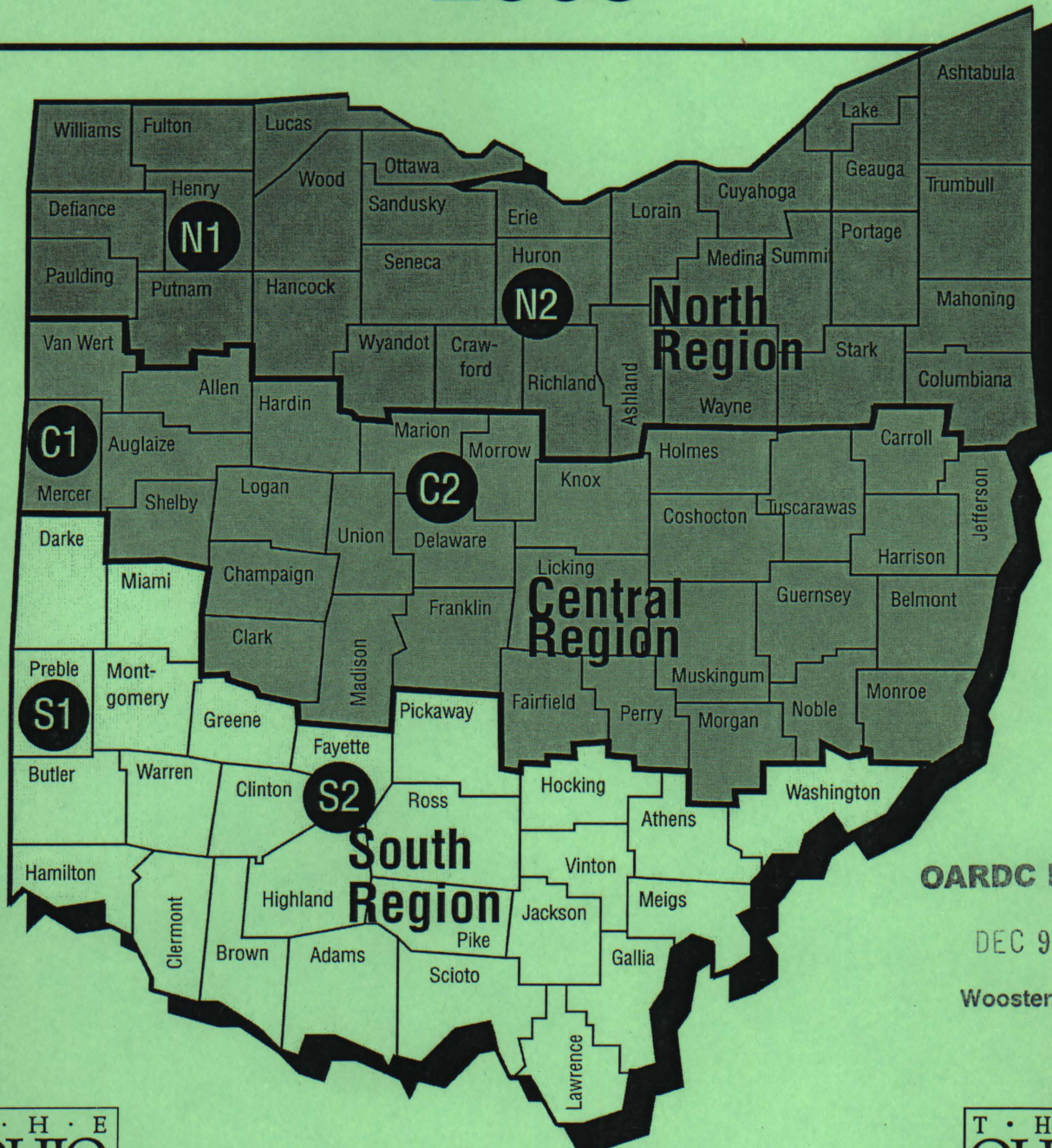


# Ohio Soybean Performance Trials 2003



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# OHIO SOYBEAN PERFORMANCE TRIALS 2003

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## INTRODUCTION

The purpose of the Ohio Soybean Performance Trials is to evaluate soybean varieties, brands and blends for yield, and other characteristics. This evaluation gives soybean producers comparative information for selecting the best varieties for their unique production systems.

## METHOD OF CONDUCTING TRIALS

**Entries in Trials.** Entries in the Ohio Soybean Performance Trials are accepted if the seed will be available to Ohio farmers for the planting season following the trials. All 2003 entries were submitted voluntarily by seed companies and the Ohio Seed Improvement Association. Entry fee charges were made per entry and location.

**Normal and Roundup Ready (RR) Test.** The same production, testing and evaluation techniques, except for weed control, were used for Normal tests and Roundup Ready tests. The performance of Normal entries and Roundup Ready entries is not comparable statistically because they were not tested together and because different weed control programs were used for the two tests.

## FIELD PLOT DESIGN

The entries for each maturity grouping of each variety type at each test site were planted in a randomized complete-block design. Each entry was replicated four times and planted in plots 45 ft. long and 5 ft. wide containing four rows seeded at 170,000 seeds per acre.

## PRODUCTION PRACTICES AND RAINFALL

The production practices used at each location are shown in Table 1. 2003 rainfall is shown in Table 2. Wet conditions throughout the growing season severely impacted yields at all sites except N1 Henry County. Data for C2 Delaware County is not reported because yields were further reduced by an early frost.

## MEASUREMENTS AND RECORDS

**Relative maturity.** Relative maturity is a rating designed to account for all of the factors that affect maturity date and number of days from planting to maturity. These factors include variety, planting date, weather, latitude and disease. The method used to determine maturity was the 95% brown pods reading. A variety with a Relative Maturity rating of 3.5 will reach the 95% brown pod stage 5 days later than a variety with a rating of 3.0.

**Table 1. 2003 Production Background Information**

	N1 Henry Co.	N2 Huron Co.	C1 Mercer Co.	C2 Delaware Co.	S1 Preble Co.	S2 Clinton Co.
<b>Tillage</b>						
Fall	None	Plow	Chisel	None	None	Chisel
Spring	None	Field Cultivator	Disk	None	None	Field Cultivator

### Normal Variety Weed Control

Preemergence Canopy XL/Dual II/Roundup UltraMax used at all test sites.  
 Postemergence Basagran/Flexstar/Select used at all test sites.

### Roundup Ready Variety Weed Control

Pre/Postemergence Roundup UltraMax used at all test sites.

### Soil and Crop Background

Soil Type	Hoytville	Kibbie	Mercer	Blount	Crosby	Westland
Soil pH	5.96	6.32	6.11	6.96	6.82	5.86
Soil Test P(ppm)	98	15	33	25	7.5	40
Soil Test K(ppm)	299	75	185	351	275	197
Fertilizer	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0
Previous Crop	Corn	Soybean	Corn	Corn	Corn	Corn
Plant Date	5/26	5/25	5/23	6/23	5/24	5/27
Harvest Date	10/19	10/18	10/20		10/21	10/22

Table 2. 2003 Rainfall Data

	N1		N2		C1		C2		S1		S2	
	Henry Co.		Huron Co.		Mercer Co.		Delaware Co.		Preble Co.		Clinton Co.	
	-----2003 (Normal)-----											
May	1.9	(3.3)	5.9	(3.6)	7.0	(4.1)	6.4	(3.8)	3.9	(3.8)	5.0	(4.7)
June	2.3	(3.5)	5.0	(3.9)	6.4	(3.8)	3.9	(3.8)	7.9	(3.9)	6.2	(3.6)
July	4.7	(4.0)	5.7	(4.2)	14.2	(4.4)	7.1	(3.8)	11.8	(3.4)	4.6	(3.9)
August	4.4	(3.1)	2.8	(3.5)	8.5	(3.6)	4.5	(3.1)	5.2	(3.1)	4.2	(3.5)
September	5.0	(2.8)	6.3	(3.2)	6.1	(3.3)	6.3	(2.9)	7.2	(2.7)	5.1	(3.0)
TOTAL	18.3	(16.7)	25.7	(18.4)	42.2	(19.2)	28.2	(17.4)	36.0	(16.9)	25.1	(18.7)

**Plant height** was taken just prior to harvest from the N1 site where plants were moderately tall with no lodging. The average height (inches) of several plants was recorded.

**Lodging score.** There was no lodging observed in 2003.

**Seed size** is reported as 1000s of seeds per pound.

**Protein and oil %** analysis was determined by near infrared transmittance technology. The test was performed by the OSU Grain Quality Lab using a Tekator Infratec whole grain analyzer calibrated with the Composition Systems Calibration developed at Iowa State University and is reported at 13% moisture.

**Phytophthora Resistance Genes.** Phytophthora resistance genes were determined using a hypocotyl inoculation test. In this test, several races of Phytophthora are used to determine the presence or absence of a particular *Rps* gene. The *Rps* genes (*Rps1a*, *Rps1c*, etc.) detected in a variety are listed in Tables 3-8. "SEG" indicates the variety is segregating for resistance and not all of the plants carried an *Rps* gene. Two genes indicated by "2Gen" that the variety has an *Rps* gene combination of either 1c+3a or 1k+3a. "None" indicates no resistance genes were detected. "99" indicates that the test was inconclusive.

**Phytophthora Partial Resistance.** All varieties were evaluated for partial resistance. Partial resistance is a multi-genic characteristic that provides some level of protection against all known races of Phytophthora. Ratings of 3.0 to 3.9 are considered high levels of partial resistance and will provide good levels of control. Ratings of 4.0 to 5.9 are considered moderate and will allow some yield loss when environmental

conditions favor Phytophthora. Ratings over 6.0 indicate very little partial resistance or protection against Phytophthora. For Ohio Producers with fields with a history of Phytophthora root and stem, varieties should have a combination of *Rps* genes plus partial resistance to Phytophthora for the best protection.

