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2009 Precision Planted Corn Performance Trials

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2009 Precision Planted Performance Trials

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Tables, 2009 Corn Performance Trials

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2009 Precision Planted
Corn
Performance Trials

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This publication reports the results of the 2009 South Dakota corn hybrid performance trials for glyphosate-resistant hybrids. Information includes both the most recent 2-year and 1-year grain yields in bushels per acre and 1-year bushel weight, grain moisture at harvest, lodging percentage, and final stand percentages. These performance trials are conducted by the South Dakota Crop Performance Testing program at South Dakota State University. Corn performance trial tables are listed on the inside front cover. Environmental data is listed in tables A and B, indices of brand/hybrid entries to performance table number are listed in table C, table D has the footnote legend, and mailing addresses for seed companies are listed in table E.

Test Trial Locations

Trial locations, soil types, seedbed and previous crop history, soil fertility yield goals, and seeding dates are indicated in table A. The participation and efforts of our cooperators — Allen and Inel Ryckman at Warner, Al Heuer at South Shore (Northeast Research Farm), E. Weerts Farm Inc. at Bancroft, Douglas Doyle at Brookings (SDSU Plant Science Research Farm), Curtis Sybesma at Geddes, and Robert Berg and staff at Beresford (Southeast Experiment Station) — are gratefully acknowledged.

Seasonal Temperatures and Precipitation

Seasonal rainfall and its distribution and average temperatures at weather reporting stations nearest each test trial are reported in table B for the period April 1 to October 31. Seasonal precipitation sums were above average at Aberdeen (3.15"), South Shore (2.95", and Huron (2.25"); near average at Centerville (0.65"); and below average at Brookings (-1.38") and White Lake (-1.37"). The greatest moisture deficits tended to occur at most locations in April and May. In some areas of the state, such early season moisture deficits may have resulted in the delayed emergence of some crops seeded at their normal seeding dates.

Seasonal average temperatures from April to October were at or near normal at Brookings and Centerville. Seasonal temperatures were below average at Aberdeen (-2.37°F), South Shore (-3.07°F), Huron (-2.00°F) and White Lake (-3.13°F). The monthly departures from average temperatures in June, July, and August varied from near normal at Brookings and Centerville to nearly 7°F below average at South Shore and White Lake in July.

Seasonal sums of accumulated growing degree days (GDDs) varied from a low of 2,010 at South Shore to a high of 2,630 at Centerville for the April–October period. The seasonal accumulated GDDs departures from average were below average for all locations and varied from a low of -279 at Huron to a high of -588 GDDs at White Lake. If only the May to September period is considered, then the seasonal GDDs departure from average would be -224 at Aberdeen, -291 at South Shore, -162 at Huron, -171 at Brookings, -306 at Centerville, and -415 at White Lake. If one calculates the average loss in GDDs per day from May to September, the average losses were -1.5 at Aberdeen, -1.9 at South Shore, -1.1 at Huron and Brookings, -2.0 at Centerville, and -2.7 at White Lake.

In summary, the growing season precipitation sums for corn varied from -1.3" below to over 3" above normal across the 6 locations tested, with the greatest precipitation generally occurring in October. In addition, the greatest monthly departures from average temperature occurred in June, July, August, and October. Generally, the GDD loss per day during the growing season was low at Huron and Brookings; slightly higher at Aberdeen, South Shore, and Centerville; and the highest at White Lake.

General Test Procedures

Seed companies pick the test locations where their entries are tested. Entries are placed into "early" or "late" maturity trials. The relative maturity breaks between the early and late tests are 95 days for Warner and South Shore, 100 days for Bancroft and Brookings, 105 days for Geddes, and 110 days for Beresford. Hybrids are assigned to trials based on the relative maturity rating reported by the participating seed company. **This testing program does not guarantee that all entries are placed in the proper maturity trial.** In some trials, **borderline entries with relative maturity ratings at or near the arbitrary break between the early and late trials may crossover at a given location.** In some cases this may be indicated by exceptionally high or low grain moisture contents at harvest. A higher than average moisture content may indicate the hybrid is later in relative maturity than indicated. Likewise, a lower than average moisture content may indicate the hybrid is earlier in relative maturity than indicated. A fee was charged for all entries at each location. **A list of participating seed companies for 2009 is presented in table E.**

Experimental Procedures

Entries were seeded in 3 replications, with each hybrid randomly located within each trial. Plots consisted of four 30-inch rows that were 20 feet long, with the center two rows harvested for yield. A Monosem precision row crop planter was used for seeding plots at all locations. In 2009, the precision planter was calibrated to deliver 28,750 seeds per acre, regardless of seed quality and germination percentage. No seeding rate adjustment was made for low germination. Therefore, percent stand is an indication of initial seed quality and the ability of the seed to cope with the production environment from seeding to harvest. Soil type, land preparation, previous crop history, and fertility yield goal at each test site is outlined in table A. Seedbed preparation was good at all locations. A starter fertilizer of 100 pounds/acre of 37-18-00 was applied 2" below and 2" to the side (2 x 2) of the seed row. The weed control herbicides applied at recommended label rates are indicated in table A.

Measurements of Performance

Yields are obtained from the South Dakota Crop Performance Testing Program. Current-year and 2-year yield averages are included where hybrids have been tested in 2009 and for the past 2 years.

Yield. Yield values are an average of 3 replications and are expressed as bushels per acre, adjusted to 15.5% moisture on a dry-matter basis and a bushel weight of 56 pounds. Hybrids of equal potential may yield differently because of variations in slope, soil fertility, and stand. Statistical tests were conducted to determine whether differences obtained were caused by variations in environment or were true hybrid differences. In 2009, the coefficient of variation (CV) values (a measure of experimental error) for yield was relatively low, ranging from 3 to 8% over the 6 test locations. Experimental error may be the result of several factors, including test methods, or factors such as moisture, temperature, or soil variations, or agronomic factors like seeding date, reseeding, or seed quality factors — all of which may or may not be controllable in a given year. This year, good seasonal moisture distribution and cooler than normal mid-summer temperatures were the 2 factors that were instrumental in producing good yields but very low bushel weights and high kernel moisture levels at harvest.

Grain moisture content. Moisture content is expressed as the percentage of moisture in the shelled corn at harvest. Moisture is generally inversely related to maturity and is important in the evaluation of hybrids. Hybrids that provide satisfactory yields and can be stored without additional drying are desirable. During harvest, moisture values were determined by the combine moisture meter, which in turn was periodically checked with a Dickey-John GAC-2100 to verify it was within limits. In 2009, grain moisture values were higher than normal as the result of lower than normal heat unit accumulation (below average temperatures) that slowed the progress of the crop during grain filling that in turn contributed to both high kernel moisture and low bushel weight values.

Use of tables. Check for the "least significant difference" (LSD) value at the bottom of each column of data averages. The LSD value indicates how much a variable such as yield must differ between 2 hybrids before there is a significant yield difference. LSD values are given at the bottom of every column where there is significant difference among the averages within the column. If differences among the averages within a column are not significant, the LSD value is reported as "non-significant" (NS).

The LSD values reported in this publication can be used in two ways. In this publication the LSD value is used primarily to identify the top performance group (TPG) for 2-year yields, for current-year yields, for bushel weight, for grain moisture at harvest, for lodging (below the ear) percentage, and for final stand percentage for each test trial. In order to determine which hybrids are in the TPG for yield, use the LSD value indicated at the bottom of each yield column in any yield table. For example, let's say the column LSD value equals 15 (bu/a) and the highest yield for that column equals 155 bu/a. If you subtract the column LSD value from the highest yield, you obtain an intermediate value of 140 bu/a (155 – 15 = 140). The minimum top yield value has to be greater than this intermediate value of 140 bu., and since the yield values are rounded to the nearest bushel, it must be at least 141 bu. Thus, varieties with an average of 141 bu. or higher are included in the top-yield group.

These minimum TPG values for yield are indicated at the bottom of each yield column, unless too much experimental error (high CV values) is associated with the test. Top yield hybrids are those hybrids that are equal or higher than the minimum TPG value reported at the bottom of each yield column (2-yr or 2009 yield averages). If hybrid yield differences are not significant (NS) and the CV values are 15% or less, then, by definition, **all hybrids in the test are in the top-yield group**. In contrast, if the column CV value is greater than 15%, then no minimum TPG value is indicated because there was too much experimental error associated with the test to make a valid determination of the TPG for yield. When comparing yield means, compare current-year averages with other current-year averages and compare 2-yr yield averages with other 2-yr averages. When evaluating 2-yr averages, do not forget to note how the entries tested for 2 years performed in 2009. **Entries tested for 2 years may also have a yield value that qualifies for the TPG in the 2009 yield column**.

The TPG for other performance factors — such as bushel weight, percent grain moisture at harvest, percent lodging (below the ear), and percent stand (percent of seeded population) — can also be determined. In order to qualify for the TPG group, a hybrid must have a bushel weight and a final stand percentage value that is equal to or greater than the minimum reported TPG value for bushel weight or final stand percentage. Likewise, in order to qualify for the TYG, a hybrid must have grain moisture and lodging percentage values that are equal to or less than the maximum reported TPG value for grain moisture or lodging percentage. Note that yield, bushel weight, and percent stand TPG values are greater than a certain yield, bushel weight, or final stand value, or they are minimum values. In contrast, grain moisture and lodging percentages are equal to or less than a certain value to qualify for the TPG, or they are maximum values. Again, as with hybrid yields, if there are no hybrid differences for a performance factor, then, by definition, **all hybrids in the test are in the TPG for that performance factor**.

The LSD values for the TPG can also be used to determine if two hybrids differ in performance. For example, if a test trial LSD value equals 16 bu/a, and hybrid A yields 132 bu/a while hybrid B yields 118 bu/a, then their yield difference is 14 bu/a

(132-118 =14). In this case, the two hybrids do not differ in yield because their yield difference of 14 bu/ac is equal to or less than the reported LSD value of 16 bu/a. In contrast, if hybrid C yields 114 bu/a, the yield difference between hybrids A and C is 18 bu/a (132-114=18). In this case, the yield difference of 18 bu/a is higher than the reported LSD value of 16 bu/a; therefore, hybrid A would have a significantly higher yield than hybrid C. Similarly, the LSD values for bushel weight, grain moisture, stalk lodging below the ear, and percent stand can be used to determine if any two hybrids differ in these performance factors. For example, if a test trial grain moisture LSD value equals 2% and hybrid a measures 18% and hybrid B measures 16, their grain moisture difference is 2% (18-16=2). In this case, the two hybrids do not differ in grain moisture because their moisture difference of 2% is equal to or less than the reported LSD value of 2%. In contrast, if hybrid C measures 15%, the grain moisture difference between hybrids A and C is 3% (18-15=3). In this case, the grain moisture difference of 3% is more than the reported LSD value 2%; therefore, hybrid A is significantly higher in grain moisture than hybrid C.

The performance trial results for one year (2009) and for two years (2008-09) follow:

PERFORMANCE TRIAL RESULTS BY LOCATIONS

Northern Locations

A brief discussion of the corn performance trial results at the various test trial locations for the past 2 years (2008–2009) and for the most recent year (2009) follow. In addition, note that all yield averages are reported as harvest yield adjusted to 15.5% grain moisture and a 56 pound bushel weight. Generally, Warner, Geddes, and Beresford exhibited the best yield and bushel weight averages, along with grain moisture levels of 17 to 27%. At South Shore, Bancroft, and Brookings the yield averages were surprisingly good, but the bushel weight averages were very low and varied from 47 to 50 pounds with high grain-moisture levels of 20 to 31%. At all locations, the coefficient of variation (a measure of experimental error) for yield was very low and only varied from 3 to 6% for 2009. The cooler than average temperatures this past summer had a significant influence that resulted in high yields but lower than average bushel weights and higher than average moisture levels at harvest at most locations.

Warner:

Early – Glyphosate-resistant trial, Table 1a. The test trial yield averages were **210** bu/a for 2 years and 230 bu/a for 2009. Hybrids that yielded **206** bu/a or more for 2 years and 234 bu/a or more for 2009 qualified for the TPG for yield. Hybrids had to differ in yield by **13** bu/a in 2009 to be significantly different, while the yield differences for 2 years were not significant (NS). Because there were no differences in yield average among the hybrids tested 2 years, all entries tested qualified for the TPG. In 2009, bushel weights averaged **52** lbs, grain moisture averaged **21%**, lodging percentage averaged **zero percent**, and final stand percentage averaged **94%**. In order for hybrids to be in the TPG for these factors, the hybrid had to average **53** lbs. or more in bushel weight, **19%** or less in grain moisture, **1%** or less in lodging percentage, and **94%** or more for final stand percentage.

