50
AGRIGENE AG 129	49.3	9-23	2.8	39	2940	57	34.4	19.7	6.52
SEXAUER SX-3000	49.2	9-26	2.3	30	3480	59	34.1	19.9	6.53
SEXAUER SX-2090	49.1	9-23	3.0	43	3070	59	34.1	19.9	6.52
HY-VIGOR K-3903	49.1	9-18	3.0	35	2990	58	30.6	21.0	6.12
MC CUBBIN TAYLOR	48.9	9-22	2.5	38	2990	57	31.8	19.8	6.15
MCCURDY/RIVERSIDE 260B	48.8	9-17	2.8	37	2810	57	33.0	20.0	6.36
NORTHROP KING S 29-20	48.7	9-21	2.0	36	2470	57	29.9	20.7	6.02
HORIZON H-29	48.7	9-19	2.3	35	2740	57	30.3	20.9	6.06
----- CENTURY 84	48.6	9-20	2.3	35	2540	58	35.1	19.2	6.57
----- BURLISON	48.5	9-22	2.0	35	2530	57	34.7	19.2	6.52
DIAMOND BRAND D210	48.4	9-18	2.0	35	2640	57	31.4	21.2	6.26
DAHLGREN DS-3285	48.4	9-22	2.5	38	3110	57	33.1	20.2	6.40
NORTHROP KING S 27-10	48.4	9-16	2.0	33	3160	57	31.6	20.5	6.21
STAR 8829	48.3	9-22	2.3	35	2770	57	32.1	19.2	6.12
MERSHMAN CHEYENNE II	48.3	9-22	2.0	35	2870	57	34.2	20.1	6.55
PRAIRIE BRAND ZENITH II	47.8	9-22	2.5	38	2880	57	34.8	20.1	6.64
----- HOYT	47.5	9-14	1.8	29	3510	59	34.0	19.6	6.48
AGRIGENE AG 134	47.4	9-28	2.0	33	2720	57	34.3	19.9	6.53
----- CONRAD	46.8	9-17	2.0	35	2990	57	32.8	20.1	6.35
SANSGAARD SEED EXP 8951	46.4	9-19	1.8	32	2720	57	34.9	19.7	6.60
----- LOGAN	45.9	9-22	3.0	43	2510	59	32.8	20.6	6.42
----- HACK	45.9	9-19	2.0	37	2640	59	32.5	20.5	6.35
----- BSR 101	45.9	9-19	2.0	37	2840	57	33.2	20.1	6.41
----- FREMONT	45.8	9-25	2.3	38	2550	58	33.7	20.4	6.52
FONTANELLE F-4545	45.8	9-22	2.8	39	2870	57	33.8	20.5	6.55
DAHLGREN DS-3220	45.0	9-16	2.0	33	2920	58	31.4	21.1	6.26
ASGROW A2543	43.0	9-16	1.8	27	2800	57	34.6	19.6	6.54
Average all entries	50.3	9-21	2.3	35.9	2810	57.1	32.9	20.2	6.37
Dif. Req. for Sig. 5%	6.3	2.5	3.7	3.7	200	0.6	1.7	0.8	0.15
25%	3.7	1.4	2.2	2.2	120	0.3	1.0	0.5	0.09

* VALUE = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN

Table 3B. East Central Early Soybean Performance Tests. 1985 - 1989.

BRAND	ENTRY	YIELD BU/A	MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS /POUND	BUSHEL WEIGHT
2 YEAR AVERAGE							
JACOBSEN	J824	47.1	9-18	2.3	40	3280	57
HOEGEMEYER	237	46.2	9-14	1.8	35	2860	57
DIAMOND BRAND	D225B	45.9	9-17	1.8	35	3060	57
WILSON BLEND	2404	45.6	9-13	2.4	37	3400	57
MC CUBBIN	TAYLOR 88	45.2	9-15	1.9	39	3610	57
KAUP SEED	KS 2690	45.1	9-18	1.7	39	3330	57
DE SOY	750+5	44.6	9-15	1.7	36	3410	57
HOEGEMEYER	205	44.6	9-18	1.9	38	3320	57
DAHLGREN	DS-3285	44.5	9-19	1.9	39	3550	57
STINE	2770	44.0	9-16	1.8	35	3510	57
HORIZON	H-29	44.0	9-14	1.7	36	3060	57
OHLDE	3000	43.9	9-19	1.9	37	3040	58
GOLDEN HARVEST	H-1277	43.8	9-15	2.3	36	3610	57
DIAMOND BRAND	D210	43.8	9-13	2.0	35	3000	57
MC CUBBIN	TAYLOR	43.5	9-17	2.2	39	3510	57
-----	PELLA 86	43.4	9-19	1.5	35	2580	58
KAUP SEED	KS 2850	43.4	9-14	2.6	38	3350	58
SEXAUER	SX-2090	43.0	9-17	2.0	44	3500	59
ASGROW	A2943	42.7	9-22	1.3	35	3220	57
-----	CENTURY 84	42.7	9-14	1.7	35	3110	58
STAR	8829	42.7	9-17	1.7	35	3130	57
PRAIRIE BRAND	ZENITH II	42.6	9-17	1.9	38	3350	57
TRI VALLEY	BLAZER 86	42.4	9-13	2.2	37	3440	57
HILL SEED	HS2575	42.2	9-14	2.2	37	3570	58
TERRA	SPRINT	42.1	9-21	2.0	40	3370	57
HY-VIGOR	K-3903	41.9	9-14	2.2	35	3310	58
-----	BURLESON	41.8	9-18	1.5	36	2890	57
TERRA	ADVANCE	41.6	9-21	2.0	39	2940	57
-----	HACK	41.4	9-15	1.5	35	2850	59
NORTHRUP KING	S 29-20	41.2	9-16	1.8	37	2960	57
-----	FREMONT	40.7	9-20	1.7	38	3100	58
FONTANELLE	F-4545	40.2	9-18	2.3	39	3440	57
-----	LOGAN	39.5	9-19	2.3	44	2970	59
DAHLGREN	DS-3220	38.7	9-11	1.5	33	3340	58
-----	BSR 101	32.9	9-12	1.9	36	3210	57
AVERAGE ALL ENTRIES		42.8	9-16	1.9	37	3230	57
DIF. REQ. FOR SIG. 5%		NS	1.4	NS	1.3	160	NS
25%		1.6	0.8	0.2	0.8	90	NS
3 YEAR AVERAGE							
JACOBSEN	J824	47.8	9-21	2.0	38	3210	57
WILSON BLEND	2404	46.7	9-17	2.0	36	3310	57
KAUP SEED	KS 2690	46.6	9-21	1.5	37	3190	57
MC CUBBIN	TAYLOR 88	46.5	9-18	1.6	37	3480	57
GOLDEN HARVEST	H-1277	46.2	9-18	1.9	35	3450	57
HORIZON	H-29	46.1	9-19	1.4	35	2920	57
STINE	2770	46.0	9-19	1.5	35	3410	57

(CONTINUED)

TABLE 3B (CONCLUDED)

HOEGEMEYER	205	46.0	9-21	1.8	37	3240	57
OHLDE	3000	46.0	9-23	1.7	36	2970	58
TRI VALLEY	BLAZER 86	45.2	9-17	1.8	36	3330	57
MC CUBBIN	TAYLOR	45.1	9-21	1.9	38	3350	57
-----	PELLA 86	45.0	9-23	1.3	35	2580	58
HY-VIGOR	K-3903	44.6	9-17	1.8	35	3260	58
SEXAUER	SX-2090	43.9	9-20	2.0	43	3410	59
PRAIRIE BRAND	ZENITH II	43.8	9-21	1.6	37	3270	57
TERRA	SPRINT	43.5	9-23	1.8	37	3250	57
-----	CENTURY 84	43.3	9-18	1.4	34	2990	58
TERRA	ADVANCE	43.1	9-24	1.8	38	2830	57
FONTANELLE	F-4545	42.9	9-21	2.0	37	3310	57
-----	HACK	42.8	9-18	1.3	34	2790	59
-----	LOGAN	41.8	9-22	2.1	43	2840	59
-----	FREMONT	41.5	9-22	1.4	37	3010	58
-----	BSR 101	36.7	9-15	1.6	35	3080	57
AVERAGE ALL ENTRIES		44.4	9-20	1.7	37	3050	57.5
DIF. REQ. FOR SIG. 5%		2.1	1.2	0.2	1.2	110	NS
25%		1.2	0.7	0.1	0.7	60	NS
4 YEAR AVERAGE							
STINE	2770	53.4	9-20	1.9	36	3300	57
HORIZON	H-29	52.3	9-21	1.7	36	2790	57
HY-VIGOR	K-3903	51.3	9-19	2.1	36	3180	58
TRI VALLEY	BLAZER 86	51.2	9-19	2.0	36	3270	57
HOEGEMEYER	205	51.2	9-24	2.1	38	3150	57
PRAIRIE BRAND	ZENITH II	49.8	9-23	2.0	38	3200	57
MC CUBBIN	TAYLOR	49.8	9-24	2.3	39	3250	57
-----	LOGAN	48.7	9-24	2.3	45	2730	59
FONTANELLE	F-4545	48.6	9-24	2.4	38	3230	57
-----	HACK	48.6	9-20	1.4	35	2700	59
-----	CENTURY 84	48.5	9-19	1.3	36	2880	58
-----	FREMONT	46.7	9-24	1.3	39	2910	58
-----	BSR 101	43.9	9-16	1.8	36	2970	57
AVERAGE ALL ENTRIES		49.5	9-21	1.9	38	3040	58
DIF. REQ. FOR SIG. 5%		2.0	1.3	0.3	0.9	80	NS
25%		1.1	0.8	0.2	0.5	50	NS
5 YEAR AVERAGE							
HORIZON	H-29	49.7	9-21	1.9	37	2680	57
HOEGEMEYER	205	49.7	9-25	2.2	39	3040	57
PRAIRIE BRAND	ZENITH II	49.2	9-24	2.2	39	3080	57
MC CUBBIN	TAYLOR	47.9	9-25	2.5	40	3110	57
-----	HACK	47.7	9-21	1.3	36	2650	59
-----	CENTURY 84	46.9	9-20	1.4	37	2760	58
-----	LOGAN	46.2	9-25	2.5	46	2660	59
-----	BSR 101	45.1	9-17	1.7	37	2860	57
AVERAGE ALL ENTRIES		48.8	9-22	1.9	39	2860	58
DIF. REQ. FOR SIG. 5%		NS	1.3	0.3	0.8	80	NS
25%		NS	0.8	0.2	0.5	40	NS

Table 4A. East Central Soybean Late Performance Test. Dodge County. 1989.

