

Corn

2007 Missouri Crop Performance



70 years of testing

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Missouri 2007 Corn Performance Tests

This report is a contribution of the Division of Plant Sciences, University of Missouri College of Agriculture, Food and Natural Resources. The work was supported by fees provided by companies submitting hybrids for evaluation. The University of Missouri's hybrid performance testing program began in the mid-1930s, with results first published in 1937. The number of entries in the program has grown from fewer than 50 in the early years to 295 today. The large number of commercial hybrids available makes selection of a superior hybrid difficult. To select intelligently, producers need a reliable, unbiased, up-to-date source of information that will permit valid comparisons among available hybrids. The objective of the University of Missouri's Performance testing program is to provide this information. The tests are conducted under the most uniform conditions possible. Small plots are used to reduce the chance of soil and climatic variations occurring between one hybrid plot and another. Results obtained should aid the individual grower in judging the relative merits of many of the commercial corn hybrids available in Missouri today.

Comparing Hybrids

The performance of a hybrid cannot be measured with absolute precision. Uncontrolled variability is involved in the determination of each yield average. This variability exists in all field experimentation; statistics are used as a tool to assist in making decisions. The statistical tool used in these tests is the test of least significant difference (LSD). The LSD is simple to apply. When two entries are compared and the difference between them is greater than the LSD, the entries are considered to be significantly different. Differences smaller than the LSD may have occurred by chance and are considered non-significant.

Hybrid performance may seem inconsistent from location to location and from year to year. The factors for these differences are rainfall, temperatures, soil fertility, diseases, insects, and other factors. To obtain an improved estimate of relative hybrid performance, readers should consider results from more than one location or year. In this publication, the authors have tried to facilitate comparisons across years and locations. In each test, the "top yielding" hybrids have been identified. These hybrids are those that did not yield significantly less than the highest yielding hybrid in the test. They are denoted in the tables by an asterisk (*) next to their yields. Thus, by going down a column, readers can readily identify the highest yielding hybrids in a test. By following a row across the table, readers can evaluate the relative performance of a hybrid during several years or at several locations. From the standpoint of yield, the most desirable hybrids will be those that are among the "top yielding" hybrids the greatest number of times.

Although yield usually receives first consideration, other agronomic characteristics may be equally important when selecting a corn hybrid. Stalk strength, maturity and resistance to insects and diseases are among the hybrid characteristics that deserve careful consideration. Later maturing hybrids may require more drying. The maturity classification listed for each hybrid in this bulletin is based solely on information supplied by the entry's sponsor. A hybrid with abnormally low or high moisture content may be incorrectly classified for Missouri conditions. Poor stalk strength and susceptibility to pests may decrease harvestable yield because of lodging or stand loss.

The Missouri Variety Testing Program does not make specific recommendations for hybrids. Farmers growing a new hybrid for the first time should consider all the information available and then grow a small acreage to determine adaptability. This should be the practice for all new hybrids regardless of origin.

The Authors

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Experimental Procedures

Test Descriptions:

Non-Irrigated Corn Test: This test consists of five locations each in the north and central regions of the state and three locations in the southwest. Corn hybrids not approved for export to Europe for feed cannot be entered in this test, but should be entered into the New Technology Corn Test (see description below).

Irrigated Corn Test: This test will have two locations each in the central and southwest regions and three locations in the southeast region of the state. Corn hybrids not approved for export to Europe for feed cannot be entered in this test, but should be entered into the New Technology Corn Test (see description below).

New Technology Corn Test: This test will evaluate hybrids not approved for export to Europe for feed (e.g. Herculex Xtra or Roundup Ready YieldGuard Plus hybrids). Information on current approval status of biotech events is available on the National Corn Growers Association website: ncga.com and click "Know Before You Grow." Locations for this test include three non-irrigated locations in north and central Missouri and three irrigated locations in southeast Missouri. Entries will be compared to three high-yield standard hybrids. Grain from this test will be marketed into approved channels.

Entries: All producers of hybrid seed were eligible to enter the 2007 corn evaluation tests. Participation was voluntary and the test coordinators exercised no control over which, or how many hybrids were entered. To help finance the evaluation program, the participants paid \$100 per location for each hybrid entered.

Plot Management: All tests were planted and harvested with commercial equipment modified for small plot work. Row spacing for all corn tests was 30 inches. Seeding rate for non-irrigated corn tests was 28,600 seeds/acre and irrigated corn tests was 34,200 seeds/acre. Preplant fertilizer was applied at each site at the discretion of the farmer or the station manager. Herbicides were used to control weeds, and additional hand weeding was done as required. Management details varied from location to location and are specified in the regional crop management summaries.

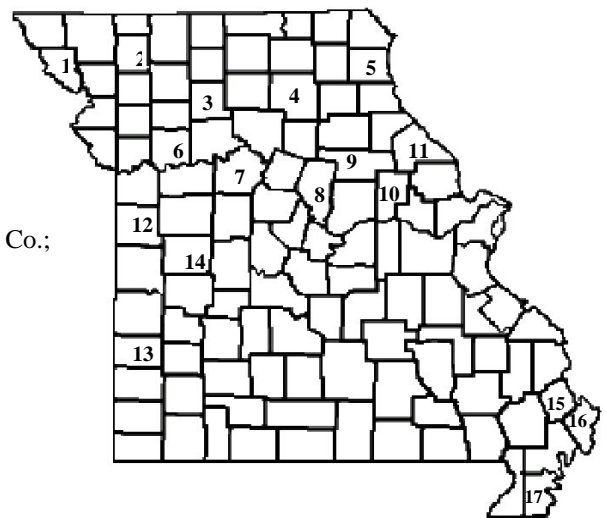
Data Recorded: Cornstalks of non-Bt hybrids were split to survey the natural infestation of corn borer. Counts were taken on border rows of the test for a random survey. Survey results are provided in the heading of each table. Plant stands were recorded mid-season and lodging was determined immediately before harvest. Plants leaning more than 30 degrees from vertical and those bent or broken below the ear were counted as lodged. During harvest, plot grain weights were measured and an electronic moisture tester was used to determine the moisture content of the grain. Yields were calculated from the data collected and reported in bushels (56 pounds) per acre at a moisture content of 15.5 percent.

Accessibility of Data: The results of the 2007 crop performance tests are also available online at: agebb.missouri.edu/cropperf/vartest. If you need assistance in accessing the system: call 573-882-4827 for the staff's help.

Field Plot Design: Full season hybrids were evaluated in non-irrigated and irrigated tests. Tests were arranged in lattice or randomized complete block field plot designs depending on the number of entries in each test. At all locations, plots were four rows wide and 25 feet long with a between-the-row spacing of 30 inches. Only the center two rows were harvested to determine yield.

Locations: On the basis of geographical characteristics, the state was divided into regions. Corn hybrid evaluation tests were located in the north, central, southwest and southeast regions of the state. Test locations are shown on the adjacent map. In 2007, the locations for these tests were:

1. Steve Cunningham Farm near Craig in Holt Co.;
2. Hundley-Whaley Farm near Albany in Gentry Co.;
3. Beetsma Farm near Mooresville in Livingston Co.;
4. Greenley Memorial Center near Novelty in Knox Co.;
5. Roger Tiemann Farm near LaGrange in Lewis Co.;
6. John Williams Farm near Henrietta in Ray Co.;
7. Frank Swisher Farm near Marshall in Saline Co.;
8. Bradford Research & Extension Center near Columbia in Boone Co.;
9. Kevin Freyer Farm near Laddonia in Audrain Co.;
10. Roy Cope Farm near Truxton in Montgomery Co.;
11. Bob Burkemper Farm near Annada in Pike Co.;
12. Doug Roth Farm near Harrisonville in Cass Co.;
13. Ron Bean Farm near Lamar in Barton Co.;
14. Kurt Gretzinger Farm near Urich in Henry Co.;
15. Glenn Nothdurft Farm near Oran in Scott Co.;
16. H.S. Byrd Farm, near Charleston in Mississippi Co.;
17. Delta Research Center near Portageville in Pemiscot Co.



Results are presented by region within the state. For each location, data on seed treatment, final plant stand, lodging, moisture at harvest, and yield adjusted for moisture is given for each hybrid. Growing season (April-August) rainfall and irrigation applied at each location are shown on individual data tables. In this report, hybrids are ranked according to yield.

North Region Crop Management Summary

There are five locations in the North Region for the Non-Irrigated Corn Test and two locations for the New Technology Corn Test. They are located in counties where a significant number of acres of corn are grown according to the Missouri Agricultural Statistics Service. Cultural practices vary slightly between locations, but tend to reflect those followed by farmers in the area.

The Albany test was replanted on June 5 after a severe storm on May 6 and 7 dropped 7.5" rain on the area that hindered germination and emergence of the corn. Rainfall was adequate early in the season but fell off significantly later in the summer months. A second severe storm traveled across north Missouri on August 7 and 8 with rain and high winds causing considerable lodging and increased variability at Albany, Mooresville, and Novelty. The Craig test was lost to flooding when the levee was breached the last week of May and water covered the experiment for several days. Yields at LaGrange were good (227.8 bushels/acre average) but all other north locations were average or below.

Climatological information for the growing season (April 1 – August 31) for the North Region is summarized below and cultural practices for each site are listed in Table 1.

Average temperature = 69.2 degrees, 2.5 degrees above normal

Average precipitation = 19.8", 0.5" below normal

Growing degree days = 3013 days, 185 days above normal

Table 1. North Region Non-Irrigated location crop management summary.

Location	Planting date	Harvest date	Fertilizer			Tillage	Herbicide		Insecticide
			N	P ₂ O ₅	K ₂ O		Pre	Post	
<i>Non-Irrigated Corn Tests</i>									
Craig	05-23	Not Harvested	150	50	50	Conv.	Guardsman, Callisto		Force 3G
Albany	06-05	10-15,23	225	60	80	Conv.	Dual II Magnum, Aatrex	Callisto	Force 3G
Mooresville	05-22	10-09	225	60	0	Conv.	Dual II Magnum, Aatrex, Callisto, Princep		Force 3G
Novelty	05-24	10-02,04	210	70	100	Conv.	Dual II Magnum, Aatrex, Callisto, Princep		Force 3G
LaGrange	05-09	10-10	250	150	100	Conv.	Dual II Magnum, Aatrex, Callisto, Princep	Callisto	Force 3G
<i>North/Central Region New Technology Corn Tests</i>									
Albany	06-05	10-15,23	225	60	80	Conv.	Dual II Magnum, Aatrex	Callisto	Force 3G
Novelty	05-24	10-04	210	70	100	Conv.	Dual II Magnum, Aatrex, Callisto, Princep		Force 3G
Columbia	05-17	09-18	210	46	62	No-till	Dual II Magnum, Aatrex, Callisto, Princep, Roundup	Roundup WeatherMax	Force 3G

TABLE 2. **Non-Irrigated Corn Test**

North Region: Albany, MO (Gentry County)

Soil Type: Grundy Silt Loam Soil Test: pH=6.5, OM=2.0%, P=102, K=402

European Corn Borer Rating: Damaged Plants= 84%, Tunnel Length/Plant= 1.05 in.

Rainfall: Apr.=2.1, May=9.5, June=1.1, July=2.3, Aug.=6.2 Total=21.2 in.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
Stone 8K339	9	28689	17.6	0	208.2**	--	--
Midwest Seed 77123S	6	26578	19.4	28	205.1*	--	--
Kruger 5010YGCB	6	30216	17.9	0	203.1*	--	--
DEKALB DKC63-46 (RR2/YGCB)	9	30621	19.1	8	198.6*	185.4*	192.0
Kruger 5514YGCB	6	29404	20.7	29	197.8*	146.7	172.3
DEKALB RX785RR2/YGCB	9	29326	18.0	0	197.8*	--	--
Garst 8452CB/LL	5	29726	18.0	36	195.6*	153.4	174.5
Kruger 8616HX	6	29975	19.7	10	195.1*	158.2*	176.7
Kruger 5013YGCB	6	28576	20.1	8	195.0*	--	--
NuTech 0C-213A YGCB	3, 5, 7, 8	29271	20.4	7	194.3*	--	--
Kruger 2212RR/YGCB	6	28679	20.8	13	193.7*	--	--
Lewis 4886 PL	9	29890	17.0	0	193.4*	155.6	174.5
Midland MG 417BT	9	29159	17.9	6	193.4*	--	--
Pioneer 34A16 (HX1/LL)	2, 7, 8, 9	30220	18.1	0	191.8*	175.7*	183.8
Garst 8294YG1/IT	5	30182	21.1	20	190.5*	178.9*	184.7
Crow's 4983S	6	30053	19.5	2	190.1*	--	--
Pioneer 34P89 (HX1,LL)	2, 7, 8, 9	28779	21.1	23	189.9*	119.0	154.5
Kruger 5116YGCB	6	28755	18.7	11	189.7*	--	--
Garst 8535YG1/IT	5	28114	19.7	21	189.5*	155.7	172.6
Fontanelle 8N206	9	28520	17.8	3	189.4*	--	--
Fontanelle 8B467	9	29047	19.9	10	189.2*	--	--
Kruger 2411RR/YGCB	6	29506	17.5	14	187.8*	--	--
NuTech 3C-310 RR/YGCB	9	28780	18.2	0	187.7*	--	--
Kruger 2210RR/YGCB	6	28457	18.8	10	187.6*	--	--
Renze 8386YGCB	1, 8, 9, 10	27121	20.1	16	187.2*	179.2*	183.2
MFA MORCORN MC4072 CB	6	29930	18.4	12	186.7*	161.9*	174.3
LG 2642 BtRR	NA	28582	18.6	3	186.6*	--	--
Rainbow 3142YGCB	NA	28908	18.5	13	186.6*	146.6	166.6
Kruger 2114RR/YGCB	6	28532	19.7	12	186.4*	--	--
Merschman M-810H-3	8, 9, 10	28651	18.2	6	186.0*	--	--
Lewis 5245 CB	9	29038	21.2	1	183.2	--	--
Dyna-Gro 57F37	9	28795	22.2	16	182.7	187.6**	185.2
Midland MG 448BT/RR	9	30973	19.5	15	182.4	--	--
MOF2 WJC-61	NA	28884	22.2	37	181.8	--	--
Champion CSX 1147 RR	7, 8, 9	27343	17.9	5	181.8	--	--
DEKALB DKC61-73 (RR2/YGCB)	9	29324	18.4	16	181.6	--	--
DEKALB DKC64-23 (RR2/YGRW)	9	30292	17.2	0	181.2	--	--
Kruger 2613RR/YGCB	6	28660	17.4	4	181.1	--	--
Stone 7S233	9	28036	16.7	4	181.1	--	--
Renze 8428YGCB	9	30489	19.9	8	180.8	--	--
NuTech 0C-213 YGCB	3, 5, 7, 8	30339	21.4	30	180.8	173.6*	177.2
Kruger 8016HX	6	27874	21.2	7	179.7	--	--
Midland MG 5575BT	9	28004	20.8	2	179.6	--	--
Kruger 8310HX	6	28019	18.5	0	179.0	--	--
AgriGold A6633BtRR	9	26586	20.5	1	178.6	--	--

TABLE 2. Continued.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
Kruger 2517RR/YGCB	6	28215	20.5	7	178.3	151.4	164.9
Garst 8456CB/LL	5	29324	18.4	2	177.1	--	--
NuTech 3A-113 RR	3, 5, 7, 8	30007	18.1	18	176.8	--	--
Midland MG 436BT	9	28542	17.4	7	176.8	167.6*	172.2
NK Brand N71-L7	6	28761	19.4	2	176.7	--	--
NC+ 5224RB	6	28105	19.7	11	176.4	--	--
Renze 9328YGCB/RR	9	29150	18.1	15	176.4	--	--
Pioneer 33D13 (HX1, LL)	2, 7, 8, 9	30139	20.2	12	176.3	131.0	153.7
MFA MORCORN MC4183 RR/CB	6	28753	18.1	44	176.2	--	--
LG 2614 BtRR	NA	29914	19.6	47	174.8	--	--
NuTech 3W-313 RR/YGRW	3, 5, 7, 8	29234	17.4	20	174.5	--	--
Dyna-Gro 57F06	9	28089	18.5	19	174.1	--	--
Champion CSX 1086 RR	9	28608	18.1	10	173.8	--	--
Kruger 2314RR/YGCB	6	29973	23.1	46	173.4	--	--
Stone 7N412	9	27229	21.3	58	172.5	--	--
MOF2 WJC-69	NA	28101	18.5	12	172.5	--	--
DEKALB DKC63-81 (RR2/YGCB)	9	29990	19.1	30	172.2	154.0	163.1
NuTech 1B-909 CB/LL	5	29177	18.8	11	172.1	--	--
Burrus 810R	4, 9, 10	30433	19.5	1	172.0	--	--
Taylor 930 RR/Bt	9	27706	19.6	7	171.7	--	--
Taylor EXP 77640RR	9	28667	18.4	30	171.6	--	--
NuTech 0C-616 YGCB	3, 5, 7, 8	29398	21.6	32	171.4	154.1	162.8
Midwest Seed 78132S	6	28674	19.1	15	170.9	--	--
MOF2 WJC-01	NA	26442	17.6	16	170.8	--	--
Fielder's Choice NG 6780	9	27260	19.3	20	170.3	--	--
AgriGold A6594BtRR	9	29072	21.1	10	169.7	--	--
Hubner H5808PL	9	29805	20.7	12	169.7	166.8*	168.3
Fontanelle 8N762	9	28756	19.6	10	169.2	--	--
NuTech 0C-214 YGCB	3, 5, 7, 8	30259	18.2	10	168.7	--	--
AgriGold A6479BtRR	9	28975	20.7	3	168.5	--	--
Rainbow X1116HX	NA	28115	19.0	34	168.5	--	--
Kruger 0115	6	27562	18.9	30	168.4	--	--
Hubner H4677CB	9	26735	21.6	35	166.6	163.8*	165.2
Lewis 4567 CB/RR	9	28639	18.2	5	166.6	--	--
NuTech 0C-912 YGCB	9	29524	19.1	14	165.9	--	--
MFA MORCORN MC4083 RR/CB	6	29657	19.0	18	165.7	--	--
NuTech 0C-413 YGCB	9	27974	19.3	41	165.2	--	--
NuTech 3C-714 RR/YGCB	9	30458	19.0	14	164.6	--	--
Rainbow 3105YGCB	NA	30261	19.2	16	164.4	157.4*	160.9
NuTech 0C-313A YGCB	3, 5, 7, 8	27983	20.3	31	164.3	--	--
Midland MG 428BT/LL	9	29780	19.2	11	164.2	--	--
MFA MORCORN MC4483 RR/CB	6	28973	19.1	34	164.1	--	--
Kruger 1015RR/YGCB	6	29775	16.9	1	162.3	--	--
NK Brand N68-B8	6	27055	18.3	4	161.1	150.0	155.6
Merschman M-806B-2	8, 9, 10	28444	16.3	11	160.6	--	--
Merschman M-612D-3	4, 9, 10	29147	19.8	4	160.5	--	--
NuTech 0C-614 YGCB	9	27774	18.5	22	159.8	--	--
NuTech 0C-111 YGCB	3, 5, 7, 8	27760	20.8	20	159.3	--	--
Stone 7R667	9	30499	16.4	12	159.0	158.4*	158.7
DEKALB RX715RR2/YGCB	9	28412	19.1	15	158.5	136.5	147.5
Pioneer 33K40 (HX1, LL)	2, 7, 8, 9	29086	21.7	19	157.3	151.4	154.4
Kruger 4411RR/YGRW	6	26913	18.4	32	156.6	--	--
Rainbow X1076HX	NA	28582	17.7	8	156.6	--	--
Kruger 8414HX	6	29776	18.8	24	155.9	147.6	151.8

TABLE 2. Continued.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
NK Brand N76-D3	6	28466	20.8	22	155.7	168.9*	162.3
Rainbow 3129YGCB	NA	30044	18.1	22	155.5	167.4*	161.5
Renze 5347HX1/LL	5	29307	21.2	21	155.3	--	--
Midland MG 617BT	9	29728	19.2	34	155.2	178.6*	166.9
MOF2 WJC-55	NA	28807	18.3	19	153.7	--	--
NuTech 1H-916A HX	5	30196	21.9	15	152.5	--	--
NC+ 4445RB	6	27015	23.1	60	152.2	--	--
Fielder's Choice NG 6785	9	27095	19.4	42	151.7	--	--
Lewis 7044 CB	9	30164	22.5	34	151.1	161.6*	156.4
Kruger 5014YGCB	6	28612	18.1	29	150.8	--	--
NuTech 0P-515A YGPL	9	28762	21.5	48	150.6	--	--
Renze 9386YGCB/RR	1, 8, 9, 10	29497	21.1	19	149.9	--	--
NuTech 3C-908 RR/YGCB	9	29339	19.7	29	149.5	--	--
MOF2 WJC-49	NA	28204	20.4	3	148.4	--	--
NuTech 0P-415 YGPL	5	27909	18.5	3	148.0	--	--
NuTech 0C-514 YGCB	9	30133	19.2	48	146.8	--	--
Merschman M-810B-2	8, 9, 10	28732	17.8	5	142.9	--	--
Merschman M-711E-3	4, 9, 10	27640	19.4	36	142.6	--	--
Crow's 4842 S	6	28602	20.1	40	138.7	--	--
Rainbow 3158YGCB	NA	29514	21.7	26	137.3	142.2	139.8
Merschman M-512C-3	4, 9, 10	28969	22.0	55	135.8	--	--
Kruger 8112HX	6	28215	22.6	32	134.2	--	--
Rainbow X1176HX	NA	29231	22.1	29	132.0	--	--
Garst 8353CB/LL	5	27847	22.0	41	127.7	--	--
NuTech 0P-515 YGPL	9	28862	21.1	46	127.0	--	--
MFA MORCORN MC4283 RR/CB	6	28708	19.9	34	124.7	--	--
TEST AVERAGE		28881	19.5	18	170.8	154.2	162.5
L.S.D. AT .10		2071	2.4	28	24.3	30.5	
C.V. %		5.2	8.8		10.2	11.9	

-- Data not available.

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

TABLE 3. Non-Irrigated Corn Test

North Region: Mooresville, MO (Livingston County)

Soil Type: Grundy Silt Loam Soil Test: pH=7.0, OM=3.0%, P=54, K=382

European Corn Borer Rating: Damaged Plants= 92%, Tunnel Length/Plant= 0.57 in.