Late – Glyphosate-resistant trial, Table 1b. The test trial yield averages were **220** bu/a for 2 years and **231** bu/a for 2009. Hybrids that yielded **210** bu/a or more for 2 years qualified for the TPG for yield. Because there were no differences in yield average among the hybrids tested two years, all entries tested qualified for the TPG. Hybrids had to differ in yield by **12** bu/a in 2009 to be significantly different. In 2009, bushel weights averaged **52** lbs, grain moisture averaged **23%**, lodging percentage averaged **zero percent**, and final stand percentage averaged **94%**. In order for hybrids to be in the TPG for these factors, the hybrid had to average **53** lbs. or more in bushel weight, **19%** or less in grain moisture, **1%** or less in lodging percentage, and **95%** or more for final stand percentage.

South Shore:

Early – Glyphosate-resistant trial, Table 2a. The test trial yield averages were **187** bu/a for 2 years and **200** bu/a for 2009. The yield differences among those hybrids tested for 2 years were not significant (NS). Hybrids that yielded **205** bu/a or more for 2009 qualified for the TPG for yield. Hybrids had to differ in yield by **11** bu/a in 2009 to be significantly different. In 2009, bushel weights averaged **50** lbs, grain moisture averaged **20%**, lodging averaged **zero percent**, and final stand percentage averaged **96%**. In order for hybrids to be in the TPG for these factors, the hybrid had to average **52** lbs. or more in bushel weight, **18%** or less in grain moisture, **1%** or less in lodging, and **95%** or more in final stand percentage.

Late – Glyphosate-resistant trial, Table 2b. The test trial yield averages were **185** bu/a for 2 years and **192** bu/a for 2009. Hybrids that yielded **171** bu/a or more for 2 years and **204** bu/a or more for 2009 qualified for the TPG for yield. Hybrids had to differ in yield by **28** bu/a for two years and **13** bu/a in 2009 to be significantly different. In 2009, bushel weights averaged **47** lbs, grain moisture averaged **26%**, lodging averaged **zero percent**, and final stand percentage averaged **93%**. In order for hybrids to be in the TPG for these factors, the hybrid had to average **49** lbs. or more in bushel weight, **22%** or less in grain moisture, and **1%** or less in lodging, and **93%** or higher in final stand percentage.

Central Locations

Bancroft:

Early – Glyphosate-resistant trial, Table 3a. The test trial yield averages were **189** bu/a for 2 years and **179** bu/a in 2009. Hybrids that yielded **179** bu/a or more for 2 years and **183** bu/a in 2009 qualified for the TPG for yield. Hybrids had to differ in yield by **20** bu/a for 2 years and **18** bu/a in 2009 to be significantly different. In 2009, bushel weights averaged **49** lbs, grain moisture averaged **24%**, lodging averaged **zero percent**, and percent stand averaged **90%**. In order for hybrids to be in the TPG for these factors, the hybrid had to average **51** lbs. or more in bushel weight, **20%** or less in grain moisture, **2%** or less in lodging percentage, and **91%** or more for final stand percentage.

Late – Glyphosate-resistant trial, Table 3b. The test trial

yield averages were **181** bu/a for 2 years and **161** bu/a in 2009. Hybrids that yielded **168** bu/a or more in 2009 qualified for the TPG for yield. Yield differences among hybrids were not significant for the 2-year period. In 2009, bushel weights averaged **48** lbs, grain moisture averaged **31%**, lodging percentage averaged **1%**, and the final stand percentage averaged **89%**. In order for hybrids to be in the TPG for these factors, the hybrid had to average **47** lbs. or more in bushel weight, **26%** or less in grain moisture, **4%** or less in lodging percentage, and **90%** or more for final stand percentage.

Brookings:

Early – Glyphosate-resistant trial, Table 4a. The test trial yield averages were **197** bu/a for 2 years and **219** bu/a for 2009. Hybrids that yielded **234** bu/a or more for 2009 qualified for the TPG for yield, while the yield differences for 2 years were not significant (NS). Hybrids had to differ in yield by **11** bu/a in 2009 to be significantly different. In 2009, bushel weights averaged **50** lbs, grain moisture averaged **23%**, lodging percentage averaged zero percent, and final stand percentage averaged **93%**. In order for hybrids to be in the TPG for these factors, the hybrid had to average **51** lbs. or more in bushel weight, **22%** or less in grain moisture, **2%** or less in lodging percentage, and **94%** or more for final stand percentage.

Late – Glyphosate-resistant trial, Table 4b. The test trial yield averages were **201** bu/a for 2 years and **223** bu/a for in 2009. There were no differences in yield average among the hybrids tested 2 years, so all hybrids tested qualified for the TPG. Hybrids that yielded **231** bu/a or more in 2009 qualified for the TPG for yield. Hybrids had to differ in yield by **12** bu/a in 2009 to be significantly different. In 2009, bushel weights averaged **48** lbs, grain moisture averaged **27%**, lodging averaged slightly more than zero percent, and percent stand averaged **93%**. In order for hybrids to be in the TPG for all performance factors, the hybrid had to average **51** lbs. or more in bushel weight, **24%** or less in grain moisture, **2%** or less in lodging percentage, and **95%** or more for final stand percentage.

Southern Locations

Geddes:

Early – Glyphosate-resistant trial, Table 5a. The test trial yield average was **211** bu/a for 2 years and **229** bu/a in 2009. The average yield differences among the hybrids tested 2 years were non-significant (NS), so all the hybrids tested qualified for the TPG. Hybrids that yielded **228** bu/a or more for 2009 qualified for the TPG for yield. In 2009, bushel weights averaged **54** lbs, grain moisture averaged **17%**, lodging percentage averaged **zero percent**, and percent final stand averaged **93%**. In order for hybrids to be in the TPG for these factors, the hybrid had to average **55** lbs. or more in bushel weight, **16%** or less in grain moisture, **2%** or less in lodging, and **93%** or more for final stand.

Late – Glyphosate-resistant trial, Table 5b. The test trial yield average was **208** bu/a for 2 years and **216** bu/a for 2009. Yield differences among hybrids tested for 2 years were non-significant (NS); thus, all entries tested two years were in the TPG for yield. Hybrids that yielded **216** bu/a or more for 2009 qualified for the TPG for yield. Hybrids had to differ in yield by **18** bu/a in 2009 to be significantly different. In 2009, bushel weights averaged **52** lbs, grain moisture averaged **20%**, lodging percentage averaged **zero percent**, and percent final stand averaged **91%**. In order for hybrids to be in the TPG for these factors, the hybrid had to average **53** lbs. or more in bushel weight, **18%** or less in grain moisture, **2%** or less in lodging, and **95%** or more for final stand.

Beresford:

Early – Glyphosate-resistant trial, Table 6a. The test trial yield averages were **225** bu/a for 2 years and **236** bu/a in 2009. There were no differences in yield average among the hybrids tested 2 years, so all hybrids tested qualified for the TPG. Hybrids that yielded **239** bu/a or more in 2009 qualified for the TPG for yield. Hybrids had to differ in yield by **14** bu/a in 2009 to be significantly different. In 2009, bushel weights averaged **52** lbs, grain moisture averaged **24%**, lodging percentage averaged **1%**, and final stand percentage averaged **93%**. In order for hybrids to be in the TPG for these factors, the hybrid had to average **53** lbs. or more in bushel weight, **19%** or less in grain moisture, **2%** or less in lodging percentage, and **93%** or more for final stand percentage.

Late – Glyphosate-resistant, Table 6b. The test trial yield averages were **225** bu/a for 2 years and **232** bu/a in 2009. There were no differences in yield average among the hybrids tested 2 years, so all hybrids tested qualified for the TPG. Hybrids that yielded **235** bu/a or more in 2009 qualified for the TPG for yield. Hybrids had to differ in yield by **14** bu/a in 2009 to be significantly different. In 2009, bushel weights averaged **52** lbs, grain moisture averaged **27%**, lodging percentage averaged **1%**, and final stand percentage averaged **93%**. In order for hybrids to be in the TPG for these factors, the hybrid had to average **53** lbs. or more in bushel weight, **25%** or less in grain moisture, and **3%** or less in lodging percentage.

Table A. Description of 2009 corn hybrid trial locations- soil type, tillage method, prior crop, herbicides used, and seeding dates.

Location (County)	Soil Type	Tillage Method	Prior crop	Herbicides Applied at label rates		Fertility Yield Goal bu/a	Date Seeded
				Pre	Post		
Warner (Brown)	Harmony-Aberdeen silty clay loam, 0-2% slope	Conventional	Spring Wheat	Harness Xtra	Roundup once	200	May 7
South Shore (Codington)	Kranzburg silty clay loam, 3-6% slope	Conventional	Spring Wheat	Dual II Magnum	Roundup once	180	May 7
Bancroft (Kingsbury)	Houdek-Stickney-Tetonka loam, 0-3% slope	Conventional	Soybean	Fall Dual	Roundup once	180	May 18
Brookings (Brookings)	Barnes clay loam, 0-2% slope	Conventional	Soybean	Dual II Magnum	Roundup twice	200	May 6
Geddess (Chas. Mix)	Highmore-Walke silt loam, 0-2% slope	No-till	Winter Wheat	-	Roundup twice	200	May 14
Beresford (Clay)	Egan-Clarno-Trent silty clay loam, 0-2% slope	Conventional	Soybean	-	Roundup once	210	May 11

Plots were seeded at 28,750 seeds per acre.

Table B. Nearest weather station precipitation accumulation and average daily tempeatures for each growing season month in 2009 and departures from average (DFA), SD Office of Climate and Weather.

Station (Test site)	Variable		Monthly data - April 1 to October 31							Sum or Average
			April	May	June	July	Aug	Sept	Oct	
Aberdeen Airport (Warner)	Precip.- inches	'09	1.90	0.47	3.87	2.46	2.83	4.41	4.00	19.94
	1971-2000 avg.		1.83	2.69	3.49	2.92	2.42	1.81	1.63	16.79
		DFA*	0.07	-2.22	0.38	-0.46	0.41	2.60	2.37	3.15
	Avg.Temp. -°F	'09	43.0	56.4	64.0	68.0	66.5	63.5	41.4	57.54
	1971-2000 avg.		45.4	57.9	66.8	72.2	70.5	59.8	46.8	59.91
		DFA	-2.4	-1.5	-2.8	-4.2	-4.0	3.7	-5.4	-2.37
	Accum. GDDs	'09	108	309	450	549	535	431	40	2422
	1971-2000 avg.		111	316	498	691	644	349	143	2752
		DFA*	-3	-7	-48	-142	-109	82	-103	-330
South Shore Northeast Research Farm	Precip.- inches	'09	1.09	1.73	2.70	3.97	3.60	1.62	6.53	21.24
	1971-2000 avg.		1.96	2.61	4.01	2.91	2.85	2.03	1.92	18.29
		DFA	-0.87	-0.88	-1.31	1.06	0.75	-0.41	4.61	2.95
	Avg.Temp. -°F	'09	40.7	54.3	61.9	64.0	63.9	61.1	38.1	54.86
	1971-2000 avg.		43.2	56.0	65.3	70.4	67.8	57.8	45.0	57.93
		DFA	-2.5	-1.7	-3.4	-6.4	-3.9	3.3	-6.9	-3.07
	Accum. GDDs	'09	89	250	391	439	449	377	15	2010
	1971-2000 avg.		73	278	456	631	558	306	107	2409
		DFA*	16	-28	-65	-192	-109	71	-92	-399
Huron (Bancroft)	Precip.- inches	'09	1.68	2.08	4.45	2.95	1.57	2.54	3.87	19.14
	1971-2000 avg.		2.29	3.00	3.28	2.86	2.07	1.80	1.59	16.89
		DFA	-0.61	-0.92	1.17	0.09	-0.50	0.74	2.28	2.25
	Avg.Temp. -°F	'09	44.5	58.5	65.0	69.0	68.5	64.5	42.0	58.86
	1971-2000 avg.		46.1	58.2	67.9	73.4	71.5	61.0	47.9	60.86
		DFA	-1.6	0.3	-2.9	-4.4	-3.0	3.5	-5.9	-2.00
	Accum. GDDs	'09	122	344	478	580	587	465	54	2630
	1971-2000 avg.		124	318	536	719	665	378	169	2909
		DFA*	-2	26	-58	-139	-78	87	-115	-279