**Sclerotinia Rating.** There are no known sources of resistance to Sclerotinia that will totally eliminate disease development. The resistance to Sclerotinia is a type of partial resistance where less disease - fewer plants develop Sclerotinia than more susceptible varieties. In this year's test, all of the varieties were susceptible, and none reacted in the same manner as the resistant check variety. Therefore none of the varieties tested in this year's performance trial are recommended for planting in fields with a history of Sclerotinia stem rot.

**Yield.** Each soybean variety was harvested at a moisture content between 10 and 17 percent and yields computed to bushels per acre at 13 percent moisture.

**LSD.** A Least Significant Difference (LSD) for yield was computed for each maturity group. LSD's are reported in bushels per acre at 13 percent moisture. Yields of two varieties within a maturity group are significantly different 70% of the time if their yields differ by more than the LSD value shown for that maturity group.

**DATA USE.** Inclusion of entries in the Ohio Soybean Performance Trials does not constitute an endorsement of a particular entry by the Ohio State University, Ohio Agricultural Research and Development Center, or the Ohio State University Extension.

*This report can be found on the internet at:  
www.ag.ohio-state.edu/~perf*

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**DIRECTORY OF COMPANIES AND VARIETY BY MATURITY IN THE  
2003 OHIO SOYBEAN PERFORMANCE TRIALS**

Physical Characteristics and Yield Data for an entry can be located using the Table Number or Relative Maturity value associated with each entry in this table.

<u>Company/Variety</u>	<u>Rel. Mat.</u>	<u>Tbl. #</u>	<u>Company/Variety</u>	<u>Rel. Mat.</u>	<u>Tbl. #</u>	<u>Company/Variety</u>	<u>Rel. Mat.</u>	<u>Tbl. #</u>
<b>Advanced Genetics, Inc.</b> 11491 Foundation Rd, Box 145 Croton, OH 43013-9702 740-893-2501			<b>Dairyland Seed Co., Inc.</b> PO Box 950, 3570 Hwy H West Bend, WI 53095 800-236-0163 www.dairylandseed.com			<b>Golden Harvest</b> PO Box 248 Pekin, IL 61555-0248 800-747-2127 goldenharvestseeds.com		
AGI 30R01	3.0	4	DSR 277/RR	2.5	4	H 2811RR	3.0	4
AGI 7343RR	3.7	6	DSR 221/RR	2.5	4	H 3135RR	3.2	4
AGI 7361RR	3.9	8	DSR 297/RR	3.0	4	H 3281RR	3.7	4
<b>Beck's Hybrids</b> 6767 East 276th Street Atlanta, IN 46031-9435 317-984-3508 www.beckshybrids.com			DSR 326/RR			<b>Great Lakes Hybrids</b> 9915 West M-21 Ovid, MI 48866-9628 800-257-7333 greatlakeshybrids.com		
Beck 283RR	2.9	4	DST 3222/RR	3.8	6	GL 2709RR	2.8	4
Beck 292RR	3.0	4	DSR 345/RR	3.8	4,6	GL 2819RR	3.0	4
Beck 336NRR	3.3	4	<b>Ebberts Field Seeds, Inc.</b> 6840 N State Route 48 Covington, OH 45318-9604 888-802-5715			GL 3007RR	3.0	4
Beck 323RR	3.4	4,6	Ebberts 1294RR	3.0	4,6	GL 3209RR	3.4	6
Beck 359	3.5	5	Ebberts 1284RR	3.0	4,6	GL 3409RR	3.5	6
Beck 355RR	3.6	6	Ebberts 1311RR	3.2	4,6	GL 3710	3.7	6
Beck 375NRR	3.8	6	Ebberts 1344RR	3.3	4,6,8	<b>Gries Seed Farms, Inc.</b> 2348 N Fifth Street Fremont, OH 43420-9582 800-472-4797 www.griesseed.com		
Beck 367NRR	4.0	6	Ebberts 1314RR	3.4	4,6	Gries GSF293RR	3.0	4
Beck 405NRR	4.1	8	Ebberts 1333RR	3.5	4,6,8	Gries GSF323RR	3.4	4,6
Beck 437NRR	4.2	8	Ebberts 1355RR	3.6	6,8	Gries GSF322RR	3.5	4,6
<b>Bio Gene Seeds</b> 5491 Tri County Hwy Sardinia, OH 45171-9709 888-862-3276 www.biogeneseeds.com			Ebberts 1324RR	3.7	4,6,8	Gries GSF383RR	3.9	8
BG 3703NRR	4.0	8	Ebberts 1385RR	3.7	6,8	Gries GSF373RR	3.9	6,8
BG 3620NRR	4.0	8	Ebberts 2330STS	3.7	3,5,7	<b>Helena Brand Seed</b> PO Box 302 Bluffton, IN 46714-0302 260-824-8825 www.helenachemical.com		
BG 4200NRRST	4.3	8	Ebberts 1372RR	3.7	6,8	Helena 2914RR	3.1	4
<b>Burtch Seed Co., Inc./Strike Genetics</b> 4742 Tama Rd Celina, OH 45822 419-363-3713			Ebberts 1394RR	3.9	8	Helena 3111RR	3.1	4,6
Strike 2904RR	3.0	4	Ebberts 1351RR	3.9	6,8	Helena 3273RR	3.3	4,6
Strike 2804RR	3.0	4	Ebberts 1362RR	3.9	6,8	Helena 3114RR	3.4	4,6
Strike 3104RR	3.4	6	Ebberts 1373RR	4.0	6,8	Helena 3773RR	3.8	4,6
Strike 3604RR	3.6	8	<b>Garst Seed Co.</b> 2369 330th St, PO Box 500 Slater, IA 50244-0500 800-831-6630 www.garstseed.com			Helena 3574RR	3.9	4,6
Strike 3702RR	4.0	8	Garst 2677RR	2.6	4	Helena 3612RR	4.1	6
<b>Champaign Landmark, Inc.</b> 304 Bloomfield Ave Urbana, OH 43078-1206 937-652-2135			Garst 2834RR	3.1	4	<b>Houck Seed Co.</b> 2288 US Rt 20 Monroeville, OH 44847 419-465-4525 houckseed.com		
ShurGrowSG343RR	3.7	4,6,8	Garst 3135RR	3.1	4	HS4237RR/CNR	2.5	4
ShurGrowSG383RR	3.8	4,6,8	Garst D350	3.4	5	HS4247RR	2.9	4
ShurGrowSG373RR	3.8	4,6,8	Garst 3212RR/N	3.5	4,6	HS4297RR	3.0	4
<b>Crow's Hybrid Corn Co.</b> 612 E Dunlap St Kentland, IN 47951 800-331-7201 www.crowshybrid.com			Garst D355RR	3.6	6,8	HS4288RR	3.1	4
Crows C3912R	3.0	4	Garst 3712RR/N	3.7	6,8	HS4347RR	3.5	4
Crows C3717R	3.9	6,8	Garst 4112RR/N	3.8	8	HS4348RR	3.7	4
Crows C4120R	4.0	8	Garst 3824RR/N	3.9	6,8	HS4377RR	3.7	4
			<b>Genesis Brand Seed</b> PO Box 21085 Lansing, MI 48909-1085 517-887-1684			HS4287RR	3.7	4
			Genesis C251RR	2.8	4	HS4348TRTD	3.9	4
			Genesis C282RR	3.0	4			
			Genesis C314RR	3.1	4			
			Genesis M304RR	3.3	4			