BRAND	VARIETY	YIELD BU/A	MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS POUND	BUSHEL WEIGHT	PROTEIN %	OIL %	VALUE * \$/BU
ATLAS	370	57.5	9-29	2.3	34	2850	57	32.8	19.6	6.27
HOEGEMEYER	368	56.0	9-25	3.0	37	2690	58	32.5	19.7	6.24
SOI	394	55.3	9-25	2.5	37	2760	57	31.2	19.6	6.03
STAR	EX 8935	55.1	9-29	2.5	34	2850	57	33.6	19.3	6.37
NORTHROP KING	S 34-19	54.8	9-27	2.5	34	2630	57	34.6	19.0	6.47
KAUP SEED	KS 3945	54.7	9-25	2.0	38	2630	57	31.9	19.7	6.14
KRUGER	K2162	54.4	9-20	2.3	36	2450	56	32.3	20.2	6.29
JACOBSEN	J972	53.8	9-25	2.3	36	2820	58	32.4	19.8	6.24
S BRAND	S-57A	53.7	9-30	1.8	33	3070	58	34.3	20.0	6.55
FONTANELLE	F-5319	53.1	9-25	2.3	36	2630	57	30.7	19.9	6.00
MERSHMAN	KENNEDY III	52.6	9-29	2.0	33	2850	57	32.5	18.9	6.14
TRI VALLEY	BLAZER 87	52.0	9-21	3.3	38	3120	57	33.3	19.9	6.39
ASGROW	A3205	52.0	9-30	2.0	34	2940	58	34.7	19.2	6.51
ASGROW	A3322	51.9	9-28	2.0	30	2690	57	32.2	19.4	6.16
KRUGER	K3068	51.6	9-27	2.0	34	3030	58	31.7	19.9	6.14
HORIZON	H-3200	51.6	9-30	3.0	41	2850	57	34.2	19.4	6.46
TERRA	CYCLE	51.6	9-28	3.0	38	2660	58	34.9	19.3	6.56
STINE	3810	51.6	9-25	3.3	41	2840	57	31.8	20.3	6.21
DE SOY	919+5	51.5	9-28	2.8	36	2870	57	33.7	19.1	6.35
TRI VALLEY	CORVETTE	51.2	9-26	3.0	40	2780	57	32.5	19.8	6.26
STINE	3020	51.2	9-27	2.5	35	2680	57	33.6	19.6	6.39
GOLDEN HARVEST	X 308	50.9	9-25	2.0	36	2700	58	32.7	19.8	6.29
DIAMOND BRAND	89-2304	50.9	9-22	2.3	34	2720	57	32.8	19.5	6.26
HILL SEED	EX279	50.8	9-22	2.3	33	3040	58	32.6	19.9	6.29
SOI	EXP2233	50.7	9-22	2.3	33	3160	58	33.1	19.9	6.36
JACQUES	J-335	50.7	9-25	2.0	33	2800	57	34.6	19.8	6.57
WILSON BLEND	3165	50.7	9-24	2.0	34	2820	57	33.3	19.7	6.36
GOLDEN HARVEST	H-1285	50.5	9-23	3.0	40	2830	57	33.0	19.3	6.26
HYPERFORMER	360	50.3	9-29	2.0	35	2660	57	29.6	20.9	5.90
-----	HARPER 87	50.2	9-28	2.5	34	2350	58	33.4	19.2	6.32
TERRA	TRIUMPH	50.1	9-30	3.8	39	2480	57	33.2	20.0	6.38

S BRAND	B-359	50.0	9-29	2.0	34	2760	58	33.2	19.3	6.29
STAR	8835	49.8	9-27	3.0	39	2890	58	34.8	19.6	6.59
HOEGEMEYER	383	49.7	9-30	2.0	34	3100	58	33.5	19.5	6.36
MCCURDY/RIVERSIDE	3033	49.5	9-23	2.3	37	2960	57	32.2	18.9	6.10
OHLDE	3650	49.3	9-29	2.0	31	2870	57	32.9	19.8	6.32
HILL SEED	HS2700	49.2	9-24	2.3	41	2830	57	35.3	19.8	6.66
OHLDE	3431A	49.1	9-30	2.5	41	2720	57	33.1	19.4	6.30
DIAMOND BRAND	TC204A	49.0	9-22	2.5	37	2970	57	34.3	20.0	6.56
KAUP SEED	EX 88-6	48.9	9-29	3.0	34	2800	58	34.9	19.6	6.59
AGRIGENE	AG 138	48.9	10-1	3.0	41	2800	57	31.7	19.4	6.08
LYNKS SEEDS	5288	48.7	9-23	2.5	43	2750	57	32.7	20.0	6.31
-----	PELLA 86	48.7	9-24	2.0	34	2300	57	34.1	20.1	6.55
NORTHROP KING	S 36-36	48.6	9-30	2.3	34	2610	57	36.0	18.9	6.65
MC CUBBIN	EX 38106	48.6	9-27	2.5	37	2840	58	34.9	19.5	6.58
-----	HOBBIT 87	48.5	9-21	2.0	25	3090	57	30.7	20.6	6.09
-----	HACK	48.3	9-20	2.0	36	2610	59	33.3	20.3	6.43
-----	RESNIK	48.2	9-27	2.0	32	3000	57	33.3	19.5	6.35
MC CUBBIN	AUSTIN	47.9	9-25	3.0	40	2730	57	33.4	19.4	6.34
DEKALB-PFIZER	CX326	47.8	9-27	2.0	35	3370	58	33.6	20.0	6.45
DE SOY	787+	47.8	9-27	2.0	35	2700	57	34.1	19.4	6.45
-----	CHAMBERLAIN	47.6	9-27	3.0	39	2520	58	34.8	19.6	6.56
-----	FLYER	47.5	10-1	2.3	33	3040	57	34.2	19.3	6.46
HY-VIGOR	HYLANDER	47.2	9-23	3.0	41	2690	57	34.2	19.6	6.49
-----	WINCHESTER	47.0	9-29	2.8	38	2480	58	34.7	19.2	6.52
-----	FREMONT	46.8	9-24	2.5	36	2810	58	33.3	20.2	6.42
-----	ZANE	46.2	9-25	2.3	36	2380	57	32.1	20.2	6.25
SANSGAARD SEED	ZEPHYR	45.8	9-20	3.0	37	3250	57	33.4	20.0	6.42
MERSHMAN	WASHINGTON VI	45.7	10-1	2.8	37	2610	57	33.2	19.1	6.28
SEXAUER	SX-3010	45.5	9-24	2.3	34	2660	59	36.8	18.9	6.75
FONTANELLE	F-4875	44.6	9-28	4.0	37	2750	57	35.4	18.9	6.58
-----	WILLIAMS 82	41.4	10-1	2.8	36	2690	58	34.9	19.6	6.59
Average all entries		50.1	9-26	2.5	35.8	2780	57.4	33.4	19.7	6.37
Dif. Req. for Sig. 5%		5.4	1.9	0.8	1.0	238	0.5	2.2	0.5	0.25
25%		3.1	1.1	0.5	0.6	138	0.3	1.3	0.3	0.15
* VALUE = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN										

Table 4B. East Central Late Soybean Performance Tests. 1985 - 1989.

BRAND	ENTRY	YIELD BU/A	MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS /POUND	BUSHEL WEIGHT
2 YEAR AVERAGE							
HOEGEMEYER	368	47.1	9-21	2.4	38	3050	58
KAUP SEED	KS 3945	47.1	9-21	1.9	38	2960	57
KRUGER	K2162	47.0	9-16	2.1	36	2750	56
JACOBSEN	J972	45.9	9-21	1.9	37	3120	58
NORTHRUP KING	S 34-19	45.5	9-24	2.0	34	2990	57
S BRAND	S-57A	45.4	9-26	1.4	35	3400	58
GOLDEN HARVEST	X 308	45.2	9-22	1.7	37	3010	58
MCCURDY/RIVERSID	3033	45.1	9-19	1.8	38	3380	57
HILL SEED	HS2700	44.4	9-19	1.9	41	3360	57
ASGROW	A3205	44.4	9-26	1.5	35	3300	58
DE SOY	919+5	44.2	9-25	1.9	36	3230	57
STINE	3020	44.0	9-24	1.9	34	2990	57
-----	HACK	43.8	9-15	1.5	35	2990	59
DIAMOND BRAND	TC204A	43.7	9-18	1.9	37	3310	57
TRI VALLEY	BLAZER 87	43.7	9-16	2.6	38	3420	57
GOLDEN HARVEST	H-1285	43.4	9-20	2.2	40	3170	57
TERRA	CYCLE	43.1	9-25	2.0	39	2970	58
STAR	8835	43.0	9-23	2.3	40	3230	58
TERRA	TRIUMPH	42.3	9-27	2.7	40	3050	57
-----	HOBBIT 87	42.2	9-21	1.5	22	3220	57
-----	HARPER 87	42.1	9-25	1.8	35	2600	58
TRI VALLEY	CORVETTE	42.0	9-21	2.2	39	3150	57
DEKALB-PFIZER	CX326	42.0	9-22	1.5	34	3710	58
-----	RESNIK	41.9	9-24	1.5	34	3410	57
LYNKs SEEDS	5288	41.9	9-19	1.9	43	3150	57
FONTANELLE	F-4875	41.8	9-26	2.8	35	3090	57
-----	PELLA 86	41.3	9-20	1.5	35	2670	57
-----	CHAMBERLAIN	40.9	9-23	2.3	39	2940	58
-----	FREMONT	40.6	9-20	1.8	37	3180	58
AGRIGENE	AG 138	40.2	9-28	2.3	41	3140	57
HY-VIGOR	HYLANDER	40.1	9-20	2.0	42	3170	57
MERSHMAN	WASHINGTON V	39.6	9-28	2.2	39	2990	57
-----	WINCHESTER	38.7	9-26	2.1	39	2900	58
-----	ZANE	37.8	9-23	1.7	38	2610	57
-----	WILLIAMS 82	35.6	9-29	2.2	39	2940	58
AVERAGE ALL ENTRIES		42.7	9-22	1.9	37	3100	57
DIF. REQ. FOR SIG. 5%		2.2	1.6	0.4	1.6	120	NS
25%		1.2	0.9	NS	0.9	70	NS

(CONTINUED)

TABLE 4B (CONCLUDED)			3 YEAR AVERAGE				
HOEGEMEYER	368	50.1	9-24	2.0	37	2940	58
KRUGER	K2162	49.3	9-20	1.7	35	2730	56
JACOBSEN	J972	48.9	9-25	1.6	36	3000	58
MCCURDY/RIVERSID	3033	47.5	9-23	1.5	37	3270	57
TRI VALLEY	BLAZER 87	47.3	9-19	2.0	37	3330	57
-----	HOBBIT 87	46.5	9-26	1.3	23	3070	57
TERRA	TRIUMPH	46.3	9-30	2.4	39	2980	57
ASGROW	A3205	46.1	9-29	1.3	35	3200	58
HILL SEED	HS2700	46.1	9-22	1.6	39	3240	57
GOLDEN HARVEST	H-1285	45.8	9-23	1.9	37	3110	57
HY-VIGOR	HYLANDER	45.7	9-23	2.2	42	3050	57
TRI VALLEY	CORVETTE	45.6	9-23	1.8	38	3120	57
-----	HARPER 87	45.3	9-28	1.5	35	2570	58
-----	HACK	44.7	9-19	1.3	34	2860	59
-----	CHAMBERLAIN	44.1	9-27	2.2	39	2830	58
-----	PELLA 86	43.8	9-24	1.4	35	2590	57
-----	FREMONT	43.4	9-23	1.5	37	3060	58
-----	ZANE	42.3	9-26	1.7	37	2560	57
-----	WINCHESTER	40.3	9-29	1.7	38	2810	58
-----	WILLIAMS 82	37.8	10- 1	2.1	39	2870	58
AVERAGE ALL ENTRIES		45.3	9-25	1.7	36	2960	58
DIF. REQ. FOR SIG. 5%		2.0	1.5	0.4	1.5	100	NS
25%		1.1	0.8	0.2	0.9	60	NS
			4 YEAR AVERAGE				
HY-VIGOR	HYLANDER	51.0	9-26	2.4	43	2980	57
TRI VALLEY	CORVETTE	50.7	9-25	2.0	39	3060	57
HILL SEED	HS2700	50.2	9-25	2.0	40	3160	57
-----	CHAMBERLAIN	50.0	9-29	2.3	40	2740	58
GOLDEN HARVEST	H-1285	49.9	9-25	2.1	38	3110	57
-----	HACK	48.8	9-21	1.3	35	2770	59
-----	FREMONT	48.3	9-25	1.6	39	2960	58
-----	ZANE	46.6	9-28	1.8	39	2520	57
-----	WINCHESTER	45.5	10- 1	1.9	40	2720	58
-----	WILLIAMS 82	43.0	10- 5	2.2	42	2800	58
AVERAGE ALL ENTRIES		48.4	9-27	1.9	39	2880	58
DIF. REQ. FOR SIG. 5%		2.0	1.3	0.2	0.6	80	NS
25%		1.1	0.7	0.1	0.3	40	NS
			5 YEAR AVERAGE				
HILL SEED	HS2700	49.5	9-26	2.1	40	3040	57
GOLDEN HARVEST	H-1285	49.3	9-26	2.2	40	3020	57
-----	FREMONT	47.2	9-26	1.6	40	2840	58
-----	ZANE	46.5	9-29	1.7	39	2450	57
-----	WINCHESTER	43.9	10- 2	1.9	41	2640	58
-----	WILLIAMS 82	41.7	10- 5	2.2	42	2730	58
AVERAGE ALL ENTRIES		46.3	9-29	1.9	40	2790	58
DIF. REQ. FOR SIG. 5%		1.5	1.2	0.2	NS	80	NS
25%		0.8	0.7	0.1	NS	40	NS