Brookings (SDSU Plant Science Farm)	Precip.- inches	'09	0.86	2.23	3.32	3.78	1.37	1.25	5.33	18.14
	1971-2000 avg.		2.03	2.95	4.23	3.11	2.94	2.48	1.78	19.52
		DFA	-1.17	-0.72	-0.91	0.67	-1.57	-1.23	3.55	-1.38
	Avg.Temp. -°F	'09	44.4	56.9	66.2	70.7	68.5	58.9	46.0	58.80
	1971-2000 avg.		44.2	56.7	66.1	70.7	68.6	59.1	46.3	58.81
		DFA	0.2	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.01
	Accum. GDDs	'09	100	299	429	496	504	394	23	2245
	1971-2000 avg.		85	293	483	640	577	330	138	2546
		DFA*	15	6	-54	-144	-73	64	-115	-301
Centerville, 6 SE (Beresford) Southeast Experiment Station (Test site)	Precip.- inches	'09	1.60	0.94	4.64	4.82	2.08	2.16	4.72	20.96
	1971-2000 avg.		2.47	3.65	3.95	3.35	2.83	2.26	1.80	20.31
		DFA	-0.87	-2.71	0.69	1.47	-0.75	-0.10	2.92	0.65
	Avg.Temp. -°F	'09	47.4	59.7	69.5	73.7	71.4	62.6	49.4	61.96
	1971-2000 avg.		47.2	59.5	69.4	73.7	71.5	62.3	49.7	61.90
		DFA	0.2	0.2	0.1	0.0	-0.1	0.3	-0.3	0.06
	Accum. GDDs	'09	136	354	504	561	564	424	52	2595
	1971-2000 avg.		135	338	582	733	666	396	194	3044
		DFA*	1	16	-78	-172	-102	28	-142	-449
White Lake (Geddes)	Precip.- inches	'09	0.96	1.18	3.11	3.4	2.63	1.72	3.68	16.68
	1971-2000 avg.		2.49	3.6	3.19	2.88	2.21	2.09	1.59	18.05
		DFA	-1.53	-2.42	-0.08	0.52	0.42	-0.37	2.09	-1.37
	Avg.Temp. -°F	'09	43.7	58.0	65.1	68.0	67.5	62.7	49.5	59.21
	1971-2000 avg.		47.9	59.7	69.0	74.5	72.7	62.8	49.8	62.34
		DFA	-4.2	-1.7	-3.9	-6.5	-5.2	-0.1	-0.3	-3.13
	Accum. GDDs	'09	125	340	457	570	552	426	40	2510
	1971-2000 avg.		148	342	567	740	696	415	190	3098
		DFA*	-23	-2	-110	-170	-144	11	-150	-588

* DFA - departure from normal, difference current year is greater or less (-) than the long-term average.

Table C. 2009 Glyphosate-resistant corn hybrid entries by brand/hybrid, seed product traits, and index to performance table no.(s).

Brand/Hybrid	Seed Biotech Traits [1]	Table No.(s)
AGSOURCE/ 3P-494+RR/YGPL	Cb,Crw,Gly	1a, 2a
AGSOURCE/ 3T-096 VT3	Cb,Crw,Gly	1a, 2a, 3a
AGSOURCE/ 3T-294 VT3	Cb,Crw,Gly	1a, 2a
AGSOURCE/ 3T-302 VT3	Cb,Crw,Gly	1b, 2b, 5a
AGSOURCE/ 3T-603B VT3	Cb,Crw,Gly	3b, 4b, 5a
AGSOURCE/ 3T-712 VT3	Cb,Crw,Gly	6b
AGSOURCE/ 3T-799 VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a
AGSOURCE/ 3T-904 VT3	Cb,Crw,Gly	3b, 4b, 5a
AGSOURCE/ 3T-995 VT3	Cb,Crw,Gly	1a, 2a, 3a
AGSOURCE/ 5B-198 GTCBLL	Cb,Glu,Gly	1b, 2b, 3a, 4a
AGSOURCE/ 5X-100A RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	1b, 2b
AGSOURCE/ 5X-805 RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	3b, 4b, 5a
DAIRYLAND/ ST-6992	Gly	2a
DAIRYLAND/ ST-7790	Crw*,Glu	2a
DAIRYLAND/ ST-9003	Cb,Crw,Gly	4b
DAIRYLAND/ ST-9006	Cb,Crw,Gly	6a
DAIRYLAND/ ST-9395	Cb,Crw,Gly	1a, 2a
DAIRYLAND/ ST-9500Q	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	1b, 4a
DAIRYLAND/ ST-9594	Cb,Crw,Gly	1a, 2a
DAIRYLAND/ ST-9597Q	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	1b, 2b, 4a
DAIRYLAND/ ST-9703Q	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	4b
DAIRYLAND/ ST-9789	Cb,Crw,Gly	2a
DAIRYLAND/ ST-9799	Cb,Crw,Gly	1b
DAIRYLAND/ ST-9810	Cb,Crw,Gly	6a
DAIRYLAND/ ST9206Q	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	6a

Table C. 2009 Glyphosate-resistant corn hybrid entry index to performance table no. (s). (Continued)

Brand/Hybrid	Seed Biotech Traits [1]	Table No.(s)
DEKALB/ DKC40-20(VT3)	Cb,Crw,Gly	1a, 2a
DEKALB/ DKC42-72(VT3)	Cb,Crw,Gly	1a, 2a
DEKALB/ DKC43-27(VT3)	Cb,Crw,Gly	1a, 2a, 3a, 4a, 5a
DEKALB/ DKC46-60(VT3)	Cb,Crw,Gly	1b, 2b, 3a, 4a
DEKALB/ DKC48-37(VT3)	Cb,Crw,Gly	2b, 3a
DEKALB/ DKC50-35(VT3)	Cb,Crw,Gly	3a, 5a
DEKALB/ DKC50-44(VT3)	Cb,Crw,Gly	1b, 2b, 4a, 5a
DEKALB/ DKC50-66(VT3)	Cb,Crw,Gly	1b, 2b, 3a, 4a, 5a
DEKALB/ DKC51-13(VT3)	Cb,Crw,Gly	1b, 2b, 3b, 4b, 5a
DEKALB/ DKC52-59(VT3)	Cb,Crw,Gly	1b, 3b, 4b, 5a, 6a
DEKALB/ DKC53-76(VT3)	Cb,Crw,Gly	3b, 4b, 5a, 6a
DEKALB/ DKC55-07(VT3)	Cb,Crw,Gly	3b, 5a, 6a
DEKALB/ DKC57-50(VT3)	Cb,Crw,Gly	6a
DEKALB/ DKC58-16(VT3)	Cb,Crw,Gly	5b
DEKALB/ DKC59-64(VT3)	Cb,Crw,Gly	5b, 6a
DEKALB/ DKC61-69(VT3)	Cb,Crw,Gly	5b, 6b
DEKALB/ DKC62-54(VT3)	Cb,Crw,Gly	6b
EPLEY/ E1115GT	WBcw,Cb,Bcw,Faw,Glu,Gly	2a, 3a, 4a
EPLEY/ E1184VT3	Cb,Crw,Gly	2b, 3a, 4a
EPLEY/ EXP1307HXLLRR	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	2b, 3a, 4a
FOUR/ STAR 6844VT3	Cb,Crw,Gly	6a
FOUR/ STAR EXP6066VT3	Cb,Crw,Gly	6a
FOUR/ STAR EXP9056VT3	Cb,Crw,Gly	6a
FOUR/ STAR EXP9072VT3	Cb,Crw,Gly	6a
G2/ GEN. 3P-595 RR/YGPL	Cb,Crw,Gly	1a, 2a
G2/ GEN. 5H-005 RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	3b, 4b, 5a
G2/ GEN. 5H-007 RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	3b, 4b, 5b, 6a
G2/ GEN. 5H-199 RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	1b, 2b
G2/ GEN. 5H-210 RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	5b, 6a
G2/ GEN. 5H-314 RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	6b
G2/ GEN. 5H-501 RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	1b, 2b, 3a, 4a, 5a
G2/ GEN. 5H-506 RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	3b, 4b, 5a
G2/ GEN. 5H-506A RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	3b, 4b, 5a
G2/ GEN. 5H-511 RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	5b, 6a
G2/ GEN. 5H-511A RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	5b, 6b
G2/ GEN. 5H-797 RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	1b, 2b, 3a
G2/ GEN. 5H-905 RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	3b, 4b, 5a
G2/ GEN. 5H-999 RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	1b, 2b, 3a, 4a
G2/ GEN. 5X-199RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	1b, 2b, 3a, 4a
G2/ GEN. 5X-210 RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	5b, 6a
G2/ GEN. 5X-398 RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	1a, 2a, 3a, 4a
G2/ GEN. 5X-513 RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	6b
G2/ GEN. 5X-594 RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	1a, 2a
G2/ GEN. 5X-707 RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	3b, 4b
G2/ GEN. 5X-711 RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	6a
G2/ GEN. 5X-711A RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	6b
G2/ GEN. 5X-802 RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	1b, 2b, 3a, 4a, 5a
G2/ GEN. 5X-911 RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	5b, 6a
G2/ GEN. 5X-911A RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	6b
HEINE/ 727VT3	Cb,Crw,Gly	4b
HEINE/ 742VT3	Cb,Crw,Gly	4b
HEINE/ 744RRYGCB	Cb,Gly	4b
HEINE/ 745VT3	Cb,Crw,Gly	4b
HEINE/ 753VT3	Cb,Crw,Gly	4b
HOEGEMEYER/ 3113	Cb,Crw,Gly	3a, 4a
HOEGEMEYER/ 7421	Cb,Glu,Gly	5a
HOEGEMEYER/ 7445	Cb,Crw,Gly	5a
HOEGEMEYER/ HPT 6962	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	4a
HOEGEMEYER/ HPT 7757	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	5a, 6a
HOEGEMEYER/ HPTEXP6589	WBcw,Cb,Bcw,Faw,Glu,Gly	3a
HOEGEMEYER/ HPTEXP7041	WBcw,Cb,Bcw,Faw,Glu,Gly	3a
HOEGEMEYER/ HPTEXP7408	WBcw,Cb,Bcw,Faw,Glu,Gly	5a
KALTENBERG/ 5355LLGTBT11	Cb,Glu,Gly	5a
KALTENBERG/ 5588LLRRHXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	5a
KALTENBERG/ K4053VT3	Cb,Crw,Gly	4a

Table C. 2009 Glyphosate-resistant corn hybrid entry index to performance table no. (s). (Continued)

Brand/Hybrid	Seed Biotech Traits [1]	Table No.(s)
KALTENBERG/ K4149LLGT3	Cb,Crw,Gly	4a
KALTENBERG/ K4521LLRRHXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	4a
KALTENBERG/ K5163VT3	Cb,Crw,Gly	5a
KALTENBERG/ K5332GT	Gly	5a
KALTENBERG/ K6645LLGT3	Cb,Crw*,Glu,Gly	6a
KALTENBERG/ K6663VT3	Cb,Crw,Gly	6a
KRUGER/ 6006VT3	Cb,Crw,Gly	3b, 4b, 5b
KRUGER/ 6010VT3	Cb,Crw,Gly	5b, 6a
KRUGER/ 6013VT3	Cb,Crw,Gly	6b
KRUGER/ 6093VT3	Cb,Crw,Gly	1a, 2a
KRUGER/ 6097VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a
KRUGER/ 6102VT3	Cb,Crw,Gly	1b, 2b, 3b, 4b, 5a
KRUGER/ 6116VT3	Cb,Crw,Gly	6b
KRUGER/ 6200VT3	Cb,Crw,Gly	1b, 2b
KRUGER/ 6205VT3	Cb,Crw,Gly	3b, 4b, 5a
KRUGER/ 6208VT3	Cb,Crw,Gly	5b, 6a
KRUGER/ 6213VT3	Cb,Crw,Gly	6b
KRUGER/ 6214VT3	Cb,Crw,Gly	6b
KRUGER/ 6295VT3	Cb,Crw,Gly	1a, 2a
KRUGER/ 6298VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a
KRUGER/ 6401VT3	Cb,Crw,Gly	1b, 2b, 3b, 4b, 5a
KRUGER/ 6408VT3	Cb,Crw,Gly	5b, 6a
KRUGER/ 6410VT3	Cb,Crw,Gly	5b, 6a
KRUGER/ 6411VT3	Cb,Crw,Gly	6b
KRUGER/ 6412VT3	Cb,Crw,Gly	6b
KRUGER/ 6490VT3	Cb,Crw,Gly	1a, 2a
KRUGER/ 6499VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a
KRUGER/ 6606VT3	Cb,Crw,Gly	3b, 4b, 5b
NC+/ 1775VT3	Cb,Crw,Gly	3a, 4a, 5a
NC+/ 1982VT3	Cb,Crw,Gly	3a, 4a, 5a
NC+/ 208-72VT3	Cb,Crw,Gly	5b, 6a
NC+/ 210-57VT3	Cb,Crw,Gly	5b, 6a
NC+/ 4517VT3	Cb,Crw,Gly	6b
NC+/ 4582VT3	Cb,Crw,Gly	5b, 6a
NUTECH/ 3T-098 VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a
NUTECH/ 3T-106 VT3	Cb,Crw,Gly	3b, 4b, 5a, 6a
NUTECH/ 3T-110 VT3	Cb,Crw,Gly	5b, 6a
NUTECH/ 3T-295 VT3	Cb,Crw,Gly	1a, 2a
NUTECH/ 3T-300 VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a
NUTECH/ 3T-308 VT3	Cb,Crw,Gly	3b, 4b, 5b, 6a
NUTECH/ 3T-313 VT3	Cb,Crw,Gly	6b
NUTECH/ 3T-401 VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a, 5a
NUTECH/ 3T-408 VT3	Cb,Crw,Gly	3b, 4b, 5b, 6a
NUTECH/ 3T-409 VT3	Cb,Crw,Gly	5b
NUTECH/ 3T-413 VT3	Cb,Crw,Gly	6b
NUTECH/ 3T-493 VT3	Cb,Crw,Gly	1a, 2a
NUTECH/ 3T-512 VT3	Cb,Crw,Gly	5b, 6a
NUTECH/ 3T-512A VT3	Cb,Crw,Gly	6b
NUTECH/ 3T-600 VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a
NUTECH/ 3T-601 VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a
NUTECH/ 3T-603 VT3	Cb,Crw,Gly	1b, 2b, 3b, 4b, 5a
NUTECH/ 3T-612 VT3	Cb,Crw,Gly	6b
NUTECH/ 3T-706 VT3	Cb,Crw,Gly	3b, 4b, 5a
NUTECH/ 3T-713 VT3	Cb,Crw,Gly	6b
NUTECH/ 3T-801 VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a, 5a
NUTECH/ 3T-894 VT3	Cb,Crw,Gly	1a, 2a
NUTECH/ 5B-804 GT/CB/LL	Cb,Glu,Gly	3b, 4b, 5a
NUTECH/ 5N-909 GTCBLLRW	Cb,Crw*,Glu,Gly	5b, 6a
PIONEER/ 33Z74	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	6b
PIONEER/ 35F44	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	3b, 4b, 5a, 6a
PIONEER/ 36V53	WBcw,Cb,Bcw,Faw,Glu,Gly	3b, 4b, 5a
PIONEER/ 37K11	WBcw,Cb,Bcw,Faw,Glu,Gly	1b, 3a
PIONEER/ 37N68	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	1b, 4b
PIONEER/ 38H08	WBcw,Cb,Bcw,Faw,Glu,Gly	1a, 2a
PIONEER/ 38P43	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	2a