<b>Company/Variety</b>	<b>Rel. Mat.</b>	<b>Tbl. #</b>	<b>Company/Variety</b>	<b>Rel. Mat.</b>	<b>Tbl. #</b>	<b>Company/Variety</b>	<b>Rel. Mat.</b>	<b>Tbl. #</b>
<b>Luckey Farmers, Inc.</b>			<b>Public Certified</b>			<b>Seed Consultants, Inc. - continued</b>		
1200 W Main Street			Sandusky	2.8	3,5,7	SC 9284RR	3.3	4,6
Woodville, OH 43469-9701			Dilworth	3.1	3,5,7	SC 9334RR	3.7	4,6
800-589-9711			Ohio FG1	3.4	3,5,7	SC 9333RR	3.7	4,6,8
luckeyfarmers.com			Stout	3.5	3,5,7	SC 9362RR	3.7	4,6,8
Gro-Mor 2803RR	3.0	4	Apex	3.6	3,5,7	SC 9344RR	3.7	4,6
Gro-Mor 3103NRR	3.5	4	Stalwart	3.7	3,5,7	SC 9373RR	3.8	4,6,8
<b>Midwest Seed Genetics</b>			Kottman	3.7	3,5,7	SC 9404RR	3.8	6,8
PO Box 518, 23751 Hwy 30 East			Ohio FG4	3.9	3,5,7	SC 9394RR	3.8	6,8
Carroll, IA 51401-8505			Ohio FG5	3.9	3,5,7	SC 9374RR	3.9	4,6,8
800-369-8218			Troll	4.1	3,5,7	SC 9382RR	3.9	6,8
midwestseed.com			<b>Royster-Clark, Inc.</b>			SC 9364RR	3.9	4,6,8
GR 2631	2.6	4	717 Robinson Rd SE			SC 9391RR	4.0	6,8
GR 2828	2.9	4	Washington CH, OH 43160-8630			SC 9384RR	4.1	4,6,8
GR 3531	3.3	6	800-659-7790			SC 9442RR	4.3	8
GR 3932	3.8	8	<b>Stine Seed Company</b>					
GR 3732	3.8	6,8	www.roysterclark.com			2225 Laredo Trail		
<b>Monsanto Company</b>			Vigoro V 300RR	3.0	4,6	Adel, IA 50003-8240		
800 N Lindbergh Blvd			Vigoro V284RR	3.0	4	515-677-2605		
St. Louis, MO 63167-7843			Vigoro V314RR	3.1	4,6	www.stinseed.com		
800-833-5252			Vigoro V273RR	3.1	4	Stine S2783-4	2.8	4
www.monsanto.com			Vigoro V354RR	3.7	4,6,8	Stine S2743-4	3.0	4
Asgrow AG2705	2.8	4	Vigoro V344RR	3.8	4,6,8	Stine S2842-4	3.0	4
Dekalb DKB28-52	2.9	4	Vigoro V 372RR	3.8	6,8	Stine S2900-4	3.1	4
Asgrow 3201	3.3	4,6	Vigoro V38N4RR	3.8	8	Stine S3532-4	3.9	6
Asgrow 3202	3.4	4,6	<b>Rupp Seeds, Inc.</b>			Stine S4032-4	4.1	8
Dekalb DKB31-52	3.5	4,6	17919 Co. Road B			Stine S3932-4	4.1	6
Asgrow AG3302	3.5	6	Wauseon, OH 43567-9458			<b>Sunstar Hybrids</b>		
Asgrow AG3005	3.6	4,6	419-337-1841			14993 State Road 17		
Asgrow AG3401	3.7	4,6,8	www.ruppseeds.com			Culver, IN 46511-9642		
Asgrow AG3703	3.8	8	Rupp RS 4213RR	2.5	4	574-842-2775		
Dekalb DKB37-51	3.9	8	Rupp RS 4279RR	2.9	4	Sunstar 2490RR	3.0	6
Dekalb DKB38-52	3.9	8	Rupp RS 4255RR	2.9	4	<b>Thompson Seed Farm</b>		
<b>Pioneer, A DuPont Company</b>			Rupp RS 4289RR	3.0	4,6	4920 Defiance Trail		
210 Westfield Drive			Rupp RS 4328RR	3.0	6	Delphos, OH 45833-9666		
Archbold, OH 43502-1047			Rupp RS 4345RR	3.6	6	800-686-1774		
800-874-8718			<b>Schillinger Seed, Inc.</b>			Thompson TS3334RR	3.6	4,6
www.pioneer.com			4200 Corporate Drive, Suite 106			Thompson TS401	3.9	3,5
Pioneer 92B38	2.4	4	Wes Des Moines, IA 50266-5903			<b>UAP Great Lakes</b>		
Pioneer 92M71	2.4	4,6	515-225-1166			221 W Lake Lansing Rd		
Pioneer 92M70	2.9	4,6	schillingerseed.com			East Lansing, MI 48823-1435		
Pioneer 93B36	3.5	4,6,8	393.RCP	3.8	6,8	517-333-8788		
Pioneer 93B67	3.6	4,6,8	413.RCP	4.0	8	uap.com		
Pioneer 93B68	3.7	4,6,8	<b>Schlessman Seed Co.</b>			DynaGro DG38K28	3.0	4
Pioneer 93M80	3.8	4,6,8	11513 State Route 250 N			DynaGro DG31B35	3.2	4,6,8
Pioneer 93B82	3.8	3,5,7	Milan, OH 44846-9758			DynaGro DG3323RR	3.4	4,6
Pioneer 93B87	3.9	3,5,7	419-499-2572			DynaGro DG34F35	3.7	4,6,8
Pioneer 94B13	4.0	8	schlessman-seed.com			DynaGro DG 3373NRR	3.8	6,8
Pioneer 94M41	4.2	8	SSC 283RR	3.0	4	DynaGro DG3390NRR	3.8	6,8
<b>Porter Hybrids, Inc.</b>			SSC 373NRR	3.9	4	<b>Wellman Seeds, Inc.</b>		
1683 SR 134 North			<b>Seed Consultants, Inc.</b>			23778 Delphos Jennings Rd		
Wilmington, OH 45177			PO Box 370			Delphos, OH 45833-8932		
937-382-2324			648 Miami Trace Rd SW			800-717-7333		
Premier 4650	3.3	7	Washington CH, OH 43160			www.wellmanseeds.com		
Premier 8739RR	3.9	8	800-708-2676			Wellman W343	3.3	3,5,7
Premier 4395	3.9	7	seedconsultants.com			Wellman W3337	3.8	4,6,8
Premier 7737RR	4.0	8	SC 9302RR	3.0	4,6	Wellman W3336	3.9	4,6,8
Premier 8539RR	4.0	8	SC 9283RR	3.1	4,6	Wellman W3439RR	4.0	4,6,8
Premier 8639RR	4.2	8	SC 9294RR	3.2	4,6			

**Table 3. 2003 Ohio Soybean Performance Trials: North Region Normal Varieties**

Entry		See "Measurements and Records" in Text for Description												
Brand/Variety	Company	Rel. Mat.	Plant Ht.	1000			% Oil	% Prot. & % Oil	Phytophthora		North Region Yield (Bu/ac)			
				Seeds /lb	% Prot.	%			Resist. Gene	Partial Resist.	2003 N1	2003 N2	N1-N2 Mean	'02-'03 Mean
<b>Relative Maturity 2-8 - 4.1</b>														
Sandusky	Public	2.8	34	3.0	39.1	22.0	61.1	1k	4.3	48.1	45.5	46.8	50.4	
Dilworth	Public	3.1	36	3.2	41.1	20.3	61.4	1k	4.7	48.2	49.1	48.7	49.1	
Wellman W343	Wellman Seeds Inc.	3.3	26	3.2	39.4	21.2	60.6	1a	6.0	50.6	50.8	50.7		
Ohio FG1	Public	3.4	32	2.1	42.9	19.4	62.3	3a	3.8	45.3	46.3	45.8	48.4	
Stout	Public	3.5	24	3.3	39.7	21.3	61.0	1a	8.3	45.6	47.9	46.8	50.1	
Apex	Public	3.6	27	3.3	38.9	20.8	59.7	1k	6.7	49.1	50.1	49.6	52.0	
Stalwart	Public	3.7	26	3.1	38.5	21.7	60.2	1k	5.2	48.8	54.8	51.8	53.4	
Kottman	Public	3.7	28	3.1	41.7	19.9	61.6	1k	3.5	48.8	51.0	49.9	52.0	
Ebberts 2330STS	Ebberts Field Seeds Inc.	3.7	34	3.4	42.0	19.4	61.4	1k	6.7	47.8	50.0	48.9		
Pioneer 93B82	Pioneer-A DuPont Company	3.8	33	3.0	42.0	20.6	62.6	1k	5.7	51.2	51.3	51.3	52.9	
Ohio FG4	Public	3.9	30	2.2	43.0	19.2	62.2	3a	3.8	38.8	51.0	44.9		
Ohio FG5	Public	3.9	32	2.4	43.6	18.7	62.3	3a	4.8	42.0	44.0	43.0		
Thompson TS401	Thompson Seed Farm	3.9	32	3.0	41.6	19.6	61.2	99	4.0	48.2	53.6	50.9	52.0	
Pioneer 93B87	Pioneer-A DuPont Company	3.9	33	2.9	41.2	20.6	61.8	1k	5.4	55.1	57.1	56.1	56.8	
Troll	Public	4.1	29	3.1	39.0	21.3	60.3	1k	5.3	48.6	44.0	46.3		
	<b>Min</b>		<b>24</b>	<b>2.1</b>	<b>38.5</b>	<b>18.7</b>	<b>59.7</b>			<b>38.8</b>	<b>44.0</b>	<b>43.0</b>	<b>48.4</b>	
	<b>Max</b>		<b>36</b>	<b>3.4</b>	<b>43.6</b>	<b>22.0</b>	<b>62.6</b>			<b>55.1</b>	<b>57.1</b>	<b>56.1</b>	<b>56.8</b>	
	<b>Mean</b>		<b>30.4</b>	<b>2.9</b>	<b>40.9</b>	<b>20.4</b>	<b>61.3</b>			<b>47.5</b>	<b>49.8</b>	<b>48.8</b>	<b>51.7</b>	
	<b>LSD 0.30</b>									<b>2.4</b>	<b>3.0</b>			

**Table 4. 2003 Ohio Soybean Performance Trials: North Region Roundup Ready Varieties**

Entry		See "Measurements and Records" in Text for Description											
Brand/Variety	Company	Rel. Mat.	Plant Ht.	1000	% Prot.	% Oil	% Prot. & % Oil	Phytophthora		North Region Yield (Bu/ac)			
				Seeds /lb				Resist. Gene	Partial Resist.	2003 N1	2003 N2	N1-N2 Mean	'02-'03 Mean
<b>EARLY (Relative Maturity 2.4 - 2.8)</b>													
Pioneer 92B38	Pioneer-A DuPont Company	2.4	30	3.1	40.9	20.9	61.8	none	4.7	39.1	44.1	41.6	47.7
Pioneer 92M71	Pioneer-A DuPont Company	2.4	32	3.5	40.4	21.0	61.4	1k	6.8	42.6	40.2	41.4	
DSR 221/RR	Dairyland Seed Co. Inc.	2.5	28	3.2	41.5	20.5	62.0	1k	5.7	42.4	45.3	43.8	
HS4237RR/CNR	Houck Seed Co.	2.5	30	3.4	41.6	20.5	62.1	1c	3.8	37.6	43.1	40.3	45.2
Rupp RS 4213RR	Rupp Seeds Inc.	2.5	33	3.4	41.0	20.7	61.7	none	6.2	42.0	44.8	43.4	
DSR 277/RR	Dairyland Seed Co. Inc.	2.5	36	3.4	39.1	22.0	61.1	1k	4.6	41.8	42.4	42.1	
Garst 2677RR	Garst Seed Co.	2.6	30	3.3	41.6	20.4	62.0	1k	6.3	45.0	41.9	43.5	49.8
GR 2631	Midwest Seed Genetics	2.6	35	3.4	41.8	20.8	62.6	99	99.0	37.5	48.9	43.2	50.3
Stine S2783-4	Stine Seed Company	2.8	30	3.3	40.9	20.8	61.7	1k	5.0	46.5	43.9	45.2	51.1
Genesis C251RR	Genesis Brand Seed	2.8	31	3.6	40.0	21.3	61.3	1k	4.2	39.7	49.2	44.5	
GL 2709RR	Great Lakes Hybrids	2.8	33	3.0	42.6	20.1	62.7	none	4.8	37.3	42.1	39.7	47.5
Asgrow AG2705	Monsanto Company	2.8	39	3.6	42.5	19.4	61.9	1c	4.0	38.5	46.0	42.3	48.7
	<b>Min</b>		<b>28</b>	<b>3.0</b>	<b>39.1</b>	<b>19.4</b>	<b>61.1</b>			<b>37.3</b>	<b>40.2</b>	<b>39.7</b>	<b>45.2</b>
	<b>Max</b>		<b>39</b>	<b>3.6</b>	<b>42.6</b>	<b>22.0</b>	<b>62.7</b>			<b>46.5</b>	<b>49.2</b>	<b>45.2</b>	<b>51.3</b>
	<b>Mean</b>		<b>32.3</b>	<b>3.4</b>	<b>41.2</b>	<b>20.7</b>	<b>61.9</b>			<b>41.0</b>	<b>44.3</b>	<b>42.6</b>	<b>48.6</b>
	<b>LSD 0.30</b>									<b>3.0</b>	<b>2.4</b>		