Table 5A. Southeast Soybean Early Performance Test. Otoe County. 1989.

BRAND	VARIETY	YIELD BU/A	MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS POUND	BUSHEL WEIGHT	PROTEIN %	OIL %	VALUE * \$/BU
MERSHMAN	KENNEDY III	39.7	10-12	1.3	24	2570	56	35.6	19.1	6.63
GOLDEN HARVEST	X 308	39.6	10-5	1.3	24	2270	56	33.5	19.6	6.39
MIDWEST OILSEEDS	EX3170	39.0	10-12	1.0	23	2660	57	36.7	18.8	6.73
OHLDE	3000	38.1	10-6	1.3	23	2430	57	34.7	19.1	6.50
KRUGER	K3031	38.1	10-9	1.0	20	2710	57	34.9	19.6	6.60
MERSHMAN	GARFIELD	37.8	10-7	1.0	24	2770	57	34.0	19.3	6.43
ASGROW	A3205	37.7	10-13	1.3	21	2770	57	37.0	18.2	6.70
WILSON BLEND	3165	37.6	10-8	1.0	24	2300	56	32.8	20.0	6.32
KAUP SEED	KS 3945	37.6	10-9	1.0	24	2240	56	34.7	19.1	6.49
-----	WILLIAMS 82	37.3	10-12	1.3	25	2380	58	36.4	18.4	6.65
HOEGEMEYER	368	37.0	10-9	1.0	23	2250	56	36.0	18.5	6.60
-----	ZANE	36.3	10-7	1.3	25	2070	56	35.2	19.5	6.61
SOI	EXP386	36.0	10-6	1.3	24	2690	57	35.9	18.8	6.63
-----	FLYER	35.3	10-12	1.0	23	3060	57	35.9	18.7	6.62
KRUGER	K3069+	35.3	10-6	1.0	22	2450	57	35.8	18.9	6.62
STAR SEED	ACHIEVER	35.3	10-12	1.0	24	2490	56	35.5	18.8	6.57
GOLDEN HARVEST	H-1355	35.2	10-13	1.5	28	2930	57	36.2	18.6	6.65
DE SOY	877	35.2	10-13	1.0	21	2610	57	36.7	18.5	6.70
-----	CHAMBERLAIN	35.1	10-8	1.0	24	2420	57	36.4	18.7	6.68
HILL SEED	HS3475	34.6	10-13	1.0	24	2530	57	34.6	19.1	6.48
S BRAND	S-62+	34.3	10-11	1.0	21	2490	57	35.5	19.2	6.62
LYNKS SEEDS	5303	34.2	10-6	1.3	23	2370	56	36.5	18.6	6.68
TRI VALLEY	COMET	34.1	10-10	1.0	22	2790	57	35.5	18.9	6.59
STAR	8832	34.0	10-6	1.3	25	2450	57	35.1	19.3	6.59
MC CUBBIN	EX 38978	34.0	10-12	1.0	23	2660	56	36.2	18.7	6.65
STINE	3040	33.6	10-8	1.0	23	2900	57	36.2	18.7	6.65
TERRA	MARATHON	33.6	10-5	1.5	23	2810	57	33.5	19.5	6.37
HOEGEMEYER	205	33.3	10-4	1.0	23	2650	56	36.0	19.2	6.68
ASGROW	A3322	33.1	10-11	1.0	21	2680	57	36.0	18.5	6.60

MC CUBBIN	TROY III	33.1	10-4	1.0	23	2670	57	34.8	19.0	6.51
-----	RESNIK	33.0	10-12	1.0	21	2810	57	36.6	18.6	6.69
TRI VALLEY	CAVALIER	32.9	10-12	1.3	24	2520	56	34.9	19.2	6.55
SOI	398	32.9	10-11	1.5	22	2870	57	34.7	19.1	6.50
-----	PELLA 86	32.9	10-8	1.0	22	2150	56	35.7	18.9	6.62
FONTANELLE	F-5529	32.8	10-11	1.0	27	3080	56	35.2	19.0	6.58
HORIZON	H-3788	32.6	10-13	1.0	24	2710	57	34.7	19.2	6.52
FONTANELLE	F-5319	32.6	10-7	1.0	24	2370	56	33.8	19.6	6.42
TERRA	ADVANCE	32.6	10-6	1.3	25	2440	57	34.3	19.3	6.47
DIAMOND BRAND	89-3303	32.5	10-10	1.0	25	3110	57	36.1	18.8	6.66
STAR SEED	CHALLENGER	32.4	10-12	1.0	25	2760	57	35.2	18.9	6.55
DEKALB-PFIZER	CX326	32.0	10-10	1.0	22	3170	57	35.1	19.1	6.57
NORTHROP KING	S 29-20	32.0	10-9	1.0	24	2500	56	35.2	19.2	6.59
NORTHROP KING	S 30-41	31.6	10-5	1.0	22	2580	57	34.8	19.4	6.55
-----	FREMONT	31.6	10-2	1.3	25	2600	56	36.0	18.8	6.64
MCCURDY/RIVERSIDE	3033	31.4	10-7	1.0	22	2670	57	36.1	19.1	6.69
-----	LOGAN	31.4	10-2	1.3	29	2560	57	35.7	18.8	6.60
-----	HOBBIT 87	31.2	10-9	1.0	20	2850	57	33.4	20.0	6.44
HILL SEED	HS3288	30.3	10-10	1.0	22	2710	57	36.6	18.8	6.72
HYPERFORMER	270	30.2	10-3	1.0	22	2770	56	35.9	19.5	6.71
-----	HARPER 87	30.1	10-12	1.0	21	2150	57	36.6	18.2	6.65
PRAIRIE BRAND	PB-395	30.1	10-13	1.3	27	2880	57	36.1	18.4	6.60
DE SOY	787+	29.5	10-8	1.0	22	2560	57	36.2	19.0	6.69
ATLAS	285	29.1	10-6	1.0	22	2790	56	35.0	19.5	6.60
-----	WINCHESTER	28.8	10-11	1.0	21	2410	57	36.7	18.4	6.69
LEWIS	310	27.9	10-12	1.0	23	2640	57	35.6	18.9	6.61
OHLDE	2930	27.4	10-11	1.0	20	3130	57	34.4	19.4	6.50
S BRAND	S-60J	27.1	10-4	1.0	22	2480	57	35.5	18.7	6.57
-----	HACK	27.0	10-5	1.0	22	2660	57	36.1	18.7	6.64
DIAMOND BRAND	D285	27.0	10-11	1.0	22	3120	57	36.0	18.5	6.61
Average all entries		33.4	10-9	1.1	23.1	2627	56.6	35.5	19.0	6.60
Dif. Req. for Sig. 5%		6.7	3.8	N.S	2.5	220	0.5	1.5	0.7	0.13
25%		3.9	2.2	N.S	1.5	130	0.3	0.9	0.4	0.08
* VALUE = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN										

Table 5B. Southeast Early Soybean Tests. 1985 - 1989.

BRAND	ENTRY	YIELD BU/A	MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS /POUND	BUSHEL WEIGHT
2 YEAR AVERAGE							
-----	WILLIAMS 82	34.4	9-17	1.8	35	2930	58
GOLDEN HARVEST	X 308	33.8	9- 8	1.6	33	3040	56
ASGROW	A3205	33.3	9-14	1.7	30	3490	57
OHLDE	3000	33.1	9- 8	1.7	32	3110	57
HOEGEMEYER	368	32.6	9-10	1.4	31	2990	56
KAUP SEED	KS 3945	32.4	9- 9	1.4	32	3050	56
-----	ZANE	31.9	9-10	1.6	33	2510	56
WILSON BLEND	3165	31.8	9- 9	1.5	33	2970	56
GOLDEN HARVEST	H-1355	31.5	9-13	1.7	38	3710	57
-----	CHAMBERLAIN	30.5	9-10	1.7	34	3100	57
-----	RESNIK	29.9	9-13	1.3	29	3440	57
NORTHRUP KING	S 29-20	29.8	9- 9	1.3	30	3360	57
LEWIS	310	29.0	9-13	1.4	31	3430	57
-----	HARPER 87	28.7	9-13	1.4	30	2700	57
-----	HACK	28.6	9- 4	1.0	29	3290	57
DEKALB-PFIZER	CX326	28.4	9-11	1.5	30	4180	57
-----	HOBBIT 87	28.3	9-10	1.0	20	3390	57
TERRA	MARATHON	28.0	9- 8	1.8	33	3390	57
S BRAND	S-60J	27.9	9- 9	1.5	31	3020	57
-----	LOGAN	27.9	9- 5	1.9	38	3280	57
-----	FREMONT	27.8	9- 4	1.3	34	3400	56
-----	PELLA 86	27.7	9- 8	1.3	30	2760	56
TERRA	ADVANCE	27.4	9- 6	1.7	33	3160	57
-----	WINCHESTER	25.7	9-15	1.4	32	3050	57
DIAMOND BRAND	D285	24.7	9-10	1.3	30	3750	57
AVERAGE ALL ENTRIES		29.6	9-9	1.5	31	3220	57
DIF. REQ. FOR SIG. 5%		NS	2.5	0.3	2.9	180	NS
25%		1.8	1.5	0.1	1.7	100	NS
3 YEAR AVERAGE							
ASGROW	A3205	38.7	9-17	1.8	31	3500	57
-----	WILLIAMS 82	37.6	9-20	1.9	36	2990	58
-----	CHAMBERLAIN	35.7	9-14	1.7	35	3100	57
-----	ZANE	35.5	9-13	1.4	33	2570	56
-----	HOBBIT 87	35.0	9-14	1.0	21	3420	57
-----	HARPER 87	34.8	9-16	1.4	31	2700	57
-----	PELLA 86	33.2	9-10	1.2	31	2770	56
-----	WINCHESTER	32.6	9-18	1.6	34	3020	57
-----	HACK	32.3	9- 4	1.0	29	3290	57
(CONTINUED)							