Table C. 2009 Glyphosate-resistant corn hybrid entry index to performance table no. (s). (Continued)

Brand/Hybrid	Seed Biotech Traits [1]	Table No.(s)
PROSEED/ 794	Cb,Glu,Gly	1a, 2a
PROSEED/ 8100	Gly	4a
PROSEED/ 8101VT3	Cb,Crw,Gly	5a, 6a
PROSEED/ 8104	Cb,Glu,Gly	6a
PROSEED/ 894	Cb,Crw,Gly	1a, 2a
PROSEED/ 896	Cb,Crw,Gly	1b, 2b
PROSEED/ 897	Cb,Crw,Gly	1b, 2b, 3a, 4a
PROSEED/ 9102	Cb,Crw,Gly	5a, 6a
PROSEED/ 9105	Cb,Crw,Gly	5a, 6a
RENK/ EXP7-816VT3	Cb,Crw,Gly	6b
RENK/ EXP8-809VT3	Cb,Crw,Gly	6b
RENK/ RK670VT3	Cb,Crw,Gly	3b, 4b, 5a, 6a
RENK/ RK698VT3	Cb,Crw,Gly	3b, 4b, 5a, 6a
RENK/ RK711RRHXTRA	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	5b, 6a
RENK/ RK744VT3	Cb,Crw,Gly	5b, 6a
RENK/ RK760VT3	Cb,Crw,Gly	4b, 5b, 6a
RENK/ RK822VT3	Cb,Crw,Gly	5b, 6a
SEEDS/ 2000 9501VT3	Cb,Crw,Gly	1a, 2a
SEEDS/ 2000 9502VT3	Cb,Crw,Gly	1a, 2a
SEEDS/ 2000 9901VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a
WENSMAN/ W 7195VT3	Cb,Crw,Gly	1a, 2a
WENSMAN/ W 7267VT3	Cb,Crw,Gly	4a
WENSMAN/ W 7270VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a
WENSMAN/ W 7273VT3	Cb,Crw,Gly	1b, 2b
WENSMAN/ W 7289VT3	Cb,Crw,Gly	3a
WENSMAN/ W 7360VT3	Cb,Crw,Gly	3b, 4b, 5a
WENSMAN/ W 7433VT3	Cb,Crw,Gly	5a
WENSMAN/ W 7455VT3	Cb,Crw,Gly	3b, 4b, 5b, 6a
WENSMAN/ W 7469VT3	Cb,Crw,Gly	5b, 6a
WENSMAN/ W 8180	Cb,Crw,Gly	1a, 2a

[1] Insect traits - Black cutworm (Bcw), Corn borer (Cb), corn rootworm (Crw), Mexican Corn rootworm (MCrw), Northern Corn rootworm (NCrw), Western Corn rootworm (WCrw), Fall Armyworm (Faw), and Western Bean cutworm (WBcw), Crw* includes Western, Northern, and Mexican Corn rootworm.

Herbicide traits - Glyphosate tolerance (Gly) and Glufosinate tolerance (Glu).

NOTE: Biotech traits were obtained by referencing the product registrant trade name and seed characteristics as listed in the Know Before You Grow section at the National Corn Growers Website (http://www.ncga.com/) with the hybrid information supplied by each seed company. Since these biotech seed products change over time, growers are encouraged to verify the biotech traits of any hybrid (s) of interest with the respective seed dealer.

Table D. Explanation of performance table footnotes

No.	Explanation of footnotes
[1]	Entries are listed by brand/variety – entries are sorted by 2-yr then by 2009 yield average.
[2]	Brand Relative Maturity (Rel. Mat.) – the relative maturity rating as reported by the seed company.
[3]	Lodging Percentage – percentage of stalks broken below the ear at harvest.
[4]	Final Stand Percentage – the number of standing stalks at harvest as a percentage of the seeded population.
[5]	Least Significant Difference (LSD 0.05) – the difference any two values within a column must equal or exceed to be significantly different (0.05 level of probability). If the difference is less than the LSD value, the difference is nonsignificant (NS).
[6]	Min. TPG-avg. – the minimum column value for yield, bushel weight, and final stand percentage that a hybrid must equal or exceed to be in the TPG.
[7]	Max. TPG-avg. – the maximum column value for grain moisture at harvest, lodging percentage, or lodging score that a hybrid must equal or be less than to be in the TPG.
[8]	Coefficient of variation (C.V.) – the percent of experimental error associated with a test trial. Ideally, the CV value for yield is less than 15%. Values less than 5% are less common, while values of 6-15% are more common. If a value exceeds 15%, the trial contained too much experimental error to be valid, so results for that trial are not reported.

Table E. Mailing addresses for seed entries in the 2009 corn hybrid trials by seed brand name

Seed Brand	Seed Company Mailing Address
AgSource	AgSource Seeds Inc., 1800 L Ave., Nevada, IA 50201
Dairyland	Dairyland Seed, PO Box 958, West Bend, WI 53095
Dekalb	Monsanto, 102 W. Carol Ave., Cortland, IL 60112
Epley Bros.	Epley Bros. Hybrids Inc., PO Box 310, Shell Rock, IA 50670
Four Star	Four Star Seed Co., 2929-335th Street, Logan, IA 51546
G-2 Genetics	G-2 Genetics, 415 S. Duff Avenue, Suite C, Ames, IA 50010
Heine	Heine Hybrid Seed Corn, 1020 E. 320th St., Vermillion, SD 57069
Hoegemeyer	Hoegemeyer Hybrids, 1755 Hoegemeyer Road, Hooper, NE 68031
Kaltenberg	Kaltenberg Seeds, 5506 State Road 19, Box 278, Waunakee, WI 53597
Kruger	Kruger Seed Co., Box A, Dike, IA 50624
NC+	NC+, 525 South 211th Street, Elkhorn, NE 68022
NuTech	Nutech Seed, LLC, 415 S. Duff Avenue, Suite C, Ames, IA 50010
Pioneer	Pioneer Hi-Bred International, 151 Saint Andrews Court, Mankato, MN 56001
Proseed	Proseed, 701 E. Brewster St., Harvey, ND 58341
Renk	Renk Seed Co., 6809 Wilburn Rd., Sun Prairie, WI 53590
Seeds 2000	Seeds 2000, PO Box 200, Breckenridge, MN 56520
Wensman	Wensman Seed Co., 67784 330th Street, Watkins, MN 55389

Table 1a. Warner early maturity Roundup Ready corn hybrid test results, 2008-09, Allen & Inel Ryckman Farm. Seeded May 7, 2009 at 28,750 seeds per acre.

Brand/Hybrid & Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu. Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
SEEDS/ 2000 9501VT3 + Poncho 1250	95	**217**	**245**	52	**19**	**0**	**98**
DAIRYLAND/ ST-9594 + Poncho 250	94	**214**	**246**	**54**	**19**	**0**	**97**
PIONEER/ 38H08 + Poncho 250	92	**209**	225	50	17	**0**	**95**
AGSOURCE/ 3T-995 VT3 + Cruiser 250	95	**207**	225	52	21	**0**	**98**
KRUGER/ 6093VT3 + Cruiser 250	93	**206**	233	**53**	21	**0**	**99**
DEKALB/ DKC43-27(VT3) + Poncho 250	93	**206**	220	**54**	20	**1**	93
PROSEED/ 794 + Poncho 250	94	.	**247**	52	22	0	**95**
DAIRYLAND/ ST-9395 + Poncho 250	95	.	**245**	52	20	0	**97**
NUTECH/ 3T-295 VT3 + Poncho 250	95	.	**244**	**54**	23	0	**96**
AGSOURCE/ 3P-494+RR/YGPL + Cruiser 250	94	.	**242**	52	20	0	**99**
PROSEED/ 894 + Poncho 250	94	.	**240**	51	20	**0**	**95**
KRUGER/ 6295VT3 + Cruiser 250	95	.	**236**	**53**	21	**0**	**95**
DEKALB/ DKC42-72(VT3) + Poncho 250	92	.	232	**54**	**19**	**0**	**97**
WENSMAN/ W 7195VT3 + Poncho 250	95	.	232	52	22	**0**	**97**
SEEDS/ 2000 9502VT3 + Poncho 1250	95	.	232	**53**	21	**0**	89
G2/ GEN. 5X-398 RR/HXT + Cruiser 250	95	.	230	51	24	0	93
NUTECH/ 3T-493 VT3 + Poncho 250	93	.	229	50	21	**1**	86
DEKALB/ DKC40-20(VT3) + Poncho 250	90	.	226	**53**	20	0	**95**
WENSMAN/ W 8180 + Poncho 250	95	.	226	**53**	23	0	**96**
G2/ GEN. 5X-594 RR/HXT + Cruiser 250	94	.	225	49	21	0	92
NUTECH/ 3T-894 VT3 + Poncho 250	94	.	224	**54**	20	**0**	**95**
AGSOURCE/ 3T-096 VT3 + Cruiser 250	95	.	215	**54**	**22**	**1**	**97**
G2/ GEN. 3P-595 RR/YGPL + Cruiser 250	95	.	212	52	**22**	**0**	83
KRUGER/ 6490VT3 + Cruiser 250	90	.	208	**54**	**18**	**0**	**95**
AGSOURCE/ 3T-294 VT3 + Poncho 250	94	.	208	**54**	21	**0**	88
Trial avg.:	94	210	230	52	21	0	94
High avg.:	95	217	247	54	24	1	99
Low avg.:	90	206	208	49	17	0	83
[5] LSD(.05):		NS	13	1	2	NS	5
[6] Min.TPG value:		206	234	53	.	.	94
[7] Max.TPG value:		.	.	.	19	1	.
[8] Coef. of var.:		4	3	2	6	372	3
No. entries:	25	6	25	25	25	25	25

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2009 yield average.
* Values in **bold type** within a column are included in the top-performance group.
Note that additional table footnotes are explained in table D.

Table 1b. Warner late maturity Roundup Ready corn hybrid test results, 2008-09, Allen & Inel Ryckman Farm. Seeded May 7, 2009 at 28,750 seeds per acre.