**Table 4. 2003 Ohio Soybean Performance Trials: North Region Roundup Ready Varieties - continued**

Entry		See "Measurements and Records" in Text for Description											
Brand/Variety	Company	Rel. Mat.	Plant Ht.	1000			% Prot. & % Oil	Phytophthora		North Region Yield (Bu/ac)			
				Seeds /lb	% Prot.	% Oil		Resist. Gene	Partial Resist.	2003 N1	2003 N2	N1-N2 Mean	'02-'03 Mean
<b><u>MID (Relative Maturity 2.9 - 3.2)</u></b>													
Dekalb DKB28-52	Monsanto Company	2.9	29	3.3	39.4	21.6	61.0	1c	99.0	42.4	47.1	44.8	
Pioneer 92M70	Pioneer-A DuPont Company	2.9	29	3.8	40.6	21.2	61.8	none	6.7	37.7	51.0	44.3	
GR 2828	Midwest Seed Genetics	2.9	30	3.5	40.8	20.2	61.0	1k	3.8	39.5	46.6	43.0	50.5
Rupp RS 4279RR	Rupp Seeds Inc.	2.9	30	3.5	40.1	20.9	61.0	1k	4.8	43.8	47.3	45.5	50.1
Rupp RS 4255RR	Rupp Seeds Inc.	2.9	31	3.3	41.3	20.8	62.1	none	3.6	36.7	45.2	41.0	
Beck 283RR	Beck's Hybrids	2.9	32	3.7	40.6	20.4	61.0	1k	4.6	43.3	43.0	43.2	49.7
Vigoro V 300RR	Royster-Clark Inc.	3.0	27	3.7	40.4	20.1	60.5	1k	5.0	40.3	44.6	42.4	48.6
GL 2819RR	Great Lakes Hybrids	3.0	29	3.3	43.2	20.0	63.2	none	3.5	38.4	47.9	43.2	
SSC 283RR	Schlessman Seed Co.	3.0	29	3.2	40.2	21.0	61.2	1k	6.4	38.3	44.7	41.5	
Ebberts 1294RR	Ebberts Field Seeds Inc.	3.0	30	3.1	40.2	21.0	61.2	1k	5.0	36.3	44.9	40.6	
Beck 292RR	Beck's Hybrids	3.0	30	3.1	40.8	20.8	61.6	1a	6.0	37.9	43.0	40.5	
Strike 2904RR	Burtch Seed Co. Inc.	3.0	30	3.1	39.8	21.1	60.9	1k+3a	4.8	38.9	46.4	42.7	
Crows C3912R	Crow's Hybrid Corn Co.	3.0	31	3.2	41.3	20.2	61.5	1c	3.6	35.6	48.3	41.9	49.4
Genesis C282RR	Genesis Brand Seed	3.0	31	3.5	40.8	20.9	61.7	1c	7.0	43.9	51.9	47.9	
Stine S2842-4	Stine Seed Company	3.0	31	3.4	43.0	19.9	62.9	none	3.5	36.3	47.2	41.8	
DSR 297/RR	Dairyland Seed Co. Inc.	3.0	32	3.3	40.8	21.3	62.1	1k	6.2	34.1	45.5	39.8	46.8
HS4297RR	Houck Seed Co.	3.0	32	3.6	41.5	19.8	61.3	1k	3.8	35.6	43.5	39.5	45.8
Gro-Mor 2803RR	Luckey Farmers Inc.	3.0	32	3.2	41.2	20.9	62.1	1k	3.6	38.6	43.2	40.9	



North Region RR MID Varieties, continued

Gries GSF293RR	Gries Seed Farms Inc.	3.0	32	3.3	43.1	19.9	63.0	1c	5.3	37.3	51.3	44.3	
Vigoro V284RR	Royster-Clark Inc.	3.0	32	3.2	39.3	21.9	61.2	1c	4.8	40.8	48.1	44.4	
SC 9302RR	Seed Consultants Inc.	3.0	33	3.5	39.1	21.3	60.4	1k	7.0	38.7	43.4	41.1	49.7
Stine S2743-4	Stine Seed Company	3.0	33	3.3	41.4	20.1	61.5	1k	5.2	39.7	46.9	43.3	
GL 3007RR	Great Lakes Hybrids	3.0	33	3.4	39.7	21.2	60.9	1k	5.0	43.4	46.4	44.9	50.4
AGI 30R01	Advanced Genetics Inc.	3.0	33	3.4	41.2	19.9	61.1	1k	5.3	41.5	44.9	43.2	49.6
Strike 2804RR	Burtch Seed Co. Inc.	3.0	34	3.4	42.4	20.2	62.6	seg	3.5	37.5	44.1	40.8	
H 2811RR	Golden Harvest	3.0	35	3.5	40.3	21.2	61.5	1c	7.0	47.3	48.1	47.7	51.6
DynaGro DG38K28	UAP Great Lakes	3.0	35	3.4	39.9	21.3	61.2	99	99.0	39.6	47.4	43.5	
Ebberts 1284RR	Ebberts Field Seeds Inc.	3.0	36	3.0	40.5	21.1	61.6	99	4.0	38.5	47.0	42.8	48.2
Rupp RS 4289RR	Rupp Seeds Inc.	3.0	37	3.5	41.6	20.0	61.6	1a	6.2	37.4	46.3	41.8	47.5
Helena 2914RR	Helena Brand Seed	3.1	27	3.2	40.2	20.9	61.1	1k	5.3	36.5	40.1	38.3	
Garst 2834RR	Garst Seed Co.	3.1	28	3.4	40.4	20.4	60.8	1k	4.6	44.3	44.3	44.3	
Vigoro V314RR	Royster-Clark Inc.	3.1	31	3.0	40.4	20.2	60.6	1c	99.0	35.9	42.0	39.0	
SC 9283RR	Seed Consultants Inc.	3.1	31	3.4	40.8	20.2	61.0	99	3.5	39.2	44.6	41.9	
Stine S2900-4	Stine Seed Company	3.1	31	3.3	40.2	21.0	61.2	1k	4.2	37.2	46.9	42.1	
Helena 3111RR	Helena Brand Seed	3.1	31	3.9	39.1	20.9	60.0	1k	6.8	39.5	43.6	41.5	48.9
Genesis C314RR	Genesis Brand Seed	3.1	35	3.4	40.5	20.5	61.0	1k	4.8	44.3	48.6	46.4	
Vigoro V273RR	Royster-Clark Inc.	3.1	37	3.4	40.9	20.8	61.7	1c	7.2	42.0	46.5	44.3	
Garst 3135RR	Garst Seed Co.	3.1	38	3.6	40.0	20.6	60.6	1k	5.2	36.6	46.0	41.3	48.4
HS4288RR	Houck Seed Co.	3.1	39	2.9	40.8	21.1	61.9	1a	4.2	42.6	47.6	45.1	
SC 9294RR	Seed Consultants Inc.	3.2	27	3.2	40.0	20.9	60.9	1k	6.0	39.2	42.4	40.8	
Ebberts 1311RR	Ebberts Field Seeds Inc.	3.2	28	3.6	39.7	20.7	60.4	1k	5.3	41.9	43.3	42.6	49.8
DynaGro DG31B35	UAP Great Lakes	3.2	35	3.8	40.6	20.2	60.8	99	99.0	41.1	47.3	44.2	
H 3135RR	Golden Harvest	3.2	36	3.6	39.8	20.7	60.5	1k	4.8	40.5	44.9	42.7	48.0
	<b>Min</b>		<b>27</b>	<b>2.9</b>	<b>39.1</b>	<b>19.8</b>	<b>60.0</b>			<b>34.1</b>	<b>40.1</b>	<b>38.3</b>	<b>45.8</b>
	<b>Max</b>		<b>39</b>	<b>3.9</b>	<b>43.2</b>	<b>21.9</b>	<b>63.2</b>			<b>47.3</b>	<b>51.9</b>	<b>47.9</b>	<b>51.6</b>
	<b>Mean</b>		<b>31.8</b>	<b>3.4</b>	<b>40.6</b>	<b>20.7</b>	<b>61.3</b>			<b>39.4</b>	<b>45.8</b>	<b>42.6</b>	<b>48.8</b>
	<b>LSD 0.30</b>									<b>3.0</b>	<b>2.4</b>		