Rainfall: Apr.=3.0, May=6.3, June=2.6, July=2.4, Aug.=6.0 Total=20.3 in.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007 2006	bu/acre	
Renze 5347HX1/LL	5	28398	17.1	22	167.3**	--	--
MOF2 WJC-49	NA	27909	16.2	6	166.1*	--	--
Kruger 4411RR/YGRW	6	28777	17.9	30	165.6*	--	--
Fielder's Choice NG 6780	9	28606	17.5	34	164.6*	--	--
NuTech 0C-213 YGCB	3, 5, 7, 8	28941	15.1	0	163.0*	186.9	175.0
Hubner H5808PL	9	29162	15.6	3	162.1*	185.2	173.7
NC+ 4445RB	6	30145	16.0	7	160.1*	--	--
LG 2642 BtRR	NA	28871	15.2	2	159.8*	--	--
Merschman M-810H-3	8, 9, 10	29360	16.4	2	159.7*	--	--
MOF2 WJC-55	NA	27746	16.3	4	159.4*	--	--
MFA MORCORN MC4183 RR/CB	6	29898	18.1	7	159.0*	--	--
Burrus 810R	4, 9, 10	29803	15.4	18	157.8*	--	--
Midland MG 448BT/RR	9	28753	18.4	4	157.7*	--	--
DEKALB DKC63-81 (RR2/YGCB)	9	27820	16.7	4	157.4*	194.4*	175.9
AgriGold A6633BtRR	9	28570	15.3	36	157.0*	--	--
NuTech 0C-514 YGCB	9	29877	14.5	28	156.1*	--	--
Taylor EXP 77640RR	9	29017	17.3	24	155.6*	--	--
MOF2 WJC-69	NA	29465	17.6	8	155.4*	--	--
NuTech 0C-111 YGCB	3, 5, 7, 8	29104	16.5	2	155.3*	--	--
MOF2 WJC-01	NA	27933	15.7	4	155.2*	--	--
Stone 8K339	9	28417	15.5	7	154.6*	--	--
Kruger 0115	6	30629	16.4	14	154.3*	--	--
NuTech 1B-909 CB/LL	5	28855	15.3	14	154.1*	--	--
Champion CSX 1086 RR	9	29830	15.8	3	154.0*	--	--
Lewis 5245 CB	9	29248	15.8	4	153.0*	--	--
MFA MORCORN MC4483 RR/CB	6	28477	16.3	3	152.2*	--	--
Stone 7S233	9	28367	16.3	2	152.1*	--	--
NC+ 5224RB	6	29977	15.4	10	151.9*	--	--
NuTech 0C-214 YGCB	3, 5, 7, 8	29307	14.9	2	151.6*	--	--
AgriGold A6594BtRR	9	29967	16.7	6	151.5*	--	--
NK Brand N68-B8	6	26200	14.0	7	151.2*	181.6	166.4
DEKALB DKC61-73 (RR2/YGCB)	9	29489	15.7	4	151.0*	--	--
Rainbow 3129YGCB	NA	29929	15.6	1	150.4*	182.9	166.7
Lewis 4567 CB/RR	9	29678	16.0	8	150.3*	--	--
NuTech 0P-515 YGPL	9	28563	15.8	7	150.1*	--	--
Kruger 2314RR/YGCB	6	30849	15.9	14	150.0*	--	--
Kruger 2210RR/YGCB	6	27938	14.8	5	149.6*	--	--
NuTech 1H-916A HX	5	29145	15.6	13	148.5*	--	--
Midland MG 417BT	9	29501	15.3	14	148.4*	--	--
Rainbow 3105YGCB	NA	29917	15.4	10	147.6*	176.6	162.1
Fielder's Choice NG 6785	9	27836	15.1	8	147.6*	--	--
DEKALB RX785RR2/YGCB	9	29237	16.0	7	147.6*	--	--
Kruger 8616HX	6	25953	15.9	11	147.6*	168.3	158.0
Fontanelle 8B467	9	28856	16.2	17	147.5*	--	--
Garst 8452CB/LL	5	29129	15.5	9	147.5*	180.7	164.1

TABLE 3. Continued.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007 2006	bu/acre	
Kruger 1015RR/YGCB	6	28517	15.4	3	147.5*	--	--
NuTech 0C-912 YGCB	9	29968	15.4	9	147.4*	--	--
Pioneer 34P89 (HX1,LL)	2, 7, 8, 9	27746	15.3	12	147.2*	166.7	157.0
NuTech 0C-213A YGCB	3, 5, 7, 8	30536	15.1	5	146.4*	--	--
Rainbow 3142YGCB	NA	28780	16.1	10	146.2*	185.2	165.7
Garst 8456CB/LL	5	28078	16.5	18	146.1*	--	--
MOF2 WJC-61	NA	29876	15.8	2	145.1*	--	--
Rainbow X1176HX	NA	27516	15.2	7	144.9*	--	--
Renze 8386YGCB	1, 8, 9, 10	29254	16.4	17	144.6*	202.1*	173.4
Garst 8294YG1/IT	5	28503	14.9	1	144.6*	203.5*	174.1
Merschman M-806B-2	8, 9, 10	28314	15.1	6	144.3*	--	--
MFA MORCORN MC4083 RR/CB	6	28653	16.0	8	144.0*	--	--
Garst 8535YG1/IT	5	27936	16.3	2	143.8*	167.5	155.7
LG 2614 BtRR	NA	28658	16.3	2	143.7*	--	--
Kruger 8112HX	6	30597	16.7	3	143.6*	--	--
NuTech 3C-310 RR/YGCB	9	28553	15.2	10	143.6*	--	--
Midland MG 428BT/LL	9	28851	17.3	9	143.5*	--	--
Pioneer 33K40 (HX1, LL)	2, 7, 8, 9	29976	16.1	12	143.2*	207.5**	175.4
Midland MG 617BT	9	29432	15.7	15	142.9*	189.1	166.0
Kruger 8414HX	6	29823	15.6	18	142.8*	172.0	157.4
Kruger 2517RR/YGCB	6	28255	16.3	1	142.6*	161.6	152.1
Kruger 5010YGCB	6	28194	15.8	8	142.6*	--	--
Kruger 8016HX	6	29436	15.5	25	142.0*	--	--
Renze 8428YGCB	9	26411	15.9	12	141.9*	--	--
Kruger 2613RR/YGCB	6	30051	16.1	34	141.6*	--	--
Fontanelle 8N206	9	28603	15.4	4	141.2*	--	--
Taylor 930 RR/Bt	9	26814	15.3	5	141.0*	--	--
NuTech 3W-313 RR/YGRW	3, 5, 7, 8	29789	15.8	5	141.0*	--	--
NuTech 3A-113 RR	3, 5, 7, 8	28967	16.9	12	140.6	--	--
NuTech 0C-313A YGCB	3, 5, 7, 8	29225	13.7	3	140.6	--	--
DEKALB RX715RR2/YGCB	9	28531	15.3	22	140.3	173.8	157.1
Hubner H4677CB	9	28947	15.4	9	140.2	180.1	160.2
NK Brand N76-D3	6	27953	15.9	20	140.0	188.4	164.2
Renze 9328YGCB/RR	9	29450	15.9	15	140.0	--	--
Kruger 2114RR/YGCB	6	29669	16.4	10	139.6	--	--
Stone 7N412	9	29490	15.0	7	139.6	--	--
Kruger 8310HX	6	28885	14.5	10	139.2	--	--
Kruger 5116YGCB	6	27669	16.1	41	138.8	--	--
Merschman M-612D-3	4, 9, 10	27383	15.8	7	138.4	--	--
NuTech 3C-908 RR/YGCB	9	30461	15.4	10	138.4	--	--
Midland MG 436BT	9	28685	16.5	17	138.2	194.0*	166.1
Midwest Seed 77123S	6	27071	17.2	3	137.5	--	--
MFA MORCORN MC4283 RR/CB	6	29049	14.4	9	137.4	--	--
NuTech 0P-415 YGPL	5	28605	17.1	2	137.2	--	--
NuTech 0C-614 YGCB	9	28947	14.6	18	137.1	--	--
Rainbow X1076HX	NA	30543	15.3	5	137.0	--	--
Kruger 5514YGCB	6	29413	15.8	5	137.0	175.6	156.3
Dyna-Gro 57F06	9	28725	15.2	12	136.7	--	--
Fontanelle 8N762	9	28902	16.3	13	136.7	--	--
NuTech 0C-616 YGCB	3, 5, 7, 8	28665	16.3	16	136.6	204.6*	170.6
NuTech 0P-515A YGPL	9	28284	15.9	20	136.3	--	--
DEKALB DKC64-23 (RR2/YGRW)	9	28022	15.7	8	136.3	--	--
Rainbow 3158YGCB	NA	29487	15.1	17	136.0	181.2	158.6
Dyna-Gro 57F37	9	29917	15.5	7	135.5	188.2	161.9

TABLE 3. Continued.

Brand-Variety	Seed Treatment ⁺	2007			Yield		
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007 -----bu/acre-----	2006	2 Yr. Mean
Champion CSX 1147 RR	7, 8, 9	28412	17.6	37	135.3	--	--
NuTech 3C-714 RR/YGCB	9	25855	14.9	29	134.6	--	--
Kruger 2212RR/YGCB	6	28111	14.7	12	134.2	--	--
Renze 9386YGCB/RR	1, 8, 9, 10	29790	14.8	28	133.7	--	--
DEKALB DKC63-46 (RR2/YGCB)	9	28792	15.7	13	132.7	201.3*	167.0
Kruger 5013YGCB	6	29409	16.2	22	132.6	--	--
NuTech 0C-413 YGCB	9	29319	16.5	31	131.9	--	--
Merschman M-810B-2	8, 9, 10	29556	15.4	10	131.3	--	--
Kruger 2411RR/YGCB	6	30036	15.1	56	130.4	--	--
Lewis 7044 CB	9	28596	15.7	26	130.3	202.0*	166.2
Kruger 5014YGCB	6	29001	15.7	12	130.2	--	--
Crow's 4983S	6	28681	15.2	12	130.2	--	--
Pioneer 34A16 (HX1/LL)	2, 7, 8, 9	27324	16.9	11	129.7	175.4	152.6
Pioneer 33D13 (HX1, LL)	2, 7, 8, 9	29963	14.9	7	129.2	180.7	155.0
Merschman M-512C-3	4, 9, 10	28962	17.4	17	128.0	--	--
AgriGold A6479BtRR	9	28817	15.3	18	126.8	--	--
Stone 7R667	9	30318	17.3	36	124.6	175.9	150.3
Garst 8353CB/LL	5	27262	15.3	17	124.6	--	--
NK Brand N71-L7	6	27703	16.7	21	124.5	--	--
Rainbow X1116HX	NA	28073	17.6	41	120.8	--	--
Merschman M-711E-3	4, 9, 10	28680	15.3	15	117.8	--	--
Midland MG 5575BT	9	27821	15.8	38	116.4	--	--
Lewis 4886 PL	9	29061	15.9	22	114.3	178.4	146.4
Midwest Seed 78132S	6	29812	16.6	37	110.2	--	--
Crow's 4842 S	6	31533	14.8	21	108.3	--	--
MFA MORCORN MC4072 CB	6	28246	17.6	61	95.4	174.1	134.8
TEST AVERAGE		28885	15.9	13	142.7	180.2	161.5
L.S.D. AT .10		2115	NS	NS	26.4	16.7	
C.V. %		5.3	9.2		13.1	6.6	

-- Data not available.

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

NS Not Significant

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

TABLE 4. Non-Irrigated Corn Test

North Region: Novelty, MO (Knox County)

Soil Type: Putman Silt Loam Soil Test: pH=5.6, OM=2.5%, P=94, K=622

European Corn Borer Rating: Damaged Plants= 80%, Tunnel Length/Plant= 2.25 in.

Rainfall: Apr.=4.2, May=5.6, June=2.8, July=1.9, Aug.=3.6 Total=18.1 in.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007 2006	bu/acre	
Kruger 2114RR/YGCB	6	30559	14.8	13	163.6**	--	--
NuTech 0P-415 YGPL	5	27941	19.7	1	162.0*	--	--
Kruger 0115	6	30151	16.2	0	158.7*	--	--
DEKALB DKC64-23 (RR2/YGRW)	9	29371	14.6	0	157.3*	--	--
NC+ 5224RB	6	29914	15.8	0	154.5*	--	--
Garst 8353CB/LL	5	28887	16.3	6	153.9*	--	--
Hubner H4677CB	9	28919	17.1	13	153.3*	193.8	173.6
Crow's 4983S	6	30047	16.6	4	151.0*	--	--
Pioneer 34P89 (HX1,LL)	2, 7, 8, 9	28687	13.4	22	150.6*	202.7	176.7
NK Brand N76-D3	6	27921	16.2	11	149.8*	206.0*	177.9
Taylor EXP 77640RR	9	28663	15.5	21	149.0*	--	--
DEKALB DKC63-46 (RR2/YGCB)	9	29543	16.0	35	148.3*	233.3**	190.8
Kruger 8616HX	6	28128	17.0	22	147.8*	204.0*	175.9
Garst 8535YG1/IT	5	27584	14.2	15	147.8*	187.2	167.5
LG 2642 BtRR	NA	29723	19.2	18	146.8*	--	--
Garst 8456CB/LL	5	30433	14.4	5	146.5*	--	--
Merschman M-612D-3	4, 9, 10	29444	14.5	17	146.4*	--	--
Kruger 8112HX	6	28584	16.2	14	146.3*	--	--
Midwest Seed 78132S	6	29239	16.1	16	146.2*	--	--
Pioneer 33K40 (HX1, LL)	2, 7, 8, 9	27488	16.9	2	146.2*	224.8*	185.5
Fontanelle 8N762	9	29850	14.9	16	145.8*	--	--
Garst 8452CB/LL	5	28515	15.5	7	145.7*	197.0	171.4
Renze 5347HX1/LL	5	28894	16.2	18	145.4*	--	--
Fontanelle 8N206	9	28213	16.2	14	145.4*	--	--
Kruger 4411RR/YGRW	6	29095	13.7	42	145.4*	--	--
Burrus 810R	4, 9, 10	29431	18.8	6	145.3*	--	--
Renze 8428YGCB	9	29546	17.4	27	145.2*	--	--
Kruger 8016HX	6	28021	17.3	5	144.8*	--	--
NuTech 0C-313A YGCB	3, 5, 7, 8	29305	15.0	10	144.3*	--	--
Kruger 5013YGCB	6	30613	15.1	46	144.3*	--	--
MFA MORCORN MC4283 RR/CB	6	28117	16.8	48	144.1*	--	--
Kruger 5514YGCB	6	29877	15.6	3	144.1*	212.2*	178.2
Stone 7R667	9	29164	12.0	12	143.6	197.8	170.7
Garst 8294YG1/IT	5	28399	16.5	14	143.3	216.2*	179.8
DEKALB RX785RR2/YGCB	9	29232	15.3	34	142.9	--	--
Champion CSX 1086 RR	9	28276	14.5	0	142.6	--	--
Kruger 2411RR/YGCB	6	29782	14.6	8	141.7	--	--
Dyna-Gro 57F06	9	28359	14.6	31	141.4	--	--
Midland MG 5575BT	9	28892	14.4	26	140.8	--	--
Lewis 5245 CB	9	29569	16.4	42	139.8	--	--
NuTech 0C-213 YGCB	3, 5, 7, 8	29378	16.0	56	139.8	198.8	169.3
Lewis 4886 PL	9	29392	15.0	24	139.3	188.1	163.7
NuTech 3C-714 RR/YGCB	9	28802	16.5	8	139.1	--	--
MFA MORCORN MC4083 RR/CB	6	29963	14.5	9	138.9	--	--
Dyna-Gro 57F37	9	28726	16.9	61	138.0	217.2*	177.6

TABLE 4. Continued.

Brand-Variety	Seed Treatment ⁺	2007			Yield		
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007 2006 -----bu/acre-----	2006	2 Yr. Mean
MOF2 WJC-55	NA	29788	13.4	3	137.4	--	--
Kruger 5010YGCB	6	29368	15.2	42	137.4	--	--
Renze 9328YGCB/RR	9	27872	15.4	0	136.8	--	--
Pioneer 33D13 (HX1, LL)	2, 7, 8, 9	28977	14.0	5	136.5	196.6	166.6
NuTech 0C-614 YGCB	9	30985	14.3	45	136.5	--	--
NuTech 0C-413 YGCB	9	29483	14.3	44	136.1	--	--
Stone 8K339	9	28381	15.9	55	136.0	--	--
DEKALB DKC63-81 (RR2/YGCB)	9	29327	16.7	18	135.7	216.9*	176.3
MFA MORCORN MC4072 CB	6	29533	14.8	21	135.6	224.8*	180.2
NK Brand N68-B8	6	29254	14.7	3	135.4	202.0	168.7
Renze 8386YGCB	1, 8, 9, 10	29942	15.5	41	134.6	201.9	168.3
Rainbow 3142YGCB	NA	27800	14.6	16	134.5	215.4*	175.0
Fielder's Choice NG 6780	9	28290	14.8	25	134.1	--	--
Champion CSX 1147 RR	7, 8, 9	28824	14.5	11	134.0	--	--
NuTech 0C-213A YGCB	3, 5, 7, 8	29177	16.0	26	133.5	--	--
DEKALB RX715RR2/YGCB	9	28388	15.5	41	133.3	201.3	167.3
NuTech 3W-313 RR/YGRW	3, 5, 7, 8	30793	16.9	9	132.4	--	--
Midland MG 448BT/RR	9	29418	15.4	10	131.8	--	--
Pioneer 34A16 (HX1/LL)	2, 7, 8, 9	29789	14.2	60	131.6	185.6	158.6
Rainbow 3105YGCB	NA	29609	17.1	22	130.5	188.6	159.6
Taylor 930 RR/Bt	9	28321	15.0	26	130.1	--	--
MOF2 WJC-49	NA	28428	19.0	77	128.8	--	--
Lewis 4567 CB/RR	9	27330	14.8	9	128.7	--	--
Merschman M-810H-3	8, 9, 10	29566	16.1	55	128.2	--	--
MFA MORCORN MC4183 RR/CB	6	30408	14.4	45	126.9	--	--
MOF2 WJC-69	NA	29967	15.0	39	126.1	--	--
Merschman M-806B-2	8, 9, 10	29678	12.1	13	125.9	--	--
NuTech 0C-514 YGCB	9	28519	17.5	3	125.6	--	--
NuTech 0C-111 YGCB	3, 5, 7, 8	28739	15.5	62	125.3	--	--
Kruger 8414HX	6	29800	17.4	39	125.2	189.0	157.1
Kruger 2210RR/YGCB	6	29421	14.8	77	125.1	--	--
NuTech 3C-908 RR/YGCB	9	29161	14.8	42	124.7	--	--
NuTech 0P-515 YGPL	9	29308	17.8	50	124.0	--	--
NuTech 3C-310 RR/YGCB	9	28322	16.7	60	123.4	--	--
Rainbow 3129YGCB	NA	29560	14.2	57	123.1	194.0	158.6
Stone 7S233	9	29886	14.3	46	122.5	--	--
Crow's 4842 S	6	29030	14.8	56	122.1	--	--
Kruger 8310HX	6	29947	15.3	75	121.7	--	--
Rainbow X1116HX	NA	29167	15.2	73	121.2	--	--
AgriGold A6594BtRR	9	29235	17.6	70	120.6	--	--
Merschman M-711E-3	4, 9, 10	28795	14.3	36	120.1	--	--
Rainbow X1076HX	NA	29155	14.8	6	120.0	--	--
Kruger 2613RR/YGCB	6	30035	17.1	36	119.9	--	--
NuTech 0C-912 YGCB	9	28557	15.4	51	119.8	--	--
Midland MG 436BT	9	29456	14.2	59	119.6	200.6	160.1
NuTech 0P-515A YGPL	9	27844	18.1	77	119.1	--	--
Fielder's Choice NG 6785	9	28183	16.2	55	118.0	--	--
Kruger 5014YGCB	6	30831	16.2	59	117.9	--	--
Midland MG 617BT	9	27620	16.6	79	117.7	222.0*	169.9
DEKALB DKC61-73 (RR2/YGCB)	9	30692	13.9	80	115.4	--	--
NK Brand N71-L7	6	30159	14.0	70	115.4	--	--
Midwest Seed 77123S	6	30360	14.7	45	114.9	--	--
Kruger 2314RR/YGCB	6	29359	17.7	43	112.0	--	--
NuTech 1B-909 CB/LL	5	28189	14.9	72	111.0	--	--

TABLE 4. Continued.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
MOF2 WJC-61	NA	30588	17.9	66	109.4	--	--
Midland MG 417BT	9	28699	14.8	68	109.3	--	--
Rainbow X1176HX	NA	29021	21.6	22	108.9	--	--
Midland MG 428BT/LL	9	28635	15.2	65	108.4	--	--
MOF2 WJC-01	NA	27422	14.1	97	108.0	--	--
Renze 9386YGCB/RR	1, 8, 9, 10	29352	17.0	52	107.8	--	--
Merschman M-512C-3	4, 9, 10	30124	17.6	72	107.4	--	--
Rainbow 3158YGCB	NA	29612	17.8	54	107.3	189.7	148.5
AgriGold A6479BtRR	9	28689	13.8	98	106.0	--	--
MFA MORCORN MC4483 RR/CB	6	28887	18.8	87	103.9	--	--
Merschman M-810B-2	8, 9, 10	30405	13.4	56	103.3	--	--
AgriGold A6633BtRR	9	28739	16.6	104	102.9	--	--
Lewis 7044 CB	9	28716	18.8	88	102.2	188.1	145.2
Stone 7N412	9	29740	13.4	99	99.5	--	--
Kruger 5116YGCB	6	29672	16.2	100	97.3	--	--
Fontanelle 8B467	9	29276	14.7	100	96.5	--	--
Kruger 2212RR/YGCB	6	30679	17.0	76	96.1	--	--
NC+ 4445RB	6	30068	14.9	73	95.0	--	--
Hubner H5808PL	9	29126	19.0	104	94.4	180.2	137.3
NuTech 0C-214 YGCB	3, 5, 7, 8	28821	17.4	90	93.4	--	--
NuTech 0C-616 YGCB	3, 5, 7, 8	29258	19.4	89	93.1	156.5	124.8
NuTech 3A-113 RR	3, 5, 7, 8	30080	13.5	91	92.0	--	--
Kruger 2517RR/YGCB	6	29155	19.5	98	91.3	178.3	134.8
NuTech 1H-916A HX	5	29119	19.1	77	89.8	--	--
LG 2614 BtRR	NA	29648	15.0	100	79.5	--	--
Kruger 1015RR/YGCB	6	28624	14.9	90	79.2	--	--
TEST AVERAGE		29191	15.8	41	128.1	194.7	161.4
L.S.D. AT .10		1958	1.7	29	19.7	29.3	
C.V. %		4.7	8.0		10.8	10.6	

-- Data not available.

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxy); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

TABLE 5. Non-Irrigated Corn Test

North Region: LaGrange, MO (Lewis County)

Soil Type: Westerville Silt Loam Soil Test: pH=6.2, OM=1.8%, P=26, K=276

European Corn Borer Rating: Damaged Plants= 92%, Tunnel Length/Plant= 1.95 in.