Brand/Hybrid & Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu. Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
KRUGER/ 6401VT3 + Cruiser 250	101	**230**	**242**	**53**	24	**0**	**95**
DEKALB/ DKC52-59(VT3) + Poncho 250	102	**223**	**241**	50	23	**0**	**95**
SEEDS/ 2000 9901VT3 + Poncho 250	99	**223**	**236**	**53**	23	**0**	**95**
KRUGER/ 6499VT3 + Cruiser 250	99	**222**	**243**	51	24	**0**	**97**
DEKALB/ DKC50-44(VT3) + Poncho 250	100	**222**	**237**	**54**	23	**0**	93
NUTECH/ 3T-098 VT3 + Cruiser 250	98	**221**	**247**	51	23	**0**	**95**
WENSMAN/ W 7273VT3 + Poncho 250	98	**221**	**243**	52	23	**0**	**95**
G2/ GEN. 5H-797 RR/HX + Cruiser 250	96	**221**	**241**	51	21	**0**	**97**
KRUGER/ 6097VT3 + Cruiser 250	97	**220**	**237**	50	23	**1**	94
KRUGER/ 6102VT3 + Cruiser 250	102	**219**	234	**53**	22	**0**	93
KRUGER/ 6298VT3 + Cruiser 250	98	**213**	**236**	**53**	20	**0**	**99**
DEKALB/ DKC46-60(VT3) + Poncho 250	96	**213**	227	**53**	20	**0**	**95**
DAIRYLAND/ ST-9799 + Poncho 250	99	**210**	231	50	24	**0**	94
G2/ GEN. 5H-199 RR/HX + Cruiser 250	99	.	**243**	51	21	**0**	93
NUTECH/ 3T-601 VT3 + Poncho 250	100	.	**240**	**53**	23	**0**	**96**
G2/ GEN. 5H-501 RR/HX + Cruiser 250	100	.	**240**	52	23	**0**	**95**
G2/ GEN. 5X-199RR/HXT + Cruiser 250	99	.	**235**	52	23	**1**	**97**
WENSMAN/ W 7270VT3 + Poncho 250	97	.	**235**	**53**	20	**0**	94
DEKALB/ DKC50-66(VT3) + Poncho 250	100	.	234	**53**	20	**1**	**96**
NUTECH/ 3T-801 VT3 + Poncho 250	100	.	234	50	24	**0**	90
G2/ GEN. 5H-999 RR/HX + Cruiser 250	99	.	234	**54**	22	**0**	92
PIONEER/ 37K11 + Poncho 250	99	.	233	49	22	**0**	**95**
NUTECH/ 3T-401 VT3 + Cruiser 250	100	.	233	52	24	**0**	**96**
NUTECH/ 3T-300 VT3 + Cruiser 250	100	.	231	52	24	**0**	**95**
KRUGER/ 6200VT3 + Cruiser 250	100	.	231	52	**18**	**0**	**95**
PROSEED/ 897 + Poncho 250	97	.	229	**54**	21	0	92
NUTECH/ 3T-600 VT3 + Poncho 250	100	.	229	52	24	**1**	89
G2/ GEN. 5X-802 RR/HXT + Cruiser 250	100	.	228	51	24	0	**98**
AGSOURCE/ 5B-198 GTCBLL + Poncho 250	100	.	225	52	24	0	83
PROSEED/ 896 + Poncho 250	96	.	222	**53**	23	0	90
PIONEER/ 37N68 + Poncho 250	101	.	222	51	24	**1**	93
AGSOURCE/ 3T-799 VT3 + Cruiser 250	99	.	219	50	24	**0**	88
AGSOURCE/ 3T-302 VT3 + Cruiser 250	102	.	219	51	25	**0**	90
DAIRYLAND/ ST-9597Q + Cruiser 250	97	.	218	50	24	**0**	91
NUTECH/ 3T-603 VT3 + Cruiser 250	103	.	218	51	24	**0**	92
AGSOURCE/ 5X-100A RR/HXT + Poncho 250	100	.	216	48	25	**0**	92
DEKALB/ DKC51-13(VT3) + Poncho 250	101	.	207	51	23	**0**	93
DAIRYLAND/ ST-9500Q + Cruiser 250	99	.	207	51	24	0	91
Trial avg.:	99	220	231	52	23	0	94
High avg.:	103	230	247	54	25	1	99
Low avg.:	96	210	207	48	18	0	83
[5] LSD(.05):		NS	12	1	1	NS	4
[6] Min.TPG value:		210	235	53	.	.	95
[7] Max.TPG value:		.	.	.	19	1	.
[8] Coef. of var.:		4	3	2	4	482	2
No. entries:	38	13	38	38	38	38	38

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2009 yield average.
* Values in **bold type** within a column are included in the top-performance group.
Note that additional table footnotes are explained in table D.

Table 2a. South Shore early maturity Roundup Ready corn hybrid test results, 2008-09, Northeast Research Farm. Seeded May 7, 2009 at 28,750 seeds per acre.

Brand/Hybrid & Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
DEKALB/ DKC43-27(VT3) + Poncho 250	93	**202**	**212**	**52**	20	**0**	**95**
AGSOURCE/ 3T-995 VT3 + Cruiser 250	95	**199**	**206**	49	20	**0**	**96**
KRUGER/ 6093VT3 + Cruiser 250	93	**185**	201	50	22	**0**	**98**
PIONEER/ 38H08 + Poncho 250	92	**184**	195	47	**18**	**0**	94
SEEDS/ 2000 9501VT3 + Poncho 1250	95	**178**	204	48	19	**0**	**99**
DAIRYLAND/ ST-9594 + Poncho 250	94	**176**	**213**	51	**16**	**0**	**95**
DAIRYLAND/ ST-6992 + Poncho 250	92	.	**216**	51	20	**1**	**95**
KRUGER/ 6295VT3 + Cruiser 250	95	.	**215**	49	19	**0**	**99**
DEKALB/ DKC42-72(VT3) + Poncho 250	92	.	**212**	51	20	**0**	**96**
DAIRYLAND/ ST-9395 + Poncho 250	95	.	**212**	49	19	**0**	**95**
DAIRYLAND/ ST-9789 + Poncho 250	89	.	**210**	51	**18**	**1**	**99**
NUTECH/ 3T-493 VT3 + Poncho 250	93	.	**207**	49	**17**	**0**	92
NUTECH/ 3T-295 VT3 + Poncho 250	95	.	**207**	50	23	**0**	94
AGSOURCE/ 3T-294 VT3 + Poncho 250	94	.	**207**	51	19	**0**	93
WENSMAN/ W 8180 + Poncho 250	95	.	**206**	51	22	**0**	94
PROSEED/ 894 + Poncho 250	94	.	**205**	49	21	**1**	**95**
NUTECH/ 3T-894 VT3 + Poncho 250	94	.	**205**	49	20	**0**	**96**
DEKALB/ DKC40-20(VT3) + Poncho 250	90	.	204	51	21	**0**	94
KRUGER/ 6490VT3 + Cruiser 250	90	.	203	**53**	19	**0**	**99**
SEEDS/ 2000 9502VT3 + Poncho 1250	95	.	203	50	20	**0**	93
DAIRYLAND/ ST-7790 + Cruiser 250	90	.	202	51	21	**0**	93
WENSMAN/ W 7195VT3 + Poncho 250	95	.	198	49	23	**0**	**95**
AGSOURCE/ 3P-494+RR/YGPL + Cruiser 250	94	.	193	49	22	**0**	**97**
AGSOURCE/ 3T-096 VT3 + Cruiser 250	95	.	191	50	23	**0**	92
G2/ GEN. 3P-595 RR/YGPL + Cruiser 250	95	.	189	49	23	**0**	**99**
PROSEED/ 794 + Poncho 250	94	.	187	47	20	**0**	**99**
G2/ GEN. 5X-594 RR/HXT + Cruiser 250	94	.	182	45	21	**0**	**95**
G2/ GEN. 5X-398 RR/HXT + Cruiser 250	95	.	173	47	24	**0**	**95**
PIONEER/ 38P43 + Poncho 250	95	.	171	51	22	**0**	**95**
EPLEY/ E1115GT + Not reported	93	.	159	50	22	**0**	**95**
Trial avg.:		187	200	50	20	0	96
High avg.:		202	216	53	24	1	99
Low avg.:	94	176	159	45	16	0	92
[5] LSD(.05):	95	NS	11	1	2	NS	4
[6] Min.TPG value:	89	176	205	52	.	.	95
[7] Max.TPG value:	30	.	.	.	18	1	.
[8] Coef. of var.:		6	3	2	5	557	3
No. entries:		6	30	30	30	30	30

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2009 yield average.
* Values in **bold type** within a column are included in the top-performance group.
Note that additional table footnotes are explained in table D.

Table 2b. South Shore late maturity Roundup Ready corn hybrid test results, 2008-09, Northeast Research Farm. Seeded May 7, 2009 at 28,750 seeds per acre.

Brand/Hybrid & Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
KRUGER/ 6102VT3 + Cruiser 250	102	**199**	**209**	48	25	**0**	**93**
DEKALB/ DKC48-37(VT3) + Poncho 250	98	**196**	**209**	**50**	**20**	**0**	**93**
DEKALB/ DKC46-60(VT3) + Poncho 250	96	**196**	200	48	**21**	**0**	**97**
DEKALB/ DKC50-44(VT3) + Poncho 250	100	**194**	**208**	47	25	**1**	92
KRUGER/ 6298VT3 + Cruiser 250	98	**190**	197	48	24	**0**	**96**
SEEDS/ 2000 9901VT3 + Poncho 250	99	**187**	195	**49**	24	**0**	92
KRUGER/ 6097VT3 + Cruiser 250	97	**182**	**215**	46	27	**0**	**97**
WENSMAN/ W 7273VT3 + Poncho 250	98	**182**	181	47	31	**0**	**94**
KRUGER/ 6401VT3 + Cruiser 250	101	**181**	195	**50**	27	**0**	**96**
G2/ GEN. 5H-797 RR/HX + Cruiser 250	96	**179**	196	45	24	**0**	**94**
NUTECH/ 3T-098 VT3 + Cruiser 250	98	169	188	46	29	**0**	**96**
KRUGER/ 6499VT3 + Cruiser 250	99	164	186	47	29	**0**	**95**
G2/ GEN. 5H-999 RR/HX + Cruiser 250	99	.	**217**	48	23	**1**	**94**
DEKALB/ DKC50-66(VT3) + Poncho 250	100	.	**214**	**49**	**22**	**0**	**94**
KRUGER/ 6200VT3 + Cruiser 250	100	.	**213**	**49**	**21**	**0**	**94**
EPLEY/ E1184VT3 + Cruiser 250	96	.	**208**	48	**21**	**0**	**94**
G2/ GEN. 5H-501 RR/HX + Cruiser 250	100	.	203	47	24	**0**	92
G2/ GEN. 5X-199RR/HXT + Cruiser 250	99	.	199	47	25	**0**	91
PROSEED/ 896 + Poncho 250	96	.	198	**49**	25	**0**	91
NUTECH/ 3T-601 VT3 + Poncho 250	100	.	198	48	24	**0**	96
PROSEED/ 897 + Poncho 250	97	.	197	47	26	**1**	91
G2/ GEN. 5H-199 RR/HX + Cruiser 250	99	.	197	47	23	**0**	90
WENSMAN/ W 7270VT3 + Poncho 250	97	.	196	47	25	**0**	**95**
NUTECH/ 3T-401 VT3 + Cruiser 250	100	.	193	46	29	**0**	**93**
DAIRYLAND/ ST-9597Q + Cruiser 250	97	.	**192**	**49**	24	**0**	92
DEKALB/ DKC51-13(VT3) + Poncho 250	101	.	189	47	26	**0**	**94**
NUTECH/ 3T-300 VT3 + Cruiser 250	100	.	184	46	31	**0**	**94**
AGSOURCE/ 5B-198 GTCBLL + Poncho 250	100	.	182	47	29	**0**	84
G2/ GEN. 5X-802 RR/HXT + Cruiser 250	100	.	180	46	26	**0**	**97**
NUTECH/ 3T-600 VT3 + Poncho 250	100	.	179	47	25	**1**	87
AGSOURCE/ 3T-799 VT3 + Cruiser 250	99	.	173	48	29	**0**	88
NUTECH/ 3T-603 VT3 + Cruiser 250	103	.	168	48	25	**0**	87
AGSOURCE/ 5X-100A RR/HXT + Poncho 250	100	.	165	48	31	**0**	**94**
AGSOURCE/ 3T-302 VT3 + Cruiser 250	102	.	165	48	35	**0**	**95**
EPLEY/ EXP1307HXLLRR + Cruiser 250	100	.	162	46	30	**0**	91
NUTECH/ 3T-801 VT3 + Poncho 250	100	.	154	45	34	**0**	91
Trial avg.:	99	185	192	47	26	0	93
High avg.:	103	199	217	50	35	1	97
Low avg.:	96	164	154	45	20	0	92
[5] LSD(.05):		28	13	1	2	NS	4
[6] Min.TPG value:		171	204	49	.	.	93
[7] Max.TPG value:		.	.	.	22	1	.
[8] Coef. of var.:		5	4	2	5	420	3
No. entries:	36	12	36	36	36	36	36

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2009 yield average.
* Values in **bold type** within a column are included in the top-performance group.
Note that additional table footnotes are explained in table D.