**Table 4. 2003 Ohio Soybean Performance Trials: North Region Roundup Ready Varieties** - continued

Entry		See "Measurements and Records" in Text for Description											
Brand/Variety	Company	Rel. Mat.	Plant Ht.	1000			Phytophthora		North Region Yield (Bu/ac)				
				Seeds /lb	% Prot.	% Oil	% Prot. & % Oil	Resist. Gene	Partial Resist.	2003 N1	2003 N2	N1-N2 Mean	'02-'03 Mean
<b>LATE (Relative Maturity 3.3 - 4.1)</b>													
Beck 336NRR	Beck's Hybrids	3.3	34	3.6	39.4	21.0	60.4	1k	5.4	42.5	56.1	49.3	51.0
Ebberts 1344RR	Ebberts Field Seeds Inc.	3.3	35	3.2	40.9	19.6	60.5	1c	4.2	38.8	49.8	44.3	49.8
Helena 3273RR	Helena Brand Seed	3.3	39	3.3	39.8	20.4	60.2	1c	5.0	39.7	46.3	43.0	49.3
SC 9284RR	Seed Consultants Inc.	3.3	40	2.9	40.6	21.2	61.8	1a	4.0	41.6	46.3	43.9	
Asgrow 3201	Monsanto Company	3.3	40	3.7	39.1	21.2	60.3	1k	3.8	37.7	46.0	41.8	
Genesis M304RR	Genesis Brand Seed	3.3	41	3.3	41.9	19.6	61.5	1c	5.8	45.3	49.6	47.4	
DynaGro DG3323RR	UAP Great Lakes	3.4	25	3.6	40.3	20.7	61.0	1k	6.4	37.7	43.7	40.7	47.5
Asgrow 3202	Monsanto Company	3.4	32	3.3	40.0	20.5	60.5	1c	5.0	40.9	46.4	43.7	
Gries GSF323RR	Gries Seed Farms Inc.	3.4	34	3.1	41.0	20.1	61.1	1c	5.4	43.0	49.9	46.5	
Beck 323RR	Beck's Hybrids	3.4	34	3.1	41.1	20.9	62.0	1k	5.8	44.7	52.7	48.7	49.3
Ebberts 1314RR	Ebberts Field Seeds Inc.	3.4	37	3.5	41.1	20.2	61.3	1c	4.0	49.9	50.1	50.0	
Helena 3114RR	Helena Brand Seed	3.4	38	3.1	39.2	20.7	59.9	1c	5.3	41.1	45.3	43.2	
HS4347RR	Houck Seed Co.	3.5	24	3.7	40.4	20.2	60.6	1a	5.4	37.7	42.2	40.0	45.9
Ebberts 1333RR	Ebberts Field Seeds Inc.	3.5	30	3.3	41.2	19.3	60.5	1c	7.7	44.2	44.5	44.3	48.9
Garst 3212RR/N	Garst Seed Co.	3.5	30	3.6	39.8	20.8	60.6	1k	3.6	43.0	49.9	46.5	50.5
Pioneer 93B36	Pioneer-A DuPont Company	3.5	32	3.2	40.4	20.7	61.1	1k	6.7	46.3	50.9	48.6	52.2
Gro-Mor 3103NRR	Luckey Farmers Inc.	3.5	35	3.2	40.5	20.1	60.6	1c	7.3	36.5	49.9	43.2	49.8
Dekalb DKB31-52	Monsanto Company	3.5	35	3.2	40.6	19.9	60.5	1c	99.0	40.3	46.2	43.3	
Gries GSF322RR	Gries Seed Farms Inc.	3.5	36	3.3	39.8	21.0	60.8	1k	6.3	39.8	45.5	42.7	47.0
Asgrow AG3005	Monsanto Company	3.6	28	3.3	39.1	20.8	59.9	1c	99.0	38.8	47.3	43.0	
Thompson TS3334RR	Thompson Seed Farm	3.6	32	3.6	39.8	20.6	60.4	none	4.6	39.5	46.6	43.0	
Pioneer 93B67	Pioneer-A DuPont Company	3.6	36	3.3	39.8	20.6	60.4	1c	99.0	36.5	48.1	42.3	46.1

North Region Late Varieties, continued

DSR 326/RR	Dairyland Seed Co. Inc.	3.6	37	3.4	41.3	19.0	60.3	none	4.6	38.3	50.4	44.3	
HS4377RR	Houck Seed Co.	3.7	28	3.6	42.0	19.5	61.5	1k	3.8	34.0	43.9	39.0	46.3
H 3281RR	Golden Harvest	3.7	28	3.8	41.9	19.3	61.2	1k	3.5	39.9	48.8	44.3	
SC 9334RR	Seed Consultants Inc.	3.7	28	3.0	40.4	21.6	62.0	99	3.5	40.1	52.7	46.4	
Ebberts 1324RR	Ebberts Field Seeds Inc.	3.7	29	3.2	39.1	21.5	60.6	none	3.8	35.8	48.4	42.1	
Pioneer 93B68	Pioneer-A DuPont Company	3.7	29	3.2	41.6	20.6	62.2	1k	5.0	45.4	46.8	46.1	51.6
Vigoro V354RR	Royster-Clark Inc.	3.7	29	3.1	40.9	21.2	62.1	1k	6.2	42.3	48.6	45.4	
SC 9333RR	Seed Consultants Inc.	3.7	30	3.7	40.3	20.5	60.8	none	3.8	40.8	45.4	43.1	47.2
HS4348RR	Houck Seed Co.	3.7	30	3.5	39.1	20.6	59.7	NT	0.0	36.1	49.5	42.8	48.8
HS4287RR	Houck Seed Co.	3.7	31	3.3	40.1	20.8	60.9	NT	0.0	41.2	44.0	42.6	
SC 9344RR	Seed Consultants Inc.	3.7	31	3.1	40.7	21.6	62.3	1k	7.7	44.0	49.4	46.7	
DynaGro DG34F35	UAP Great Lakes	3.7	31	3.1	39.7	20.7	60.4	1k	5.3	38.3	43.1	40.7	
ShurGrowSG343RR	Champaign Landmark Inc.	3.7	31	3.2	40.3	20.9	61.2	none	4.2	44.0	49.5	46.8	
SC 9362RR	Seed Consultants Inc.	3.7	32	2.9	41.9	19.6	61.5	1k	6.4	39.4	47.0	43.2	46.9
Asgrow AG3401	Monsanto Company	3.7	32	3.6	39.9	20.6	60.5	1c	5.5	37.7	48.2	43.0	47.2
SC 9373RR	Seed Consultants Inc.	3.8	28	3.4	40.1	20.8	60.9	1k	5.2	43.5	48.9	46.2	52.1
ShurGrowSG383RR	Champaign Landmark Inc.	3.8	29	3.1	39.2	21.2	60.4	1k	6.3	42.1	47.9	45.0	
DSR 345/RR	Dairyland Seed Co. Inc.	3.8	31	3.1	40.1	21.6	61.7	1k	5.4	40.0	49.0	44.5	
Wellman W3337	Wellman Seeds Inc.	3.8	31	3.6	42.0	19.2	61.2	1c	3.8	43.5	48.7	46.1	51.0
Vigoro V344RR	Royster-Clark Inc.	3.8	35	3.5	39.7	20.4	60.1	1c	99.0	37.4	45.0	41.2	
ShurGrowSG373RR	Champaign Landmark Inc.	3.8	35	3.3	42.3	19.0	61.3	1c	3.5	44.2	52.2	48.2	
Pioneer 93M80	Pioneer-A DuPont Company	3.8	40	2.8	39.8	20.6	60.4	1c	3.5	43.5	44.3	43.9	
HS4348 TRTD	Houck Seed Co.	3.9	25	3.2	39.4	21.2	60.6	NT	0.0	38.9	49.0	44.0	
SC 9374RR	Seed Consultants Inc.	3.9	28	3.2	42.0	19.1	61.1	99	3.8	44.6	56.6	50.6	
Wellman W3336	Wellman Seeds Inc.	3.9	29	3.3	39.6	20.9	60.5	1k	6.3	47.1	45.8	46.4	52.4
SSC 373NRR	Schlessman Seed Co.	3.9	31	3.6	41.6	19.1	60.7	1c	3.5	41.5	55.0	48.3	
SC 9364RR	Seed Consultants Inc.	3.9	32	3.4	41.5	19.6	61.1	1a	4.6	33.8	45.7	39.8	
Wellman W3439RR	Wellman Seeds Inc.	4.0	27	3.1	41.2	20.6	61.8	seg	3.8	41.3	49.5	45.4	
SC 9384RR	Seed Consultants Inc.	4.1	28	3.3	39.5	20.9	60.4	1k	5.0	39.6	50.3	44.9	
	<b>Min</b>		<b>24</b>	<b>2.8</b>	<b>39.1</b>	<b>19.0</b>	<b>59.7</b>			<b>33.8</b>	<b>42.2</b>	<b>38.9</b>	<b>45.9</b>
	<b>Max</b>		<b>41</b>	<b>3.8</b>	<b>42.3</b>	<b>21.6</b>	<b>62.3</b>			<b>49.9</b>	<b>56.6</b>	<b>50.6</b>	<b>52.4</b>
	<b>Mean</b>		<b>32</b>	<b>3.3</b>	<b>40.4</b>	<b>20.4</b>	<b>61.0</b>			<b>40.8</b>	<b>48.2</b>	<b>44.5</b>	<b>49.1</b>
	<b>LSD 0.30</b>									<b>2.8</b>	<b>2.9</b>		