Rainfall: Apr.=4.3, May=4.1, June=1.6, July=1.0, Aug.=4.0 Total=15.0 in.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007 2006	bu/acre-----	
DEKALB DKC61-73 (RR2/YGCB)	9	31553	12.1	0	250.5**	--	--
MOF2 WJC-61	NA	29449	13.2	3	249.1*	--	--
Kruger 5116YGCB	6	31013	12.7	1	245.4*	--	--
AgriGold A6633BtRR	9	31098	12.3	0	244.5*	--	--
Renze 8428YGCB	9	30862	12.8	0	243.1*	--	--
NuTech 0C-213A YGCB	3, 5, 7, 8	29918	13.0	0	242.6*	--	--
LG 2614 BtRR	NA	30677	12.8	0	241.5*	--	--
NuTech 0C-213 YGCB	3, 5, 7, 8	30544	12.6	0	241.3*	246.9**	244.1
Merschman M-512C-3	4, 9, 10	30470	12.9	1	241.1*	--	--
Kruger 2517RR/YGCB	6	29112	11.9	3	240.8*	184.8	212.8
NuTech 0C-514 YGCB	9	30287	12.3	1	239.9*	--	--
Kruger 8414HX	6	31951	12.5	5	239.8*	201.6	220.7
NuTech 1B-909 CB/LL	5	31162	12.3	0	239.2*	--	--
DEKALB DKC63-46 (RR2/YGCB)	9	31246	12.1	0	239.2*	228.7*	234.0
Kruger 5013YGCB	6	30653	12.5	0	238.7*	--	--
NuTech 0C-413 YGCB	9	29266	12.5	0	238.7*	--	--
Lewis 7044 CB	9	30769	13.2	4	238.1*	212.7	225.4
Stone 8K339	9	29757	12.4	0	238.0*	--	--
MFA MORCORN MC4083 RR/CB	6	30275	12.7	0	237.0*	--	--
Dyna-Gro 57F06	9	28188	12.3	0	236.7*	--	--
Fontanelle 8N206	9	30329	12.7	0	236.3*	--	--
NuTech 3W-313 RR/YGRW	3, 5, 7, 8	29551	12.5	0	235.8	--	--
Midland MG 436BT	9	28845	12.2	2	235.5	207.0	221.3
Kruger 2212RR/YGCB	6	30028	12.4	0	235.2	--	--
Fontanelle 8B467	9	31346	12.7	0	235.1	--	--
NuTech 0C-616 YGCB	3, 5, 7, 8	29829	13.0	3	234.7	213.4	224.1
Dyna-Gro 57F37	9	30238	12.5	0	234.5	215.5	225.0
Renze 8386YGCB	1, 8, 9, 10	30410	13.0	0	234.4	233.0*	233.7
Kruger 5514YGCB	6	30437	12.5	0	234.4	214.5	224.5
Midland MG 417BT	9	30787	12.3	4	234.4	--	--
Kruger 2210RR/YGCB	6	30464	12.7	0	234.3	--	--
Garst 8294YG1/IT	5	29640	12.6	0	234.0	244.3*	239.2
Kruger 2613RR/YGCB	6	29936	12.2	2	233.8	--	--
Renze 5347HX1/LL	5	29824	12.4	0	233.8	--	--
Kruger 8310HX	6	29971	12.3	0	233.6	--	--
NuTech 3C-714 RR/YGCB	9	30555	12.6	0	233.5	--	--
Midland MG 617BT	9	28969	12.2	0	233.3	210.1	221.7
Pioneer 33K40 (HX1, LL)	2, 7, 8, 9	31474	12.8	2	233.2	210.9	222.1
Kruger 8616HX	6	30547	12.5	2	232.8	180.4	206.6
Taylor EXP 77640RR	9	29772	12.4	1	232.7	--	--
Kruger 5010YGCB	6	31013	12.7	0	232.6	--	--
NuTech 3A-113 RR	3, 5, 7, 8	29994	12.4	2	232.6	--	--
Garst 8456CB/LL	5	31369	12.2	0	231.5	--	--
DEKALB RX715RR2/YGCB	9	29169	12.7	1	231.4	236.4*	233.9
Merschman M-810H-3	8, 9, 10	29554	12.0	0	231.3	--	--

TABLE 5. Continued.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007 2006	bu/acre	
Rainbow X1116HX	NA	29437	12.2	0	231.3	--	--
Midland MG 448BT/RR	9	29975	12.3	0	231.1	--	--
MFA MORCORN MC4283 RR/CB	6	29975	12.6	3	231.0	--	--
Lewis 4886 PL	9	29722	12.1	2	230.9	194.9	212.9
Garst 8353CB/LL	5	30913	12.4	1	230.9	--	--
NuTech 0C-912 YGCB	9	30227	12.2	0	230.8	--	--
Rainbow 3105YGCB	NA	30151	12.7	2	230.4	212.6	221.5
Midland MG 428BT/LL	9	28251	12.2	0	230.3	--	--
NuTech 0P-415 YGPL	5	30483	13.2	0	230.1	--	--
NuTech 0P-515A YGPL	9	30578	12.8	1	229.9	--	--
AgriGold A6594BtRR	9	30086	13.1	1	229.9	--	--
NuTech 0C-111 YGCB	3, 5, 7, 8	29820	12.5	0	229.9	--	--
NuTech 0C-614 YGCB	9	29581	12.9	1	229.8	--	--
Rainbow 3142YGCB	NA	29804	12.3	0	229.7	230.9*	230.3
NK Brand N76-D3	6	30324	12.6	0	229.7	208.6	219.2
Kruger 1015RR/YGCB	6	29871	12.6	0	229.7	--	--
MOF2 WJC-01	NA	27696	12.2	0	229.6	--	--
Kruger 2314RR/YGCB	6	30381	12.8	13	229.6	--	--
DEKALB RX785RR2/YGCB	9	30389	12.2	0	229.3	--	--
Merschman M-612D-3	4, 9, 10	30708	12.5	0	228.8	--	--
Stone 7N412	9	30199	12.8	0	228.7	--	--
Lewis 5245 CB	9	29878	12.9	0	228.1	--	--
Merschman M-711E-3	4, 9, 10	28789	12.2	1	227.9	--	--
Kruger 8112HX	6	28895	12.3	0	227.7	--	--
Champion CSX 1147 RR	7, 8, 9	26943	11.7	0	227.5	--	--
AgriGold A6479BtRR	9	30702	12.6	0	226.9	--	--
Kruger 2411RR/YGCB	6	30047	12.2	0	226.8	--	--
Kruger 8016HX	6	30615	13.0	1	226.8	--	--
NC+ 4445RB	6	29710	12.5	4	226.6	--	--
MFA MORCORN MC4183 RR/CB	6	29532	12.5	1	226.4	--	--
NuTech 0P-515 YGPL	9	30221	13.0	0	225.8	--	--
MFA MORCORN MC4072 CB	6	30455	12.5	0	225.8	214.0	219.9
Pioneer 34P89 (HX1,LL)	2, 7, 8, 9	29372	12.5	0	225.8	222.1*	224.0
NuTech 0C-313A YGCB	3, 5, 7, 8	29378	11.8	0	225.3	--	--
Kruger 4411RR/YGRW	6	29479	12.0	0	225.2	--	--
Renze 9328YGCB/RR	9	28447	12.3	0	225.1	--	--
LG 2642 BtRR	NA	29386	13.0	0	225.0	--	--
Kruger 0115	6	29849	12.7	0	225.0	--	--
NK Brand N68-B8	6	30010	12.0	0	224.9	218.0*	221.5
Champion CSX 1086 RR	9	30724	12.4	0	224.7	--	--
Taylor 930 RR/Bt	9	28307	12.4	0	224.4	--	--
Kruger 5014YGCB	6	29935	12.7	1	224.3	--	--
Fontanelle 8N762	9	31095	13.0	0	223.8	--	--
Kruger 2114RR/YGCB	6	30290	13.1	0	223.4	--	--
DEKALB DKC63-81 (RR2/YGCB)	9	30100	12.7	1	223.3	203.9	213.6
Fielder's Choice NG 6785	9	30072	11.6	3	223.3	--	--
Rainbow 3129YGCB	NA	30120	12.1	0	223.2	193.8	208.5
MFA MORCORN MC4483 RR/CB	6	29773	11.7	5	223.0	--	--
NC+ 5224RB	6	30709	13.0	1	222.9	--	--
MOF2 WJC-69	NA	29602	12.3	3	222.7	--	--
Stone 7S233	9	30297	11.7	0	222.5	--	--
Burrus 810R	4, 9, 10	30787	13.1	0	222.2	--	--
DEKALB DKC64-23 (RR2/YGRW)	9	29726	12.4	3	221.8	--	--
NuTech 0C-214 YGCB	3, 5, 7, 8	30357	12.9	4	221.8	--	--

TABLE 5. Continued.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
Crow's 4983S	6	30046	12.7	0	221.6	--	--
Garst 8452CB/LL	5	29505	12.3	0	221.4	210.1	215.8
Lewis 4567 CB/RR	9	28858	11.9	4	220.1	--	--
Rainbow X1076HX	NA	30557	12.1	2	219.3	--	--
Renze 9386YGCB/RR	1, 8, 9, 10	29507	12.5	1	219.1	--	--
Midland MG 5575BT	9	27416	12.2	0	219.0	--	--
Hubner H5808PL	9	28554	13.1	14	218.8	184.2	201.5
Fielder's Choice NG 6780	9	29195	12.4	2	218.7	--	--
Pioneer 34A16 (HX1/LL)	2, 7, 8, 9	28957	12.7	0	217.1	203.0	210.1
Rainbow 3158YGCB	NA	29775	12.8	1	216.8	174.6	195.7
Midwest Seed 77123S	6	29491	12.6	0	216.6	--	--
NuTech 3C-310 RR/YGCB	9	29701	12.1	0	216.4	--	--
NuTech 1H-916A HX	5	29278	12.7	4	216.2	--	--
Hubner H4677CB	9	24355	12.3	0	215.5	228.2*	221.9
Stone 7R667	9	28986	12.3	0	215.3	222.6*	219.0
Pioneer 33D13 (HX1, LL)	2, 7, 8, 9	30728	12.3	0	214.9	210.4	212.7
Crow's 4842 S	6	28359	12.4	3	213.8	--	--
NK Brand N71-L7	6	29687	12.6	0	213.0	--	--
Garst 8535YG1/IT	5	29710	12.1	0	211.7	201.1	206.4
Midwest Seed 78132S	6	30415	13.0	0	211.6	--	--
Rainbow X1176HX	NA	29184	12.8	0	210.3	--	--
MOF2 WJC-49	NA	28306	13.0	10	208.6	--	--
MOF2 WJC-55	NA	29843	12.6	0	207.8	--	--
NuTech 3C-908 RR/YGCB	9	29177	12.1	2	205.5	--	--
Merschman M-806B-2	8, 9, 10	29694	12.1	1	203.4	--	--
Merschman M-810B-2	8, 9, 10	29883	12.2	0	187.1	--	--
TEST AVERAGE		29869	12.5	1	227.8	206.5	217.2
L.S.D. AT .10		1374	0.5	4	14.2	29.1	
C.V. %		3.3	2.9		4.5	10.0	

-- Data not available.

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxy); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

TABLE 6. Performance Summary for Non-Irrigated Hybrids evaluated at Four North Missouri locations (Albany, Mooresville, Novelty, LaGrange) during 2007.

Albany
Planted: 06-05
Harvested: 10-15,23
Growing Season Rainfall: 21.2 in.

Mooresville
Planted: 05-22
Harvested: 10-09
Growing Season Rainfall: 20.3 in.

Novelty
Planted: 05-24
Harvested: 10-2,4
Growing Season Rainfall: 18.1 in.

LaGrange
Planted: 05-09
Harvested: 10-10
Growing Season Rainfall: 15.0 in.

Brand-Hybrid	Yield (Bu/Acre)				
	Albany	Mooresville	Novelty	LaGrange	Mean
Non-Irrigated					
Stone 8K339	208.2**	154.6*	136.0	238.0*	184.2**
NuTech 0C-213 YGCB	180.8	163.0*	139.8	241.3*	181.2*
Kruger 8616HX	195.1*	147.6*	147.8*	232.8	180.8*
DEKALB DKC63-46 (RR2/YGCB)	198.6*	132.7	148.3*	239.2*	179.7*
LG 2642 BtRR	186.6*	159.8*	146.8*	225.0	179.6*
DEKALB RX785RR2/YGCB	197.8*	147.6*	142.9	229.3	179.4*
NuTech 0C-213A YGCB	194.3*	146.4*	133.5	242.6*	179.2*
Kruger 5010YGCB	203.1*	142.6*	137.4	232.6	178.9*
Pioneer 34P89 (HX1,LL)	189.9*	147.2*	150.6*	225.8	178.4*
Kruger 5514YGCB	197.8*	137.0	144.1*	234.4	178.3*
Kruger 2114RR/YGCB	186.4*	139.6	163.6**	223.4	178.2*
Garst 8294YG1/IT	190.5*	144.6*	143.3	234.0	178.1*
Fontanelle 8N206	189.4*	141.2*	145.4*	236.3*	178.1*
Renze 8428YGCB	180.8	141.9*	145.2*	243.1*	177.8*
Kruger 5013YGCB	195.0*	132.6	144.3*	238.7*	177.6*
Garst 8452CB/LL	195.6*	147.5*	145.7*	221.4	177.5*
Taylor EXP 77640RR	171.6	155.6*	149.0*	232.7	177.2*
Kruger 0115	168.4	154.3*	158.7*	225.0	176.6*
NC+ 5224RB	176.4	151.9*	154.5*	222.9	176.4*
Merschman M-810H-3	186.0*	159.7*	128.2	231.3	176.3*
Lewis 5245 CB	183.2	153.0*	139.8	228.1	176.0*
Midland MG 448BT/RR	182.4	157.7*	131.8	231.1	175.8*
Renze 5347HX1/LL	155.3	167.3**	145.4*	233.8	175.4*
Garst 8456CB/LL	177.1	146.1*	146.5*	231.5	175.3*
Renze 8386YGCB	187.2*	144.6*	134.6	234.4	175.2*
DEKALB DKC61-73 (RR2/YGCB)	181.6	151.0*	115.4	250.5**	174.6*
Burrus 810R	172.0	157.8*	145.3*	222.2	174.3*
Rainbow 3142YGCB	186.6*	146.2*	134.5	229.7	174.2*
Kruger 2210RR/YGCB	187.6*	149.6*	125.1	234.3	174.2*
DEKALB DKC64-23 (RR2/YGRW)	181.2	136.3	157.3*	221.8	174.2*
Champion CSX 1086 RR	173.8	154.0*	142.6	224.7	173.8*
Kruger 8016HX	179.7	142.0*	144.8*	226.8	173.3*
Crow's 4983S	190.1*	130.2	151.0*	221.6	173.2
Garst 8535YG1/IT	189.5*	143.8*	147.8*	211.7	173.2
Kruger 4411RR/YGRW	156.6	165.6*	145.4*	225.2	173.2
Dyna-Gro 57F37	182.7	135.5	138.0	234.5	172.7
Dyna-Gro 57F06	174.1	136.7	141.4	236.7*	172.2
DEKALB DKC63-81 (RR2/YGCB)	172.2	157.4*	135.7	223.3	172.1
MFA MORCORN MC4183 RR/CB	176.2	159.0*	126.9	226.4	172.1
Fielder's Choice NG 6780	170.3	164.6*	134.1	218.7	171.9

Table 6. Continued.

Brand-Hybrid	Yield (Bu/Acre)				Mean
	Albany	Mooresville	Novelty	LaGrange	
Non-Irrigated					
Kruger 2411RR/YGCB	187.8*	130.4	141.7	226.8	171.7
MFA MORCORN MC4083 RR/CB	165.7	144.0*	138.9	237.0*	171.4
Midland MG 417BT	193.4*	148.4*	109.3	234.4	171.4
MOF2 WJC-61	181.8	145.1*	109.4	249.1*	171.4
NuTech 3W-313 RR/YGRW	174.5	141.0*	132.4	235.8	170.9
AgriGold A6633BtRR	178.6	157.0*	102.9	244.5*	170.8
Pioneer 33K40 (HX1, LL)	157.3	143.2*	146.2*	233.2	170.0
Champion CSX 1147 RR	181.8	135.3	134.0	227.5	169.6
Renze 9328YGCB/RR	176.4	140.0	136.8	225.1	169.6
Stone 7S233	181.1	152.1*	122.5	222.5	169.6
Lewis 4886 PL	193.4*	114.3	139.3	230.9	169.5
NuTech 0P-415 YGPL	148.0	137.2	162.0*	230.1	169.3
MOF2 WJC-69	172.5	155.4*	126.1	222.7	169.2
Kruger 2613RR/YGCB	181.1	141.6*	119.9	233.8	169.1
NuTech 1B-909 CB/LL	172.1	154.1*	111.0	239.2*	169.1
Hubner H4677CB	166.6	140.2	153.3*	215.5	168.9
Fontanelle 8N762	169.2	136.7	145.8*	223.8	168.9
NK Brand N76-D3	155.7	140.0	149.8*	229.7	168.8
NuTech 0C-313A YGCB	164.3	140.6	144.3*	225.3	168.6
Midwest Seed 77123S	205.1*	137.5	114.9	216.6	168.5
Merschman M-612D-3	160.5	138.4	146.4*	228.8	168.5
Kruger 8310HX	179.0	139.2	121.7	233.6	168.4
Rainbow 3105YGCB	164.4	147.6*	130.5	230.4	168.2
NK Brand N68-B8	161.1	151.2*	135.4	224.9	168.1
NuTech 0C-413 YGCB	165.2	131.9	136.1	238.7*	168.0
NuTech 3C-714 RR/YGCB	164.6	134.6	139.1	233.5	168.0
AgriGold A6594BtRR	169.7	151.5*	120.6	229.9	167.9
Kruger 5116YGCB	189.7*	138.8	97.3	245.4*	167.8
NuTech 3C-310 RR/YGCB	187.7*	143.6*	123.4	216.4	167.8
Pioneer 34A16 (HX1/LL)	191.8*	129.7	131.6	217.1	167.6
Midland MG 436BT	176.8	138.2	119.6	235.5	167.5
NuTech 0C-111 YGCB	159.3	155.3*	125.3	229.9	167.4
NuTech 0C-514 YGCB	146.8	156.1*	125.6	239.9*	167.1
Fontanelle 8B467	189.2*	147.5*	96.5	235.1	167.1
Taylor 930 RR/Bt	171.7	141.0*	130.1	224.4	166.8
Lewis 4567 CB/RR	166.6	150.3*	128.7	220.1	166.4
Kruger 2314RR/YGCB	173.4	150.0*	112.0	229.6	166.2
NuTech 0C-912 YGCB	165.9	147.4*	119.8	230.8	166.0
Kruger 8414HX	155.9	142.8*	125.2	239.8*	165.9
MOF2 WJC-01	170.8	155.2*	108.0	229.6	165.9
DEKALB RX715RR2/YGCB	158.5	140.3	133.3	231.4	165.9
NuTech 0C-614 YGCB	159.8	137.1	136.5	229.8	165.8
Kruger 2212RR/YGCB	193.7*	134.2	96.1	235.2	164.8
MOF2 WJC-55	153.7	159.4*	137.4	207.8	164.6
Pioneer 33D13 (HX1, LL)	176.3	129.2	136.5	214.9	164.2
Midland MG 5575BT	179.6	116.4	140.8	219.0	164.0
Kruger 2517RR/YGCB	178.3	142.6*	91.3	240.8*	163.2
Rainbow 3129YGCB	155.5	150.4*	123.1	223.2	163.0
MOF2 WJC-49	148.4	166.1*	128.8	208.6	163.0
Kruger 8112HX	134.2	143.6*	146.3*	227.7	163.0
Midland MG 617BT	155.2	142.9*	117.7	233.3	162.3
Midland MG 428BT/LL	164.2	143.5*	108.4	230.3	161.6
Hubner H5808PL	169.7	162.1*	94.4	218.8	161.2
MFA MORCORN MC4072 CB	186.7*	95.4	135.6	225.8	160.9

Table 6. Continued.

Brand-Hybrid	Yield (Bu/Acre)				Mean
	Albany	Mooreville	Novelty	LaGrange	
Non-Irrigated					
MFA MORCORN MC4483 RR/CB	164.1	152.2*	103.9	223.0	160.8
Stone 7R667	159.0	124.6	143.6	215.3	160.6
NuTech 3A-113 RR	176.8	140.6	92.0	232.6	160.5
Rainbow X1116HX	168.5	120.8	121.2	231.3	160.4
Fielder's Choice NG 6785	151.7	147.6*	118.0	223.3	160.2
Stone 7N412	172.5	139.6	99.5	228.7	160.1
LG 2614 BtRR	174.8	143.7*	79.5	241.5*	159.9
Midwest Seed 78132S	170.9	110.2	146.2*	211.6	159.7
MFA MORCORN MC4283 RR/CB	124.7	137.4	144.1*	231.0	159.3
Garst 8353CB/LL	127.7	124.6	153.9*	230.9	159.3
NuTech 0P-515A YGPL	150.6	136.3	119.1	229.9	159.0
NuTech 0C-616 YGCB	171.4	136.6	93.1	234.7	158.9
NuTech 0C-214 YGCB	168.7	151.6*	93.4	221.8	158.9
Merschman M-806B-2	160.6	144.3*	125.9	203.4	158.6
NC+ 4445RB	152.2	160.1*	95.0	226.6	158.5
Rainbow X1076HX	156.6	137.0	120.0	219.3	158.2
NK Brand N71-L7	176.7	124.5	115.4	213.0	157.4
AgriGold A6479BtRR	168.5	126.8	106.0	226.9	157.0
NuTech 0P-515 YGPL	127.0	150.1*	124.0	225.8	156.7
Kruger 5014YGCB	150.8	130.2	117.9	224.3	155.8
Lewis 7044 CB	151.1	130.3	102.2	238.1*	155.4
Kruger 1015RR/YGCB	162.3	147.5*	79.2	229.7	154.7
NuTech 3C-908 RR/YGCB	149.5	138.4	124.7	205.5	154.5
Merschman M-512C-3	135.8	128.0	107.4	241.1*	153.1
Renze 9386YGCB/RR	149.9	133.7	107.8	219.1	152.6
Merschman M-711E-3	142.6	117.8	120.1	227.9	152.1
NuTech 1H-916A HX	152.5	148.5*	89.8	216.2	151.8
Rainbow 3158YGCB	137.3	136.0	107.3	216.8	149.4
Rainbow X11176HX	132.0	144.9*	108.9	210.3	149.0
Crow's 4842 S	138.7	108.3	122.1	213.8	145.7
Merschman M-810B-2	142.9	131.3	103.3	187.1	141.2
TEST AVERAGE	170.8	142.7	128.1	227.8	167.4
L.S.D. AT .10	24.3	26.4	19.7	14.2	10.8
C.V. %	10.2	13.1	10.8	4.5	9.7

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

Note: To view seed treatments for these hybrids refer to the location table or the characteristics chart.

TABLE 7. New Technology Corn Test

North/Central Region: Albany, MO (Gentry County)

Soil Type: Grundy Silt Loam Soil Test: pH=6.5, OM=2.0%, P=102, K=402

European Corn Borer Rating: Damaged Plants= 84%, Tunnel Length/Plant= 1.05 in.

Rainfall: Apr.=2.1, May=9.5, June=1.1, July=2.3, Aug.=6.2 Total=

Irrigation: 0 in.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
Midwest Seed 8040VT3	6	27747	23.0	33	190.0**	--	--
Fontanelle 7K733	9	28874	20.0	2	188.3*	130.4*	159.4
Kruger 6011TS	6	26829	17.0	27	183.9*	--	--
Mycogen 2Y737	3, 5	28516	22.1	0	183.0*	--	--
NC+ 5453VT3	6	27059	21.1	39	179.1*	--	--
Fontanelle 8K339	9	28721	21.0	28	176.7*	--	--
Midwest Seed 78134T	6	26868	21.5	36	173.9*	--	--
Crow's 5304VT3	6	29569	21.0	35	169.3*	--	--
NuTech 3T-310 VT3	9	28445	20.5	15	167.9*	--	--
NuTech 3T-808 VT3	9	27901	21.0	38	166.5*	--	--
Crow's 4984T	6	29889	21.4	44	163.4*	--	--
Kruger 6413TS	6	28355	17.3	48	161.2	--	--
Burrus X494T	4, 9, 10	28853	20.4	8	159.1	--	--
NuTech 3P-910A RR/YGPL	9	29224	19.3	11	158.6	--	--
NuTech 5H-112 RR/HX	5	29168	20.9	11	155.4	--	--
Kruger 6517TS	6	29148	24.1	48	155.3	--	--
High Yield Check 3	--	28762	20.1	34	153.5	85.5	119.5
Wyffels W7381	2, 7, 8, 9	30296	20.4	17	152.4	--	--
Wyffels W8251	2, 7, 8, 9	27416	21.4	40	151.8	137.1*	144.5
Mycogen 2D675	3, 5	28612	21.4	28	151.8	--	--
Kruger 6212TS	6	25904	20.6	37	149.9	--	--
Burrus 477T	4, 9, 10	29046	21.0	34	147.4	--	--
Mycogen 2W814	3, 5	30761	22.4	31	147.4	--	--
Bio Gene BG 83V08	8, 9	27333	20.8	59	145.0	--	--
Bio Gene BG 84V08	8, 9	29043	25.1	68	143.0	--	--
Dyna-Gro 57T61	8, 9	31302	22.0	48	141.7	--	--
NuTech 3T-009 VT3	9	29186	21.4	49	140.3	--	--
Dyna-Gro 57V05	8, 9	30158	22.1	52	137.0	--	--
Mycogen 2K718	3, 5	29494	23.6	58	136.3	--	--
NuTech 5H-114 RR/HX	5	28158	20.5	33	134.4	--	--
Kruger 9414HXT	6	28992	23.2	58	134.1	--	--
Kruger 6111VT3	6	29778	20.8	67	133.7	--	--
High Yield Check 2	--	28587	23.2	71	132.1	127.0	129.6
NC+ 5223RBD	6	29635	22.1	53	132.0	--	--
Lewis 5498 VT3	9	29419	22.0	44	129.5	--	--
NuTech 1X-511 HXT	5	29159	20.5	66	127.4	--	--
Burrus 452T	4, 9, 10	29667	22.7	41	126.1	--	--
Dyna-Gro 56B15	9	28495	17.9	53	125.5	--	--
NuTech 3T-616 VT3	9	29753	23.8	44	125.4	--	--
High Yield Check 1	--	28491	21.5	33	125.3	124.4	124.9
Fontanelle 7K456	9	28519	22.8	73	123.7	--	--
Bio Gene BG 82V08	8, 9	28250	22.0	39	122.9	--	--
Mycogen 2M748	3, 5	28623	21.1	47	118.2	--	--
NuTech 5H-112A RR/HX	5	30392	22.3	72	118.0	--	--
Kruger 6314TS	6	29190	21.3	55	118.0	--	--

TABLE 7. Continued.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
Dyna-Gro 57B10	9	30005	23.0	57	112.1	--	--
Kruger 6210TS	6	29277	22.5	87	111.9	--	--
Mycogen 2T787	3, 5	27632	23.3	69	84.7	--	--
Lewis 7198 VT3	9	30886	25.4	69	80.5	--	--
TEST AVERAGE		28885	21.5	43	143.8	121.7	132.8
L.S.D. AT .10		NS	2.8	38	27.8	25.7	
C.V. %		5.7	9.5		13.5	15.4	

-- Data not available.