Table 3a. Bancroft early maturity glyphosate-resistant corn hybrid test results, 2009-09, E. Weerts Farm Inc. Seeded May 21, 2009 at 28,750 seeds per acre.

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu. Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
DEKALB/ DKC46-60(VT3) + Poncho 250	96	**199**	**200**	**51**	21	**1**	**94**
DEKALB/ DKC48-37(VT3) + Poncho 250	98	**196**	**196**	**52**	**20**	**0**	**93**
DEKALB/ DKC43-27(VT3) + Poncho 250	93	**195**	**194**	**51**	21	**0**	89
WENSMAN/ W 7289VT3 + Poncho 250	99	**195**	179	48	24	**0**	**91**
NC+/ 1982VT3 + Cruiser 250	99	**193**	**186**	47	25	**0**	**94**
KRUGER/ 6298VT3 + Cruiser 250	98	**189**	**186**	49	23	**0**	**92**
G2/ GEN. 5H-797 RR/HX + Cruiser 250	96	**189**	**184**	48	23	**0**	87
NC+/ 1775VT3 + Cruiser 250	97	**189**	174	49	25	**1**	89
NUTECH/ 3T-098 VT3 + Cruiser 250	98	**186**	**183**	49	26	**0**	**92**
KRUGER/ 6097VT3 + Cruiser 250	97	**186**	175	47	25	**0**	**92**
KRUGER/ 6499VT3 + Cruiser 250	99	**180**	168	48	27	**1**	**95**
SEEDS/ 2000 9901VT3 + Poncho 250	99	175	160	49	24	**1**	82
EPLEY/ E1184VT3 + Cruiser 250	96	.	**201**	48	**18**	**0**	**92**
G2/ GEN. 5X-199RR/HXT + Cruiser 250	99	.	**193**	47	24	**0**	90
HOEGEMEYER/ 3113 + Poncho 250	95	.	**193**	51	21	**0**	**92**
AGSOURCE/ 3T-995 VT3 + Cruiser 250	95	.	**192**	48	21	**0**	90
HOEGEMEYER/ HPTEXP6589 + Cruiser 250	95	.	**191**	47	23	**0**	**94**
PROSEED/ 897 + Poncho 250	97	.	**190**	50	22	**0**	**92**
WENSMAN/ W 7270VT3 + Poncho 250	97	.	**190**	48	24	**0**	**94**
DEKALB/ DKC50-66(VT3) + Poncho 250	100	.	**187**	49	22	**1**	**95**
DEKALB/ DKC50-35(VT3) + Poncho 250	100	.	182	49	26	**0**	**92**
PIONEER/ 37K11 + Poncho 250	99	.	182	47	22	**0**	**91**
AGSOURCE/ 3T-799 VT3 + Cruiser 250	99	.	180	48	27	**1**	**95**
NUTECH/ 3T-300 VT3 + Cruiser 250	100	.	177	48	27	**0**	**93**
G2/ GEN. 5H-501 RR/HX + Cruiser 250	100	.	177	49	26	**0**	88
G2/ GEN. 5H-999 RR/HX + Cruiser 250	99	.	175	50	24	**0**	87
G2/ GEN. 5X-398 RR/HXT + Cruiser 250	95	.	174	47	26	**0**	**94**
NUTECH/ 3T-401 VT3 + Cruiser 250	100	.	173	50	26	**0**	**91**
EPLEY/ E1115GT + Not reported	93	.	171	**51**	23	**1**	88
AGSOURCE/ 3T-096 VT3 + Cruiser 250	95	.	171	50	24	**2**	**92**
KRUGER/ 6200VT3 + Cruiser 250	100	.	170	50	21	**0**	89
NUTECH/ 3T-801 VT3 + Poncho 250	100	.	169	48	32	**0**	**93**
EPLEY/ EXP1307HXLLRR + Cruiser 250	100	.	168	47	28	**0**	**94**
HOEGEMEYER/ HPTEXP7041 + Cruiser 250	100	.	165	48	26	**0**	**94**
NUTECH/ 3T-600 VT3 + Poncho 250	100	.	164	48	24	**0**	78
AGSOURCE/ 5B-198 GTCBLL + Poncho 250	100	.	161	48	28	**0**	75
G2/ GEN. 5X-802 RR/HXT + Cruiser 250	100	.	153	47	25	0	**94**
NUTECH/ 3T-601 VT3 + Poncho 250	100	.	151	48	25	0	77
Trial avg.:	98	189	179	49	24	0	90
High avg.:	100	199	201	52	32	2	95
Low avg.:	93	175	151	47	18	0	75
[5] LSD(0.05):		20	18	1	2	NS	4
[6] Min.TPG value:		179	183	51	.	.	91
[7] Max.TPG value:		.	.	.	20	2	.
[8] Coef. of var.:		5	6	2	5	310	3
No. entries:	38	12	38	38	38	38	38

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2009 yield average.
* Values in **bold type** within a column are included in the top-performance group.
Note that additional table footnotes are explained in table D.

Table 3b. Bancroft late maturity glyphosate-resistant corn hybrid test results, 2008-09, E. Weerts Farm Inc. Seeded May 21, 2009 at 28,750 seeds per acre.

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
WENSMAN/ W 7360VT3 + Poncho 250	103	**193**	**187**	**48**	27	**1**	88
DEKALB/ DKC52-59(VT3) + Poncho 250	102	**190**	**175**	**49**	**25**	**1**	**93**
PIONEER/ 36V53 + Poncho 250	102	**190**	**174**	**48**	**26**	**0**	**90**
KRUGER/ 6102VT3 + Cruiser 250	102	**187**	**189**	**47**	**24**	**0**	**90**
KRUGER/ 6401VT3 + Cruiser 250	101	**186**	165	**50**	29	**0**	88
KRUGER/ 6606VT3 + Cruiser 250	106	**176**	161	**48**	32	**1**	**91**
G2/ GEN. 5H-506A RR/HX + Cruiser 250	105	**175**	149	**48**	35	**0**	**90**
KRUGER/ 6006VT3 + Cruiser 250	106	**174**	162	**50**	29	**1**	**91**
G2/ GEN. 5H-506 RR/HX + Cruiser 250	105	**169**	143	**48**	34	**0**	85
RENK/ RK670VT3 + Poncho 250	103	**168**	151	**48**	31	**4**	**91**
NUTECH/ 5B-804 GT/CB/LL + Cruiser 250	104	.	**177**	**48**	28	**0**	**93**
RENK/ RK698VT3 + Poncho 250	105	.	**173**	**50**	27	**1**	87
DEKALB/ DKC51-13(VT3) + Poncho 250	101	.	**169**	**50**	**26**	**1**	89
DEKALB/ DKC53-76(VT3) + Poncho 250	103	.	**169**	**48**	31	**1**	89
KRUGER/ 6205VT3 + Cruiser 250	105	.	**168**	46	33	**2**	**94**
AGSOURCE/ 3T-904 VT3 + Poncho 250	104	.	165	**48**	27	**3**	84
NUTECH/ 3T-706 VT3 + Poncho 250	105	.	164	**49**	32	**0**	**90**
PIONEER/ 35F44 + Poncho 250	105	.	163	**49**	30	**0**	**92**
NUTECH/ 3T-106 VT3 + Poncho 250	105	.	163	**48**	35	**0**	88
NUTECH/ 3T-408 VT3 + Cruiser 250	108	.	162	**48**	29	**1**	**95**
AGSOURCE/ 3T-603B VT3 + Cruiser 250	103	.	162	**48**	27	**2**	**94**
DEKALB/ DKC55-07(VT3) + Poncho 250	105	.	161	**48**	29	**0**	79
G2/ GEN. 5H-905 RR/HX + Cruiser 250	105	.	161	**47**	32	**0**	**91**
NUTECH/ 3T-308 VT3 + Poncho 250	108	.	156	**50**	31	**0**	89
WENSMAN/ W 7455VT3 + Poncho 250	107	.	151	45	36	**0**	**90**
G2/ GEN. 5H-007 RR/HX + Cruiser 250	107	.	148	**47**	33	**1**	83
G2/ GEN. 5X-707 RR/HXT + Cruiser 250	107	.	148	**50**	37	**0**	81
NUTECH/ 3T-603 VT3 + Cruiser 250	103	.	135	**47**	28	**1**	80
AGSOURCE/ 5X-805 RR/HXT + Poncho 250	105	.	134	**47**	37	**2**	88
G2/ GEN. 5H-005 RR/HX + Cruiser 250	105	.	132	44	34	**1**	**91**
Trial avg.:	105	181	161	48	31	1	89
High avg.:	108	193	189	50	37	4	95
Low avg.:	101	168	132	44	24	0	79
[5] LSD(0.05):		NS	21	3	2	NS	5
[6] Min.TPG value:		168	168	47	.	.	90
[7] Max.TPG value:		.	.	.	26	4	.
[8] Coef. of var.:		6	8	3	5	225	3
No. entries:	30	10	30	30	30	30	30

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2009 yield average.
* Values in **bold type** within a column are included in the top-performance group.
Note that additional table footnotes are explained in table D.

Table 4a. Brookings early maturity glyphosate-resistant corn hybrid test results, 2008-09, Plant Science Farm. Seeded May 7, 2009 at 28,750 seeds per acre.

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu. Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
HOEGEMEYER/ 3113 + Poncho 250	95	**202**	223	**52**	23	**0**	91
WENSMAN/ W 7267VT3 + Poncho 250	97	**202**	222	48	24	**0**	92
KRUGER/ 6298VT3 + Cruiser 250	98	**201**	233	**51**	23	**0**	**97**
DEKALB/ DKC46-60(VT3) + Poncho 250	96	**197**	219	50	**22**	**0**	**96**
DEKALB/ DKC50-44(VT3) + Poncho 250	100	**197**	219	**52**	23	**0**	**95**
SEEDS/ 2000 9901VT3 + Poncho 250	99	**197**	219	**52**	**21**	0	91
KRUGER/ 6499VT3 + Cruiser 250	99	**197**	211	50	24	0	**97**
KRUGER/ 6097VT3 + Cruiser 250	97	**196**	224	49	**20**	**2**	**97**
NC+/ 1775VT3 + Cruiser 250	97	**195**	216	49	24	**1**	**96**
DEKALB/ DKC43-27(VT3) + Poncho 250	93	**195**	213	50	**20**	**1**	94
NC+/ 1982VT3 + Cruiser 250	99	**193**	217	47	24	**1**	**96**
NUTECH/ 3T-098 VT3 + Cruiser 250	98	**191**	218	49	23	**0**	**97**
G2/ GEN. 5H-501 RR/HX + Cruiser 250	100	.	**245**	49	24	**0**	**95**
NUTECH/ 3T-401 VT3 + Cruiser 250	100	.	**243**	**52**	24	**0**	**94**
KRUGER/ 6200VT3 + Cruiser 250	100	.	**240**	**52**	**21**	**0**	**95**
DEKALB/ DKC50-66(VT3) + Poncho 250	100	.	**238**	**53**	**21**	0	**98**
G2/ GEN. 5X-199RR/HXT + Cruiser 250	99	.	**237**	50	24	0	94
NUTECH/ 3T-601 VT3 + Poncho 250	100	.	233	50	23	0	**95**
WENSMAN/ W 7270VT3 + Poncho 250	97	.	226	**52**	23	0	**96**
DAIRYLAND/ ST-9597Q + Cruiser 250	97	.	225	**51**	23	**0**	91
G2/ GEN. 5H-999 RR/HX + Cruiser 250	99	.	223	50	23	**0**	**94**
AGSOURCE/ 5B-198 GTCBLL + Poncho 250	100	.	223	49	25	**0**	87
DAIRYLAND/ ST-9500Q + Cruiser 250	99	.	221	50	25	**0**	91
PROSEED/ 897 + Poncho 250	97	.	220	**52**	24	**0**	**98**
KALTENBERG/ K4053VT3 + Poncho 250	97	.	215	**51**	24	**1**	92
EPLEY/ E1184VT3 + Cruiser 250	96	.	214	**51**	**20**	**0**	90
EPLEY/ EXP1307HXLLRR + Cruiser 250	100	.	212	49	25	**1**	**95**
NUTECH/ 3T-600 VT3 + Poncho 250	100	.	211	49	24	**0**	89
KALTENBERG/ K4149LLGT3 + Cruiser 250	98	.	211	50	26	0	92
EPLEY/ E1115GT + Not reported	93	.	210	49	**21**	0	**95**
NUTECH/ 3T-300 VT3 + Cruiser 250	100	.	209	49	24	**0**	92
HOEGEMEYER/ HPT 6962 + Cruiser 250	100	.	209	49	**22**	**1**	85
G2/ GEN. 5X-802 RR/HXT + Cruiser 250	100	.	206	48	25	**0**	**98**
AGSOURCE/ 3T-799 VT3 + Cruiser 250	99	.	205	48	24	**0**	92
KALTENBERG/ K4521LLRRHXT + Poncho 250	100	.	203	50	25	3	84
NUTECH/ 3T-801 VT3 + Poncho 250	100	.	201	46	28	0	90
G2/ GEN. 5X-398 RR/HXT + Cruiser 250	95	.	200	50	**21**	**1**	**95**
PROSEED/ 8100 + Poncho 250	100	.	189	49	**22**	**1**	80
Trial avg.:	98	197	219	50	23	0	93
High avg.:	100	202	245	53	28	3	98
Low avg.:	93	191	189	46	20	0	80
[5] LSD(0.05):	38	NS	11	2	2	2	4
[6] Min.TPG value:		191	234	51	.	.	94
[7] Max.TPG value:		.	.	.	22	2	.
[8] Coef. of var.:		4	3	2	4	307	2
No. entries:		12	38	38	38	38	38

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2009 yield average.
* Values in **bold type** within a column are included in the top-performance group.
Note that additional table footnotes are explained in table D.