Table 5. 2003 Ohio Soybean Performance Trials: *Central Region Normal Varieties*

Entry		See "Measurements and Records" in Text for Description													
Brand/Variety	Company	Rel. Mat.	Plant Ht.	1000			% Prot.	% Oil	% Prot. & % Oil	Phytophthora		Central Region Yield (Bu/ac)			
				Seeds /lb	% Prot.	% Oil				Resist. Gene	Partial Resist.	2003 C1	2003 C2	C1-C2 Mean	'02-'03 Mean
<b>Relative Maturity 2-8 - 4.1</b>															
Sandusky	Public	2.8	34	3.0	39.1	22.0	61.1	1k	4.3	39.8					
Dilworth	Public	3.1	36	3.2	41.1	20.3	61.4	1k	4.7	46.3					
Wellman W343	Wellman Seeds Inc.	3.3	26	3.2	39.4	21.2	60.6	1a	6.0	45.0					
Garst D350	Garst Seed Co.	3.4	28	3.4	41.3	20.3	61.6	1k	5.3	49.0					
Ohio FG1	Public	3.4	32	2.1	42.9	19.4	62.3	3a	3.8	40.7					
Stout	Public	3.5	24	3.3	39.7	21.3	61.0	1a	8.3	34.5					
Beck 359	Beck's Hybrids	3.5	27	3.4	39.5	21.2	60.7	1k	5.8	44.0					
Apex	Public	3.6	27	3.3	38.9	20.8	59.7	1k	6.7	45.0					
Stalwart	Public	3.7	26	3.1	38.5	21.7	60.2	1k	5.2	38.0					
Kottman	Public	3.7	28	3.1	41.7	19.9	61.6	1k	3.5	44.9					
Ebberts 2330STS	Ebberts Field Seeds Inc.	3.7	34	3.4	42.0	19.4	61.4	1k	6.7	41.5					
Pioneer 93B82	Pioneer-A DuPont Company	3.8	33	3.0	42.0	20.6	62.6	1k	5.7	48.8					
Ohio FG4	Public	3.9	30	2.2	43.0	19.2	62.2	3a	3.8	45.2					
Ohio FG5	Public	3.9	32	2.4	43.6	18.7	62.3	3a	4.8	43.5					
Thompson TS401	Thompson Seed Farm	3.9	32	3.0	41.6	19.6	61.2	99	4.0	47.1					
Pioneer 93B87	Pioneer-A DuPont Company	3.9	33	2.9	41.2	20.6	61.8	1k	5.4	50.9					
Troll	Public	4.1	29	3.1	39.0	21.3	60.3	1k	5.3	38.5					
	<b>Min</b>		<b>24</b>	<b>2.1</b>	<b>38.5</b>	<b>18.7</b>	<b>59.7</b>			<b>34.5</b>					
	<b>Max</b>		<b>36</b>	<b>3.4</b>	<b>43.6</b>	<b>22.0</b>	<b>62.5</b>			<b>50.9</b>					
	<b>Mean</b>		<b>30.0</b>	<b>3.0</b>	<b>40.8</b>	<b>20.4</b>	<b>61.3</b>			<b>43.7</b>					
	<b>LSD 0.30</b>									<b>2.0</b>					

Table 6. 2003 Ohio Soybean Performance Trials: *Central Region Roundup Ready Varieties*

Entry		See "Measurements and Records" in Text for Description												
Brand/Variety	Company	Rel. Mat.	Plant Ht.	1000	% Prot.	% Oil	% Prot. & % Oil	Phytophthora		Central Region Yield (Bu/ac)				
				Seeds /lb				Resist. Gene	Partial Resist.	2003 C1	2003 C2	C1-C2 Mean	'02-'03 Mean	
<b>EARLY (Relative Maturity 2.4 - 3.3)</b>														
Pioneer 92M71	Pioneer-A DuPont Company	2.4	32	3.5	40.4	21.0	61.4	1k	6.8	42.9				
Pioneer 92M70	Pioneer-A DuPont Company	2.9	29	3.8	40.6	21.2	61.8	none	6.7	36.9				
Vigoro V 300RR	Royster-Clark Inc.	3.0	27	3.7	40.4	20.1	60.5	1k	5.0	39.4				
Ebberts 1294RR	Ebberts Field Seeds Inc.	3.0	30	3.1	40.2	21.0	61.2	1k	5.0	37.1				
Sunstar 2490RR	Sunstar Hybrids	3.0	30	3.1	40.5	20.9	61.4	NT	0.0	47.8				
Rupp RS 4328RR	Rupp Seeds Inc.	3.0	32	3.3	41.4	20.4	61.8	1k	6.2	47.6				
SC 9302RR	Seed Consultants Inc.	3.0	33	3.5	39.1	21.3	60.4	1k	7.0	46.6				
Ebberts 1284RR	Ebberts Field Seeds Inc.	3.0	36	3.0	40.5	21.1	61.6	99	4.0	41.5				
Rupp RS 4289RR	Rupp Seeds Inc.	3.0	37	3.5	41.6	20.0	61.6	1a	6.2	36.7				
Helena 3111RR	Helena Brand Seed	3.1	31	3.9	39.1	20.9	60.0	1k	6.8	46.6				
SC 9283RR	Seed Consultants Inc.	3.1	31	3.4	40.8	20.2	61.0	99	3.5	41.0				
Vigoro V314RR	Royster-Clark Inc.	3.1	31	3.0	40.4	20.2	60.6	1c	99.0	36.3				
SC 9294RR	Seed Consultants Inc.	3.2	27	3.2	40.0	20.9	60.9	1k	6.0	42.7				
Ebberts 1311RR	Ebberts Field Seeds Inc.	3.2	28	3.6	39.7	20.7	60.4	1k	5.3	44.8				
DynaGro DG31B35	UAP Great Lakes	3.2	35	3.8	40.6	20.2	60.8	99	99.0	40.8				
GR 3531	Midwest Seed Genetics	3.3	34	3.5	40.9	20.3	61.2	2 gene	0.0	41.1				
Ebberts 1344RR	Ebberts Field Seeds Inc.	3.3	35	3.2	40.9	19.6	60.5	1c	4.2	46.5				
Helena 3273RR	Helena Brand Seed	3.3	39	3.3	39.8	20.4	60.2	1c	5.0	44.0				
Asgrow 3201	Monsanto Company	3.3	40	3.7	39.1	21.2	60.3	1k	3.8	47.6				
SC 9284RR	Seed Consultants Inc.	3.3	40	2.9	40.6	21.2	61.8	1a	4.0	38.9				
	<b>Min</b>		<b>27</b>	<b>2.9</b>	<b>39.1</b>	<b>19.6</b>	<b>60.0</b>			<b>36.3</b>				
	<b>Max</b>		<b>40</b>	<b>3.9</b>	<b>41.6</b>	<b>21.3</b>	<b>61.8</b>			<b>47.8</b>				
	<b>Mean</b>		<b>32.8</b>	<b>3.4</b>	<b>40.3</b>	<b>20.6</b>	<b>61.0</b>			<b>42.3</b>				
	<b>LSD 0.30</b>									<b>2.7</b>				

**Table 6. 2003 Ohio Soybean Performance Trials: *Central Region Roundup Ready Varieties* - continued**

Entry		See "Measurements and Records" in Text for Description											
Brand/Variety	Company	Rel. Mat.	Plant Ht.	1000	% Prot.	% Oil	% Prot. & % Oil	Phytophthora		Central Region Yield (Bu/ac)			
				Seeds /lb				Resist. Gene	Partial Resist.	2003 C1	2003 C2	C1-C2 Mean	'02-'03 Mean
<b>MID (Relative Maturity 3.4 - 3.6)</b>													
DynaGro DG3323RR	UAP Great Lakes	3.4	25	3.6	40.3	20.7	61.0	1k	6.4	44.8			
GL 3209RR	Great Lakes Hybrids	3.4	30	3.1	39.9	20.4	60.3	1c	5.4	40.5			
Asgrow 3202	Monsanto Company	3.4	32	3.3	40.0	20.5	60.5	1c	5.0	37.8			
Gries GSF323RR	Gries Seed Farms Inc.	3.4	34	3.1	41.0	20.1	61.1	1c	5.4	42.7			
Beck 323RR	Beck's Hybrids	3.4	34	3.1	41.1	20.9	62.0	1k	5.8	40.4			
Strike 3104RR	Burtch Seed Co. Inc.	3.4	37	3.0	39.4	20.9	60.3	1c	5.0	44.0			
Ebberts 1314RR	Ebberts Field Seeds Inc.	3.4	37	3.5	41.1	20.2	61.3	1c	4.0	44.4			
Helena HS3114RR	Helena Brand Seed	3.4	38	3.1	39.2	20.7	59.9	1c	5.3	45.3			
GL 3409RR	Great Lakes Hybrids	3.5	29	3.7	39.2	21.2	60.4	1k	3.8	40.1			
Ebberts 1333RR	Ebberts Field Seeds Inc.	3.5	30	3.3	41.2	19.3	60.5	1c	7.7	41.9			