TABLE 5B (CONCLUDED)

TERRA	ADVANCE	31.5	9-10	1.7	34	3200	57
-----	FREMONT	31.2	9-6	1.3	33	3460	56
-----	LOGAN	28.3	9-9	1.9	36	3230	57
AVERAGE ALL ENTRIES		33.9	9-13	1.5	32	3100	57
DIF. REQ. FOR SIG. 5%		NS	2.1	0.2	2.9	100	NS
25%		1.8	1.2	0.1	1.6	60	NS
4 YEAR AVERAGE							
-----	CHAMBERLAIN	45.0	9-16	1.9	38	2930	57
-----	WILLIAMS 82	42.0	9-22	2.0	39	2910	58
-----	ZANE	41.8	9-15	1.7	34	2520	56
-----	WINCHESTER	39.4	9-21	1.8	37	2880	57
-----	HACK	38.7	9-7	1.1	31	3150	57
-----	FREMONT	37.5	9-9	1.6	36	3310	56
TERRA	ADVANCE	36.3	9-13	2.0	36	3040	57
-----	LOGAN	35.1	9-12	2.4	38	3090	57
AVERAGE ALL ENTRIES		39.5	9-14	1.8	36	2980	57
DIF. REQ. FOR SIG. 5%		NS	1.7	0.3	1.6	100	NS
25%		3.1	1.0	0.1	0.9	60	NS
5 YEAR AVERAGE							
-----	ZANE	43.5	9-16	1.5	35	2480	56
-----	WILLIAMS 82	42.8	9-24	1.9	40	2840	58
-----	WINCHESTER	41.2	9-23	1.8	38	2780	57
-----	FREMONT	40.5	9-11	1.5	36	3140	56
-----	LOGAN	39.0	9-14	2.3	40	2940	57
AVERAGE ALL ENTRIES		41.4	9-18	1.8	38	2840	57
DIF. REQ. FOR SIG. 5%		NS	1.3	0.7	1.6	120	NS
25%		NS	0.7	0.4	0.9	70	NS

Table 6A. Southeast Soybean Late Performance Test. Otoe County. 1989.

BRAND	VARIETY	YIELD BU/A	MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS POUND	BUSHEL WEIGHT	PROTEIN %	OIL %	VALUE * \$/BU
HORIZON	H-4688	41.3	10-12	1.5	25	2730	57	33.1	20.2	6.39
TERRA	TRIUMPH	38.7	10-6	1.5	26	2320	56	35.0	19.3	6.57
STINE	3790	38.1	10-12	1.0	23	2500	56	34.6	19.3	6.51
MERSHMAN	TRUMAN III	37.8	10-6	1.0	22	2360	57	34.8	18.9	6.50
MCCURDY/RIVERSID	3605	37.7	10-10	1.5	26	2400	56	35.3	19.2	6.60
OHLDE	3431A	37.3	10-11	1.0	24	2460	57	34.5	19.3	6.49
ASGROW	A3935	37.1	10-12	1.8	23	2640	57	34.3	19.2	6.46
KAUP SEED	KS 3790	36.8	10-8	1.8	26	2820	57	34.6	19.4	6.52
WILSON BLEND	3490	36.6	10-12	1.5	27	2760	57	34.6	19.0	6.47
KRUGER	K3070	36.6	10-12	1.0	26	2620	57	35.4	18.9	6.58
JACQUES	J-357	35.7	10-7	1.0	23	2750	57	35.9	19.3	6.69
SOI	394	35.4	10-2	1.0	23	2310	57	33.4	19.7	6.39
-----	485-71084	35.0	10-5	1.3	24	2730	58	33.6	19.7	6.43
S BRAND	S-67	35.0	10-13	1.0	26	2450	57	34.8	19.3	6.55
GOLDEN HARVEST	H-1391	34.3	10-7	1.3	24	2620	57	34.5	19.6	6.54
MC CUBBIN	GENTRY	34.3	10-11	1.0	23	2640	57	35.3	19.0	6.58
HOEGEMEYER	395	34.2	10-10	1.0	25	2670	56	34.0	19.5	6.44
KRUGER	KEX639	34.1	10-11	1.0	23	2640	56	35.5	18.9	6.59
HOEGEMEYER	383	34.1	10-10	1.0	22	2780	57	35.4	19.1	6.60
SOI	389	33.7	10-12	1.5	24	2600	57	34.7	19.3	6.53
MERSHMAN	WASHINGTON	33.7	10-12	1.0	25	2510	57	35.7	18.7	6.59
MC CUBBIN	EX 38106	33.6	10-8	1.5	24	2650	57	36.1	18.7	6.63
JACQUES	J-361	33.5	10-9	1.5	25	2560	57	34.6	19.3	6.52
SANSGAARD SEED	S-315	33.3	10-10	1.0	24	2230	56	35.0	19.0	6.52
NORTHROP KING	S 36-36	33.2	10-11	1.0	24	2470	57	36.9	18.8	6.75
TERRA	CYCLE	33.2	10-7	1.0	21	2700	57	35.4	19.3	6.63
ATLAS	350	33.1	10-8	1.3	22	2640	57	36.0	18.8	6.64
FONTANELLE	F-5889	33.1	10-12	1.3	28	2770	57	35.0	18.9	6.52

(CONTINUED)

TRI VALLEY	CATALINA	33.1	10-12	1.5	25	2490	56	34.5	19.3	6.50
S BRAND	S-64B	33.0	10-11	1.0	22	2450	57	35.1	19.0	6.54
DE SOY	877+	32.9	10-8	1.0	22	2660	57	35.7	18.8	6.61
DE SOY	939	32.9	10-8	1.0	22	2660	57	34.4	19.4	6.50
STINE	4915	32.8	10-11	1.0	23	2620	57	35.0	19.1	6.55
TRI VALLEY	CHARGER 90	32.8	10-8	1.3	23	2590	57	35.5	18.7	6.57
NORTHRUP KING	S 42-30	32.6	10-12	1.3	26	2870	56	37.0	18.5	6.72
MIDWEST OILSEEDS	3090	32.5	10-14	1.0	22	2440	58	36.2	18.4	6.61
FONTANELLE	F-5808	32.5	10-6	1.0	24	2410	57	35.0	19.1	6.55
DIAMOND BRAND	D301	31.8	10-12	1.0	24	2730	57	36.5	18.3	6.64
-----	PELLA 86	31.8	10-7	1.0	22	2660	57	34.8	19.5	6.56
ASGROW	A3733	31.8	10-11	1.0	22	2590	57	35.3	19.2	6.60
DEKALB-PFIZER	CX366	31.4	10-10	1.0	24	2800	57	33.5	19.9	6.42
-----	RIPLEY	31.4	10-10	1.3	22	2790	58	33.6	19.5	6.38
WILSON BLEND	3300	31.3	10-10	1.0	23	2790	57	34.6	19.7	6.56
TAYLOR	TSF330	31.3	10-2	1.0	24	2250	57	35.2	19.1	6.58
MCCURDY/RIVERSID	373	31.0	10-11	1.0	23	2820	57	35.3	18.9	6.57
KAUP SEED	EX 88-6	31.0	10-11	1.0	22	2930	57	35.3	19.2	6.60
-----	WILLIAMS 82	30.4	10-11	1.3	23	2680	58	35.2	19.2	6.58
HYPERFORMER	360	30.4	10-7	1.3	24	2500	57	35.1	19.4	6.60
DIAMOND BRAND	D300	30.3	10-7	1.5	23	2780	57	35.6	19.0	6.61
-----	WINCHESTER	30.3	10-6	1.3	23	2480	57	36.0	18.7	6.63
-----	485-74089	30.0	10-5	1.0	22	2730	58	35.2	19.1	6.58
LEWIS	367	30.0	10-13	1.5	27	2750	57	35.6	18.6	6.56
STAR	EX 8934	29.9	10-11	1.0	23	2600	57	35.7	18.8	6.61
MIDWEST OILSEEDS	3940	29.8	10-9	1.3	21	2730	58	33.6	19.9	6.43
-----	HAMILTON	28.3	10-8	1.3	24	2660	57	34.8	19.4	6.56
-----	FREMONT	28.0	10-10	1.0	23	2530	57	35.8	19.1	6.65
STAR	EX 8933	27.8	10-9	1.0	22	2880	57	36.1	18.8	6.66
OHLDE	3431	27.0	10-11	1.0	23	2330	57	34.7	19.2	6.52
LYNKS SEEDS	5376	26.8	10-8	1.0	22	2690	57	36.6	18.5	6.68
Average all entries		33.0	10-9	1.2	23.5	2610	56.9	35.1	19.2	6.56
Dif. Req. for Sig.	5%	6.6	4.2	0.5	3.2	370	0.5	0.9	0.5	0.07
25%		3.9	2.5	0.3	1.8	210	0.3	0.5	0.3	0.04

* VALUE = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN

Table 6B. Southeast Late Soybean Tests. 1985 - 1989.

BRAND	ENTRY	YIELD BU/A	MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS /POUND	BUSHEL WEIGHT
2 YEAR AVERAGE							
TERRA	TRIUMPH	33.1	9-11	2.2	36	3290	56
STINE	3790	32.4	9-14	1.4	33	3110	56
KRUGER	K3070	32.0	9-16	1.3	34	3150	57
GOLDEN HARVEST	H-1391	32.0	9-12	1.3	33	3280	57
S BRAND	S-64B	31.7	9-13	1.4	32	3230	57
WILSON BLEND	3490	31.6	9-15	1.7	37	3350	57
S BRAND	S-67	31.3	9-16	1.3	34	3160	57
TRI VALLEY	CATALINA	31.2	9-16	1.7	34	3080	56
SOI	389	31.0	9-16	1.5	34	3230	57
TERRA	CYCLE	30.9	9-13	1.3	32	3330	57
TRI VALLEY	CHARGER 90	30.7	9-10	1.7	32	3130	57
HOEGEMEYER	395	30.6	9-13	1.3	34	3110	56
NORTHRUP KING	S 36-36	30.0	9-16	1.4	34	3190	57
MC CUBBIN	EX 38106	29.8	9-10	1.7	33	3390	57
TAYLOR	TSF330	29.7	9-7	1.5	33	2960	57
DIAMOND BRAND	D300	29.6	9-9	1.8	32	3420	57
ASGROW	A3733	29.6	9-17	1.2	30	3050	57
MERSHMAN	WASHINGTON	29.6	9-16	1.4	34	3160	57
KAUP SEED	KS 3790	29.5	9-11	1.8	36	3480	57
DEKALB-PFIZER	CX366	29.4	9-12	1.4	34	3400	57
ATLAS	350	29.3	9-10	1.7	32	3140	57
MIDWEST OILSEEDS	3940	29.3	9-11	1.4	30	3600	58
NORTHRUP KING	S 42-30	29.3	9-17	1.2	34	3290	56
DIAMOND BRAND	D301	28.7	9-14	1.5	36	3390	57
MCCURDY/RIVERSID	373	28.2	9-14	1.5	35	3430	57
-----	RIPLEY	28.2	9-15	1.2	26	3680	58
LEWIS	367	28.1	9-17	1.7	37	3490	57
-----	WILLIAMS 82	26.9	9-16	1.7	34	3230	58
-----	PELLA 86	26.9	9-8	1.5	30	3170	57
-----	WINCHESTER	26.3	9-12	1.4	32	2910	57
OHLDE	3431	26.0	9-11	1.3	31	3170	57
-----	FREMONT	25.7	9-4	1.4	33	3460	57
AVERAGE ALL ENTRIES		29.6	9-13	1.5	33	3260	57
DIF. REQ. FOR SIG. 5%		NS	2.2	NS	2.1	NS	NS
25%		1.2	1.3	0.2	1.2	120	NS
3 YEAR AVERAGE							
STINE	3790	36.7	9-18	1.6	34	3090	56
TRI VALLEY	CATALINA	36.7	9-19	1.8	35	3100	56