Table 4b. Brookings late maturity glyphosate-resistant corn hybrid test results, 2008-09, Plant Science Farm. Seeded 7 May 2009 at 28,750 seeds per acre.

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
DEKALB/ DKC52-59(VT3) + Poncho 250	102	**211**	**241**	49	**23**	**0**	94
KRUGER/ 6401VT3 + Cruiser 250	101	**209**	**235**	**51**	**23**	**0**	**95**
PIONEER/ 36V53 + Poncho 250	102	**207**	225	50	**24**	**0**	**96**
WENSMAN/ W 7360VT3 + Poncho 250	103	**206**	**233**	48	27	**0**	94
RENK/ RK670VT3 + Poncho 250	103	**203**	228	44	28	**0**	**96**
G2/ GEN. 5H-506 RR/HX + Cruiser 250	105	**203**	212	46	30	**0**	90
KRUGER/ 6102VT3 + Cruiser 250	102	**200**	230	**53**	**24**	**0**	**96**
G2/ GEN. 5H-506A RR/HX + Cruiser 250	105	**200**	208	48	30	**0**	88
KRUGER/ 6606VT3 + Cruiser 250	106	**197**	221	49	27	**0**	92
DAIRYLAND/ ST-9003 + Poncho 250	103	**194**	209	47	30	**1**	92
KRUGER/ 6006VT3 + Cruiser 250	106	**183**	220	46	29	**0**	**96**
HEINE/ 744RRYGCB + Poncho 250	104	.	**243**	50	**23**	**0**	**96**
HEINE/ 742VT3 + Poncho 250	104	.	**241**	**52**	**24**	**0**	92
RENK/ RK698VT3 + Poncho 250	105	.	**240**	**51**	25	**0**	**97**
NUTECH/ 3T-706 VT3 + Poncho 250	105	.	**238**	47	28	**0**	93
NUTECH/ 5B-804 GT/CB/LL + Cruiser 250	104	.	**234**	48	**23**	**0**	94
DEKALB/ DKC53-76(VT3) + Poncho 250	103	.	**232**	49	28	**1**	94
G2/ GEN. 5H-905 RR/HX + Cruiser 250	105	.	230	47	29	**0**	92
KRUGER/ 6205VT3 + Cruiser 250	105	.	230	48	29	**0**	**95**
AGSOURCE/ 3T-904 VT3 + Poncho 250	104	.	230	47	**24**	**0**	89
PIONEER/ 35F44 + Poncho 250	105	.	228	50	26	**0**	**95**
WENSMAN/ W 7455VT3 + Poncho 250	107	.	228	46	31	**0**	**96**
NUTECH/ 3T-408 VT3 + Cruiser 250	108	.	227	48	27	**0**	**95**
HEINE/ 745VT3 + Poncho 250	104	.	227	**51**	**22**	**0**	94
HEINE/ 727VT3 + Poncho 250	102	.	225	49	27	**0**	94
DEKALB/ DKC51-13(VT3) + Poncho 250	101	.	223	47	25	**0**	**96**
G2/ GEN. 5X-707 RR/HXT + Cruiser 250	107	.	220	46	34	**0**	93
DAIRYLAND/ ST-9703Q + Cruiser 250	103	.	219	49	26	**0**	93
NUTECH/ 3T-106 VT3 + Poncho 250	105	.	219	47	29	**0**	94
RENK/ RK760VT3 + Poncho 250	106	.	219	48	28	**0**	87
PIONEER/ 37N68 + Poncho 250	101	.	217	49	25	**0**	**96**
HEINE/ 753VT3 + Poncho 250	104	.	213	49	28	**0**	92
NUTECH/ 3T-603 VT3 + Cruiser 250	103	.	210	49	**24**	**0**	94
NUTECH/ 3T-308 VT3 + Poncho 250	108	.	210	48	29	**0**	91
AGSOURCE/ 3T-603B VT3 + Cruiser 250	103	.	210	48	**24**	**2**	**99**
AGSOURCE/ 5X-805 RR/HXT + Poncho 250	105	.	207	47	29	**1**	94
G2/ GEN. 5H-007 RR/HX + Cruiser 250	107	.	201	45	27	**0**	79
G2/ GEN. 5H-005 RR/HX + Cruiser 250	105	.	175	45	36	**1**	88
Trial avg.:	104	201	223	48	27	0	93
High avg.:	108	211	243	53	36	2	99
Low avg.:	101	183	175	44	22	0	79
[5] LSD(0.05):		NS	12	2	2	NS	4
[6] Min.TPG value:		183	231	51	.	..	95
[7] Max.TPG value:		.	.	.	24	2	.
[8] Coef. of var.:		4	4	2	4	417	2
No. entries:	38	11	38	38	38	38	38

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2009 yield average.
* Values in **bold type** within a column are included in the top-performance group.
Note that additional table footnotes are explained in table D.

Table 5a. Geddes early maturity glyphosate-resistant corn hybrid test results, 2008-09, Curtis Sybesma Farm. Seeded May 14, 2009 at 28,750 seeds per acre.

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
PIONEER/ 36V53 + Poncho 250	102	**221**	**247**	**55**	**15**	**0**	**96**
WENSMAN/ W 7433VT3 + Poncho 250	105	**219**	**242**	**56**	17	**1**	**94**
DEKALB/ DKC52-59(VT3) + Poncho 250	102	**219**	**241**	54	**16**	**0**	**96**
KRUGER/ 6401VT3 + Cruiser 250	101	**216**	**243**	**56**	**16**	**1**	**95**
WENSMAN/ W 7360VT3 + Poncho 250	103	**215**	**243**	**56**	**16**	**0**	**96**
NC+/ 1982VT3 + Cruiser 250	99	**213**	**235**	54	**15**	**1**	**93**
KRUGER/ 6102VT3 + Cruiser 250	102	**211**	**240**	**56**	17	**0**	**94**
G2/ GEN. 5H-506A RR/HX + Cruiser 250	105	**211**	**230**	52	18	**1**	**93**
G2/ GEN. 5H-506 RR/HX + Cruiser 250	105	**211**	226	52	21	**1**	89
DEKALB/ DKC50-44(VT3) + Poncho 250	100	**210**	221	53	**16**	**0**	91
NC+/ 1775VT3 + Cruiser 250	97	**208**	230	54	**16**	**0**	**93**
KALTENBERG/ K5163VT3 + Poncho 250	103	**200**	212	51	18	**0**	**95**
HOEGEMEYER/ HPT 7757 + Cruiser 250	105	**200**	205	54	19	**1**	90
DEKALB/ DKC43-27(VT3) + Poncho 250	93	**199**	230	**56**	**16**	**0**	92
NUTECH/ 3T-401 VT3 + Cruiser 250	100	.	**247**	**55**	**16**	**1**	**97**
G2/ GEN. 5H-905 RR/HX + Cruiser 250	105	.	**246**	52	**15**	**0**	**94**
HOEGEMEYER/ 7421 + Cruiser 250	104	.	**243**	**55**	18	**0**	92
DEKALB/ DKC50-35(VT3) + Poncho 250	100	.	**242**	**55**	**16**	0	**97**
G2/ GEN. 5H-501 RR/HX + Cruiser 250	100	.	**242**	**55**	**16**	**0**	91
DEKALB/ DKC50-66(VT3) + Poncho 250	100	.	**240**	**57**	**15**	**0**	**93**
PROSEED/ 9102 + Poncho 250	102	.	**239**	**55**	17	**1**	**95**
KRUGER/ 6205VT3 + Cruiser 250	105	.	**236**	52	**15**	**0**	**95**
RENK/ RK670VT3 + Poncho 250	103	.	**235**	52	17	**0**	**96**
DEKALB/ DKC51-13(VT3) + Poncho 250	101	.	**234**	**56**	**16**	**1**	**93**
NUTECH/ 3T-706 VT3 + Poncho 250	105	.	**233**	54	17	**1**	92
NUTECH/ 5B-804 GT/CB/LL + Cruiser 250	104	.	**232**	**55**	17	**0**	**94**
HOEGEMEYER/ 7445 + Poncho 250	103	.	**232**	54	18	**0**	**94**
KRUGER/ 6200VT3 + Cruiser 250	100	.	**231**	**55**	**15**	**0**	89
KALTENBERG/ K5332GT + Poncho 250	104	.	**230**	**56**	**16**	**0**	90
KALTENBERG/ 5355LLGTBT11 + Poncho 250	104	.	**230**	52	**16**	**0**	**96**
AGSOURCE/ 3T-904 VT3 + Poncho 250	104	.	**229**	51	**15**	**1**	91
NUTECH/ 3T-106 VT3 + Poncho 250	105	.	226	52	**16**	**1**	**94**
G2/ GEN. 5H-005 RR/HX + Cruiser 250	105	.	226	51	19	**0**	91
AGSOURCE/ 3T-603B VT3 + Cruiser 250	103	.	226	53	17	**1**	**96**
NUTECH/ 3T-801 VT3 + Poncho 250	100	.	225	52	**16**	**0**	89
RENK/ RK698VT3 + Poncho 250	105	.	224	**55**	17	**0**	87
NUTECH/ 3T-603 VT3 + Cruiser 250	103	.	223	54	**15**	**1**	90
PROSEED/ 8101VT3 + Poncho 250	101	.	221	53	17	**0**	**94**
G2/ GEN. 5X-802 RR/HXT + Cruiser 250	100	.	221	51	17	**0**	92
PROSEED/ 9105 + Poncho 250	105	.	220	53	**16**	**0**	90
PIONEER/ 35F44 + Poncho 250	105	.	219	54	**16**	**0**	**94**
DEKALB/ DKC53-76(VT3) + Poncho 250	103	.	217	**55**	17	**2**	91
DEKALB/ DKC55-07(VT3) + Poncho 250	105	.	215	**55**	19	**0**	90
AGSOURCE/ 3T-302 VT3 + Cruiser 250	102	.	212	54	**15**	**1**	91
HOEGEMEYER/ HPTEXP7408 + Cruiser 250	104	.	211	51	18	**0**	90
KALTENBERG/ 5588LLRRHXT + Poncho 250	105	.	205	50	17	**0**	**93**
AGSOURCE/ 5X-805 RR/HXT + Poncho 250	105	.	195	51	19	**1**	92
Trial avg.:	103	211	229	54	17	0	93
High avg.:	105	221	247	57	21	2	97
Low avg.:	93	199	195	50	15	0	87
[5] LSD(0.05):		NS	19	2	1	NS	4
[6] Min.TPG value:		199	228	55	.	.	93
[7] Max.TPG value:		.	.	.	16	2	.
[8] Coef. of var.:		4	5	2	5	276	3
No. entries:	47	14	47	47	47	47	47

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2008 yield average.
*Values in **bold type** within a column are included in the top-performance group.
Note that additional table footnotes are explained in table D.

Table 5b. Geddes late maturity glyphosate-resistant corn hybrid test results, 2008-09, Curtis Sybesma Farm. Seeded May 14, 2009 at 28,750 seeds per acre.