**Table 6. 2003 Ohio Soybean Performance Trials: *Central Region Roundup Ready Varieties* - continued**

Entry		See "Measurements and Records" in Text for Description											
Brand/Variety	Company	Rel. Mat.	Plant Ht.	1000	% Prot.	% Oil	% Prot. & % Oil	Phytophthora		Central Region Yield (Bu/ac)			
				Seeds /lb				Resist. Gene	Partial Resist.	2003 C1	2003 C2	C1-C2 Mean	'02-'03 Mean
<b>LATE (Relative Maturity 3.7 - 4.1)</b>													
AGI 7343RR	Advanced Genetics Inc.	3.7	23	3.7	40.3	20.3	60.6	1a	5.7	40.5			
GL 3710	Great Lakes Hybrids	3.7	27	3.6	39.7	20.9	60.6	1k	7.0	37.6			
SC 9334RR	Seed Consultants Inc.	3.7	28	3.0	40.4	21.6	62.0	99	3.5	37.1			
Ebberts 1324RR	Ebberts Field Seeds Inc.	3.7	29	3.2	39.1	21.5	60.6	none	3.8	41.7			
Vigoro V354RR	Royster-Clark Inc.	3.7	29	3.1	40.9	21.2	62.1	1k	6.2	40.9			
Garst 3712RR/N	Garst Seed Co.	3.7	29	3.5	39.4	20.6	60.0	1k	4.7	44.4			
Pioneer 93B68	Pioneer-A DuPont Company	3.7	29	3.2	41.6	20.6	62.2	1k	5.0	39.7			
SC 9333RR	Seed Consultants Inc.	3.7	30	3.7	40.3	20.5	60.8	none	3.8	44.0			
SC 9344RR	Seed Consultants Inc.	3.7	31	3.1	40.7	21.6	62.3	1k	7.7	43.9			
ShurGrowSG343RR	Champaign Landmark Inc.	3.7	31	3.2	40.3	20.9	61.2	none	4.2	40.9			
DynaGro DG34F35	UAP Great Lakes	3.7	31	3.1	39.7	20.7	60.4	1k	5.3	40.6			
SC 9362RR	Seed Consultants Inc.	3.7	32	2.9	41.9	19.6	61.5	1k	6.4	39.4			
Asgrow AG3401	Monsanto Company	3.7	32	3.6	39.9	20.6	60.5	1c	5.5	44.4			
Ebberts 1372RR	Ebberts Field Seeds Inc.	3.7	33	3.2	41.7	19.4	61.1	1k	5.7	39.8			
Ebberts 1385RR	Ebberts Field Seeds Inc.	3.7	34	3.2	41.0	20.8	61.8	1k	5.6	42.0			
SC 9373RR	Seed Consultants Inc.	3.8	28	3.4	40.1	20.8	60.9	1k	5.2	35.2			
Beck 375NRR	Beck's Hybrids	3.8	29	3.9	42.0	18.8	60.8	1k	4.0	40.9			
SC 9404RR	Seed Consultants Inc.	3.8	29	3.3	41.2	20.1	61.3	none	3.6	39.8			
ShurGrowSG383RR	Champaign Landmark Inc.	3.8	29	3.1	39.2	21.2	60.4	1k	6.3	41.7			
DynaGro DG3390NRR	UAP Great Lakes	3.8	31	3.8	38.4	21.1	59.5	1c	3.8	38.0			
DSR 345/RR	Dairyland Seed Co. Inc.	3.8	31	3.1	40.1	21.6	61.7	1k	5.4	43.1			
Wellman W3337	Wellman Seeds Inc.	3.8	31	3.6	42.0	19.2	61.2	1c	3.8	39.5			
DST 3222/RR	Dairyland Seed Co. Inc.	3.8	32	3.1	42.4	20.4	62.8	1k	5.5	43.8			
ShurGrowSG373RR	Champaign Landmark Inc.	3.8	35	3.3	42.3	19.0	61.3	1c	3.5	38.3			
Vigoro V344RR	Royster-Clark Inc.	3.8	35	3.5	39.7	20.4	60.1	1c	99.0	36.3			
DynaGro DG 3373NRR	UAP Great Lakes	3.8	35	3.7	41.3	19.8	61.1	99	3.5	38.5			
SC 9394RR	Seed Consultants Inc.	3.8	36	3.6	40.0	20.5	60.5	1k	6.7	39.1			
Helena 3773RR	Helena Brand Seed	3.8	36	3.5	42.2	19.1	61.3	1c	4.0	42.4			
393.RCP	Schillinger Seed Inc.	3.8	36	3.2	39.3	20.9	60.2	1k	7.0	35.8			
Vigoro V 372RR	Royster-Clark Inc.	3.8	37	2.9	41.1	19.0	60.1	99	99.0	41.5			
GR 3732	Midwest Seed Genetics	3.8	37	3.4	42.1	19.1	61.2	1c	3.6	36.6			





Table 7. 2003 Ohio Soybean Performance Trials: *South Region Normal Varieties*

Entry		See "Measurements and Records" in Text for Description											
Brand/Variety	Company	Rel. Mat.	Plant Ht.	1000			% Prot. & % Oil	Phytophthora		South Region Yield (Bu/ac)			
				Seeds /lb	% Prot.	% Oil		Resist. Gene	Partial Resist.	2003 S1	2003 S2	S1-S2 Mean	'02-'03 Mean
<b>Relative Maturity 2-8 - 4.1</b>													
Sandusky	Public	2.8	34	3.0	39.1	22.0	61.1	1k	4.3	37.9	44.6	41.3	48.9
Dilworth	Public	3.1	36	3.2	41.1	20.3	61.4	1k	4.7	46.7	47.5	47.1	51.9
Wellman W343	Wellman Seeds Inc.	3.3	26	3.2	39.4	21.2	60.6	1a	6.0	51.1	53.2	52.2	
Premier 4650	Porter Hybrids Inc.	3.3	28	3.2	39.1	21.3	60.4	1a	4.7	47.2	53.1	50.2	
Ohio FG1	Public	3.4	32	2.1	42.9	19.4	62.3	3a	3.8	46.2	38.3	42.3	47.4
Stout	Public	3.5	24	3.3	39.7	21.3	61.0	1a	8.3	36.6	49.0	42.8	48.4
Apex	Public	3.6	27	3.3	38.9	20.8	59.7	1k	6.7	38.1	46.9	42.5	52.5
Stalwart	Public	3.7	26	3.1	38.5	21.7	60.2	1k	5.2	41.4	39.3	40.3	49.9
Kottman	Public	3.7	28	3.1	41.7	19.9	61.6	1k	3.5	47.4	50.7	49.1	56.8
Ebberts 2330STS	Ebberts Field Seeds Inc.	3.7	34	3.4	42.0	19.4	61.4	1k	6.7	48.5	51.0	49.8	56.0
Pioneer 93B82	Pioneer-A DuPont Company	3.8	33	3.0	42.0	20.6	62.6	1k	5.7	49.5	59.1	54.3	57.5
Ohio FG4	Public	3.9	30	2.2	43.0	19.2	62.2	3a	3.8	44.0	39.0	41.5	
Ohio FG5	Public	3.9	32	2.4	43.6	18.7	62.3	3a	4.8	45.3	39.6	42.4	
Premier 4395	Porter Hybrids Inc.	3.9	33	3.1	41.7	19.3	61.0	3a	4.7	48.0	49.9	49.0	
Pioneer 93B87	Pioneer-A DuPont Company	3.9	33	2.9	41.2	20.6	61.8	1k	5.4	53.4	55.2	54.3	60.9
Troll	Public	4.1	29	3.1	39.0	21.3	60.3	1k	5.3	49.1	47.5	48.3	
	<b>Min</b>		<b>24</b>	<b>2.1</b>	<b>38.5</b>	<b>18.7</b>	<b>59.7</b>			<b>36.3</b>	<b>38.3</b>	<b>40.3</b>	<b>47.4</b>
	<b>Max</b>		<b>36</b>	<b>3.4</b>	<b>43.6</b>	<b>22.0</b>	<b>62.6</b>			<b>53.4</b>	<b>59.1</b>	<b>54.3</b>	<b>60.9</b>
	<b>Mean</b>		<b>30.3</b>	<b>3.0</b>	<b>40.8</b>	<b>20.4</b>	<b>61.2</b>			<b>45.7</b>	<b>47.7</b>	<b>46.7</b>	<b>53.0</b>
	<b>LSD 0.30</b>									<b>2.1</b>	<b>2.9</b>		

**Table 8. 2003 Ohio Soybean Performance Trials: *South Region Roundup Ready Varieties***

Entry		See "Measurements and Records" in Text for Description											
Brand/Variety	Company	Rel. Mat.	Plant Ht.	1000	% Prot.	% Oil	% Prot. & % Oil	Phytophthora		South Region Yield (Bu/ac)			
				Seeds /lb				Resist. Gene	Partial Resist.	2003 S1	2003 S2	S1-S2 Mean	'02-'03 Mean
<b>EARLY (Relative Maturity 3.2 - 3.7)</b>													
DynaGro DG31B35	UAP Great Lakes	3.2	35	3.8	40.6	20.2	60.8	99	99.0	44.3	47.7	46.0	
Ebberts 1344RR	Ebberts Field Seeds Inc.	3.3	35	3.2	40.9	19.6	60.5	1c	4.2	52.3	50.7	51.5	52.3
Ebberts 1333RR	Ebberts Field Seeds Inc.	3.5	30	3.3	41.2	19.3	60.5	1c	7.7	56.0	56.3	56.2	58.3
Pioneer 93B36	Pioneer-A DuPont Company	3.5	32	3.2	40.4	20.7	61.1	1k	6.7	51.2	57.5	54.3	57.4
Strike 3604RR	Burtch Seed Co. Inc.	3.6	27	3.6	40.4	20.9	61.3	none	4.0	50.5	52.2	51.3	
Ebberts 1355RR	Ebberts Field Seeds Inc.	3.6	33	3.4	41.7	19.4	61.1	1k	5.3	50.5	54.6	52.5	
Garst D355RR	Garst Seed Co.	3.6	33	3.8	41.4	19.2	60.6	99	99.0	47.9	56.1	52.0	54.5
Pioneer 93B67	Pioneer-A DuPont Company	3.6	36	3.3	39.8	20.6	60.4	1c	99.0	51.7	52.0	51.8	57.0
Garst 3712RR/N	Garst Seed Co.	3.7	29	3.5	39.4	20.6	60.0	1k	4.7	53.6	51.4	52.5	59.4
Vigoro V354RR	Royster-Clark Inc.	3.7	29	3.1	40.9	21.2	62.1	1k	6.2	53.1	57.1	55.1	
Ebberts 1324RR	Ebberts Field Seeds Inc.	3.7	29	3.2	39.1	21.5	60.6	none	3.8	48.7	51.9	50.3	
Pioneer 93B68	Pioneer-A DuPont Company	3.7	29	3.2	41.6	20.6	62.2	1k	5.0	50.9	51.6	51.3	56.1
SC 9333RR	Seed Consultants Inc.	3.7	30	3.7	40.3	20.5	60.8	none	3.8	49.9	51.9	50.9	54.8
DynaGro DG34F35	UAP Great Lakes	3.7	31	3.1	39.7	20.7	60.4	1k	5.3	48.9	52.0	50.5	
ShurGrowSG343RR	Champaign Landmark Inc.	3.7	31	3.2	40.3	20.9	61.2	none	4.2	51.0	52.8	51.9	
SC 9362RR	Seed Consultants Inc.	3.7	32	2.9	41.9	19.6	61.5	1k	6.4	47.6	49.5	48.5	52.4
Asgrow AG3401	Monsanto Company	3.7	32	3.6	39.9	20.6	60.5	1c	5.5	49.8	57.4	53.6	56.4
Ebberts 1372RR	Ebberts Field Seeds Inc.	3.7	33	3.2	41.7	19.4	61.1	1k	5.7	50.3	47.9	49.1	52.5
Ebberts 1385RR	Ebberts Field Seeds Inc.	3.7	34	3.2	41.0	20.8	61.8	1k	5.6	55.7	56.5	56.1	
	<b>Min</b>		<b>27</b>	<b>2.9</b>	<b>39.1</b>	<b>19.2</b>	<b>60.0</b>			<b>44.3</b>	<b>47.7</b>	<b>46.0</b>	<b>52.3</b>
	<b>Max</b>		<b>36</b>	<b>3.8</b>	<b>41.9</b>	<b>21.5</b>	<b>62.2</b>			<b>56.0</b>	<b>57.5</b>	<b>56.1</b>	<b>59.4</b>
	<b>Mean</b>		<b>31.6</b>	<b>3.3</b>	<b>40.6</b>	<b>20.3</b>	<b>61.0</b>			<b>50.7</b>	<b>53.0</b>	<b>52.0</b>	<b>55.6</b>
	<b>LSD 0.30</b>									<b>2.7</b>	<b>2.5</b>		