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

NS Not Significant

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

TABLE 8. New Technology Corn Test

North/Central Region: Novelty, MO (Knox County)

Soil Type: Putman Silt Loam Soil Test: pH=5.6, OM=2.5%, P=94, K=622

European Corn Borer Rating: Damaged Plants= 80%, Tunnel Length/Plant= 2.25 in.

Rainfall: Apr.=4.2, May=5.6, June=2.8, July=1.9, Aug.=3.6 Total=18.1 in.

Irrigation: 0 in.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007 2006	bu/acre	
Midwest Seed 78134T	6	28711	16.3	2	169.9**	--	--
High Yield Check 3	--	29627	16.9	6	169.2*	236.4**	202.8
NuTech 5H-114 RR/HX	5	29935	15.8	5	168.5*	--	--
NC+ 5223RBD	6	29050	17.0	4	162.3*	--	--
Mycogen 2K718	3, 5	30086	16.5	17	160.8*	--	--
Kruger 6111VT3	6	29441	15.9	43	160.6*	--	--
Kruger 6413TS	6	30056	17.0	16	160.5*	--	--
Fontanelle 7K456	9	29050	16.1	27	159.9*	--	--
Mycogen 2W814	3, 5	28696	17.2	15	159.3*	--	--
Bio Gene BG 83V08	8, 9	29072	17.6	32	158.3*	--	--
Crow's 4984T	6	29923	17.2	1	157.7*	--	--
Wyffels W7381	2, 7, 8, 9	29716	17.0	36	157.6*	--	--
NuTech 5H-112 RR/HX	5	29142	16.8	10	157.4*	--	--
Kruger 9414HXT	6	30196	17.4	13	155.0*	--	--
Mycogen 2M748	3, 5	28298	16.4	2	154.3*	--	--
NuTech 5H-112A RR/HX	5	29569	17.4	9	153.3*	--	--
Lewis 5498 VT3	9	29503	15.6	19	153.0*	--	--
NuTech 3T-808 VT3	9	28155	17.3	32	153.0*	--	--
NuTech 1X-511 HXT	5	30077	17.2	10	152.2*	--	--
Kruger 6212TS	6	27867	17.6	9	150.8*	--	--
Mycogen 2Y737	3, 5	28369	18.0	3	150.6*	--	--
Burrus 477T	4, 9, 10	29120	17.2	31	150.5*	--	--
Dyna-Gro 57T61	8, 9	30347	16.2	27	150.0*	--	--
Bio Gene BG 84V08	8, 9	29075	17.6	37	149.4*	--	--
Dyna-Gro 57B10	9	29363	17.6	37	146.0	--	--
High Yield Check 2	--	29249	17.6	33	144.8	166.6	155.7
Wyffels W8251	2, 7, 8, 9	29721	17.9	33	144.4	203.4	173.9
NuTech 3P-910A RR/YGPL	9	28462	16.2	14	144.4	--	--
Kruger 6011TS	6	29320	16.3	12	143.5	--	--
Fontanelle 7K733	9	28671	16.6	17	143.3	223.6*	183.5
Bio Gene BG 82V08	8, 9	29100	17.5	36	142.5	--	--
Kruger 6517TS	6	29499	17.7	53	141.6	--	--
Kruger 6314TS	6	28618	17.7	38	140.6	--	--
Dyna-Gro 56B15	9	29082	13.0	13	140.0	--	--
Fontanelle 8K339	9	29474	17.1	27	139.9	--	--
NuTech 3T-310 VT3	9	29656	17.1	26	139.7	--	--
Mycogen 2T787	3, 5	30230	17.7	38	139.6	--	--
Dyna-Gro 57V05	8, 9	27718	17.9	26	138.2	--	--
Burrus X494T	4, 9, 10	28751	16.1	15	138.1	--	--
Kruger 6210TS	6	29130	16.3	46	138.0	--	--
Mycogen 2D675	3, 5	28086	15.0	2	137.9	--	--
NC+ 5453VT3	6	28307	17.5	55	136.2	--	--
Lewis 7198 VT3	9	29391	17.6	52	132.8	--	--
NuTech 3T-616 VT3	9	29899	17.7	52	128.5	--	--
Burrus 452T	4, 9, 10	28593	16.2	57	127.0	--	--

TABLE 8. Continued.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
High Yield Check 1	--	29948	17.6	46	123.5	226.8*	175.2
NuTech 3T-009 VT3	9	29215	16.2	45	122.9	--	--
Crow's 5304VT3	6	28618	18.0	59	121.3	--	--
Midwest Seed 80404VT3	6	28893	18.0	59	108.9	--	--
TEST AVERAGE		29185	16.9	27	146.5	198.7	172.6
L.S.D. AT .10		NS	0.0	21	21.2	23.0	
C.V. %		4.1	4.2		10.3	7.7	

-- Data not available.

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

NS Not Significant

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

TABLE 9. New Technology Corn Test

North/Central Region: Columbia, MO (Boone County)

Soil Type: Mexico Silt Loam Soil Test: pH=6.4, OM=1.8%, P=78, K=458

European Corn Borer Rating: Damaged Plants= 45%, Tunnel Length/Plant= 0.66 in.

Rainfall: Apr.=3.3, May=3.4, June=3.0, July=2.0, Aug.=1.6 Total=13.3 in.

Irrigation: 0 in.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007 2006	bu/acre-----	
Fontanelle 8K339	9	30098	12.2	1	199.0**	--	--
Kruger 6413TS	6	26372	13.9	0	197.7*	--	--
NC+ 5453VT3	6	27686	14.9	2	197.4*	--	--
Midwest Seed 80404VT3	6	26268	17.0	0	193.9*	--	--
Bio Gene BG 84V08	8, 9	27708	15.8	15	193.6*	--	--
Kruger 6210TS	6	28250	14.2	0	189.0*	--	--
Mycogen 2K718	3, 5	28385	15.0	21	187.4*	--	--
Bio Gene BG 83V08	8, 9	27704	13.9	23	187.2*	--	--
Crow's 5304VT3	6	25803	15.1	0	186.8*	--	--
Dyna-Gro 57V05	8, 9	27547	16.0	12	186.0*	--	--
Burrus X494T	4, 9, 10	24398	12.8	0	185.6*	--	--
NC+ 5223RBD	6	25400	16.3	0	182.9*	--	--
Fontanelle 7K456	9	27908	14.6	3	182.4*	--	--
Kruger 6212TS	6	27121	12.9	0	181.2*	--	--
Mycogen 2M748	3, 5	27061	14.0	0	181.0	--	--
NuTech 5H-112A RR/HX	5	28475	15.5	1	180.5	--	--
Wyffels W7381	2, 7, 8, 9	27003	14.3	12	180.1	--	--
Dyna-Gro 57T61	8, 9	28126	12.2	1	180.1	--	--
NuTech 5H-114 RR/HX	5	26837	13.9	0	179.9	--	--
Dyna-Gro 56B15	9	26960	12.2	0	178.9	--	--
High Yield Check 1	--	24438	16.0	0	178.4	138.1	158.3
Mycogen 2D675	3, 5	26784	13.2	0	178.1	--	--
NuTech 5H-112 RR/HX	5	28274	14.8	18	177.7	--	--
Crow's 4984T	6	27331	15.4	0	177.2	--	--
Midwest Seed 78134T	6	25952	15.6	0	176.8	--	--
Mycogen 2W814	3, 5	25812	15.6	0	176.1	--	--
Kruger 6111VT3	6	29750	12.5	37	173.3	--	--
High Yield Check 3	--	24872	12.9	4	172.4	137.6	155.0
Kruger 6517TS	6	25883	16.2	73	172.3	--	--
Mycogen 2T787	3, 5	26312	13.0	30	172.1	--	--
High Yield Check 2	--	26855	12.8	10	172.1	149.3	160.7
Bio Gene BG 82V08	8, 9	25342	14.4	25	171.7	--	--
NuTech 3T-009 VT3	9	27492	13.5	41	171.1	--	--
Dyna-Gro 57B10	9	23899	13.7	31	170.7	--	--
Lewis 5498 VT3	9	28991	12.1	0	170.1	--	--
Kruger 9414HXT	6	27961	12.9	18	170.1	--	--
NuTech 3T-616 VT3	9	28284	16.5	57	169.6	--	--
NuTech 3T-808 VT3	9	26208	13.1	8	168.7	--	--
NuTech 3P-910A RR/YGPL	9	24184	12.5	0	168.3	--	--
Fontanelle 7K733	9	26867	13.8	27	167.2	157.5*	162.4
Wyffels W8251	2, 7, 8, 9	26280	13.5	4	166.5	116.1	141.3
Kruger 6314TS	6	27320	12.7	10	166.0	--	--
Kruger 6011TS	6	26992	13.1	2	165.8	--	--
NuTech 1X-511 HXT	5	28030	11.8	0	165.8	--	--
Lewis 7198 VT3	9	27435	16.2	27	165.1	--	--

TABLE 9. Continued.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
NuTech 3T-310 VT3	9	26531	12.8	0	164.5	--	--
Burrus 452T	4, 9, 10	26629	11.9	42	161.5	--	--
Burrus 477T	4, 9, 10	26826	12.2	1	156.3	--	--
Mycogen 2Y737	3, 5	26150	13.4	27	149.4	--	--
TEST AVERAGE		26914	14.0	12	176.4	147.7	162.1
L.S.D. AT .10		2440	1.6	25	17.9	20.7	
C.V. %		6.6	8.3		7.2	9.8	

-- Data not available.

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

TABLE 10. Performance Summary for New Technology Hybrids evaluated at Three North/Central Missouri locations (Albany, Novelty, Columbia) during 2007.

<u>Albany</u> Planted: 06-05 Harvested: 10-15,23 Growing Season Rainfall: Irrigation: 0 in.	<u>Novelty</u> Planted: 05-24 Harvested: 10-4 Growing Season Rainfall: 18.1 in. Irrigation: 0 in.	<u>Columbia</u> Planted: 05-17 Harvested: 09-18 Growing Season Rainfall: 13.3 in. Irrigation: 0 in.
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Brand-Hybrid	Yield (Bu/Acre)			
	Albany	Novelty	Columbia	Mean
New Technology				
Midwest Seed 78134T	173.9*	169.9**	176.8	173.5**
Kruger 6413TS	161.2	160.5*	197.7*	173.1*
Fontanelle 8K339	176.7*	139.9	199.0**	171.9*
NC+ 5453VT3	179.1*	136.2	197.4*	170.9*
Fontanelle 7K733	188.3*	143.3	167.2	166.3*
Crow's 4984T	163.4*	157.7*	177.2	166.1*
High Yield Check 3	153.5	169.2*	172.4	165.0*
Kruger 6011TS	183.9*	143.5	165.8	164.4*
Midwest Seed 80404VT3	190.0**	108.9	193.9*	164.3*
Bio Gene BG 83V08	145.0	158.3*	187.2*	163.5*
NuTech 5H-112 RR/HX	155.4	157.4*	177.7	163.5*
Wyffels W7381	152.4	157.6*	180.1	163.4*
NuTech 3T-808 VT3	166.5*	153.0*	168.7	162.7*
Bio Gene BG 84V08	143.0	149.4*	193.6*	162.0*
Mycogen 2K718	136.3	160.8*	187.4*	161.5*
Mycogen 2Y737	183.0*	150.6*	149.4	161.0*
Burrus X494T	159.1	138.1	185.6*	160.9*
Mycogen 2W814	147.4	159.3*	176.1	160.9*
NuTech 5H-114 RR/HX	134.4	168.5*	179.9	160.9*
Kruger 6212TS	149.9	150.8*	181.2*	160.6*
Crow's 5304VT3	169.3*	121.3	186.8*	159.1
NC+ 5223RBD	132.0	162.3*	182.9*	159.1
NuTech 3T-310 VT3	167.9*	139.7	164.5	157.4
Dyna-Gro 57T61	141.7	150.0*	180.1	157.3
NuTech 3P-910A RR/YGPL	158.6	144.4	168.3	157.1
Kruger 6517TS	155.3	141.6	172.3	156.4
Mycogen 2D675	151.8	137.9	178.1	155.9
Kruger 6111VT3	133.7	160.6*	173.3	155.9
Fontanelle 7K456	123.7	159.9*	182.4*	155.3
Wyffels W8251	151.8	144.4	166.5	154.2
Dyna-Gro 57V05	137.0	138.2	186.0*	153.7
Kruger 9414HXT	134.1	155.0*	170.1	153.1
Burrus 477T	147.4	150.5*	156.3	151.4
Mycogen 2M748	118.2	154.3*	181.0	151.2
Lewis 5498 VT3	129.5	153.0*	170.1	150.9
NuTech 5H-112A RR/HX	118.0	153.3*	180.5	150.6
High Yield Check 2	132.1	144.8	172.1	149.7
NuTech 1X-511 HXT	127.4	152.2*	165.8	148.5
Dyna-Gro 56B15	125.5	140.0	178.9	148.1
Kruger 6210TS	111.9	138.0	189.0*	146.3
Bio Gene BG 82V08	122.9	142.5	171.7	145.7
NuTech 3T-009 VT3	140.3	122.9	171.1	144.8
Dyna-Gro 57B10	112.1	146.0	170.7	142.9
High Yield Check 1	125.3	123.5	178.4	142.4
Kruger 6314TS	118.0	140.6	166.0	141.5
NuTech 3T-616 VT3	125.4	128.5	169.6	141.2
Burrus 452T	126.1	127.0	161.5	138.2
Mycogen 2T787	84.7	139.6	172.1	132.1

Table 10. Continued.

Brand-Hybrid	Yield (Bu/Acre)			Mean
	Albany	Novelty	Columbia	
NuTech 3T-616 VT3	125.4	128.5	169.6	141.2
Burrus 452T	126.1	127.0	161.5	138.2
Mycogen 2T787	84.7	139.6	172.1	132.1
Lewis 7198 VT3	80.5	132.8	165.1	126.1
TEST AVERAGE	143.8	146.5	176.4	155.6
L.S.D. AT .10	27.8	21.2	17.9	12.9
C.V. %	13.5	10.3	7.2	10.3

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

Note: To view seed treatments for these hybrids refer to the location table or the characteristics chart.

Central Region Crop Management Summary

There are five locations in the Central Region for the Non-Irrigated Corn Test, one location for the New Technology Corn Test, and two locations for the Irrigated Corn Test. They are located in counties where a significant number of acres of corn are grown according to the Missouri Agricultural Statistics Service. Cultural practices vary slightly between locations, but tend to reflect those followed by farmers in the area.

Rainfall was good for most of central Missouri this spring and early summer. During July and August, rainfall was about half of what is normal, but most yields remained above average in spite of this shortage. At Truxton, the distribution of precipitation was erratic with several periods of three weeks or more between significant rainfall events. Yields there suffered significantly, averaging only 73.7 bushels/acre. Truxton and Laddonia also experienced high winds late in the growing season which resulted in extensive lodging. European corn borer pressure was heavy in the Central Region this year.

Climatological information for the growing season (April 1 – August 31) for the Central Region is summarized below and cultural practices for each site are listed in Table 11.

Average temperature = 69.7 degrees, 1.2 degrees above normal

Average precipitation = 17.1", 2.9" below normal

Growing degree days = 3191 days, 273 days above normal

Table 11. Central Region Crop Management Summary

Location	Planting date	Harvest date	Fertilizer			Tillage	Herbicide		
			N	P ₂ O ₅	K ₂ O		Pre	Post	Insecticide
<i>Non-Irrigated Corn Tests</i>									
Henrietta	04-17	09-11	220	30	30	Conv.	Dual II Magnum, Aatrex, Callisto, Princep		Force 3G
Marshall	04-18	09-13,14	155	40	85	No-till	Dual II Magnum, Aatrex, Callisto, Princep	Callisto	Force 3G
Columbia	05-17	09-18	210	46	60	No-till	Dual II Magnum, Aatrex, Callisto, Princep, Roundup WeatherMax		Force 3G
Truxton	05-14	09-7,10	175	125	125	Conv.	Dual II Magnum, Aatrex, Callisto, Princep		Warrior
Annada	05-10	10-9	250	0	47	Conv.	Dual II Magnum, Aatrex, Callisto, Princep		Force 3G
<i>Irrigated Corn Tests</i>									
Columbia	05-16	10-11	300	46	60	No-till	Dual II Magnum, Aatrex, Callisto, Princep, Roundup WeatherMax	Callisto, Accent	Force 3G
Laddonia	04-23	09-04	300	120	160	Conv.	Dual II Magnum, Aatrex, Callisto, Princep		Force 3G

TABLE 12. Non-Irrigated Corn Test

Central Region: Henrietta, MO (Ray County)

Soil Type: Haynie Silt Loam Soil Test: pH=6.0, OM=2.0%, P=72, K=540

European Corn Borer Rating: Damaged Plants= 70%, Tunnel Length/Plant= 0.75 in.

Rainfall: Apr.=3.4, May=8.0, June=8.1, July=0.8, Aug.=3.2 Total=23.5 in.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007 2006	bu/acre	
Garst 8294YG1/IT	5	27917	14.4	11	251.9**	223.7*	237.8
Kruger 8112HX	6	29893	12.9	7	251.9**	--	--
Kruger 5013YGCB	6	31405	13.5	6	247.9*	--	--
Lewis 5365 CB/RR	9	29238	11.8	1	246.8*	--	--
Dyna-Gro 57F87	9	29172	14.4	10	245.9*	--	--
AgriGold A6633BtRR	9	29759	14.4	42	245.3*	--	--
Kruger 5116YGCB	6	30602	12.3	6	245.0*	--	--
DEKALB DKC63-46 (RR2/YGCB)	9	29651	12.9	13	242.8*	226.9*	234.9
MFA MORCORN MC4483 RR/CB	6	29198	14.1	15	242.8*	--	--
Fontanelle 8B467	9	30843	12.5	5	241.2*	--	--
Garst 8456CB/LL	5	28539	11.8	5	239.9*	--	--
Pioneer 33D13 (HX1, LL)	2, 7, 8, 9	29330	13.3	11	239.9*	193.8	216.9
Pioneer 34P89 (HX1,LL)	2, 7, 8, 9	29033	13.2	3	239.7*	196.9	218.3
DEKALB DKC61-73 (RR2/YGCB)	9	29786	12.4	8	238.5*	--	--
Kruger 8414HX	6	30037	13.9	9	238.2*	231.9*	235.1
Stone 8K339	9	30538	11.5	12	237.5*	--	--
LG 2614 BtRR	NA	31994	12.5	11	237.0*	--	--
Kruger 2517RR/YGCB	6	29333	14.2	7	236.6*	205.4	221.0
Midland MG 417BT	9	29918	11.7	28	236.1*	--	--
Fontanelle 8N206	9	29442	12.3	7	235.8*	--	--
NK Brand N71-L7	6	29381	12.0	6	235.7*	--	--
MFA MORCORN MC4072 CB	6	29562	12.7	6	235.7*	--	--
Midland MG 448BT/RR	9	29082	12.5	11	235.4*	--	--
Kruger 5010YGCB	6	29960	13.0	4	235.3*	--	--
MFA MORCORN MC4083 RR/CB	6	29947	12.5	9	235.0*	--	--
Fielder's Choice NG 6810	9	30517	13.8	10	235.0*	--	--
Midland MG 7A58BT/RR	9	28984	15.5	14	234.9*	216.1*	225.5
Kruger 2314RR/YGCB	6	30106	13.2	23	234.7*	--	--
Lewis 7044 CB	9	30684	15.0	15	234.6*	231.2*	232.9
Merschman M-512C-3	4, 9, 10	29030	13.6	20	234.0*	--	--
MFA MORCORN MC4183 RR/CB	6	29812	11.3	9	233.7*	--	--
Midland MG 436BT	9	28512	11.9	9	233.3*	212.0*	222.7
Wyffels W7383	2, 7, 8, 9	29269	12.5	10	233.2*	209.8*	221.5
Kruger 2212RR/YGCB	6	30265	13.5	7	233.1*	--	--
Garst 8452CB/LL	5	28116	12.9	4	232.9*	212.4*	222.7
Kruger 8616HX	6	29224	13.7	13	232.8*	219.8*	226.3
NK Brand N76-D3	6	28938	14.4	8	231.8	233.8**	232.8
Croplan Genetics 7505 CR	5	30522	12.6	4	231.6	--	--
DEKALB RX715RR2/YGCB	9	28849	12.4	21	231.1	221.8*	226.5
Croplan Genetics 731 HX/L	5	29898	14.1	16	230.9	--	--
Kruger 8016HX	6	27966	13.7	13	230.9	--	--
Burrus 572RWR	4, 9, 10	31101	12.0	11	230.6	215.3*	223.0
Hubner H5808PL	9	29557	14.2	8	230.2	--	--
Merschman M-810H-3	8, 9, 10	27590	11.7	20	230.1	--	--
Stone 7N412	9	29713	12.9	21	229.9	217.0*	223.5

TABLE 12. Continued.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
Crow's 4983S	6	29775	13.0	4	229.4	--	--
Pioneer 34A16 (HX1/LL)	2, 7, 8, 9	30327	12.5	1	229.4	207.3	218.4
Crow's 4842 S	6	30913	12.4	30	229.3	--	--
Wyffels W8365	2, 7, 8, 9	29112	12.3	7	229.1	--	--
Kruger 5514YGCB	6	28710	12.7	12	228.8	183.6	206.2
AgriGold A6594BtRR	9	28098	13.2	26	228.6	--	--
Merschman M-612D-3	4, 9, 10	29657	12.6	7	228.3	--	--
DEKALB RX785RR2/YGCB	9	29985	11.9	16	228.1	189.1	208.6
Merschman M-711E-3	4, 9, 10	29256	11.5	7	227.7	--	--
Kruger 2114RR/YGCB	6	29518	13.8	12	227.1	--	--
LG 2642 BtRR	NA	29702	13.6	2	225.8	--	--
NC+ 4445RB	6	28984	12.5	21	225.7	--	--
Dyna-Gro 57F37	9	28737	12.8	26	225.3	191.9	208.6
Kruger 2613RR/YGCB	6	30380	11.6	14	225.1	--	--
NK Brand N68-B8	6	29367	11.4	2	224.4	217.7*	221.1
Lewis 4886 PL	9	29114	11.7	6	223.7	216.6*	220.2
Midwest Seed 77123S	6	29952	12.8	18	223.7	--	--
Kruger 1015RR/YGCB	6	31245	12.4	12	223.6	--	--
Lewis 6178 RW/RR	9	29021	11.9	17	223.4	--	--
MFA MORCORN MC4283 RR/CB	6	28862	13.3	11	223.1	--	--
Garst 8353CB/LL	5	30587	13.7	11	222.5	--	--
Midland MG 428BT/LL	9	29877	12.4	3	222.4	--	--
Midwest Seed 78132S	6	29587	13.4	0	221.5	--	--
Pioneer 33K40 (HX1, LL)	2, 7, 8, 9	30173	13.6	2	221.4	215.6*	218.5
Garst 8535YG1/IT	5	29151	11.4	8	221.3	--	--
Fontanelle 8N762	9	30110	13.4	11	221.1	--	--
Kruger 0115	6	28716	12.6	5	219.0	--	--
DEKALB DKC63-81 (RR2/YGCB)	9	30310	12.4	19	217.7	--	--
Kruger 5014YGCB	6	28058	12.9	23	217.4	--	--
Midland MG 617BT	9	27737	12.0	9	217.1	216.3*	216.7
DEKALB DKC64-23 (RR2/YGRW)	9	30073	12.1	4	217.0	--	--
AgriGold A6639RR	9	29242	13.5	3	216.5	--	--
Fielder's Choice NG 6795	9	29333	12.3	8	215.8	--	--
Midland MG 5575BT	9	28005	13.0	19	214.4	--	--
NC+ 5224RB	6	30049	12.5	0	214.2	--	--
Dyna-Gro 57F06	9	26244	11.8	3	214.1	223.6*	218.9
Croplan Genetics 6818 RB	5	30238	14.6	27	212.5	--	--
Stone 7S233	9	28798	11.1	12	211.6	--	--
Hubner H5646WR	9	26125	11.9	5	206.9	--	--
Merschman M-810B-2	8, 9, 10	29863	11.2	1	197.1	--	--
TEST AVERAGE		29473	12.8	11	229.6	206.6	218.1
L.S.D. AT .10		1820	0.7	12	19.8	25.1	
C.V. %		4.5	4.2		6.1	8.6	

-- Data not available.