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
DEKALB/ DKC58-16(VT3) + Poncho 250	108	**214**	**226**	52	20	**0**	92
KRUGER/ 6606VT3 + Cruiser 250	106	**214**	**218**	**54**	**18**	**1**	91
KRUGER/ 6006VT3 + Cruiser 250	106	**210**	**226**	**55**	20	**0**	92
WENSMAN/ W 7455VT3 + Poncho 250	107	**210**	**220**	50	20	**0**	89
WENSMAN/ W 7469VT3 + Poncho 250	109	**207**	**217**	49	20	**0**	93
DEKALB/ DKC61-69(VT3) + Poncho 250	111	**207**	214	50	21	**0**	88
KRUGER/ 6208VT3 + Cruiser 250	108	**204**	209	**54**	22	**0**	94
RENK/ RK822VT3 + Poncho 250	110	**200**	209	**54**	21	**0**	**97**
KRUGER/ 6410VT3 + Cruiser 250	110	.	**234**	51	20	**1**	91
G2/ GEN. 5H-210 RR/HX + Cruiser 250	110	.	**231**	51	**18**	**2**	**95**
KRUGER/ 6010VT3 + Cruiser 250	110	.	**231**	50	21	**1**	91
NC+/ 208-72VT3 + Cruiser 250	108	.	**225**	52	19	**0**	93
G2/ GEN. 5H-511 RR/HX + Cruiser 250	110	.	**224**	**54**	19	**0**	87
NUTECH/ 3T-408 VT3 + Cruiser 250	108	.	**222**	53	20	**0**	**99**
RENK/ RK744VT3 + Poncho 250	107	.	**222**	**54**	**17**	**0**	86
G2/ GEN. 5H-511A RR/HX + Cruiser 250	111	.	**222**	**54**	21	**2**	89
G2/ GEN. 5H-007 RR/HX + Cruiser 250	107	.	**219**	52	**17**	**1**	87
NC+/ 4582VT3 + Cruiser 250	110	.	**218**	52	20	0	**95**
NC+/ 210-57VT3 + Cruiser 250	110	.	**218**	52	21	**1**	91
NUTECH/ 3T-308 VT3 + Poncho 250	108	.	**217**	**54**	20	**1**	91
RENK/ RK711RRHXTRA + Poncho 250	107	.	**217**	52	**16**	**0**	94
RENK/ RK760VT3 + Poncho 250	106	.	**216**	**53**	19	**1**	88
G2/ GEN. 5X-911 RR/HXT + Cruiser 250	110	.	**216**	**54**	19	**0**	**94**
NUTECH/ 5N-909 GTCBLLRW + Cruiser 250	109	.	211	50	19	**1**	89
G2/ GEN. 5X-210 RR/HXT + Cruiser 250	110	.	211	51	20	**0**	93
DEKALB/ DKC59-64(VT3) + Poncho 250	109	.	208	49	23	**1**	92
KRUGER/ 6408VT3 + Cruiser 250	108	.	205	**53**	19	**0**	82
NUTECH/ 3T-409 VT3 + Cruiser 250	109	.	204	52	22	**0**	89
NUTECH/ 3T-512 VT3 + Poncho 250	110	.	193	52	25	**0**	93
NUTECH/ 3T-110 VT3 + Cruiser 250	110	.	185	48	24	**1**	92
Trial avg.:	109	208	216	52	20	0	91
High avg.:	111	214	234	55	25	2	99
Low avg.:	106	200	185	48	16	0	82
[5] LSD(0.05):		NS	18	2	2	NS	4
[6] Min.TPG value:		200	216	53	.	.	95
[7] Max.TPG value:		.	.	.	18	2	.
[8] Coef. of var.:		6	5	2	6	237	3
No. entries:	30	8	30	30	30	30	30

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2009 yield average.
* Values in **boldtype** within a column are included in the top-performance group.
Note that additional table footnotes are explained in table D.

Table 6a. Beresford early maturity glyphosate-resistant corn hybrid test results, 2008-09, Southeast Experiment Station. Seeded May 19, 2009 at 28,750 seeds per acre.

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
NC+/ 4582VT3 + Cruiser 250	110	**239**	**245**	**53**	27	**1**	**98**
KALTENBERG/ K6663VT3 + Poncho 250	110	**233**	**247**	51	25	**0**	**93**
WENSMAN/ W 7455VT3 + Poncho 250	107	**231**	**240**	51	26	4	92
DAIRYLAND/ ST-9006 + Poncho 250	106	**227**	**250**	**54**	23	**0**	**96**
WENSMAN/ W 7469VT3 + Poncho 250	109	**222**	235	49	26	**0**	**94**
FOUR/ STAR 6844VT3 + Cruiser 250	108	**221**	231	50	24	4	85
DEKALB/ DKC52-59(VT3) + Poncho 250	102	**220**	232	**53**	**18**	**1**	**96**
KRUGER/ 6208VT3 + Cruiser 250	108	**217**	**240**	51	25	3	**94**
RENK/ RK822VT3 + Poncho 250	110	**214**	228	52	25	**1**	**97**
DEKALB/ DKC57-50(VT3) + Poncho 250	107	.	**253**	50	24	**0**	**96**
KRUGER/ 6408VT3 + Cruiser 250	108	.	**252**	**54**	24	**0**	91
NC+/ 210-57VT3 + Cruiser 250	110	.	**249**	51	25	**0**	**96**
G2/ GEN. 5H-511 RR/HX + Cruiser 250	110	.	**248**	**53**	25	**0**	**94**
KRUGER/ 6410VT3 + Cruiser 250	110	.	**248**	**53**	25	**0**	92
DEKALB/ DKC59-64(VT3) + Poncho 250	109	.	**247**	52	26	**1**	**96**
RENK/ RK744VT3 + Poncho 250	107	.	**247**	51	23	**0**	92
KRUGER/ 6010VT3 + Cruiser 250	110	.	**246**	49	26	**1**	92
DAIRYLAND/ ST-9810 + Poncho 250	110	.	**245**	**53**	25	**0**	**93**
FOUR/ STAR EXP9072VT3 + Cruiser 250	110	.	**244**	51	26	**0**	**93**
NUTECH/ 3T-308 VT3 + Poncho 250	108	.	**243**	52	24	**0**	**94**
KALTENBERG/ K6645LLGT3 + Poncho 250	110	.	**243**	50	24	**1**	90
NUTECH/ 3T-408 VT3 + Cruiser 250	108	.	**242**	**53**	25	**0**	**97**
RENK/ RK711RRHXTRA + Poncho 250	107	.	**241**	51	24	**0**	**93**
RENK/ RK698VT3 + Poncho 250	105	.	**239**	**54**	21	**0**	88
NC+/ 208-72VT3 + Cruiser 250	108	.	238	51	24	**0**	91
DEKALB/ DKC53-76(VT3) + Poncho 250	103	.	237	**54**	22	**0**	**94**
NUTECH/ 5N-909 GTCBLLRW + Cruiser 250	109	.	237	51	24	**1**	92
NUTECH/ 3T-512 VT3 + Poncho 250	110	.	236	52	26	**0**	**93**
G2/ GEN. 5H-210 RR/HX + Cruiser 250	110	.	236	52	24	**0**	**96**
PROSEED/ 9105 + Poncho 250	105	.	235	**53**	**19**	**0**	88
NUTECH/ 3T-106 VT3 + Poncho 250	105	.	234	51	23	**0**	**93**
NUTECH/ 3T-110 VT3 + Cruiser 250	110	.	234	50	27	**1**	92
PROSEED/ 9102 + Poncho 250	102	.	233	52	21	**2**	**95**
PIONEER/ 35F44 + Poncho 250	105	.	233	**53**	21	**0**	**95**
G2/ GEN. 5X-711 RR/HXT + Cruiser 250	110	.	233	**54**	25	**0**	**93**
DAIRYLAND/ ST9206Q + Cruiser 250	106	.	232	51	24	**0**	**97**
G2/ GEN. 5X-210 RR/HXT + Cruiser 250	110	.	230	50	26	**0**	92
FOUR/ STAR EXP6066VT3 + Cruiser 250	110	.	229	50	29	**0**	90
DEKALB/ DKC55-07(VT3) + Poncho 250	105	.	227	**55**	24	**1**	**93**
G2/ GEN. 5H-007 RR/HX + Cruiser 250	107	.	226	50	23	**0**	87
G2/ GEN. 5X-911 RR/HXT + Cruiser 250	110	.	226	52	24	**0**	87
RENK/ RK670VT3 + Poncho 250	103	.	225	52	21	**1**	**96**
RENK/ RK760VT3 + Poncho 250	106	.	225	52	23	**1**	**93**
HOEGEMEYER/ HPT 7757 + Cruiser 250	105	.	220	54	24	**0**	92
PROSEED/ 8101VT3 + Poncho 250	101	.	218	53	20	**2**	**93**
PROSEED/ 8104 + Poncho 250	104	.	218	54	21	**1**	78
FOUR/ STAR EXP9056VT3 + Poncho 250	108	.	217	54	26	**1**	**93**
Trial avg.:	107	225	236	52	24	1	93
High avg.:	110	239	253	55	29	4	98
Low avg.:	101	214	217	49	18	0	78
[5] LSD(0.05):		NS	14	2	1	2	5
[6] Min.TPG value:		214	239	53	.	.	93
[7] Max.TPG value:		.	.	.	19	2	.
[8] Coef. of var.:		5	4	3	4	284	3
No. entries:	47	9	47	47	47	47	47

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2009 yield average.
* Values in **bold type** within a column are included in the top-performance group.
Note that additional table footnotes are explained in table D.

Table 6b. Beresford late maturity glyphosate-resistant corn hybrid test results, 2008-09, Southeast Experiment Station. Seeded May 19, 2009 at 28,750 seeds per acre.

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
KRUGER/ 6411VT3 + Cruiser 250	111	**229**	**243**	51	**24**	**0**	**91**
KRUGER/ 6213VT3 + Cruiser 250	113	**225**	**243**	52	27	**2**	**93**
DEKALB/ DKC61-69(VT3) + Poncho 250	111	**223**	231	51	26	**0**	**95**
DEKALB/ DKC62-54(VT3) + Poncho 250	112	.	**249**	**53**	**25**	**1**	**95**
NUTECH/ 3T-413 VT3 + Cruiser 250	113	.	**246**	52	28	**0**	**95**
G2/ GEN. 5H-511A RR/HX + Cruiser 250	111	.	**242**	**53**	**25**	**0**	**92**
KRUGER/ 6214VT3 + Cruiser 250	114	.	**240**	51	27	**1**	**92**
NC+/ 4517VT3 + Cruiser 250	113	.	**240**	52	26	**1**	**94**
AGSOURCE/ 3T-712 VT3 + Poncho 250	112	.	**237**	**53**	29	**0**	**96**
KRUGER/ 6116VT3 + Cruiser 250	116	.	**236**	52	28	**1**	**93**
G2/ GEN. 5X-911A RR/HXT + Cruiser 250	111	.	**235**	**53**	**24**	**0**	**92**
NUTECH/ 3T-713 VT3 + Poncho 250	113	.	234	50	29	**1**	**93**
NUTECH/ 3T-313 VT3 + Cruiser 250	113	.	233	**54**	26	**0**	**91**
KRUGER/ 6013VT3 + Cruiser 250	113	.	233	51	29	**3**	**94**
G2/ GEN. 5X-711A RR/HXT + Cruiser 250	112	.	232	**53**	**25**	**0**	**95**
NUTECH/ 3T-612 VT3 + Poncho 250	112	.	230	**55**	28	**0**	**90**
KRUGER/ 6412VT3 + Cruiser 250	112	.	228	52	27	**0**	**95**
NUTECH/ 3T-512A VT3 + Poncho 250	111	.	226	52	28	**0**	**95**
RENK/ EXP8-809VT3 + Poncho 250	111	.	226	52	28	**1**	**93**
G2/ GEN. 5H-314 RR/HX + Cruiser 250	114	.	224	52	28	**0**	**92**
G2/ GEN. 5X-513 RR/HXT + Cruiser 250	**114**	.	220	51	28	**1**	**94**
RENK/ EXP7-816VT3 + Poncho 250	112	.	212	**53**	**25**	**1**	**93**
PIONEER/ 33Z74 + Poncho 250	113	.	199	51	27	**1**	**91**
Trial avg.:	112	225	232	52	27	1	93
High avg.:	116	229	249	55	29	3	96
Low avg.:	111	223	199	50	24	0	90
[5] LSD(0.05):		NS	14	2	1	NS	NS
[6] Min.TPG value:		223	235	53	.	.	90
[7] Max.TPG value:		.	.	.	25	3	.
[8] Coef. of var.:		5	4	2	3	213	3
No. entries:	23	3	23	23	23	23	23

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2009 yield average.
* Values in **bold type** within a column are included in the top-performance group.
Note that additional table footnotes are explained in table D.