(CONTINUED)

TABLE 6B (CONCLUDED)

S BRAND	S-67	36.2	9-19	1.5	35	3140	57
ATLAS	350	35.5	9-14	1.6	32	3180	57
MERSHMAN	WASHINGTON	35.2	9-19	1.5	35	3150	57
ASGROW	A3733	35.0	9-20	1.4	31	3120	57
MIDWEST OILSEEDS	3940	34.5	9-14	1.3	30	3550	58
LEWIS	367	34.4	9-19	1.8	38	3390	57
KAUP SEED	KS 3790	34.2	9-15	2.0	36	3310	57
DIAMOND BRAND	D301	33.7	9-17	1.7	37	3380	57
NORTHRUP KING	S 42-30	33.3	9-19	1.1	33	3360	56
-----	RIPLEY	33.1	9-19	1.1	25	3700	58
OHLDE	3431	33.1	9-14	1.2	31	3130	57
-----	WILLIAMS 82	31.7	9-20	1.8	36	3200	58
-----	WINCHESTER	31.3	9-16	1.5	34	2880	57
-----	PELLA 86	31.2	9- 9	1.3	30	3070	57
-----	FREMONT	28.8	9- 6	1.3	33	3510	57
AVERAGE ALL ENTRIES		33.8	9-16	1.5	33	3250	57
DIF. REQ. FOR SIG. 5%		2.0	1.7	0.3	1.8	170	NS
25%		1.1	1.0	0.2	1.0	100	NS
4 YEAR AVERAGE							
STINE	3790	44.2	9-23	1.8	37	2980	56
S BRAND	S-67	43.7	9-22	1.8	38	3010	57
ASGROW	A3733	42.3	9-23	1.5	34	2980	57
NORTHRUP KING	S 42-30	42.2	9-21	1.2	35	3200	56
MERSHMAN	WASHINGTON	42.1	9-19	2.0	36	3080	57
OHLDE	3431	40.9	9-17	1.3	33	2950	57
-----	RIPLEY	39.3	9-22	1.2	27	3600	58
-----	WILLIAMS 82	39.0	9-22	2.1	40	3050	58
-----	WINCHESTER	38.8	9-19	1.9	36	2790	57
-----	FREMONT	35.7	9- 9	1.7	36	3370	57
AVERAGE ALL ENTRIES		40.8	9-20	1.6	35	3100	57
DIF. REQ. FOR SIG. 5%		1.7	2.4	0.3	2.0	130	NS
25%		0.9	1.4	0.2	1.1	80	NS
5 YEAR AVERAGE							
STINE	3790	46.4	9-25	1.9	38	2910	56
NORTHRUP KING	S 42-30	44.4	9-23	1.2	36	3120	56
-----	WINCHESTER	40.9	9-21	1.9	37	2710	57
-----	WILLIAMS 82	40.7	9-25	2.0	41	2960	58
AVERAGE ALL ENTRIES		43.1	9-24	1.7	38	2920	57
DIF. REQ. FOR SIG. 5%		1.1	NS	0.2	1.6	70	NS
25%		0.6	1.8	0.1	0.9	40	NS

Table 7A. South Central Irrigated Soybean Early Performance Tests.
Two Tests. Clay and Nuckolls Counties. 1989.

BRAND	VARIETY	YIELD BU/A	MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS POUND	PROTEIN %	OIL %	VALUE * \$/BU
ARROW SEED	EXP.89-25	61.1	9-26	1.7	39	2440	33.2	19.4	6.31
MERSHMAN	MOHAWK	60.1	9-23	1.0	35	2400	35.8	18.5	6.58
OHLDE	3000	60.0	9-25	1.5	39	2370	33.8	19.6	6.41
WILSON BLEND	3165	59.9	9-25	1.5	39	2450	33.5	19.4	6.34
GOLDEN HARVEST	H-1277	59.7	9-21	1.3	38	2800	34.8	19.5	6.55
MC CUBBIN	TAYLOR	59.2	9-22	1.6	38	2520	35.1	19.2	6.57
SOI	268	58.8	9-20	1.6	38	2840	35.3	19.2	6.60
SOI	EXP386	58.7	9-25	1.4	36	2580	35.8	18.6	6.60
HILL SEED	HS2380	57.9	9-19	1.2	35	2280	35.1	19.5	6.60
HORIZON	H-21	57.7	9-24	1.8	37	2430	35.1	19.3	6.58
GOLDEN HARVEST	H-1285	57.7	9-22	1.4	36	2560	35.5	19.6	6.65
HILL SEED	HS2700	57.6	9-22	1.6	39	2460	35.2	19.4	6.60
TRI VALLEY	CAPRI	57.4	9-27	2.0	38	2740	35.4	18.7	6.54
-----	CONRAD	57.3	9-17	1.0	35	2500	33.8	19.6	6.42
DAHLGREN	DS-3285	57.2	9-23	1.4	37	2610	36.2	19.1	6.69
NORTHROP KING	S 29-20	57.1	9-22	1.3	40	2340	35.3	19.2	6.59
STINE	3000	57.0	9-23	1.2	37	2330	34.4	19.6	6.51
TERRA	SPRINT	57.0	9-23	1.4	39	2480	34.9	19.3	6.55
SOI	392	57.0	9-24	2.1	41	2150	34.5	19.8	6.56
S BRAND	S-55A	56.8	9-27	1.5	41	2610	34.7	19.7	6.57
HYPERFORMER	270	56.7	9-22	1.7	36	2650	35.4	19.1	6.61
DIAMOND BRAND	TC204A	56.6	9-22	1.4	37	2550	34.7	19.6	6.57
CIBA-GEIGY SEED	G-3300	56.5	9-23	1.6	38	2570	35.8	19.2	6.65
TRI VALLEY	BLAZER 87	56.3	9-22	1.6	37	2870	34.7	19.4	6.54
TERRA	MEDALIST	56.2	9-21	1.3	37	2910	34.2	19.5	6.46
-----	BURLESON	56.2	9-25	1.3	35	2300	37.3	18.2	6.72
MERSHMAN	CHICKASAW	56.2	9-22	1.5	37	2750	34.9	19.3	6.55

MC CUBBIN	TAHOE	56.0	9-21	1.3	36	2050	34.2	19.7	6.51
TERRA	JAVELIN	55.9	9-20	1.7	37	2600	34.8	19.3	6.53
S BRAND	B-270	55.8	9-22	1.1	38	2630	35.2	19.1	6.57
CIBA-GEIGY SEED	G-3232	55.5	9-21	1.6	40	2660	35.0	19.2	6.54
STINE	3905	55.5	9-26	1.5	38	2710	34.8	19.3	6.52
LYNKs SEEDS	5288	55.4	9-24	1.6	42	2340	35.0	19.4	6.57
-----	HACK	55.3	9-20	1.1	37	2410	34.8	19.4	6.55
DIAMOND BRAND	D285	55.3	9-25	1.6	36	2780	35.7	18.8	6.59
-----	PELLA 86	55.3	9-24	1.3	37	2140	34.6	19.3	6.52
-----	FARM ENTRY	55.3	9-23	1.4	37	2550	35.2	19.2	6.58
FONTANELLE	F-4309	54.6	9-21	1.0	31	2450	37.0	19.0	6.77
TRI VALLEY	CIERRA	54.5	9-29	1.5	36	2900	34.7	19.3	6.51
HOEGEMEYER	237	54.2	9-19	1.4	36	2320	34.2	19.7	6.50
OHLDE	2930	54.0	9-27	1.2	36	2940	35.6	19.0	6.60
NORTHROP KING	S 27-10	54.0	9-19	1.2	35	2660	35.2	18.8	6.52
HORIZON	H-2987	53.9	9-21	1.7	45	2340	34.7	19.5	6.55
ATLAS	285	53.9	9-23	1.2	36	2510	35.0	19.1	6.54
STAR SEED	ACHIEVER	53.9	9-30	2.5	43	2740	35.7	18.7	6.58
-----	CENTURY 84	53.6	9-23	1.2	38	2370	37.3	18.3	6.73
SEXAUER	SX-3010	53.2	9-26	1.4	36	2560	36.8	18.7	6.72
HOEGEMEYER	205	53.2	9-23	1.4	37	2560	34.7	19.4	6.54
FONTANELLE	F-4875	52.6	9-26	2.8	35	2610	35.8	18.5	6.58
-----	FREMONT	52.3	9-24	1.1	39	2350	34.6	19.6	6.53
S BRAND	B-300	51.9	9-29	5.5	33	2400	34.7	19.7	6.57
-----	HOYT	51.3	9-20	1.1	26	2960	36.1	18.8	6.64
DEKALB-PFIZER	CX326	51.1	9-25	1.6	38	3110	35.1	19.3	6.56
STAR SEED	CHALLENGE	51.0	9-30	2.5	44	2780	35.6	18.9	6.59
-----	LOGAN	50.9	9-25	2.0	44	2250	34.6	19.4	6.51
-----	WEBER 84	50.6	9-15	1.5	39	2810	34.6	19.5	6.54
Average all entries		55.6	9-23	1.5	37.1	2552	35.1	19.2	6.56
Dif. Req. for Sig. 5%		4.8	1.3	N.S	2.7	220	0.7	0.3	0.08
25%		2.8	0.7	N.S	1.6	130	0.4	0.2	0.05
* VALUE = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN									