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

TABLE 13. Non-Irrigated Corn Test

Central Region: Marshall, MO (Saline County)

Soil Type: Joy Silt Loam Soil Test: pH=6.5, OM=2.8%, P=52, K=338

European Corn Borer Rating: Damaged Plants= 74%, Tunnel Length/Plant= 2.1 in.

Rainfall: Apr.=2.8, May=8.5, June=7.2, July=1.0, Aug.=3.9 Total=23.4 in.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
Pioneer 33K40 (HX1, LL)	2, 7, 8, 9	30990	13.8	0	238.7**	170.0	204.4
Fontanelle 8B467	9	29644	13.5	0	234.1*	--	--
Kruger 5116YGCB	6	30601	12.5	0	232.1*	--	--
Kruger 2212RR/YGCB	6	30939	14.0	0	231.8*	--	--
Kruger 5514YGCB	6	31496	12.9	0	226.4*	179.5*	203.0
Croplan Genetics 7505 CR	5	30925	14.1	0	226.3*	--	--
Midland MG 617BT	9	28405	13.2	0	225.9*	174.0*	200.0
DEKALB DKC61-73 (RR2/YGCB)	9	29734	12.6	0	224.0*	--	--
Kruger 0115	6	29382	14.1	0	223.8*	--	--
Kruger 5010YGCB	6	30000	12.9	1	223.6*	--	--
Merschman M-612D-3	4, 9, 10	30780	12.6	0	222.7*	--	--
Fielder's Choice NG 6810	9	29511	13.5	0	221.5	--	--
Burrus 572RWR	4, 9, 10	29712	11.9	3	221.3	141.8	181.6
AgriGold A6633BtRR	9	30887	14.8	0	220.6	--	--
AgriGold A6594BtRR	9	30202	14.0	0	219.0	--	--
Kruger 1015RR/YGCB	6	30375	13.1	0	218.9	--	--
Garst 8294YG1/IT	5	28887	15.4	1	218.8	159.2	189.0
Croplan Genetics 6818 RB	5	30639	15.7	3	218.6	--	--
DEKALB DKC63-46 (RR2/YGCB)	9	29743	13.2	0	218.1	173.9*	196.0
Lewis 6178 RW/RR	9	29136	12.4	4	217.5	--	--
Midland MG 448BT/RR	9	30324	12.5	1	216.9	--	--
Crow's 4983S	6	29633	13.5	0	216.6	--	--
Lewis 7044 CB	9	29732	15.1	0	216.5	163.2	189.9
DEKALB DKC63-81 (RR2/YGCB)	9	30770	12.7	0	216.2	--	--
Dyna-Gro 57F87	9	27799	14.9	1	216.1	--	--
Kruger 2613RR/YGCB	6	28287	12.2	0	215.8	--	--
Merschman M-512C-3	4, 9, 10	29519	13.3	3	215.0	--	--
LG 2614 BtRR	NA	29115	12.9	5	215.0	--	--
Midland MG 417BT	9	28707	13.2	1	214.1	--	--
Midwest Seed 78132S	6	29905	13.5	0	214.0	--	--
Midland MG 5575BT	9	26626	12.9	0	213.3	--	--
DEKALB RX715RR2/YGCB	9	30450	13.0	5	213.3	182.6*	198.0
Lewis 5365 CB/RR	9	31080	13.4	0	213.2	--	--
Stone 7N412	9	30695	13.4	2	212.2	173.8*	193.0
Garst 8456CB/LL	5	29947	12.1	0	212.2	--	--
Garst 8353CB/LL	5	29782	13.9	1	211.8	--	--
Pioneer 34P89 (HX1,LL)	2, 7, 8, 9	27867	13.3	0	211.8	175.0*	193.4
Kruger 2314RR/YGCB	6	29791	13.2	4	211.7	--	--
Pioneer 34A16 (HX1/LL)	2, 7, 8, 9	30434	13.1	0	211.7	180.4*	196.1
Fontanelle 8N206	9	29487	12.3	1	211.6	--	--
NC+ 5224RB	6	29547	13.6	0	211.5	--	--
Lewis 4886 PL	9	28771	12.8	0	211.3	171.2	191.3
Kruger 5013YGCB	6	30275	13.6	0	211.0	--	--
MFA MORCORN MC4072 CB	6	30271	12.4	1	210.9	--	--
Merschman M-711E-3	4, 9, 10	28877	12.4	0	210.7	--	--

TABLE 13. Continued.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
NK Brand N68-B8	6	30119	12.2	0	210.4	152.9	181.7
Midland MG 7A58BT/RR	9	27087	15.1	0	210.3	153.6	182.0
Kruger 8112HX	6	29280	13.4	0	210.2	--	--
Stone 8K339	9	30069	12.3	0	210.1	--	--
Midwest Seed 77123S	6	30067	12.9	6	209.8	--	--
LG 2642 BtRR	NA	28834	14.8	0	209.8	--	--
MFA MORCORN MC4183 RR/CB	6	29099	12.5	0	209.7	--	--
Kruger 2517RR/YGCB	6	28917	14.4	1	209.1	127.2	168.2
NC+ 4445RB	6	28492	12.6	4	208.3	--	--
MFA MORCORN MC4483 RR/CB	6	29397	14.0	4	208.2	--	--
DEKALB RX785RR2/YGCB	9	28982	12.1	1	207.0	178.1*	192.6
Midland MG 436BT	9	27790	12.8	0	206.2	182.2*	194.2
Merschman M-810H-3	8, 9, 10	28359	12.3	1	206.0	--	--
Croplan Genetics 731 HX/L	5	29603	14.5	3	204.9	--	--
Pioneer 33D13 (HX1, LL)	2, 7, 8, 9	30135	13.0	0	204.9	156.4	180.7
MFA MORCORN MC4283 RR/CB	6	29116	13.5	2	204.8	--	--
Dyna-Gro 57F37	9	30553	13.6	2	204.3	132.9	168.6
Hubner H5808PL	9	27171	15.2	0	204.3	--	--
Midland MG 428BT/LL	9	28860	12.6	0	204.3	--	--
Kruger 2114RR/YGCB	6	29663	14.2	2	203.0	--	--
Fontanelle 8N762	9	30356	14.0	0	203.0	--	--
Fielder's Choice NG 6795	9	30216	13.2	1	202.3	--	--
Wyffels W7383	2, 7, 8, 9	30600	12.9	0	201.1	141.4	171.3
Garst 8535YG1/IT	5	29327	12.5	0	199.8	--	--
AgriGold A6639RR	9	28342	14.0	0	199.4	--	--
Crow's 4842 S	6	29446	12.6	6	199.4	--	--
MFA MORCORN MC4083 RR/CB	6	30255	12.8	0	199.3	--	--
DEKALB DKC64-23 (RR2/YGRW)	9	28789	12.6	1	198.9	--	--
Kruger 5014YGCB	6	30131	14.0	0	198.4	--	--
Garst 8452CB/LL	5	29687	12.9	0	198.2	148.6	173.4
Stone 7S233	9	27365	11.5	0	198.1	--	--
Kruger 8616HX	6	30150	14.3	1	197.9	185.0*	191.5
Wyffels W8365	2, 7, 8, 9	29750	12.5	0	197.9	--	--
NK Brand N71-L7	6	29568	12.5	0	197.2	--	--
Kruger 8414HX	6	29669	13.8	1	192.5	164.8	178.7
Kruger 8016HX	6	28797	13.8	3	191.4	--	--
NK Brand N76-D3	6	30078	15.8	0	190.1	183.7*	186.9
Merschman M-810B-2	8, 9, 10	29769	12.4	1	186.1	--	--
Dyna-Gro 57F06	9	20739	12.6	1	182.1	152.0	167.1
Hubner H5646WR	9	23367	13.3	0	181.7	--	--
TEST AVERAGE		29384	13.3	1	210.3	158.7	184.5
L.S.D. AT .10		1561	0.7	3	16.2	21.8	
C.V. %		3.7	3.7		5.4	9.8	

-- Data not available.

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

TABLE 14. Non-Irrigated Corn Test

Central Region: Columbia, MO (Boone County)

Soil Type: Mexico Silt Loam Soil Test: pH=6.4, OM=1.8%, P=78, K=458

European Corn Borer Rating: Damaged Plants= 45%, Tunnel Length/Plant= 0.66 in.

Rainfall: Apr.=3.3, May=3.4, June=3.0, July=2.0, Aug.=1.6 Total=13.3 in.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
Kruger 5010YGCB	6	27518	12.5	0	205.8**	--	--
Pioneer 33K40 (HX1, LL)	2, 7, 8, 9	26961	17.1	0	195.3*	140.8*	168.1
DEKALB DKC61-73 (RR2/YGCB)	9	25256	13.4	0	193.9*	--	--
NC+ 5224RB	6	26653	16.3	0	193.8*	--	--
Lewis 5365 CB/RR	9	28132	13.4	1	193.6*	--	--
Midwest Seed 78132S	6	28683	16.1	2	192.7*	--	--
Garst 8353CB/LL	5	25099	13.0	0	191.8*	--	--
Kruger 0115	6	24790	15.2	0	191.1*	--	--
Wyffels W7383	2, 7, 8, 9	26814	14.2	6	189.9*	135.2	162.6
Pioneer 34A16 (HX1/LL)	2, 7, 8, 9	27616	14.5	0	189.9*	140.2*	165.1
AgriGold A6639RR	9	25395	17.3	5	189.0*	--	--
Midland MG 7A58BT/RR	9	26292	16.0	29	188.9*	139.9*	164.4
Fontanelle 8N206	9	24866	13.9	0	187.2	--	--
Garst 8456CB/LL	5	27863	12.5	0	186.8	--	--
LG 2642 BtRR	NA	26719	15.9	0	186.7	--	--
Stone 7N412	9	26423	13.6	0	186.4	135.8	161.1
Dyna-Gro 57F87	9	26071	17.0	9	186.3	--	--
DEKALB RX785RR2/YGCB	9	23360	13.7	0	185.8	154.9*	170.4
DEKALB DKC63-46 (RR2/YGCB)	9	25934	12.5	0	185.8	135.0	160.4
Fielder's Choice NG 6810	9	27135	12.6	0	185.3	--	--
Pioneer 34P89 (HX1,LL)	2, 7, 8, 9	22326	13.9	1	184.7	140.2*	162.5
Lewis 7044 CB	9	27888	16.7	23	184.5	151.3*	167.9
Kruger 2613RR/YGCB	6	27359	12.3	2	184.1	--	--
Lewis 4886 PL	9	26131	13.4	14	184.1	149.4*	166.8
NK Brand N76-D3	6	26883	14.6	0	183.9	143.8*	163.9
DEKALB RX715RR2/YGCB	9	24756	15.3	0	183.7	137.4	160.6
Fontanelle 8N762	9	27273	15.2	0	183.7	--	--
Garst 8452CB/LL	5	25369	13.1	0	183.7	152.9*	168.3
Kruger 5013YGCB	6	25108	12.4	1	183.5	--	--
Midland MG 417BT	9	27115	12.0	1	183.3	--	--
Fontanelle 8B467	9	26601	13.3	1	182.7	--	--
LG 2614 BtRR	NA	24479	13.1	0	182.3	--	--
Pioneer 33D13 (HX1, LL)	2, 7, 8, 9	28353	14.2	0	181.9	137.7	159.8
Kruger 5514YGCB	6	28434	11.4	1	181.6	131.5	156.6
Kruger 5014YGCB	6	27191	14.3	2	181.6	--	--
Stone 7S233	9	25227	12.7	1	181.1	--	--
Croplan Genetics 7505 CR	5	27903	17.8	9	181.0	--	--
Burrus 572RWR	4, 9, 10	27405	15.2	0	181.0	149.0*	165.0
DEKALB DKC64-23 (RR2/YGRW)	9	25874	14.4	0	180.8	--	--
Kruger 8616HX	6	26944	12.6	11	180.3	138.2	159.3
Garst 8535YG1/IT	5	26169	12.3	2	180.2	--	--
Kruger 8112HX	6	26791	14.7	0	180.2	--	--
NK Brand N68-B8	6	27214	11.8	0	179.1	137.4	158.3
Stone 8K339	9	25101	12.3	1	179.0	--	--
Kruger 2517RR/YGCB	6	26155	15.3	10	179.0	143.0*	161.0

TABLE 14. Continued.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007 2006	bu/acre	
Merschman M-711E-3	4, 9, 10	25030	13.9	1	178.7	--	--
MFA MORCORN MC4083 RR/CB	6	27429	12.6	19	178.3	--	--
Kruger 2212RR/YGCB	6	25435	12.0	0	177.8	--	--
Kruger 1015RR/YGCB	6	28313	12.7	3	177.6	--	--
Kruger 2114RR/YGCB	6	27006	15.7	2	177.5	--	--
Kruger 5116YGCB	6	25618	13.7	2	176.7	--	--
Kruger 8414HX	6	27581	12.0	3	176.7	145.5*	161.1
Wyffels W8365	2, 7, 8, 9	25834	14.7	0	176.6	--	--
Midland MG 436BT	9	26511	12.6	25	176.6	140.9*	158.8
DEKALB DKC63-81 (RR2/YGCB)	9	25435	12.2	2	176.3	--	--
Hubner H5646WR	9	22657	14.4	2	175.3	--	--
Dyna-Gro 57F06	9	23301	11.7	3	175.3	145.6*	160.5
MFA MORCORN MC4183 RR/CB	6	26349	13.6	4	175.2	--	--
Crow's 4842 S	6	25287	15.4	0	174.7	--	--
NK Brand N71-L7	6	25775	13.7	1	174.5	--	--
Hubner H5808PL	9	24672	16.3	12	174.5	--	--
Midland MG 448BT/RR	9	27723	11.6	12	173.5	--	--
Merschman M-612D-3	4, 9, 10	25755	12.4	2	173.3	--	--
Merschman M-810B-2	8, 9, 10	25851	11.7	1	173.2	--	--
AgriGold A6594BtRR	9	26646	12.9	6	173.2	--	--
Crow's 4983S	6	26031	15.8	1	173.2	--	--
Midland MG 617BT	9	23820	12.5	0	172.9	126.2	149.6
NC+ 4445RB	6	24519	15.3	2	172.7	--	--
Midland MG 5575BT	9	22737	12.9	0	170.0	--	--
Kruger 2314RR/YGCB	6	26781	12.9	24	169.2	--	--
MFA MORCORN MC4072 CB	6	28252	11.8	4	169.1	--	--
Croplan Genetics 6818 RB	5	25554	17.6	13	168.7	--	--
Kruger 8016HX	6	27920	16.2	2	166.8	--	--
Croplan Genetics 731 HX/L	5	26351	13.7	2	166.3	--	--
Merschman M-512C-3	4, 9, 10	24345	13.8	0	166.3	--	--
Garst 8294YG1/IT	5	25525	16.2	0	165.6	128.8	147.2
Midland MG 428BT/LL	9	24695	11.3	1	163.6	--	--
AgriGold A6633BtRR	9	25547	11.0	27	161.6	--	--
Dyna-Gro 57F37	9	27128	10.9	3	161.4	126.4	143.9
MFA MORCORN MC4283 RR/CB	6	24534	13.6	31	160.6	--	--
MFA MORCORN MC4483 RR/CB	6	24754	14.3	14	159.7	--	--
Lewis 6178 RW/RR	9	26727	11.9	1	159.4	--	--
Midwest Seed 77123S	6	26051	14.0	5	158.8	--	--
Merschman M-810H-3	8, 9, 10	23687	13.0	0	156.9	--	--
Fielder's Choice NG 6795	9	24691	16.5	1	153.5	--	--
TEST AVERAGE		26065	13.8	4	178.5	138.6	158.6
L.S.D. AT .10		2591	1.4	15	17.8	15.1	
C.V. %		7.0	7.2		7.0	7.8	

-- Data not available.

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

TABLE 15. Non-Irrigated Corn Test

Central Region: Truxton, MO (Montgomery County)

Soil Type: Mexico Silt Loam Soil Test: pH=5.2, OM=2.4%, P=100, K=314

European Corn Borer Rating: Damaged Plants= 86%, Tunnel Length/Plant= 0.875 in.

Rainfall: Apr.=4.1, May=3.4, June=3.5, July=1.3, Aug.=1.4 Total=13.7 in.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007 2006 -----bu/acre-----		
Garst 8535YG1/IT	5	29443	13.7	22	103.3**	--	--
Kruger 8112HX	6	26430	16.8	8	92.8	--	--
Kruger 0115	6	29287	18.1	0	92.4	--	--
NK Brand N71-L7	6	29179	12.8	24	91.0	--	--
AgriGold A6639RR	9	26088	18.6	5	88.8	--	--
Garst 8452CB/LL	5	24663	15.5	18	84.2	150.2*	117.2
Stone 7S233	9	26081	11.7	34	83.1	--	--
Burrus 572RWR	4, 9, 10	27494	16.2	7	83.1	150.4*	116.8
NC+ 5224RB	6	28196	16.9	12	83.1	--	--
DEKALB DKC64-23 (RR2/YGRW)	9	27118	14.1	11	82.3	--	--
Garst 8353CB/LL	5	27358	15.9	27	82.2	--	--
Stone 8K339	9	27825	14.8	40	82.2	--	--
DEKALB RX785RR2/YGCB	9	28623	16.5	49	82.2	149.7*	116.0
Kruger 5013YGCB	6	27524	12.7	39	81.6	--	--
Lewis 4886 PL	9	28617	12.6	53	81.5	138.2	109.9
Pioneer 33D13 (HX1, LL)	2, 7, 8, 9	28970	17.9	12	81.0	143.2	112.1
Kruger 2114RR/YGCB	6	27560	17.4	43	80.9	--	--
Croplan Genetics 7505 CR	5	28370	18.1	7	80.4	--	--
Lewis 5365 CB/RR	9	28404	16.9	21	80.2	--	--
Fontanelle 8N206	9	27793	16.0	65	80.0	--	--
Midwest Seed 78132S	6	28051	17.2	26	79.8	--	--
DEKALB RX715RR2/YGCB	9	28246	15.9	18	79.1	130.5	104.8
Pioneer 34P89 (HX1,LL)	2, 7, 8, 9	27061	16.5	13	79.0	140.0	109.5
Wyffels W7383	2, 7, 8, 9	25251	13.7	61	78.6	140.3	109.5
Hubner H5646WR	9	23424	12.7	4	78.5	--	--
Midland MG 417BT	9	25741	13.6	58	78.2	--	--
Kruger 5116YGCB	6	29154	14.5	73	78.0	--	--
Hubner H5808PL	9	25411	15.0	55	78.0	--	--
Stone 7N412	9	28171	12.8	27	77.3	137.1	107.2
Midland MG 428BT/LL	9	27539	13.9	42	76.8	--	--
Kruger 8616HX	6	29236	16.1	47	76.4	127.3	101.9
Kruger 5514YGCB	6	30371	14.4	22	76.3	135.1	105.7
Crow's 4983S	6	28836	16.3	31	76.0	--	--
Croplan Genetics 6818 RB	5	25688	18.9	26	75.7	--	--
NK Brand N76-D3	6	26110	15.7	65	75.6	149.1*	112.4
LG 2614 BtRR	NA	28102	13.3	12	75.6	--	--
Pioneer 33K40 (HX1, LL)	2, 7, 8, 9	29180	20.0	0	75.5	146.3	110.9
Pioneer 34A16 (HX1/LL)	2, 7, 8, 9	27881	11.6	2	75.4	145.0	110.2
MFA MORCORN MC4072 CB	6	30302	12.7	45	75.2	--	--
Midland MG 5575BT	9	24134	13.9	6	74.6	--	--
Kruger 5010YGCB	6	28538	12.0	10	74.2	--	--
NK Brand N68-B8	6	25306	13.2	30	74.1	148.6*	111.4
Fielder's Choice NG 6795	9	26817	15.0	5	73.8	--	--
Midland MG 617BT	9	26543	15.1	33	73.6	137.0	105.3
Garst 8294YG1/IT	5	27750	24.3	0	73.5	147.7*	110.6

TABLE 15. Continued.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
Dyna-Gro 57F87	9	28017	16.2	71	73.3	--	--
Dyna-Gro 57F06	9	26210	13.5	71	73.0	133.5	103.3
Midland MG 448BT/RR	9	29201	12.4	48	72.4	--	--
Fontanelle 8N762	9	28040	16.9	14	72.4	--	--
DEKALB DKC61-73 (RR2/YGCB)	9	28307	13.0	16	71.6	--	--
NC+ 4445RB	6	28268	15.9	21	71.4	--	--
Midwest Seed 77123S	6	26106	16.1	20	71.1	--	--
Kruger 2314RR/YGCB	6	28633	15.8	52	71.0	--	--
LG 2642 BtRR	NA	28052	15.8	42	71.0	--	--
Midland MG 436BT	9	26184	13.7	37	70.9	143.4	107.2
MFA MORCORN MC4183 RR/CB	6	26693	15.2	59	70.9	--	--
Kruger 5014YGCB	6	30218	15.9	42	70.8	--	--
DEKALB DKC63-81 (RR2/YGCB)	9	27029	17.7	58	70.4	--	--
Kruger 2517RR/YGCB	6	28622	15.2	73	70.3	144.0	107.2
Fontanelle 8B467	9	29710	14.0	77	69.6	--	--
Midland MG 7A58BT/RR	9	25496	15.3	76	69.0	139.7	104.4
Merschman M-612D-3	4, 9, 10	29607	14.7	24	68.3	--	--
Merschman M-810B-2	8, 9, 10	27146	11.4	44	67.9	--	--
MFA MORCORN MC4083 RR/CB	6	30602	11.8	43	67.6	--	--
Dyna-Gro 57F37	9	27983	16.7	47	67.5	133.4	100.5
MFA MORCORN MC4283 RR/CB	6	27613	15.6	49	66.9	--	--
Wyffels W8365	2, 7, 8, 9	26449	16.2	35	66.8	--	--
Garst 8456CB/LL	5	27686	13.1	18	66.6	--	--
Kruger 8414HX	6	27689	17.6	90	66.4	133.0	99.7
Crow's 4842 S	6	26499	16.1	19	66.2	--	--
Kruger 8016HX	6	27502	15.9	37	65.7	--	--
Croplan Genetics 731 HX/L	5	28665	16.6	71	65.7	--	--
Kruger 2613RR/YGCB	6	27961	13.9	89	65.3	--	--
Merschman M-711E-3	4, 9, 10	27666	13.9	92	65.0	--	--
AgriGold A6594BtRR	9	27912	16.6	47	64.6	--	--
Merschman M-512C-3	4, 9, 10	28188	15.8	63	64.5	--	--
AgriGold A6633BtRR	9	28894	15.6	61	61.5	--	--
Kruger 1015RR/YGCB	6	28059	13.2	30	61.1	--	--
MFA MORCORN MC4483 RR/CB	6	28183	18.7	91	59.3	--	--
Merschman M-810H-3	8, 9, 10	24308	15.0	38	59.1	--	--
Fielder's Choice NG 6810	9	29116	13.0	60	58.7	--	--
DEKALB DKC63-46 (RR2/YGCB)	9	28800	13.4	56	58.6	134.2	96.4
Lewis 7044 CB	9	27422	17.5	86	57.6	141.6	99.6
Lewis 6178 RW/RR	9	26987	15.5	8	56.1	--	--
Kruger 2212RR/YGCB	6	28400	13.8	64	54.6	--	--
TEST AVERAGE		27670	15.2	38	73.7	139.0	106.4
L.S.D. AT .10		2370	1.5	29	9.2	10.9	
C.V. %		6.2	7.1		8.7	5.5	

-- Data not available.