**Table 8. 2003 Ohio Soybean Performance Trials: South Region Roundup Ready Varieties - continued**

Entry		See "Measurements and Records" in Text for Description											
Brand/Variety	Company	Rel. Mat.	Plant Ht.	1000	% Prot.	% Oil	% Prot. & % Oil	Phytophthora		South Region Yield (Bu/ac)			
				Seeds /lb				Resist. Gene	Partial Resist.	2003 S1	2003 S2	S1-S2 Mean	'02-'03 Mean
<b><u>LATE (Relative Maturity 3.8 - 4.3)</u></b>													
SC 9373RR	Seed Consultants Inc.	3.8	28	3.4	40.1	20.8	60.9	1k	5.2	52.0	51.6	51.8	57.0
Asgrow AG3703	Monsanto Company	3.8	28	3.4	40.9	20.1	61.0	none	3.5	51.4	51.6	51.5	54.3
ShurGrowSG383RR	Champaign Landmark Inc.	3.8	29	3.1	39.2	21.2	60.4	1k	6.3	48.5	52.8	50.7	
SC 9404RR	Seed Consultants Inc.	3.8	29	3.3	41.2	20.1	61.3	none	3.6	54.3	49.4	51.8	
Garst 4112RR/N	Garst Seed Co.	3.8	30	2.9	41.9	20.1	62.0	none	4.0	49.4	48.1	48.8	
Wellman W3337	Wellman Seeds Inc.	3.8	31	3.6	42.0	19.2	61.2	1c	3.8	50.3	53.9	52.1	56.4
DynaGro DG3390NRR	UAP Great Lakes	3.8	31	3.8	38.4	21.1	59.5	1c	3.8	51.2	53.4	52.3	
Vigoro V38N4RR	Royster-Clark Inc.	3.8	34	3.4	39.1	20.8	59.9	1k	5.0	49.8	49.0	49.4	
ShurGrowSG373RR	Champaign Landmark Inc.	3.8	35	3.3	42.3	19.0	61.3	1c	3.5	52.6	56.5	54.5	
DynaGro DG 3373NRR	UAP Great Lakes	3.8	35	3.7	41.3	19.8	61.1	99	3.5	52.1	53.8	52.9	
Vigoro V344RR	Royster-Clark Inc.	3.8	35	3.5	39.7	20.4	60.1	1c	99.0	51.6	50.8	51.2	
393.RCP	Schillinger Seed Inc.	3.8	36	3.2	39.3	20.9	60.2	1k	7.0	50.0	50.0	50.0	
GR 3932	Midwest Seed Genetics	3.8	36	2.9	39.5	20.1	59.6	1k	5.0	52.0	52.4	52.2	
SC 9394RR	Seed Consultants Inc.	3.8	36	3.6	40.0	20.5	60.5	1k	6.7	54.4	53.5	54.0	
Vigoro V 372RR	Royster-Clark Inc.	3.8	37	2.9	41.1	19.0	60.1	99	99.0	53.5	48.5	51.0	55.0
GR 3732	Midwest Seed Genetics	3.8	37	3.4	42.1	19.1	61.2	1c	3.6	51.3	57.6	54.4	
Pioneer 93M80	Pioneer-A DuPont Company	3.8	40	2.8	39.8	20.6	60.4	1c	3.5	50.4	53.1	51.8	
Ebberts 1362RR	Ebberts Field Seeds Inc.	3.9	25	3.2	39.7	21.1	60.8	1k	5.8	52.1	58.9	55.5	59.8
Gries GSF373RR	Gries Seed Farms Inc.	3.9	26	3.6	39.9	21.2	61.1	1k	5.5	53.0	54.9	54.0	
SC 9374RR	Seed Consultants Inc.	3.9	28	3.2	42.0	19.1	61.1	99	3.8	55.0	54.6	54.8	
Wellman W3336	Wellman Seeds Inc.	3.9	29	3.3	39.6	20.9	60.5	1k	6.3	48.2	53.9	51.1	55.6
Ebberts 1351RR	Ebberts Field Seeds Inc.	3.9	29	3.6	40.3	19.8	60.1	1k	7.0	50.1	51.3	50.7	55.3
Premier 8739RR	Porter Hybrids Inc.	3.9	30	3.1	41.1	20.1	61.2	none	3.8	48.8	49.7	49.3	
SC 9364RR	Seed Consultants Inc.	3.9	32	3.4	41.5	19.6	61.1	1a	4.6	47.5	50.1	48.8	
Crows C3717R	Crow's Hybrid Corn Co.	3.9	34	3.3	42.0	19.0	61.0	1c	3.5	49.0	51.4	50.2	
Garst 3824RR/N	Garst Seed Co.	3.9	36	3.5	38.8	21.1	59.9	1c	3.5	49.2	52.7	51.0	
Gries GSF383RR	Gries Seed Farms Inc.	3.9	36	3.8	40.1	19.6	59.7	none	6.8	50.6	50.3	50.4	
Dekalb DKB37-51	Monsanto Company	3.9	36	3.5	42.3	18.7	61.0	1c	3.8	45.9	53.0	49.5	
AGI 7361RR	Advanced Genetics Inc.	3.9	38	3.2	41.6	19.9	61.5	seg	3.8	48.6	54.2	51.4	
Dekalb DKB38-52	Monsanto Company	3.9	38	3.4	38.6	21.0	59.6	1c	3.8	49.2	53.2	51.2	53.9
Ebberts 1394RR	Ebberts Field Seeds Inc.	3.9	39	3.0	40.8	20.3	61.1	none	3.6	52.4	51.0	51.7	

*South Region RR LATE - continued*

SC 9382RR	Seed Consultants Inc.	3.9	40	3.9	40.9	19.1	60.0	none	5.8	52.4	50.9	51.7	53.8
Wellman W3439RR	Wellman Seeds Inc.	4.0	27	3.1	41.2	20.6	61.8	seg	3.8	50.0	51.4	50.7	
Premier 7737RR	Porter Hybrids Inc.	4.0	27	3.4	39.3	21.0	60.3	1k	6.0	47.9	52.7	50.3	
Strike 3702RR	Burtch Seed Co. Inc.	4.0	28	3.1	40.7	20.3	61.0	1k	4.4	47.0	52.3	49.7	
BG 3620NRR	Bio Gene Seeds	4.0	29	3.3	40.3	20.3	60.6	1c	3.6	46.7	51.2	49.0	
Ebberts 1373RR	Ebberts Field Seeds Inc.	4.0	30	3.5	41.9	19.2	61.1	1c	99.0	49.6	50.9	50.3	
BG 3703NRR	Bio Gene Seeds	4.0	31	3.6	40.4	19.2	59.6	none	4.0	55.6	54.4	55.0	
Pioneer 94B13	Pioneer-A DuPont Company	4.0	33	3.3	40.1	19.9	60.0	none	5.2	49.4	49.1	49.3	52.3
SC 9391RR	Seed Consultants Inc.	4.0	33	3.3	40.7	20.1	60.8	1a	4.2	49.8	46.2	48.0	51.9
413.RCP	Schillinger Seed Inc.	4.0	35	3.6	39.4	20.6	60.0	1c	3.6	48.0	46.5	47.3	
Crows C4120R	Crow's Hybrid Corn Co.	4.0	35	3.3	39.0	20.3	59.3	none	4.4	48.9	50.3	49.6	
Premier 8539RR	Porter Hybrids Inc.	4.0	37	3.1	39.9	21.1	61.0	none	4.2	47.5	43.5	45.5	
SC 9384RR	Seed Consultants Inc.	4.1	28	3.3	39.5	20.9	60.4	1k	5.0	48.5	52.7	50.6	
Beck 405NRR	Beck's Hybrids	4.1	33	2.8	39.9	20.8	60.7	99	99.0	53.2	49.3	51.3	
Stine S4032-4	Stine Seed Company	4.1	33	3.2	38.8	21.1	59.9	3a	7.7	52.1	47.1	49.6	
Pioneer 94M41	Pioneer-A DuPont Company	4.2	33	3.2	40.8	20.1	60.9	1k	5.2	49.5	46.1	47.8	
Premier 8639RR	Porter Hybrids Inc.	4.2	35	3.0	40.8	20.0	60.8	1k	6.0	51.1	47.7	49.4	
Beck 437NRR	Beck's Hybrids	4.2	41	3.7	39.3	19.9	59.2	1k	6.7	51.0	40.1	45.5	53.0
BG 4200NRRST	Bio Gene Seeds	4.3	31	2.9	39.7	20.1	59.8	1a	4.3	50.6	45.0	47.8	53.8
SC 9442RR	Seed Consultants Inc.	4.3	36	3.7	39.9	19.7	59.6	1a	7.3	51.0	48.0	49.5	54.8
	<b>Min</b>		<b>25</b>	<b>2.8</b>	<b>38.4</b>	<b>18.7</b>	<b>59.2</b>			<b>45.9</b>	<b>40.1</b>	<b>45.5</b>	<b>51.9</b>
	<b>Max</b>		<b>41</b>	<b>3.9</b>	<b>42.3</b>	<b>21.2</b>	<b>62.0</b>			<b>55.6</b>	<b>58.9</b>	<b>55.5</b>	<b>59.8</b>
	<b>Mean</b>		<b>32.9</b>	<b>3.3</b>	<b>40.7</b>	<b>20.2</b>	<b>60.5</b>			<b>50.5</b>	<b>51.0</b>	<b>50.7</b>	<b>54.7</b>
	<b>LSD 0.30</b>									<b>3.1</b>	<b>1.6</b>		

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