Table 7B. South Central Irrigated Early Soybean Tests.
1985 - 1989

BRAND	ENTRY	YIELD BU/A	MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS /POUND
2 YEAR AVERAGE						
WILSON BLEND	3165	58.1	9-24	1.4	38	2450
TRI VALLEY	CAPRI	57.2	9-26	1.9	39	2740
GOLDEN HARVEST	H-1277	56.7	9-20	1.5	38	2800
MERSHMAN	MOHAWK	56.5	9-24	1.2	34	2400
HILL SEED	HS2700	56.2	9-22	1.6	38	2460
OHLDE	3000	56.1	9-24	1.6	37	2470
MC CUBBIN	TAYLOR	56.1	9-22	1.6	36	2520
GOLDEN HARVEST	H-1285	55.9	9-22	1.6	36	2620
SOI	268	55.9	9-19	1.8	38	2840
TERRA	SPRINT	55.6	9-23	1.5	39	2480
MERSHMAN	CHICKASAW	55.2	9-21	1.5	37	2750
LYNKS SEEDS	5288	54.7	9-23	1.6	42	2340
TRI VALLEY	BLAZER 87	54.7	9-20	1.5	37	2870
FONTANELLE	F-4309	54.5	9-20	1.0	31	2450
ARROW SEED	EXP.89-25	54.3	9-24	1.8	37	2710
ARROW SEED	AS2845	54.3	9-24	1.8	37	2710
-----	CONRAD	54.3	9-17	1.3	33	2530
TERRA	MEDALIST	54.1	9-21	1.4	37	2910
HOEGEMEYER	205	53.9	9-23	1.6	35	2730
NORTHRUP KING	S 29-20	53.2	9-22	1.4	39	2340
DAHLGREN	DS-3285	53.1	9-22	1.6	35	2720
TERRA	JAVELIN	52.9	9-19	1.8	37	2600
DEKALB-PFIZER	CX298	52.7	9-23	1.5	32	2480
SANSGAARD SEED	ZEPHYR	52.3	9-20	2.2	35	2970
-----	FARM ENTRY	51.8	9-24	1.6	37	2830
HORIZON	H-28	51.2	9-20	1.9	33	2700
-----	HACK	51.1	9-20	1.1	35	2390
-----	BURLESON	50.8	9-23	1.5	34	2430
-----	PELLA 86	50.5	9-24	1.5	37	2350
NORTHRUP KING	S 27-10	50.2	9-18	1.2	34	2660
MC CUBBIN	TAYLOR 88	50.1	9-18	2.2	36	2990
STINE	2770	50.1	9-18	2.0	34	3050
ARROW SEED	AS2675	50.0	9-17	1.3	32	2620
-----	FREMONT	49.6	9-22	1.4	37	2380
-----	LOGAN	48.9	9-24	2.2	44	2330
-----	CENTURY 84	48.5	9-21	1.3	35	2330
-----	WEBER 84	47.6	9-15	1.8	36	2860
AVERAGE ALL ENTRIES		54.4	9-21	1.5	37	2530
DIF. REQ. FOR SIG. 5%		1.8	1.2	0.2	0.9	NS
25%		1.0	0.7	0.1	0.5	NS

(CONTINUED)

TABLE 7B (CONCLUDED)			3 YEAR AVERAGE			
OHLDE	3000	56.8	9-22	1.5	38	2580
SOI	268	55.2	9-17	1.8	37	3000
GOLDEN HARVEST	H-1285	55.0	9-20	1.6	37	2720
HILL SEED	HS2700	55.0	9-20	1.5	38	2670
GOLDEN HARVEST	H-1277	54.1	9-18	1.5	38	2980
TERRA	SPRINT	52.9	9-21	1.5	38	2720
NORTHRUP KING	S 29-20	52.1	9-20	1.4	40	2500
HORIZON	H-28	51.2	9-15	1.8	34	2900
STINE	2770	51.1	9-16	1.9	35	3070
ARROW SEED	AS2675	50.5	9-14	1.3	33	2630
-----	PELLA 86	50.3	9-22	1.5	37	2410
-----	HACK	50.3	9-16	1.2	35	2510
NORTHRUP KING	S 27-10	49.1	9-16	1.2	33	2830
-----	FREMONT	48.0	9-20	1.4	38	2550
-----	LOGAN	47.6	9-21	2.1	44	2450
-----	CENTURY 84	46.8	9-19	1.3	36	2540
-----	WEBER 84	46.7	9-12	1.9	36	3040
AVERAGE ALL ENTRIES		51.9	9-19	1.5	38	2690
DIF. REQ. FOR SIG. 5%		1.6	1.1	0.1	0.9	70
25%		0.9	0.6	0.1	0.5	40
			4 YEAR AVERAGE			
SOI	268	58.6	9-18	1.9	38	3050
GOLDEN HARVEST	H-1285	57.7	9-21	1.7	37	2750
HILL SEED	HS2700	56.7	9-21	1.7	38	2720
STINE	2770	54.6	9-16	2.0	36	3100
ARROW SEED	AS2675	54.5	9-15	1.4	34	2560
-----	HACK	53.3	9-17	1.1	35	2500
NORTHRUP KING	S 27-10	52.7	9-17	1.4	33	2800
-----	FREMONT	50.2	9-21	1.4	38	2550
-----	CENTURY 84	49.5	9-19	1.3	36	2560
-----	LOGAN	48.9	9-21	2.2	44	2470
-----	WEBER 84	48.3	9-11	2.2	36	3110
AVERAGE ALL ENTRIES		53.5	9-18	1.7	38	2750
DIF. REQ. FOR SIG. 5%		1.5	1.2	0.2	0.8	70
25%		0.9	0.7	0.1	0.4	40
			5 YEAR AVERAGE			
GOLDEN HARVEST	H-1285	56.3	9-24	2.0	38	2700
HILL SEED	HS2700	55.7	9-24	1.9	38	2680
-----	HACK	52.8	9-20	1.2	36	2480
NORTHRUP KING	S 27-10	51.4	9-19	1.5	34	2820
-----	CENTURY 84	49.0	9-21	1.3	37	2510
-----	LOGAN	48.5	9-24	2.4	45	2430
AVERAGE ALL ENTRIES		52.7	9-22	1.7	38	2620
DIF. REQ. FOR SIG. 5%		1.3	1.1	0.2	0.6	70
25%		0.8	0.6	0.1	0.3	40

Table 8A. South Central Irrigated Soybean Late Performance Tests.
Two tests. Clay and Nuckolls Counties. 1989.

BRAND	VARIETY	YIELD BU/A	MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS POUND	PROTEIN %	OIL %	VALUE * \$/BU
GOLDEN HARVEST	X 308	62.4	9-25	1.9	40	2640	33.6	19.5	6.38
FONTANELLE	F-5319	61.1	9-24	1.9	40	2540	34.4	19.3	6.49
HOEGEMEYER	368	60.8	9-26	2.0	41	2520	34.5	19.2	6.46
MERSHMAN	KENNEDY III	59.1	9-29	1.7	39	2690	35.4	19.0	6.57
TRI VALLEY	CELICA	59.0	9-25	1.3	36	2600	35.3	18.8	6.55
DIAMOND BRAND	D300	58.3	9-26	1.6	38	2710	36.0	18.7	6.62
MIDWEST OILSEEDS	EX3170	57.9	9-30	1.7	43	2720	36.1	18.7	6.65
MC CUBBIN	EX 38106	57.8	9-26	2.3	39	2720	35.8	18.8	6.60
-----	PELLA 86	57.6	9-24	1.7	40	2420	33.9	19.7	6.47
-----	HACK	57.6	9-21	1.2	36	2370	34.6	19.6	6.53
ATLAS	350	57.3	9-27	2.3	39	2740	34.6	19.2	6.50
LYNKs SEEDS	5303	57.1	9-25	2.1	39	2600	34.8	19.3	6.53
-----	RESNIK	56.8	9-26	1.5	37	2790	35.6	19.1	6.61
OHLDE	3650	56.6	9-30	2.0	39	2630	36.2	18.9	6.67
-----	HOBBIT 87	56.4	9-27	1.1	26	2760	34.0	19.7	6.47
-----	ZANE	56.4	9-24	1.9	42	2260	34.8	19.5	6.57
CENEX/LAND O'LAK	L3901	56.3	9-28	2.1	41	2660	35.2	19.0	6.56
HILL SEED	HS3288	56.2	9-26	2.7	41	2630	35.3	18.9	6.56
S BRAND	S-62+	55.9	9-28	1.6	37	2880	35.2	18.9	6.54
ASGROW	A3322	55.8	9-27	1.4	36	2680	36.3	18.6	6.65
TRI VALLEY	CATALINA	55.4	9-30	1.8	41	2550	34.8	19.2	6.53
-----	FARM ENTRY	55.4	9-28	1.6	39	2950	35.6	19.2	6.63
S BRAND	S-60J	55.3	9-27	1.5	40	2590	35.3	18.8	6.56
DIAMOND BRAND	89-2305	55.2	10-1	2.5	41	2660	36.0	18.8	6.63
-----	HARPER 87	55.1	9-25	1.5	36	2350	35.6	19.0	6.62
TRI VALLEY	CAVALIER	55.1	9-28	1.6	38	2830	35.0	19.3	6.56
MERSHMAN	WASHINGTON V	55.0	9-29	2.0	42	2560	35.5	19.0	6.59

HILL SEED	HS3475	54.9	9-28	2.1	41	2680	34.8	19.3	6.53
GOLDEN HARVEST	H-1355	54.8	9-30	2.3	46	2770	34.7	19.3	6.52
ASGROW	A3935	54.7	10-3	2.0	41	3040	34.7	19.4	6.54
DEKALB-PFIZER	CX366	54.6	9-28	2.0	43	2620	34.8	19.0	6.50
STINE	3790	54.3	9-28	1.5	40	2680	34.9	19.1	6.52
HYPERFORMER	360	54.2	9-28	1.8	40	2710	35.1	19.2	6.57
DIAMOND BRAND	D305	54.2	9-29	2.2	41	2570	34.8	19.0	6.49
-----	FREMONT	54.2	9-23	1.5	41	2510	34.7	19.7	6.57
HOEGEMEYER	383	54.1	9-30	1.7	40	2810	34.8	19.2	6.52
TERRA	TRIUMPH	54.0	9-28	2.9	44	2690	34.6	19.3	6.50
ASGROW	A3733	53.7	10-2	1.5	37	2700	35.5	19.0	6.60
SOI	389	53.7	9-29	1.9	39	2820	34.7	19.4	6.54
MC CUBBIN	GENTRY	53.7	9-28	2.0	40	2680	34.9	19.3	6.54
-----	FLYER	53.3	9-30	1.7	40	2900	35.6	18.9	6.60
HORIZON	H-3788	53.1	9-29	2.0	41	2750	35.4	19.1	6.61
TERRA	ADVANCE	53.1	9-26	2.0	41	2490	35.0	19.3	6.57
OHLDE	3431	52.9	10-2	1.6	43	2420	35.5	18.9	6.58
SOI	398	52.9	9-29	1.6	35	3050	35.2	18.7	6.52
FONTANELLE	F-5808	52.9	9-27	2.1	42	2700	35.0	19.2	6.54
TERRA	CYCLE	52.2	9-28	1.7	41	2570	34.7	19.6	6.55
S BRAND	S-57A	51.6	9-30	1.5	39	3120	35.8	18.9	6.63
NORTHROP KING	S 36-36	51.5	9-22	1.9	41	4510	35.9	18.9	6.64
-----	WINCHESTER	50.8	9-28	2.5	42	2390	35.5	19.0	6.61
-----	CHAMBERLAIN	50.5	9-27	3.0	43	2460	35.5	19.1	6.61
SEXAUER	SX-3050	50.4	9-29	1.5	34	3090	34.9	19.1	6.53
-----	WILLIAMS 82	47.1	9-30	2.5	44	2700	36.0	19.0	6.65
Average all entries		55.1	9-28	1.8	39.3	2701	35.1	19.1	6.56
Dif. Req. for Sig.	5% For Sig.	3.9	2.8	0.7	2.1	N.S	1.0	0.4	0.09
	25%	2.3	1.6	0.4	1.2	N.S	0.6	0.2	0.06
* VALUE = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN									

Table 8B. South Central Irrigated Late Soybean Tests.
1985 - 1989.