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

TABLE 16. Non-Irrigated Corn Test

Central Region: Annada, MO (Pike County)

Soil Type: Tice Silt Loam Soil Test: pH=6.1, OM=1.9%, P=76, K=380

European Corn Borer Rating: Damaged Plants= 100%, Tunnel Length/Plant= 6.25 in.

Rainfall: Apr.=2.8, May=2.6, June=4.5, July=1.4, Aug.=1.5 Total=12.8 in.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
Kruger 8112HX	6	29444	11.6	1	214.5**	--	--
DEKALB DKC61-73 (RR2/YGCB)	9	29874	11.4	0	212.6*	--	--
NK Brand N76-D3	6	29676	12.0	0	204.0*	222.6*	213.3
AgriGold A6633BtRR	9	29612	10.9	20	203.8*	--	--
Kruger 5514YGCB	6	31142	11.7	0	203.2*	196.8	200.0
Kruger 5013YGCB	6	30846	11.4	4	201.8*	--	--
NC+ 4445RB	6	30608	11.7	5	201.1*	--	--
Pioneer 33K40 (HX1, LL)	2, 7, 8, 9	30827	12.2	3	198.6*	228.7*	213.7
Pioneer 33D13 (HX1, LL)	2, 7, 8, 9	31201	12.0	2	198.3*	195.0	196.7
NK Brand N71-L7	6	29657	10.5	0	196.7*	--	--
LG 2642 BtRR	NA	29737	12.1	3	196.5*	--	--
DEKALB RX715RR2/YGCB	9	29903	11.3	1	196.4*	227.9*	212.2
NK Brand N68-B8	6	30150	10.9	1	196.0*	191.7	193.9
Garst 8452CB/LL	5	28303	10.9	6	195.5*	211.3	203.4
Garst 8535YG1/IT	5	29426	11.5	2	194.8*	--	--
Dyna-Gro 57F06	9	28369	11.3	25	194.0	213.4	203.7
Fontanelle 8N206	9	29903	11.4	3	193.4	--	--
Dyna-Gro 57F87	9	29489	11.3	27	193.4	--	--
Kruger 5010YGCB	6	30645	11.8	3	193.3	--	--
Fontanelle 8B467	9	29930	11.9	23	192.8	--	--
Stone 8K339	9	30272	11.5	7	192.8	--	--
Kruger 8616HX	6	29876	11.4	3	192.2	203.6	197.9
DEKALB RX785RR2/YGCB	9	30037	11.6	7	192.1	231.6*	211.9
Kruger 2212RR/YGCB	6	29942	10.9	1	191.5	--	--
Crow's 4842 S	6	29041	10.7	0	191.1	--	--
LG 2614 BtRR	NA	30517	11.5	7	191.1	--	--
MFA MORCORN MC4183 RR/CB	6	29048	11.2	8	190.9	--	--
Pioneer 34P89 (HX1,LL)	2, 7, 8, 9	29542	11.3	3	190.7	210.8	200.8
Midland MG 428BT/LL	9	28984	11.3	2	190.3	--	--
Garst 8353CB/LL	5	30029	10.9	15	190.0	--	--
Kruger 2613RR/YGCB	6	28598	11.1	39	189.9	--	--
Merschman M-711E-3	4, 9, 10	29623	11.6	23	189.6	--	--
Fontanelle 8N762	9	30269	12.2	4	189.2	--	--
Garst 8294YG1/IT	5	27236	12.4	4	188.5	149.5	169.0
Lewis 4886 PL	9	29138	11.2	26	188.3	198.8	193.6
NC+ 5224RB	6	30601	12.1	1	187.5	--	--
Kruger 2517RR/YGCB	6	28209	11.7	25	187.5	210.1	198.8
Crow's 4983S	6	29920	11.8	0	186.5	--	--
Kruger 0115	6	29925	11.7	4	186.1	--	--
Merschman M-810H-3	8, 9, 10	28396	10.9	1	185.9	--	--
Fielder's Choice NG 6810	9	29909	11.5	11	185.2	--	--
Garst 8456CB/LL	5	30271	10.6	0	184.9	--	--
MFA MORCORN MC4083 RR/CB	6	30490	11.1	8	184.7	--	--
Wyffels W7383	2, 7, 8, 9	30067	10.9	5	183.8	202.7	193.3
Midland MG 617BT	9	29158	11.6	10	183.5	204.2	193.9

TABLE 16. Continued.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
Merschman M-512C-3	4, 9, 10	29745	11.6	7	183.4	--	--
Lewis 7044 CB	9	29158	11.3	35	183.1	209.4	196.3
Merschman M-612D-3	4, 9, 10	29380	11.5	0	182.8	--	--
Pioneer 34A16 (HX1/LL)	2, 7, 8, 9	30888	12.0	2	182.7	203.4	193.1
Midland MG 448BT/RR	9	30634	11.4	6	182.3	--	--
Stone 7N412	9	29509	10.9	3	182.2	206.9	194.6
Croplan Genetics 731 HX/L	5	29186	11.1	9	182.2	--	--
DEKALB DKC63-81 (RR2/YGCB)	9	30047	10.6	6	181.5	--	--
Midwest Seed 78132S	6	30447	11.8	3	181.4	--	--
MFA MORCORN MC4283 RR/CB	6	29992	11.1	9	181.2	--	--
Kruger 5014YGCB	6	30800	11.4	4	180.4	--	--
Croplan Genetics 6818 RB	5	30196	13.1	10	180.1	--	--
Kruger 8016HX	6	28920	11.1	6	180.1	--	--
MFA MORCORN MC4072 CB	6	30092	11.4	0	180.0	--	--
DEKALB DKC64-23 (RR2/YGRW)	9	30164	11.3	2	179.7	--	--
Lewis 5365 CB/RR	9	30305	10.8	2	178.6	--	--
DEKALB DKC63-46 (RR2/YGCB)	9	30746	11.3	2	177.0	221.6*	199.3
Kruger 5116YGCB	6	30124	11.9	15	176.8	--	--
Midwest Seed 77123S	6	29850	11.4	1	176.5	--	--
Kruger 2314RR/YGCB	6	30018	11.5	6	174.4	--	--
AgriGold A6639RR	9	28802	12.0	10	173.0	--	--
Kruger 8414HX	6	30714	11.6	31	171.7	206.8	189.3
MFA MORCORN MC4483 RR/CB	6	29071	10.8	44	171.6	--	--
Wyffels W8365	2, 7, 8, 9	29196	11.9	1	171.3	--	--
Croplan Genetics 7505 CR	5	30436	11.5	6	170.1	--	--
Hubner H5808PL	9	29097	11.3	38	170.1	--	--
Kruger 1015RR/YGCB	6	30292	10.8	4	169.9	--	--
Midland MG 417BT	9	29480	10.9	34	169.7	--	--
Midland MG 436BT	9	28922	11.3	47	169.2	217.3*	193.3
Lewis 6178 RW/RR	9	30002	11.4	8	169.0	--	--
Dyna-Gro 57F37	9	29334	11.1	9	167.2	190.0	178.6
Midland MG 5575BT	9	28928	10.9	4	167.2	--	--
AgriGold A6594BtRR	9	30954	10.2	5	166.8	--	--
Kruger 2114RR/YGCB	6	29635	11.8	2	162.0	--	--
Hubner H5646WR	9	25679	11.1	2	161.1	--	--
Burrus 572RWR	4, 9, 10	30489	11.3	7	160.1	170.4	165.3
Midland MG 7A58BT/RR	9	28723	11.9	51	158.8	201.3	180.1
Stone 7S233	9	29575	10.2	4	158.1	--	--
Fielder's Choice NG 6795	9	29525	11.4	0	157.1	--	--
Merschman M-810B-2	8, 9, 10	29321	10.9	0	142.1	--	--
TEST AVERAGE		29720	11.4	9	183.6	197.9	190.8
L.S.D. AT .10		1501	0.8	14	19.7	27.7	
C.V. %		3.6	5.0		7.6	10.1	

-- Data not available.

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

TABLE 17. Performance Summary for Non-Irrigated Hybrids evaluated at Five Central Missouri locations (Henrietta, Marshall, Columbia, Truxton, Annada) during 2007.

<u>Henrietta</u> Planted: 04-17 Harvested: 09-11 Growing Season Rainfall: 23.5 in.	<u>Marshall</u> Planted: 04-18 Harvested: 09-13, 14 Growing Season Rainfall: 23.4 in.	<u>Columbia</u> Planted: 05-17 Harvested: 09-18 Growing Season Rainfall: 13.3 in.
<u>Truxton</u> Planted: 05-14 Harvested: 09-07, 10 Growing Season Rainfall: 13.7 in.	<u>Annada</u> Planted: 05-10 Harvested: 10-09 Growing Season Rainfall: 12.8 in.	

Brand-Hybrid	Yield (Bu/Acre)					Mean
	Henrietta	Marshall	Columbia	Truxton	Annada	
Non-Irrigated						
Kruger 8112HX	251.9**	210.2	180.2	92.8	214.5**	189.9**
DEKALB DKC61-73 (RR2/YGCB)	238.5*	224.0*	193.9*	71.6	212.6*	188.1*
Kruger 5010YGCB	235.3*	223.6*	205.8**	74.2	193.3	186.4*
Pioneer 33K40 (HX1, LL)	221.4	238.7**	195.3*	75.5	198.6*	185.9*
Kruger 5013YGCB	247.9*	211.0	183.5	81.6	201.8*	185.2*
Fontanelle 8B467	241.2*	234.1*	182.7	69.6	192.8	184.1*
Kruger 5514YGCB	228.8	226.4*	181.6	76.3	203.2*	183.3*
Dyna-Gro 57F87	245.9*	216.1	186.3	73.3	193.4	183.0*
Kruger 0115	219.0	223.8*	191.1*	92.4	186.1	182.5*
Lewis 5365 CB/RR	246.8*	213.2	193.6*	80.2	178.6	182.5*
Kruger 5116YGCB	245.0*	232.1*	176.7	78.0	176.8	181.7
Fontanelle 8N206	235.8*	211.6	187.2	80.0	193.4	181.6
Pioneer 33D13 (HX1, LL)	239.9*	204.9	181.9	81.0	198.3*	181.2
Pioneer 34P89 (HX1,LL)	239.7*	211.8	184.7	79.0	190.7	181.2
DEKALB RX715RR2/YGCB	231.1	213.3	183.7	79.1	196.4*	180.7
Stone 8K339	237.5*	210.1	179.0	82.2	192.8	180.3
LG 2614 BtRR	237.0*	215.0	182.3	75.6	191.1	180.2
Garst 8535YG1/IT	221.3	199.8	180.2	103.3**	194.8*	179.9
Garst 8353CB/LL	222.5	211.8	191.8*	82.2	190.0	179.7
Garst 8294YG1/IT	251.9**	218.8	165.6	73.5	188.5	179.7
DEKALB RX785RR2/YGCB	228.1	207.0	185.8	82.2	192.1	179.0
NK Brand N71-L7	235.7*	197.2	174.5	91.0	196.7*	179.0
Garst 8452CB/LL	232.9*	198.2	183.7	84.2	195.5*	178.9
AgriGold A6633BtRR	245.3*	220.6	161.6	61.5	203.8*	178.6
Garst 8456CB/LL	239.9*	212.2	186.8	66.6	184.9	178.1
NC+ 5224RB	214.2	211.5	193.8*	83.1	187.5	178.0
LG 2642 BtRR	225.8	209.8	186.7	71.0	196.5*	178.0
Croplan Genetics 7505 CR	231.6	226.3*	181.0	80.4	170.1	177.9
Midwest Seed 78132S	221.5	214.0	192.7*	79.8	181.4	177.9
Pioneer 34A16 (HX1/LL)	229.4	211.7	189.9*	75.4	182.7	177.8
Lewis 4886 PL	223.7	211.3	184.1	81.5	188.3	177.8
Kruger 2212RR/YGCB	233.1*	231.8*	177.8	54.6	191.5	177.8
Stone 7N412	229.9	212.2	186.4	77.3	182.2	177.6
Wyffels W7383	233.2*	201.1	189.9*	78.6	183.8	177.3
Fielder's Choice NG 6810	235.0*	221.5	185.3	58.7	185.2	177.1
NK Brand N76-D3	231.8	190.1	183.9	75.6	204.0*	177.1
NK Brand N68-B8	224.4	210.4	179.1	74.1	196.0*	176.8
Kruger 2517RR/YGCB	236.6*	209.1	179.0	70.3	187.5	176.5
DEKALB DKC63-46 (RR2/YGCB)	242.8*	218.1	185.8	58.6	177.0	176.5
Crow's 4983S	229.4	216.6	173.2	76.0	186.5	176.3
Midland MG 417BT	236.1*	214.1	183.3	78.2	169.7	176.3
Midland MG 448BT/RR	235.4*	216.9	173.5	72.4	182.3	176.1
MFA MORCORN MC4183 RR/CB	233.7*	209.7	175.2	70.9	190.9	176.1
Kruger 2613RR/YGCB	225.1	215.8	184.1	65.3	189.9	176.0
Kruger 8616HX	232.8*	197.9	180.3	76.4	192.2	175.9

Table 17. Continued.

Brand-Hybrid	Yield (Bu/Acre)					Mean
	Henrietta	Marshall	Columbia	Truxton	Annada	
Non-Irrigated						
NC+ 4445RB	225.7	208.3	172.7	71.4	201.1*	175.8
Lewis 7044 CB	234.6*	216.5	184.5	57.6	183.1	175.3
Burrus 572RWR	230.6	221.3	181.0	83.1	160.1	175.2
Merschman M-612D-3	228.3	222.7*	173.3	68.3	182.8	175.1
Midland MG 617BT	217.1	225.9*	172.9	73.6	183.5	174.6
Merschman M-711E-3	227.7	210.7	178.7	65.0	189.6	174.3
MFA MORCORN MC4072 CB	235.7*	210.9	169.1	75.2	180.0	174.2
Fontanelle 8N762	221.1	203.0	183.7	72.4	189.2	173.9
AgriGold A6639RR	216.5	199.4	189.0*	88.8	173.0	173.3
MFA MORCORN MC4083 RR/CB	235.0*	199.3	178.3	67.6	184.7	173.0
Merschman M-512C-3	234.0*	215.0	166.3	64.5	183.4	172.6
DEKALB DKC63-81 (RR2/YGCB)	217.7	216.2	176.3	70.4	181.5	172.4
Midland MG 7A58BT/RR	234.9*	210.3	188.9*	69.0	158.8	172.4
Kruger 2314RR/YGCB	234.7*	211.7	169.2	71.0	174.4	172.2
Crow's 4842 S	229.3	199.4	174.7	66.2	191.1	172.1
DEKALB DKC64-23 (RR2/YGRW)	217.0	198.9	180.8	82.3	179.7	171.7
Midland MG 428BT/LL	222.4	204.3	163.6	76.8	190.3	171.5
Hubner H5808PL	230.2	204.3	174.5	78.0	170.1	171.4
Midland MG 436BT	233.3*	206.2	176.6	70.9	169.2	171.2
Croplan Genetics 6818 RB	212.5	218.6	168.7	75.7	180.1	171.1
AgriGold A6594BtRR	228.6	219.0	173.2	64.6	166.8	170.4
Kruger 1015RR/YGCB	223.6	218.9	177.6	61.1	169.9	170.2
Kruger 2114RR/YGCB	227.1	203.0	177.5	80.9	162.0	170.1
Croplan Genetics 731 HX/L	230.9	204.9	166.3	65.7	182.2	170.0
Kruger 5014YGCB	217.4	198.4	181.6	70.8	180.4	169.7
Kruger 8414HX	238.2*	192.5	176.7	66.4	171.7	169.1
Wyffels W8365	229.1	197.9	176.6	66.8	171.3	168.3
MFA MORCORN MC4483 RR/CB	242.8*	208.2	159.7	59.3	171.6	168.3
Midwest Seed 77123S	223.7	209.8	158.8	71.1	176.5	168.0
Midland MG 5575BT	214.4	213.3	170.0	74.6	167.2	167.9
Dyna-Gro 57F06	214.1	182.1	175.3	73.0	194.0	167.7
Merschman M-810H-3	230.1	206.0	156.9	59.1	185.9	167.6
MFA MORCORN MC4283 RR/CB	223.1	204.8	160.6	66.9	181.2	167.3
Kruger 8016HX	230.9	191.4	166.8	65.7	180.1	167.0
Stone 7S233	211.6	198.1	181.1	83.1	158.1	166.4
Dyna-Gro 57F37	225.3	204.3	161.4	67.5	167.2	165.1
Lewis 6178 RW/RR	223.4	217.5	159.4	56.1	169.0	165.1
Hubner H5646WR	206.9	181.7	175.3	78.5	161.1	160.7
Fielder's Choice NG 6795	215.8	202.3	153.5	73.8	157.1	160.5
Merschman M-810B-2	197.1	186.1	173.2	67.9	142.1	153.3
TEST AVERAGE	229.6	210.3	178.5	73.7	183.6	175.1
L.S.D. AT .10	19.8	16.2	17.8	9.2	19.7	7.6
C.V. %	6.1	5.4	7.0	8.7	7.6	7.0

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

Note: To view seed treatments for these hybrids refer to the location table or the characteristics chart.

TABLE 18. Irrigated Corn Test

Central Region: Columbia, MO (Boone County)

Soil Type: Mexico Silt Loam Soil Test: pH=6.0, OM=1.5%, P=50, K=338

European Corn Borer Rating: Damaged Plants= 80%, Tunnel Length/Plant= 2.65 in.

Rainfall: Apr.=3.3, May=3.4, June=3.0, July=2.0, Aug.=1.6 Total=13.3 in.

Irrigation: 11 in.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007 2006	bu/acre-----	
Garst 8378YG1	5	34018	13.5	1	258.3**	--	--
Garst 8353CB/LL	5	32380	14.7	1	256.9*	270.5*	263.7
Garst 8294YG1/IT	5	31028	14.9	1	254.7*	270.0*	262.4
DEKALB RX715RR2/YGCB	9	33440	13.9	1	250.3*	252.0	251.2
DEKALB RX785RR2/YGCB	9	33577	13.1	0	249.4*	256.3	252.9
DEKALB DKC63-46 (RR2/YGCB)	9	33917	13.3	4	244.4*	241.1	242.8
Fielder's Choice NG 6810	9	33360	14.2	1	243.5*	--	--
Rainbow X1116HX	NA	31375	14.2	15	242.1*	--	--
Midland MG 7A58BT/RR	9	27211	14.7	48	242.1*	276.2*	259.2
MOF2 WJC-61	NA	35831	14.7	9	239.5*	--	--
NuTech 3C-714 RR/YGCB	9	34099	13.0	5	238.2*	--	--
AgriGold A6479BtRR	9	34509	13.2	4	236.5*	--	--
NuTech 0P-515 YGPL	9	33503	15.2	5	236.0*	--	--
AgriGold A6633BtRR	9	35715	13.0	9	235.0	--	--
Crow's 5132 S	6	34493	14.4	3	234.8	--	--
NuTech 0C-413 YGCB	9	32809	12.6	8	234.5	--	--
MOF2 WJC-81	NA	32803	14.3	0	234.1	--	--
Rainbow 3158YGCB	NA	35989	14.7	22	233.0	214.2	223.6
Wyffels W7645	2, 7, 8, 9	33503	13.9	10	231.3	--	--
Pioneer 33D13 (HX1, LL)	2, 7, 8, 9	34077	13.4	8	230.4	244.3	237.4
Garst 8247YG1	5	33830	13.5	9	230.0	254.9	242.5
Pioneer 33K40 (HX1, LL)	2, 7, 8, 9	33397	14.4	1	230.0	--	--
Rainbow 3142YGCB	NA	34342	13.3	10	226.6	222.8	224.7
Crow's 4983S	6	33065	14.0	0	226.4	--	--
Midland MG 436BT	9	32015	13.5	20	226.0	262.1*	244.1
DEKALB DKC61-73 (RR2/YGCB)	9	33177	12.9	0	225.6	--	--
Fontanelle 8N206	9	31955	14.5	8	225.6	--	--
Fontanelle 8B467	9	34061	13.3	10	225.2	--	--
AgriGold A6594BtRR	9	34773	13.9	22	225.2	--	--
DEKALB DKC63-81 (RR2/YGCB)	9	32709	12.9	11	224.2	--	--
NuTech 3C-310 RR/YGCB	9	30807	13.5	3	224.1	--	--
Rainbow X1176HX	NA	33193	15.5	1	223.3	--	--
MOF2 WJC-55	NA	33535	12.3	8	223.1	--	--
Midwest Seed 79882S	6	34026	14.6	1	222.1	--	--
Rainbow X1076HX	NA	33894	12.8	15	221.5	--	--
Wyffels W7383	2, 7, 8, 9	34627	13.4	10	220.9	223.8	222.4
Midland MG 5575BT	9	30094	13.4	23	220.9	--	--
MOF2 WJC-49	NA	30402	14.2	27	219.1	--	--
NC+ 5402RB	6	34311	14.7	16	216.7	--	--
Wyffels W8250	2, 7, 8, 9	34480	13.3	15	216.2	--	--

TABLE 18. Continued.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
Rainbow 3105YGCB	NA	34068	14.3	24	214.8	260.5*	237.7
NC+ 5224RB	6	33378	14.4	14	211.6	--	--
Midwest Seed 78132S	6	33908	13.2	10	210.3	--	--
Pioneer 31N28 (YGCB)	2, 7, 8, 9	34501	14.3	8	209.1	--	--
MOF2 WJC-91	NA	34026	14.5	1	208.0	--	--
Fielder's Choice 7880S	9	34297	15.5	24	206.6	--	--
MOF2 WJC-69	NA	33840	13.0	40	201.9	--	--
TEST AVERAGE		33369	13.9	10	228.9	242.5	235.7
L.S.D. AT .10		2083	1.2	17	22.8	34.6	
C.V. %		4.3	6.3		7.3	9.9	

-- Data not available.