BRAND	ENTRY	YIELD BU/A	MATURE DATE	LODGING SCORE	HEIGHT INCHES	SEEDS /POUND
2 YEAR AVERAGE						
HOEGEMEYER	368	59.0	9-26	1.8	40	2520
TRI VALLEY	CELICA	58.2	9-25	1.3	36	2600
ATLAS	350	57.7	9-27	2.1	39	2740
-----	RESNIK	55.7	9-27	1.7	38	2890
GOLDEN HARVEST	X 308	55.6	9-25	1.9	41	2800
DEKALB-PFIZER	CX366	55.6	9-28	1.7	42	2620
SOI	389	55.4	10- 1	1.7	40	2820
TRI VALLEY	CATALINA	55.4	10- 1	1.8	41	2550
ASGROW	A3935	55.4	10- 3	1.9	41	3040
CENEX/LAND O'LAK	L3901	55.4	9-30	1.8	40	2660
GOLDEN HARVEST	H-1355	55.3	9-30	2.0	45	2770
-----	HACK	55.0	9-21	1.4	35	2400
-----	HOBBIT 87	54.4	9-26	1.1	23	2760
TRI VALLEY	CAVALIER	54.3	9-28	1.8	40	2830
TERRA	TRIUMPH	53.6	9-29	2.6	42	2690
TERRA	ADVANCE	53.5	9-27	1.9	40	2490
-----	FREMONT	53.1	9-23	1.6	39	2570
-----	PELLA 86	53.0	9-24	1.7	39	2420
OHLDE	3431	53.0	9-30	1.7	39	2420
NORTHRUP KING	S 36-36	52.9	9-25	1.8	40	4510
-----	HARPER 87	52.8	9-26	1.6	38	4400
-----	ZANE	52.3	9-26	1.8	40	2280
TERRA	CYCLE	51.2	9-28	1.6	41	2570
S BRAND	S-60J	51.1	9-28	1.5	37	2650
-----	CHAMBERLAIN	51.0	9-28	2.5	42	2570
MERSHMAN	WASHINGTON V	50.8	9-30	2.0	41	2690
MC CUBBIN	GENTRY	50.7	9-29	1.9	43	2680
S BRAND	S-57A	49.8	9-28	1.4	39	3200
-----	WINCHESTER	49.4	9-28	2.2	41	2450
DEKALB-PFIZER	CX326	48.8	9-24	2.0	38	3380
-----	WILLIAMS 82	44.8	9-29	2.2	44	2780
AVERAGE ALL ENTRIES		54.9	9-27	1.7	40	2680
DIF. REQ. FOR SIG. 5%		1.9	1.6	0.2	1.6	NS
25%		1.1	0.9	0.1	0.9	NS
3 YEAR AVERAGE						
ATLAS	350	56.5	9-25	1.9	39	2830
ASGROW	A3935	56.5	9-30	1.9	41	3010
-----	HOBBIT 87	55.6	9-24	1.1	24	2890

(CONTINUED)

TABLE 8B (CONCLUDED)

TRI VALLEY	CATALINA	55.4	9-28	1.7	41	2680
TRI VALLEY	CAVALIER	54.4	9-26	1.7	41	2820
OHLDE	3431	54.2	9-27	1.6	40	2460
-----	HACK	53.9	9-16	1.3	35	2570
-----	HARPER 87	53.0	9-24	1.5	38	3440
-----	PELLA 86	52.3	9-22	1.6	39	2450
-----	ZANE	52.2	9-23	1.6	40	2350
-----	CHAMBERLAIN	51.8	9-26	2.3	43	2610
-----	FREMONT	51.0	9-20	1.6	40	2670
-----	WINCHESTER	48.1	9-26	2.0	42	2540
-----	WILLIAMS 82	45.0	9-27	2.1	45	2760
AVERAGE ALL ENTRIES		53.8	9-25	1.7	39	2630
DIF. REQ. FOR SIG. 5%		2.0	0.3	0.2	1.1	70
25%		1.1	0.2	0.1	0.6	40
4 YEAR AVERAGE						
TRI VALLEY	CAVALIER	56.4	9-26	1.7	41	2690
-----	HACK	55.9	9-17	1.3	35	2540
-----	CHAMBERLAIN	54.6	9-26	2.2	43	2540
-----	ZANE	54.5	9-23	1.6	40	2320
-----	FREMONT	52.6	9-21	1.6	40	2630
-----	WINCHESTER	49.6	9-27	2.0	42	2520
-----	WILLIAMS 82	46.5	9-28	2.1	45	2740
AVERAGE ALL ENTRIES		53.6	9-24	1.7	41	2550
DIF. REQ. FOR SIG. 5%		1.7	1.2	0.2	0.9	80
25%		0.9	0.7	0.1	0.5	40
5 YEAR AVERAGE						
-----	ZANE	52.6	9-25	1.7	40	2280
-----	FREMONT	50.0	9-23	1.7	40	2570
-----	WINCHESTER	47.4	9-29	2.2	42	2470
-----	WILLIAMS 82	44.0	9-30	2.4	45	2690
AVERAGE ALL ENTRIES		49.2	9-27	2.0	42	2490
DIF. REQ. FOR SIG. 5%		1.4	1.0	0.2	0.8	30
25%		0.8	0.5	0.1	0.4	20

Table 9A. Central Irrigated Soybeans Early Performance Test. Howard County. 1989.

BRAND	VARIETY	YIELD		LODGING SCORE	HEIGHT INCHES	SEEDS POUND	PROTEIN %	OIL VALUE *	
		BU/A	%					%	\$/BU
LYNKS SEEDS	5245	58.4	1.8	30	2290	32.6	19.9	6.28	
-----	KENWOOD	56.0	2.0	30	2690	32.1	20.0	6.22	
HORIZON	H-21	55.4	1.9	36	2660	33.3	19.4	6.33	
DEKALB-PFIZER	CX298	54.6	1.8	31	2480	33.5	19.7	6.40	
JACOBSEN	J824	53.7	2.1	33	2640	33.7	19.3	6.37	
HOEGEMEYER	205	53.3	2.0	34	2900	33.8	19.3	6.40	
OHLDE	3000A	52.7	2.0	36	2590	32.3	19.6	6.20	
STAR	EX 831	52.7	2.0	32	2530	32.1	20.0	6.21	
GOLDEN HARVEST	H-1285	52.6	2.3	36	2750	31.6	20.1	6.15	
SANSGAARD SEED	ZEPHYR	52.5	2.3	33	2970	32.6	19.9	6.28	
HILL SEED	HS2380	52.4	1.6	31	2340	33.7	19.5	6.40	
-----	CONRAD	52.3	1.5	31	2550	30.3	20.7	5.95	
JACOBSEN	J897	51.5	1.5	30	2500	33.3	19.9	6.39	
CIBA-GEIGY SEED	G-3300	51.3	2.0	33	2640	28.7	21.2	5.73	
STINE	2770	51.1	2.5	31	3050	33.4	19.5	6.36	
OHLDE	3000	51.0	1.9	33	2570	32.2	19.8	6.21	
ARROW SEED	AS2845	50.5	2.4	39	3170	31.1	19.7	6.04	
STINE	2840	50.5	1.6	31	2380	29.7	20.9	5.92	
ARROW SEED	EXP.89-25	50.4	1.5	31	2740	29.0	21.6	5.88	
DAHLGREN	DS-3220	50.2	1.5	28	2340	29.0	21.6	5.88	
DAHLGREN	DS-3285	50.0	1.8	33	2820	33.8	19.5	6.42	
HORIZON	H-28	49.8	1.8	30	2700	32.2	19.8	6.21	
WILSON BLEND	2606	49.8	1.3	27	2500	32.5	20.5	6.35	
-----	FARM ENTRY	49.7	1.8	36	3120	33.0	19.7	6.33	

MC CUBBIN	CUSTER	48.9	2.1	32	2900	31.5	20.0	6.14
MC CUBBIN	TAYLOR 88	48.9	2.6	34	2990	33.9	19.3	6.40
MERSHMAN	CHEYENNE II	48.7	1.5	32	2720	33.7	19.4	6.40
SOI	380	48.7	3.0	37	2590	31.9	20.0	6.19
HOEGEMEYER	237	48.4	1.3	31	2570	30.5	20.4	6.02
S BRAND	B-270	48.2	2.1	34	2760	32.8	19.5	6.26
MERSHMAN	MOHAVE	47.9	2.0	34	2700	32.8	19.9	6.32
ARROW SEED	AS2675	47.8	1.1	28	2620	31.4	20.1	6.14
STAR	8829	47.8	1.8	29	2410	32.9	19.7	6.31
-----	LOGAN	47.2	2.3	44	2420	33.0	19.6	6.31
-----	PELLA 86	47.2	1.6	35	2560	32.5	19.7	6.25
-----	WEBER 84	47.1	1.6	31	2910	29.3	21.4	5.86
-----	BURLESON	46.7	2.1	33	2570	33.7	19.1	6.35
-----	CENTURY 84	45.9	1.6	31	2280	33.0	19.5	6.30
S BRAND	S-250	45.8	1.3	27	2370	30.9	20.8	6.14
SOI	392	45.7	2.4	38	2310	32.5	20.2	6.30
-----	FREMONT	45.4	1.8	33	2410	32.9	19.9	6.33
CIBA-GEIGY SEED	G-3232	45.4	2.0	35	2680	33.6	19.4	6.36
GOLDEN HARVEST	H-1233	45.3	1.6	29	2500	30.0	21.2	6.07
-----	HACK	45.3	1.3	31	2370	33.1	19.4	6.31
ATLAS	225	44.5	1.6	30	2470	29.0	21.0	5.76
S BRAND	B-300	43.8	1.8	32	2980	30.5	20.5	6.04
-----	HOYT	42.7	2.0	26	2870	32.0	20.3	6.20
Average all entries								
		49.4	1.9	32.3	2630	32.1	20.0	6.21
Dif. Req. for Sig. 5%								
		7.8	0.7	5.0	440	4.9	2.0	0.60
25%								
		4.6	0.4	2.9	260	2.9	0.1	0.35
VALUE = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN								

Table 10A. Central Irrigated Soybean Late Performance Test. Howard County. 1989.

BRAND	VARIETY	YIELD BU/A	LODGING SCORE	HEIGHT INCHES	SEEDS POUND	PROTEIN %	OIL %	VALUE * \$/BU
SOI	394	48.9	2.1	37	2890	33.4	19.1	6.30
---	ZANE	48.7	2.5	38	2310	32.0	20.1	6.24
JACOBSEN	J972	48.3	2.5	38	2730	33.2	19.1	6.28
---	HACK	48.2	1.9	37	2460	33.0	19.6	6.31
---	HOBBIT 87	48.0	1.4	24	2780	30.5	20.9	6.04
OHLDE	3431	47.6	2.0	36	2420	33.2	19.5	6.32
MERSHMAN	KENNEDY III	45.0	1.9	40	3260	32.8	19.7	6.28
---	FREMONT	44.9	2.2	36	2690	31.9	20.4	6.25
MC CUBBIN	EX 38106	44.1	2.1	36	2980	34.5	19.0	6.46
GOLDEN HARVEST	X 308	44.1	2.7	45	2950	32.0	19.8	6.18
DEKALB-PFIZER	CX326	43.7	2.6	39	3380	31.2	20.6	6.17
S BRAND	S-57A	43.4	1.6	41	3280	32.9	19.6	6.29
S BRAND	S-60J	42.3	1.6	33	2700	31.9	19.2	6.09
---	RESNIK	42.1	2.3	40	3080	32.9	19.7	6.31
SOI	EXP386	41.8	1.9	38	2830	32.7	19.6	6.26
S BRAND	B-359	41.8	2.3	37	2860	31.8	19.7	6.14
LYNKS SEEDS	5288	41.8	2.8	39	2560	29.4	20.9	5.84
---	WINCHESTER	41.5	2.5	38	2580	33.0	19.4	6.29
MERSHMAN	WASHINGTON VI	41.3	2.6	41	2830	34.4	18.9	6.43
MCCURDY/RIVERSIDE	373	40.9	3.1	48	3190	33.9	19.1	6.38
---	485-63023	40.5	2.0	41	3280	30.9	20.2	6.08
---	FARM ENTRY	40.4	2.1	38	3280	32.7	20.0	6.32
---	CHAMBERLAIN	40.2	2.8	39	2800	34.0	19.3	6.42
HORIZON	H-3200	38.7	2.8	43	3080	32.9	19.5	6.28
OHLDE	3655	38.2	1.8	39	2830	28.5	20.9	5.61
---	PELLA 86	38.1	2.0	39	2440	31.6	20.0	6.16
---	HARPER 87	36.8	2.3	41	8500	31.6	20.1	6.16
---	WILLIAMS 82	30.9	2.8	43	2940	32.4	19.8	6.24
Average all entries		42.6	2.2	38.5	3074	32.3	19.8	6.23
Dif. Req. for Sig. 5%		8.2	0.9	6.5	N.S	2.2	0.8	0.25
25%		4.8	0.5	3.8	N.S	1.3	0.4	0.14

* VALUE = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN

Table 11A. West Central Soybean tests.
Two tests. Furnas and Perkins Counties. 1989.

BRAND	VARIETY	YIELD BU/A	SEEDS POUND	BUSHEL WEIGHT	PROTEIN %	OIL %	VALUE * \$/BU
JACOBSEN	J972	47.6	2780	57	34.8	18.3	6.41
OHLDE	3000	45.7	2830	57	34.8	18.6	6.45
ARROW SEED	EXP.89-25	45.0	2750	57	34.7	18.9	6.48
STAR1	RB300	43.3	3190	57	35.2	18.8	6.52
-----	CONRAD	43.2	2790	56	34.5	18.8	6.44
-----	HOBBIT 87	43.1	3020	57	34.6	18.9	6.46
STINE	3000	43.0	2840	56	35.6	18.7	6.58
-----	HAMILTON	42.5	2930	57	36.5	18.5	6.66
HORIZON	H-21	42.1	2710	57	36.0	18.2	6.58
STAR1	RC320	42.1	3190	57	35.8	18.6	6.58
MERSHMAN	EISENHOWE	41.8	3000	57	35.7	18.4	6.56
-----	RESNIK	41.8	3030	57	35.4	18.6	6.51
LYNKS SEEDS	5303	41.1	2950	56	36.3	18.1	6.58
OHLDE	2650	40.9	2640	57	35.4	18.7	6.55
-----	485-71084	40.8	3250	58	36.0	18.3	6.58
NORTHRUP KING	S 29-20	40.6	2720	57	35.6	18.6	6.56
S BRAND	B-300	40.4	3100	57	35.9	18.3	6.57
-----	FLYER	39.9	3280	57	36.2	18.3	6.61
MERSHMAN	WASHINGTON	39.9	3090	57	35.0	18.3	6.43
-----	485-74089	39.9	3240	58	36.3	18.2	6.61
ARROW SEED	AS2675	39.6	2630	57	35.4	18.7	6.55
-----	PELLA 86	39.3	2570	57	35.5	18.7	6.55
-----	HARPER 87	38.3	2840	57	35.5	18.2	6.50
-----	485-64055	38.3	2720	56	35.1	18.7	6.51
S BRAND	S-250	38.3	2650	56	34.9	18.9	6.49
ARROW SEED	AS2610	38.2	2820	57	35.7	18.7	6.59
-----	CHAMBERLAI	37.9	2840	57	36.1	18.3	6.59
-----	ZANE	37.1	2550	57	35.6	18.7	6.57
S BRAND	B-270	37.0	2850	57	35.9	18.3	6.57
ATLAS	280	36.8	2900	57	36.2	18.4	6.62
-----	FREMONT	34.6	2780	57	35.9	18.9	6.63
-----	WILLIAMS 82	34.5	3000	56	35.9	18.7	6.61
-----	HACK	33.9	2800	58	35.3	18.6	6.51
-----	485-63023	33.3	2510	57	36.4	18.3	6.63
-----	RIPLEY	33.1	3470	58	35.0	18.6	6.47
-----	WINCHESTER	32.6	2720	57	37.1	18.2	6.72
Average all entries		39.8	2890	56.9	35.6	18.5	5.55
Dif. Req. for Sig. 5%		6.1	310	0.9	1.0	0.3	0.12
25%		25%	3.5	180	0.5	0.6	0.07

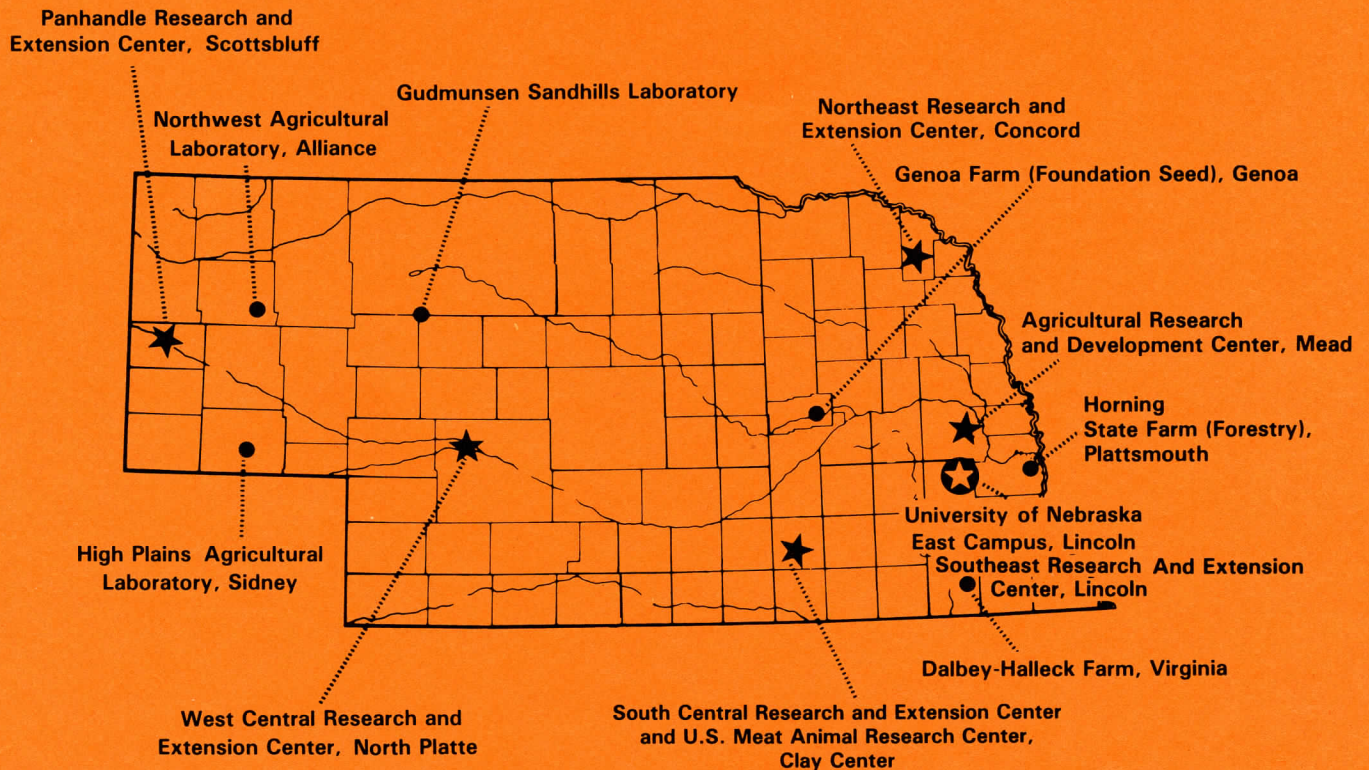
* VALUE = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN

Table 12A. North Central Soybean Performance Test. Rock County. 1989.

BRAND	VARIETY	YIELD BU/A	SEEDS POUND	BUSHEL WEIGHT	PROTEIN %	OIL %	VALUE * \$/BU
S BRAND	S-240	46.9	2780	57	35.0	18.0	6.40
-----	CONRAD	45.8	3120	57	34.9	18.2	6.42
S BRAND	S-44D	45.7	2920	57	35.1	18.2	6.44
HY-VIGOR	ROCKER-9	45.5	2810	57	35.4	18.5	6.53
-----	KENWOOD	45.4	3170	57	35.2	18.3	6.47
NORTHRUP KING	S 23-03	45.2	2890	59	36.6	17.9	6.61
ARROW SEED	AS2610	45.0	2990	57	35.0	18.4	6.45
-----	WEBER 84	44.7	3300	57	34.8	18.8	6.48
DAHLGREN	DS-3220	44.1	2940	57	34.6	18.5	6.41
JACOBSEN	J824	43.5	3140	57	34.5	18.0	6.34
KAUP SEED	KS 2850	43.5	3190	57	36.8	17.3	6.57
WILSON BLEND	2606	43.2	3080	57	35.6	18.2	6.53
HY-VIGOR	K-3903	42.8	3090	58	35.7	17.7	6.46
MERSHMAN	CHEYENNE II	42.8	3240	57	34.7	18.2	6.39
-----	HACK	42.8	2930	59	34.9	18.5	6.47
-----	HOYT	42.7	3660	57	35.2	18.3	6.48
-----	BSR 101	42.5	2990	57	34.9	18.1	6.40
KAUP SEED	KS 2690	42.0	3230	57	35.0	18.1	6.42
SOI	269	41.6	3350	57	37.0	17.6	6.62
S BRAND	B-240	41.5	3230	57	35.6	17.9	6.48
STINE	2930	41.4	2940	56	33.3	18.7	6.24
SOI	287	41.3	2930	57	36.1	18.0	6.56
WILSON BLEND	2404	40.9	3420	57	35.6	17.8	6.47
MERSHMAN	MUNSEE II	39.3	2790	57	34.0	18.7	6.34
S BRAND	S-55A	37.0	3410	58	34.7	18.5	6.42
KAUP SEED	KS 3945	36.0	3020	57	33.9	18.1	6.25
-----	CENTURY 84	35.7	3060	57	35.8	17.9	6.51
-----	FREMONT	34.6	3240	57	34.6	18.7	6.44
-----	BURLESON	33.7	2930	57	36.2	17.8	6.55
-----	LOGAN	30.8	2990	57	34.9	18.3	6.43
Average all entries		41.6	3093	57.1	35.2	18.2	6.46
Dif. Req. for Sig. 5%		4.2	220	1.0	1.1	0.6	0.12
25%		2.4	130	0.6	0.6	0.3	0.07

* VALUE = ESTIMATED PROCESSED VALUE BASED ON PRICE OF OIL AND PROTEIN

AGRICULTURAL RESEARCH AND EXTENSION FOR ALL OF NEBRASKA



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Nebraska is a large state and has great variation due to topography and the continental type of climate. The elevation ranges from 1,000 feet to near a mile high in the northwest portion of the state, rainfall varies from less than 15 to more than 35 inches per year, and the soil types vary from sands to heavy clays. The research and extension programs thus are broad in subject matter and geography, resulting in the need for various centers, satellite locations, and local offices.