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

TABLE 19. Irrigated Corn Test

Central Region: Laddonia, MO (Audrain County)

Soil Type: Mexico Silt Loam Soil Test: pH=6.8, OM=2.1%, P=52, K=298

European Corn Borer Rating: Damaged Plants=40%, Tunnel Length/Plant= 0.675 in.

Rainfall: Apr.=3.8, May=3.5, June=4.6, July=1.4, Aug.=2.4 Total=15.7 in.

Irrigation: 7 in.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
Garst 8353CB/LL	5	34889	13.8	82	224.9**	244.8	234.9
NuTech 0C-413 YGCB	9	33816	12.0	64	219.2*	--	--
Fontanelle 8N206	9	35032	12.2	83	218.5*	--	--
NuTech 3C-714 RR/YGCB	9	33335	13.3	45	217.4*	--	--
NC+ 5402RB	6	34365	14.0	36	215.3*	--	--
Pioneer 33D13 (HX1, LL)	2, 7, 8, 9	36810	11.7	16	215.1*	229.6	222.4
Pioneer 33K40 (HX1, LL)	2, 7, 8, 9	36591	13.9	30	214.6*	--	--
DEKALB DKC63-46 (RR2/YGCB)	9	35102	12.3	74	213.7*	248.0*	230.9
DEKALB RX785RR2/YGCB	9	34700	12.7	81	213.1*	252.0*	232.6
DEKALB DKC63-81 (RR2/YGCB)	9	35543	12.6	60	212.1*	--	--
NC+ 5224RB	6	36112	13.5	54	211.5*	--	--
Garst 8378YG1	5	35797	14.8	8	210.7*	--	--
Fielder's Choice NG 6810	9	35792	11.5	77	210.7*	--	--
DEKALB DKC61-73 (RR2/YGCB)	9	34432	13.2	67	209.2*	--	--
Midland MG 5575BT	9	29823	11.6	24	208.7*	--	--
MOF2 WJC-61	NA	36430	12.8	83	207.8*	--	--
NuTech 3C-310 RR/YGCB	9	32474	11.7	67	207.1*	--	--
Fontanelle 8B467	9	34490	13.3	90	205.9*	--	--
Wyffels W7383	2, 7, 8, 9	34558	12.4	90	205.7*	230.3	218.0
Crow's 4983S	6	35639	14.0	68	205.6*	--	--
DEKALB RX715RR2/YGCB	9	34088	13.0	68	203.7*	225.8	214.8
Rainbow 3142YGCB	NA	35216	11.3	55	203.6*	228.9	216.3
AgriGold A6633BtRR	9	33930	12.7	94	203.3*	--	--
Wyffels W7645	2, 7, 8, 9	35467	11.9	49	202.2*	--	--
Rainbow X1116HX	NA	35224	12.0	82	201.3*	--	--
AgriGold A6594BtRR	9	32889	12.0	62	201.1*	--	--
Garst 8247YG1	5	34373	14.9	66	199.7	244.2	222.0
Rainbow X1076HX	NA	35673	10.9	13	198.3	--	--
NuTech 0P-515 YGPL	9	35553	13.3	80	195.8	--	--
Midwest Seed 78132S	6	34027	13.6	32	194.9	--	--
Garst 8294YG1/IT	5	30583	15.8	27	194.2	229.9	212.1
MOF2 WJC-81	NA	34354	14.3	88	193.9	--	--
MOF2 WJC-55	NA	33590	11.3	18	192.7	--	--
Rainbow 3105YGCB	NA	34120	13.0	86	192.3	225.6	209.0
Midland MG 436BT	9	32787	12.8	83	191.6	217.3	204.5
Rainbow 3158YGCB	NA	34993	13.5	91	191.4	209.8	200.6
Wyffels W8250	2, 7, 8, 9	36401	11.8	49	190.8	--	--
Midland MG 7A58BT/RR	9	27123	15.8	90	190.4	221.6	206.0
MOF2 WJC-49	NA	32840	16.6	94	189.4	--	--
Fielder's Choice 7880S	9	34282	15.6	90	187.6	--	--

TABLE 19. Continued.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
Rainbow X1176HX	NA	30898	15.4	76	186.5	--	--
AgriGold A6479BtRR	9	35913	12.3	87	185.0	--	--
Midwest Seed 79882S	6	33794	13.3	43	183.5	--	--
Pioneer 31N28 (YGCB)	2, 7, 8, 9	33129	14.2	72	183.0	--	--
MOF2 WJC-69	NA	33101	12.2	89	182.8	--	--
Crow's 5132 S	6	33911	12.9	39	173.6	--	--
MOF2 WJC-91	NA	34816	17.0	46	172.0	--	--
TEST AVERAGE		34230	13.2	63	200.7	225.2	213.0
L.S.D. AT .10		2061	1.2	26	24.5	20.9	
C.V. %		4.2	6.3		8.6	6.6	

-- Data not available.

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

TABLE 20. Performance Summary for Irrigated Hybrids evaluated at Two Central Missouri locations (Columbia, Laddonia) during 2007.

Columbia
 Planted: 05-16
 Harvested: 10-11
 Growing Season Rainfall: 13.3 in.
 Irrigation: 11 in.

Laddonia
 Planted: 04-23
 Harvested: 09-04
 Growing Season Rainfall: 15.7 in.
 Irrigation: 7 in.

Brand-Hybrid	Yield (Bu/Acre)		Mean
	Columbia	Laddonia	
Irrigated			
Garst 8353CB/LL	256.9*	224.9**	240.9**
Garst 8378YG1	258.3**	210.7*	234.5*
DEKALB RX785RR2/YGCB	249.4*	213.1*	231.2*
DEKALB DKC63-46 (RR2/YGCB)	244.4*	213.7*	229.0*
NuTech 3C-714 RR/YGCB	238.2*	217.4*	227.8*
Fielder's Choice NG 6810	243.5*	210.7*	227.1*
DEKALB RX715RR2/YGCB	250.3*	203.7*	227.0*
NuTech 0C-413 YGCB	234.5	219.2*	226.8*
Garst 8294YG1/IT	254.7*	194.2	224.4*
MOF2 WJC-61	239.5*	207.8*	223.6
Pioneer 33D13 (HX1, LL)	230.4	215.1*	222.8
Pioneer 33K40 (HX1, LL)	230.0	214.6*	222.3
Fontanelle 8N206	225.6	218.5*	222.0
Rainbow X1116HX	242.1*	201.3*	221.7
AgriGold A6633BtRR	235.0	203.3*	219.2
DEKALB DKC63-81 (RR2/YGCB)	224.2	212.1*	218.2
DEKALB DKC61-73 (RR2/YGCB)	225.6	209.2*	217.4
Wyffels W7645	231.3	202.2*	216.8
Midland MG 7A58BT/RR	242.1*	190.4	216.2
NC+ 5402RB	216.7	215.3*	216.0
Crow's 4983S	226.4	205.6*	216.0
NuTech 0P-515 YGPL	236.0*	195.8	215.9
NuTech 3C-310 RR/YGCB	224.1	207.1*	215.6
Fontanelle 8B467	225.2	205.9*	215.5
Rainbow 3142YGCB	226.6	203.6*	215.1
Garst 8247YG1	230.0	199.7	214.8
Midland MG 5575BT	220.9	208.7*	214.8
MOF2 WJC-81	234.1	193.9	214.0
Wyffels W7383	220.9	205.7*	213.3
AgriGold A6594BtRR	225.2	201.1*	213.2
Rainbow 3158YGCB	233.0	191.4	212.2
NC+ 5224RB	211.6	211.5*	211.6
AgriGold A6479BtRR	236.5*	185.0	210.8
Rainbow X1076HX	221.5	198.3	209.9
Midland MG 436BT	226.0	191.6	208.8
MOF2 WJC-55	223.1	192.7	207.9
Rainbow X1176HX	223.3	186.5	204.9
MOF2 WJC-49	219.1	189.4	204.2
Crow's 5132 S	234.8	173.6	204.2
Rainbow 3105YGCB	214.8	192.3	203.6

TABLE 20. Continued.

Brand-Hybrid	Yield (Bu/Acre)		Mean
	Columbia	Laddonia	
Wyffels W8250	216.2	190.8	203.5
Midwest Seed 79882S	222.1	183.5	202.8
Midwest Seed 78132S	210.3	194.9	202.6
Fielder's Choice 7880S	206.6	187.6	197.1
Pioneer 31N28 (YGCB)	209.1	183.0	196.0
MOF2 WJC-69	201.9	182.8	192.3
MOF2 WJC-91	208.0	172.0	190.0
TEST AVERAGE	228.9	200.7	214.8
L.S.D. AT .10	22.8	24.5	16.6
C.V. %	7.3	8.6	8.0

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

Note: To view seed treatments for these hybrids refer to the location table or the characteristics chart.

Southwest Region Crop Management Summary

There are three locations in the Southwest Region for the Non-Irrigated Corn Test and two locations for Irrigated Corn Test. They are located in counties where a significant number of acres of corn are grown according to the Missouri Agricultural Statistics Service. Cultural practices vary slightly between locations, but tend to reflect those followed by farmers in the area.

Abundant to excessive rainfall throughout the growing season helped most of the corn tests perform well. The Harrisonville Irrigated Test was abandoned because of poor emergence and very erratic stands. The remaining tests survived the wet year and produced good yields.

Climatological information for the growing season (April 1 – August 31) for the Southwest Region is summarized below and cultural practices for each site are listed in Table 21.

Average temperature = 71.0 degrees, 1.4 degrees above normal

Average precipitation = 32.7 “, 10.3” above normal

Growing degree days = 3346 days, 200 days above normal

Table 21. Southwest Region Crop Management Summary

Location	Planting date	Harvest date	Fertilizer			Tillage	Herbicide		Insecticide
			N	P ₂ O ₅	K ₂ O		Pre	Post	
<i>Non-Irrigated Corn Tests</i>									
Harrisonville	04-24	09-12	220	80	120	Conv.	Dual II Magnum, Aatrex, Callisto, Princep		Force 3G
Urich	05-21	09-21	135	80	120	Conv.	Dual II Magnum, Aatrex, Callisto, Princep		Force 3G
Lamar	05-01	09-27	255	200	150	Conv.	Dual II Magnum, Aatrex, Callisto, Princep		Force 3G
<i>Irrigated Corn Tests</i>									
Harrisonville	04-24	Not Harvested	220	80	120	Conv.	Dual II Magnum, Aatrex, Callisto, Princep		Force 3G
Lamar	04-30	09-27	255	200	150	Conv.	Dual II Magnum, Aatrex, Callisto, Princep		Force 3G

TABLE 22. Non-Irrigated Corn Test

Southwest Region: Harrisonville, MO (Cass County)

Soil Type: Haig Silt Loam Soil Test: pH=6.0, OM=2.2%, P=82, K=416

European Corn Borer Rating: Damaged Plants= 8 %, Tunnel Length/Plant= 0.28 in.

Rainfall: Apr.=5.6, May=11.3, June=11.9, July=4.2, Aug.=2.0 Total=35.0 in.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
Garst 8353CB/LL	5	28458	15.2	0	229.1**	--	--
DEKALB RX785RR2/YGCB	9	30433	13.5	2	226.4*	--	--
Croplan Genetics 7505 CR	5	25454	15.9	0	217.0*	--	--
NC+ 5392B	6	25782	13.5	1	213.0*	--	--
NC+ 4947RB	6	27951	13.1	3	211.9*	179.6	195.8
Pioneer 33D13 (HX1, LL)	2, 7, 8, 9	25625	15.3	0	210.1*	186.0*	198.1
DEKALB DKC64-23 (RR2/YGRW)	9	27822	15.0	0	209.3*	--	--
DEKALB DKC61-73 (RR2/YGCB)	9	24972	13.8	0	208.5*	--	--
Garst 8452CB/LL	5	27884	13.0	0	208.5*	189.7*	199.1
NC+ 4251RB	6	24359	13.2	0	207.2*	--	--
Champion CSX 1148 Bt	8, 9	26186	14.2	0	207.0*	--	--
Pioneer 35P10 (YGCB, RR2)	2, 7, 8, 9	25694	12.6	3	206.5*	--	--
Mycogen 2P722	3, 5	26999	12.4	7	204.3	182.3*	193.3
Fielder's Choice NG 6810	9	27282	14.0	2	202.9	--	--
Mycogen 2T801	3, 5	24197	13.9	0	202.8	--	--
Croplan Genetics 731 HX/L	5	24219	14.7	3	202.2	--	--
Champion CSX 1138 Bt	NA	25434	14.2	2	201.2	--	--
Mycogen 2C727	3, 5	23039	13.8	0	197.3	176.0	186.7
Garst 8535YG1/IT	5	24138	11.6	0	196.7	191.9**	194.3
Midland MG 7A53BT	9	24798	13.7	1	196.4	181.3	188.9
Dyna-Gro 57F87	9	24245	16.9	13	196.3	184.8*	190.6
Croplan Genetics 6818 RB	5	24081	17.5	5	196.0	--	--
DEKALB DKC60-19 (RR2/YGCB)	9	23152	13.3	28	195.7	183.8*	189.8
Mycogen 2M797	3, 5	25228	15.5	0	195.2	--	--
Stone 8K339	9	25780	13.2	0	193.8	--	--
Pioneer 34P89 (HX1,LL)	2, 7, 8, 9	21477	14.9	1	193.6	177.4	185.5
Midland MG 448BT/RR	9	22189	13.7	0	192.5	--	--
NC+ 2171RB	6	24729	11.4	0	190.5	--	--
Dyna-Gro 57X97	8, 9	21360	15.4	0	187.0	181.5	184.3
NC+ 1773RB	6	22692	11.5	0	187.0	--	--
NC+ 3611RB	6	23395	14.0	0	186.4	--	--
Pioneer 34A16 (HX1/LL)	2, 7, 8, 9	22078	14.6	0	184.1	178.0	181.1
Midland MG 7A58BT/RR	9	24481	17.1	28	182.5	184.7*	183.6
Dyna-Gro 57F20	8, 9	21898	15.5	0	182.3	--	--
DEKALB DKC64-78 (RR2/YGCB)	9	17690	16.4	9	179.5	--	--
Dyna-Gro 55P79	8, 9	22722	12.9	1	178.2	--	--
Dyna-Gro 57P16	8, 9	18337	14.2	0	172.7	--	--
Stone 7N412	9	17892	13.6	0	172.3	--	--
Fielder's Choice 7850B	9	18250	15.8	0	151.7	--	--
Dyna-Gro 57F06	9	10220	14.5	2	132.8	179.6	156.2
TEST AVERAGE		23816	14.2	3	195.2	178.4	186.8
L.S.D. AT .10		5269	1.3	12	24.7	9.8	
C.V. %		15.3	6.5		8.8	3.7	

-- Data not available.

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

TABLE 23. Non-Irrigated Corn Test

Southwest Region: Urich, MO (Henry County)

Soil Type: Hartwell Silt Loam Soil Test: pH=5.2, OM=2.7%, P=38, K=316

European Corn Borer Rating: Damaged Plants= 65%, Tunnel Length/Plant= 1.38 in.

Rainfall: Apr.=5.5, May=8.9, June=6.5, July=7.0, Aug.=3.3 Total=31.2 in.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
Croplan Genetics 7505 CR	5	30745	17.9	0	138.7**	--	--
Garst 8452CB/LL	5	30371	17.6	0	137.2*	130.7	134.0
Dyna-Gro 57F87	9	29749	18.1	0	136.8*	132.0	134.4
DEKALB DKC60-19 (RR2/YGCB)	9	31118	17.9	0	133.6*	132.3	133.0
NC+ 5392B	6	30496	17.1	0	132.9*	--	--
NC+ 4947RB	6	29500	17.3	0	132.8*	129.2	131.0
DEKALB DKC64-78 (RR2/YGCB)	9	28629	17.8	0	132.6*	--	--
Garst 8353CB/LL	5	29127	17.8	0	130.9*	--	--
Mycogen 2P722	3, 5	29625	17.1	0	130.4*	132.0	131.2
NC+ 3611RB	6	29251	16.0	0	130.1*	--	--
Pioneer 35P10 (YGCB, RR2)	2, 7, 8, 9	28754	15.2	0	129.1*	--	--
Croplan Genetics 6818 RB	5	29873	20.3	0	129.0*	--	--
Pioneer 34A16 (HX1/LL)	2, 7, 8, 9	30869	15.7	0	128.9*	138.5*	133.7
DEKALB DKC61-73 (RR2/YGCB)	9	29251	16.4	0	128.8*	--	--
Midland MG 7A53BT	9	29998	16.8	0	128.3*	133.2	130.8
Champion CSX 1138 Bt	NA	29127	16.3	0	127.2*	--	--
Fielder's Choice NG 6810	9	29376	17.8	0	126.6*	--	--
NC+ 4251RB	6	29251	15.5	0	124.9*	--	--
Dyna-Gro 57F06	9	28131	16.6	0	124.8*	130.0	127.4
Mycogen 2C727	3, 5	28878	17.0	0	124.1	142.5*	133.3
NC+ 2171RB	6	29749	14.2	0	122.8	--	--
NC+ 1773RB	6	28878	12.7	0	121.5	--	--
Mycogen 2T801	3, 5	30620	17.9	0	121.1	--	--
Stone 7N412	9	30123	16.5	0	120.7	--	--
Stone 8K339	9	29376	16.8	0	120.6	--	--
Dyna-Gro 57F20	8, 9	29998	16.3	0	120.4	--	--
DEKALB DKC64-23 (RR2/YGRW)	9	28504	17.4	0	120.2	--	--
Fielder's Choice 7850B	9	27633	18.0	0	118.9	--	--
Midland MG 7A58BT/RR	9	27757	17.8	0	118.0	133.3	125.7
DEKALB RX785RR2/YGCB	9	30869	17.6	0	115.3	--	--
Garst 8535YG1/IT	5	29874	17.2	0	113.7	143.5**	128.6
Pioneer 34P89 (HX1,LL)	2, 7, 8, 9	29998	16.7	0	112.8	134.4	123.6
Dyna-Gro 57P16	8, 9	29749	15.4	0	112.2	--	--
Pioneer 33D13 (HX1, LL)	2, 7, 8, 9	30122	17.5	0	109.6	116.9	113.3
Dyna-Gro 57X97	8, 9	29376	17.5	0	109.2	131.2	120.2
Dyna-Gro 55P79	8, 9	29251	12.6	0	108.7	--	--
Champion CSX 1148 Bt	8, 9	29002	17.8	0	103.2	--	--
Midland MG 448BT/RR	9	29749	17.1	0	102.5	--	--
Croplan Genetics 731 HX/L	5	29376	17.7	0	101.1	--	--
Mycogen 2M797	3, 5	29002	20.4	0	94.8	--	--
TEST AVERAGE		29528	16.9	0	121.9	128.9	125.4
L.S.D. AT .10		1416	1.2	0	14.4	7.3	
C.V. %		3.5	5.4		8.3	3.9	

-- Data not available.

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

TABLE 24. Non-Irrigated Corn Test

Southwest Region: Lamar, MO (Barton County)

Soil Type: Parson Silt Loam Soil Test: pH=6.7, OM=2.2%, P=102, K=380

European Corn Borer Rating: Damaged Plants= 30%, Tunnel Length/Plant= 1.25 in.

Rainfall: Apr.=5.4, May=6.4, June=19.0, July=4.7, Aug.=2.2 Total=37.7 in.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
Garst 8452CB/LL	5	27306	12.9	0	190.1**	130.7	160.4
Pioneer 33D13 (HX1, LL)	2, 7, 8, 9	28242	13.1	0	179.6*	133.9	156.8
Garst 8353CB/LL	5	26416	13.3	0	178.7*	--	--
Dyna-Gro 57F87	9	26805	12.8	0	177.1*	127.4	152.3
Garst 8535YG1/IT	5	23756	13.0	0	175.5*	131.0	153.3
Mycogen 2P722	3, 5	23967	12.7	0	175.3*	111.2	143.3
Dyna-Gro 57P16	8, 9	25184	13.7	0	174.2*	--	--
Mycogen 2M797	3, 5	27023	13.3	0	171.9*	--	--
Stone 7N412	9	21445	13.2	0	170.3*	--	--
Mycogen 2C727	3, 5	29275	12.3	0	169.9*	123.3	146.6
Mycogen 2T801	3, 5	26999	12.6	0	168.8*	--	--
NC+ 5392B	6	27406	12.9	0	168.6*	--	--
Midland MG 7A53BT	9	23647	12.8	0	168.5*	124.5	146.5
Champion CSX 1148 Bt	8, 9	18288	13.6	0	168.2*	--	--
Pioneer 34A16 (HX1/LL)	2, 7, 8, 9	25643	13.7	0	167.3*	127.8	147.6
Pioneer 34P89 (HX1,LL)	2, 7, 8, 9	16695	13.4	0	166.8*	122.8	144.8
Croplan Genetics 6818 RB	5	29142	13.6	0	166.1	--	--
Croplan Genetics 731 HX/L	5	23043	12.9	0	165.4	--	--
DEKALB DKC64-78 (RR2/YGCB)	9	24153	13.0	0	164.8	--	--
NC+ 4947RB	6	22405	12.8	0	163.4	118.1	140.8
Midland MG 448BT/RR	9	28608	12.5	0	159.7	--	--
NC+ 1773RB	6	20648	13.1	0	159.7	--	--
Croplan Genetics 7505 CR	5	19614	13.7	0	158.9	--	--
Dyna-Gro 55P79	8, 9	19684	13.2	0	158.3	--	--
Stone 8K339	9	20702	12.3	0	156.4	--	--
DEKALB DKC60-19 (RR2/YGCB)	9	23803	13.1	0	155.7	128.1	141.9
DEKALB DKC61-73 (RR2/YGCB)	9	23678	12.9	0	154.2	--	--
Fielder's Choice NG 6810	9	23857	13.1	0	153.8	--	--
NC+ 4251RB	6	25460	12.7	1	153.7	--	--
Dyna-Gro 57X97	8, 9	22333	13.3	0	153.5	138.9*	146.2
NC+ 3611RB	6	20563	13.1	0	152.9	--	--
DEKALB DKC64-23 (RR2/YGRW)	9	20532	13.3	0	150.2	--	--
NC+ 2171RB	6	22659	13.1	0	149.2	--	--
Champion CSX 1138 Bt	NA	25666	12.9	0	148.5	--	--
DEKALB RX785RR2/YGCB	9	24418	12.8	0	145.6	--	--
Midland MG 7A58BT/RR	9	20744	14.1	4	144.4	119.4	131.9
Dyna-Gro 57F20	8, 9	19569	13.1	0	142.1	--	--
Pioneer 35P10 (YGCB, RR2)	2, 7, 8, 9	24571	12.9	15	131.9	--	--
Fielder's Choice 7850B	9	16168	13.4	0	129.2	--	--
Dyna-Gro 57F06	9	13558	12.9	0	125.0	125.5	125.3
TEST AVERAGE		23342	13.1	1	160.3	122.5	141.4
L.S.D. AT .10		7008	0.7	4	23.3	19.9	
C.V. %		22.0	3.8		10.2	10.8	

-- Data not available.

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

TABLE 25. Performance Summary for Non-Irrigated Hybrids evaluated at Three Southwest Missouri locations (Harrisonville, Urich, Lamar) during 2007.

<u>Harrisonville</u> Planted: 04-24 Harvested: 09-12 Growing Season Rainfall: 35.0 in.	<u>Urich</u> Planted: 05-21 Harvested: 09-21 Growing Season Rainfall: 31.2 in.	<u>Lamar</u> Planted: 05-01 Harvested: 09-27 Growing Season Rainfall: 37.7 in.
-------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------

Brand-Hybrid	Yield (Bu/Acre)			Mean
	Harrisonville	Urich	Lamar	
Non-Irrigated				
Garst 8353CB/LL	229.1**	130.9*	178.7*	179.6**
Garst 8452CB/LL	208.5*	137.2*	190.1**	178.6*
Croplan Genetics 7505 CR	217.0*	138.7**	158.9	171.5*
NC+ 5392B	213.0*	132.9*	168.6*	171.5*
Dyna-Gro 57F87	196.3	136.8*	177.1*	170.1*
Mycogen 2P722	204.3	130.4*	175.3*	170.0*
NC+ 4947RB	211.9*	132.8*	163.4	169.4*
Pioneer 33D13 (HX1, LL)	210.1*	109.6	179.6*	166.4
Midland MG 7A53BT	196.4	128.3*	168.5*	164.4
Mycogen 2T801	202.8	121.1	168.8*	164.2
DEKALB DKC61-73 (RR2/YGCB)	208.5*	128.8*	154.2	163.8
Mycogen 2C727	197.3	124.1	169.9*	163.8
Croplan Genetics 6818 RB	196.0	129.0*	166.1	163.7
DEKALB RX785RR2/YGCB	226.4*	115.3	145.6	162.4
Garst 8535YG1/IT	196.7	113.7	175.5*	162.0
NC+ 4251RB	207.2*	124.9*	153.7	161.9
DEKALB DKC60-19 (RR2/YGCB)	195.7	133.6*	155.7	161.7
Fielder's Choice NG 6810	202.9	126.6*	153.8	161.1
Pioneer 34A16 (HX1/LL)	184.1	128.9*	167.3*	160.1
DEKALB DKC64-23 (RR2/YGRW)	209.3*	120.2	150.2	159.9
Champion CSX 1148 Bt	207.0*	103.2	168.2*	159.5
DEKALB DKC64-78 (RR2/YGCB)	179.5	132.6*	164.8	159.0
Champion CSX 1138 Bt	201.2	127.2*	148.5	159.0
Pioneer 34P89 (HX1,LL)	193.6	112.8	166.8*	157.7
Stone 8K339	193.8	120.6	156.4	156.9
NC+ 3611RB	186.4	130.1*	152.9	156.5
Croplan Genetics 731 HX/L	202.2	101.1	165.4	156.2
NC+ 1773RB	187.0	121.5	159.7	156.1
Pioneer 35P10 (YGCB, RR2)	206.5*	129.1*	131.9	155.8
Stone 7N412	172.3	120.7	170.3*	154.4
NC+ 2171RB	190.5	122.8	149.2	154.2
Mycogen 2M797	195.2	94.8	171.9*	154.0
Dyna-Gro 57P16	172.7	112.2	174.2*	153.0
Midland MG 448BT/RR	192.5	102.5	159.7	151.6
Dyna-Gro 57X97	187.0	109.2	153.5	149.9
Dyna-Gro 55P79	178.2	108.7	158.3	148.4
Midland MG 7A58BT/RR	182.5	118.0	144.4	148.3
Dyna-Gro 57F20	182.3	120.4	142.1	148.3
Fielder's Choice 7850B	151.7	118.9	129.2	133.3
Dyna-Gro 57F06	132.8	124.8*	125.0	127.5
TEST AVERAGE	195.2	121.9	160.3	159.1
L.S.D. AT .10	24.7	14.4	23.3	12.1
C.V. %	8.8	8.3	10.2	9.1

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

Note: To view seed treatments for these hybrids refer to the location table or the characteristics chart.

TABLE 26. Irrigated Corn Test

Southwest Region: Lamar, MO (Barton County)

Soil Type: Parson Silt Loam Soil Test: pH=7.0, OM=2.3%, P=90, K=356

European Corn Borer Rating: Damaged Plants= 30%, Tunnel Length/Plant= 1.25 in.

Rainfall: Apr.=5.4, May=6.4, June=19.0, July=4.7, Aug.=2.2 Total=37.7 in.

Irrigation: 2.0 in.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
Garst 8247YG1	5	36041	14.4	9	235.7**	--	--
Garst 8353CB/LL	5	35449	14.2	1	225.4*	--	--
Pioneer 33K40 (HX1, LL)	2, 7, 8, 9	38028	14.9	2	219.2	152.7*	186.0
Garst 8294YG1/IT	5	32390	14.5	0	218.5	133.6	176.1
Pioneer 31N28 (YGCB)	2, 7, 8, 9	34329	14.6	3	216.9	--	--
Pioneer 33D13 (HX1, LL)	2, 7, 8, 9	35793	14.0	1	215.5	145.7*	180.6
Kruger 0115	6	35486	14.4	1	214.7	--	--
NC+ 5715B	6	36808	14.0	0	213.4	--	--
Kruger 5116YGCB	6	38015	13.7	2	209.0	--	--
Kruger 2212RR/YGCB	6	36328	14.1	1	208.9	--	--
Midland MG 7A58BT/RR	9	33976	15.1	21	208.9	147.3*	178.1
NC+ 5402RB	6	35553	14.2	3	208.8	--	--
DEKALB DKC64-23 (RR2/YGRW)	9	34916	13.7	0	207.4	--	--
Kruger 5014YGCB	6	34994	14.0	0	207.3	--	--
NC+ 5392B	6	37089	13.7	0	207.2	--	--
NC+ 4251RB	6	34651	13.2	0	207.1	--	--
Rainbow X1176HX	NA	34024	15.0	0	207.0	--	--
Kruger 2210RR/YGCB	6	36651	13.4	10	206.5	--	--
Kruger 2411RR/YGCB	6	36884	13.7	0	205.3	--	--
MOF2 WJC-49	NA	33969	14.7	18	205.2	--	--
Rainbow X1076HX	NA	34756	12.8	0	204.3	--	--
Kruger 1015RR/YGCB	6	36044	13.4	4	204.2	--	--
USA 1145	8	31960	14.1	11	204.0	152.6*	178.3
Rainbow 3105YGCB	NA	35342	13.6	1	203.8	149.4*	176.6
Kruger 5013YGCB	6	36924	13.4	0	203.6	--	--
MOF2 WJC-91	NA	36475	15.2	0	203.2	--	--
Kruger 8112HX	6	33726	13.6	3	202.4	--	--
Rainbow X1116HX	NA	34737	13.7	3	202.3	--	--
USA 1145bt	8	34982	15.6	11	201.7	--	--
Fielder's Choice NG 6810	9	35788	13.9	0	200.7	--	--
Garst 8378YG1	5	35834	14.1	1	200.6	--	--
Kruger 8414HX	6	36575	13.9	12	200.2	149.2*	174.7
DEKALB DKC64-78 (RR2/YGCB)	9	34470	14.1	0	199.7	--	--
Kruger 8616HX	6	36411	14.2	26	199.2	145.6*	172.4
Midland MG 436BT	9	33929	13.5	7	198.0	--	--
Kruger 5010YGCB	6	35899	13.2	0	196.3	--	--
MOF2 WJC-81	NA	34635	14.2	3	196.2	--	--
DEKALB DKC61-73 (RR2/YGCB)	9	35129	13.4	7	196.0	--	--
MOF2 WJC-55	NA	35379	13.4	1	194.4	--	--
Kruger 4411RR/YGRW	6	34519	13.2	2	193.7	--	--

TABLE 26. Continued.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
MOF2 WJC-61	NA	35776	14.1	1	192.8	--	--
Kruger 2613RR/YGCB	6	35912	13.7	4	191.1	--	--
MOF2 WJC-69	NA	35041	13.4	2	190.8	--	--
Kruger 2314RR/YGCB	6	35784	14.0	0	190.6	--	--
DEKALB RX785RR2/YGCB	9	35753	14.2	12	189.4	--	--
DEKALB RX752RR/YG	9	33282	13.5	0	184.5	156.2*	170.4
Rainbow 3142YGCB	NA	35547	14.2	0	184.4	147.1*	165.8
Rainbow 3158YGCB	NA	35250	15.3	20	184.1	140.7	162.4
TEST AVERAGE		35359	14.0	4	203.3	143.6	173.5
L.S.D. AT .10		1491	0.7	11	14.3	16.9	
C.V. %		3.0	3.5		4.9	8.0	

-- Data not available.

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxy); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

Southeast Region Crop Management Summary

There are three locations in the Southeast Region for the Irrigated Corn Test and the New Technology Corn Test. They are located in counties where a significant number of acres of irrigated corn are grown according to the Missouri Agricultural Statistics Service. Cultural practices vary slightly between locations, but tend to reflect those followed by farmers in the area.

Yields at Oran and Charleston were very good this year despite growing season rainfall being significantly below normal. At these two sites, there was virtually no European corn borer pressure and plenty of irrigation to fill in where Mother Nature left off. An additional site, Portageville, was planted, but due to circumstances beyond our control, yields were too low to include in this report.

Climatological information for the growing season (April 1 – August 31) for the Southeast Region is summarized below and cultural practices for each site are listed in table 27.

Average temperature = 73.0 degrees, 1.4 degrees above normal

Average precipitation = 13.7”, 7.1” below normal

Growing degree days = 3394 days, 58 above normal

Table 27. Southeast Region Crop Management Summary

Location	Planting date	Harvest date	Fertilizer			Tillage	Herbicide		Insecticide
			N	P ₂ O ₅	K ₂ O		Pre	Post	
<i>Irrigated and New Technology Corn Tests</i>									
Oran	04-10	09-04	220	40	80	Conv.	Lexar, Aatrex		Force 3G
Charleston	04-09	09-10	260	46	60	Conv.	Resolve, Aatrex, Asana		Force 3G

TABLE 28. Irrigated Corn Test

Southeast Region: Oran, MO (Scott County)

Soil Type: Commerce Silt Loam Soil Test: pH=5.8, OM=1.9%, P=38, K=218

European Corn Borer Rating: Damaged Plants= 0%, Tunnel Length/Plant= 0 in.

Rainfall: Apr.=3.2, May=3.4, June=2.9, July=4.1, Aug.=0.8 Total=14.4 in.

Irrigation: 9 in.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
Gateway 7915YGCBRR2	9	33391	17.5	0	294.9**	--	--
Garst 8294YG1/IT	5	28184	15.2	0	293.2*	234.1*	263.7
Pioneer 31D61	2, 7, 8, 9	29836	16.1	0	289.5*	--	--
Pioneer 31P41	2, 7, 8, 9	29172	15.7	0	289.5*	--	--
Dyna-Gro 58P60	9	30697	17.3	0	288.0*	221.8*	254.9
Fielder's Choice 7880S	9	31570	17.1	0	287.0*	--	--
NK Brand N68-B8	6	31879	13.4	0	285.2*	217.1	251.2
Dyna-Gro 57P69	9	31894	14.1	0	283.9*	206.5	245.2
Willcross 716BX1	NA	31436	15.1	0	283.2*	--	--
UniSouth Adler 3515RRBT	9	31078	14.6	0	283.0*	--	--
Laser L-9H63BT	5	29228	14.8	0	282.8*	--	--
UniSouth Adler 8140RRBT	9	32745	17.3	0	282.7*	224.8*	253.8
Merschman M-816A-3	8, 9, 10	30917	17.3	0	281.7*	--	--
Willcross 718DX1	NA	32734	16.6	0	280.8*	--	--
MFA MORCORN MC4474 RR	6	28856	16.8	0	280.5*	233.8*	257.2
Belle 1646RY	5, 7	30455	17.1	0	280.0*	--	--
Crow's 5262 S	6	31380	14.8	0	279.7*	--	--
Merschman M-512C-3	4, 9, 10	30601	15.7	0	279.6*	221.5*	250.6
Dyna-Gro 57K58	9	30219	16.1	0	279.6*	223.8*	251.7
Dyna-Gro 57G48	9	30405	16.5	0	279.6*	--	--
Pioneer 33F85	2, 7, 8, 9	30719	15.0	0	279.5*	--	--
AgriGold A6633BtRR	9	30539	16.4	0	278.9*	--	--
DEKALB DKC67-23 (RR2/YGCB)	9	31583	15.4	0	278.8*	214.9	246.9
Wyffels W8250	2, 7, 8, 9	31714	15.2	0	278.5*	--	--
Dairyland 6114 RR	1, 4, 9	29847	16.1	0	278.4*	--	--
Gateway 4916YGCBRR2	9	28834	16.7	0	277.5*	235.0*	256.3
Belle 1844RY	5, 7	30778	17.0	0	277.2*	--	--
Croplan Genetics 691 BTLL	6	29659	14.0	0	276.2*	214.7	245.5
Willcross 719DX1	NA	31579	17.1	0	276.0*	--	--
AgriGold A6479BtRR	9	31286	14.4	0	275.5*	--	--
Dyna-Gro 58P59	9	29938	17.4	0	274.9*	225.0*	250.0
Dyna-Gro 57K33	9	30071	16.3	0	274.7	204.3	239.5
MFA MORCORN XP174 CB	6	30928	14.7	0	274.7	--	--
Croplan Genetics 6992 RB	6	28759	16.3	0	274.6	--	--
Merschman M-612D-3	4, 9, 10	31939	14.5	0	273.9	198.1	236.0
AgriGold A6459Bt	9	32303	14.6	0	273.6	--	--
DEKALB RX715RR2/YGCB	9	29753	14.7	0	273.2	232.2*	252.7
Crow's 4842 S	6	31056	15.0	0	272.9	--	--
DEKALB DKC63-46 (RR2/YGCB)	9	29737	15.2	0	272.2	205.5	238.9
Dairyland 7611 YGCB/RR	1, 4, 9	29599	13.5	0	272.1	--	--
Crow's 5302 S	6	31179	15.3	0	271.9	--	--
Merschman M-814B-6	8, 9, 10	29969	13.8	0	271.8	--	--
Merschman M-811F-3	8, 9, 10	31554	14.5	0	271.7	--	--
Belle 1545RY	5, 7	27516	16.4	0	271.6	233.3*	252.5
Wyffels W7383	2, 7, 8, 9	30672	14.4	0	271.2	211.5	241.4

TABLE 28. Continued.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007 2006	bu/acre	
Fielder's Choice NG 6810	9	32087	15.7	0	271.2	--	--
Crow's 5132 S	6	31873	15.3	0	270.6	--	--
Gateway 2416YGCB	9	29065	16.8	0	270.4	222.0*	246.2
Dairyland 7615 YGCB/RR	1, 4, 9	28749	15.3	0	270.4	--	--
Dyna-Gro 57P12	9	30512	16.2	0	269.9	209.2	239.6
Belle 1722R	5, 7	30122	17.0	0	269.5	--	--
FFR 835BT	9	29447	17.0	0	268.6	213.4	241.0
DEKALB DKC64-78 (RR2/YGCB)	9	29252	15.1	0	268.5	--	--
MFA MORCORN MC4483 RR/CB	6	28185	16.8	0	268.0	--	--
Dyna-Gro 57F87	9	30099	16.4	0	267.9	213.3	240.6
Croplan Genetics 7505 RR	6	30133	15.3	0	267.7	--	--
NK Brand N76-D3	6	31416	16.4	0	266.9	237.7*	252.3
Belle 1533Y	5, 7	29017	17.2	0	266.7	216.4	241.6
Dairyland 6009 RR	1, 4, 9	27878	13.8	0	265.5	--	--
Merschman M-711E-3	4, 9, 10	28679	13.5	0	265.3	195.0	230.2
Merschman M-810H-3	8, 9, 10	28955	14.2	0	264.3	--	--
Belle 1147RY	5, 7	31352	15.6	0	263.8	--	--
Pioneer 31N28 (YGCB)	2, 7, 8, 9	29853	15.5	0	263.8	234.8*	249.3
AgriGold A6639RR	9	30704	15.2	0	263.6	--	--
Wyffels W9127	2, 7, 8, 9	29767	15.8	0	263.5	--	--
Dairyland 7212 YGCB/RR	1, 4, 9	28308	13.3	0	262.7	--	--
Croplan Genetics 799 RB	6	27643	16.1	0	261.0	--	--
Willcross 3194RRCB	NA	27614	17.3	0	260.8	--	--
Merschman M-815A	8, 9, 10	30099	15.7	0	260.1	--	--
DEKALB DKC65-47 (RR2)	9	29758	15.2	0	259.0	--	--
Gateway 6414CB/LL	9	29859	13.6	0	257.8	--	--
Dyna-Gro 58P45	9	29022	16.5	0	255.9	224.1*	240.0
Trisler T-8N52CB	9	30209	14.5	0	255.6	--	--
FFR 753BT	9	30102	14.8	0	254.5	--	--
Dairyland 7010 YGCB/RR	1, 4, 9	29680	13.7	0	254.1	--	--
Dyna-Gro 58P74	9	31753	15.2	0	254.1	--	--
MFA MORCORN XP180 RR/CB	6	29304	16.3	0	252.9	--	--
Croplan Genetics 818 BT	6	31130	16.1	0	252.8	215.2	234.0
Dyna-Gro 58P19	9	26622	16.1	0	252.3	--	--
FFR 787RR2BT	9	28386	15.5	0	252.2	--	--
Dairyland 6210 RR	1, 4, 9	28805	12.3	0	252.0	--	--
Merschman M-314A-3	4, 9, 10	31362	17.1	0	251.6	221.2*	236.4
Trisler T-7A01RR	9	28419	14.3	0	248.6	--	--
Willcross 3125RRCB	NA	28802	15.1	0	245.4	201.7	223.6
MFA MORCORN XP182 RR	6	27091	15.2	0	242.4	--	--
Dyna-Gro 58K40	9	27220	16.7	0	239.8	202.8	221.3
Dyna-Gro 58K02	9	28838	17.3	0	232.8	195.0	213.9
TEST AVERAGE		30062	15.6	0	269.7	212.7	241.2
L.S.D. AT .10		2065	1.1	0	20.0	20.5	
C.V. %		5.0	4.9		5.5	6.9	

-- Data not available.

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

TABLE 29. Irrigated Corn Test

Southeast Region: Charleston, MO (Mississippi County)

Soil Type: Dundee Silt Loam Soil Test: pH=5.3, OM=3.2%, P=48, K=466

European Corn Borer Rating: Damaged Plants= 0%, Tunnel Length/Plant= 0 in.

Rainfall: Apr.=4.0, May=3.1, June=5.0, July=5.1, Aug.=0.3 Total=17.5 in.

Irrigation: 10 in.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007 2006	bu/acre	
Gateway 4916YGCBRR2	9	30318	15.6	0	270.8**	260.4*	265.6
Merschman M-612D-3	4, 9, 10	29969	14.6	0	265.2*	247.6	256.4
Crow's 4842 S	6	30550	14.5	1	263.9*	--	--
Dyna-Gro 57F87	9	28924	15.3	0	262.7*	259.0*	260.9
Willcross 716BX1	NA	29621	14.3	0	262.2*	--	--
DEKALB DKC67-23 (RR2/YGCB)	9	27994	14.9	0	255.2*	272.2*	263.7
Willcross 719DX1	NA	29156	15.4	0	254.9*	--	--
Dyna-Gro 58P59	9	28924	13.8	1	254.1*	258.7*	256.4
Belle 1533Y	5, 7	30434	15.2	0	253.9*	267.6*	260.8
NK Brand N76-D3	6	28807	14.9	0	253.4*	280.3**	266.9
NK Brand N68-B8	6	29621	14.1	0	252.8*	266.7*	259.8
FFR 835BT	9	30434	15.1	0	252.8*	240.1	246.5
Dairyland 7611 YGCB/RR	1, 4, 9	31131	14.3	1	252.7*	--	--
Gateway 7915YGCBRR2	9	29737	15.4	0	252.5*	--	--
Merschman M-816A-3	8, 9, 10	29505	15.4	0	252.2*	--	--
Wyffels W7383	2, 7, 8, 9	30318	14.5	0	252.1*	255.0	253.6
Merschman M-512C-3	4, 9, 10	30899	14.0	0	251.9*	234.8	243.4
Garst 8294YG1/IT	5	27646	14.8	0	251.7*	279.6*	265.7
Laser L-9H63BT	5	28343	15.3	0	250.9*	--	--
FFR 787RR2BT	9	26949	15.5	0	250.9*	--	--
AgriGold A6633BtRR	9	29156	14.6	0	250.7*	--	--
Belle 1147RY	5, 7	29388	14.1	1	250.1*	--	--
Merschman M-810H-3	8, 9, 10	29621	13.6	0	249.4*	--	--
Crow's 5302 S	6	30318	14.8	0	248.5*	--	--
Pioneer 31N28 (YGCB)	2, 7, 8, 9	30550	15.0	0	248.5*	239.5	244.0
AgriGold A6459Bt	9	28227	15.0	0	248.2*	--	--
Dairyland 7010 YGCB/RR	1, 4, 9	29156	14.5	0	247.9*	--	--
Dyna-Gro 57K33	9	30085	14.9	4	247.7*	243.7	245.7
Pioneer 31P41	2, 7, 8, 9	28808	14.8	10	247.4*	--	--
MFA MORCORN MC4474 RR	6	27646	15.0	0	247.4*	246.6	247.0
DEKALB DKC63-46 (RR2/YGCB)	9	30085	13.3	0	247.3*	241.8	244.6
UniSouth Adler 3515RRBT	9	30434	14.4	1	247.0*	--	--
Willcross 3194RRCB	NA	27646	15.2	0	246.9*	--	--
MFA MORCORN MC4483 RR/CB	6	29040	14.7	0	246.3*	--	--
Dairyland 7615 YGCB/RR	1, 4, 9	29505	15.0	0	245.4	--	--
Croplan Genetics 6992 RB	6	27646	14.9	0	245.1	--	--
Dairyland 6114 RR	1, 4, 9	28459	13.7	0	245.1	--	--
Dyna-Gro 57P69	9	31944	13.9	0	243.8	263.3*	253.6
MFA MORCORN XP174 CB	6	30202	14.2	2	242.9	--	--
Merschman M-314A-3	4, 9, 10	27995	14.1	0	242.3	256.5	249.4
Fielder's Choice 7880S	9	27878	15.3	1	242.1	--	--
Croplan Genetics 7505 RR	6	29388	14.5	3	241.5	--	--
Dyna-Gro 57P12	9	29040	15.1	0	240.6	254.5	247.6
Willcross 718DX1	NA	30550	14.9	0	240.3	--	--
Merschman M-711E-3	4, 9, 10	28110	14.0	0	240.1	259.9*	250.0

TABLE 29. Continued.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
Dairyland 7212 YGCB/RR	1, 4, 9	26484	14.1	0	239.7	--	--
Dyna-Gro 57K58	9	28227	14.1	6	238.0	272.0*	255.0
Trisler T-8N52CB	9	31944	14.6	3	237.9	--	--
Belle 1844RY	5, 7	27646	14.6	0	237.9	--	--
Pioneer 33F85	2, 7, 8, 9	29040	14.8	0	237.7	--	--
Belle 1545RY	5, 7	27297	14.9	0	237.6	261.0*	249.3
AgriGold A6639RR	9	27065	14.7	0	237.6	--	--
Merschman M-811F-3	8, 9, 10	29853	14.0	0	237.2	--	--
Crow's 5262 S	6	29388	14.1	0	236.8	--	--
Fielder's Choice NG 6810	9	28459	13.5	0	236.7	--	--
DEKALB DKC64-78 (RR2/YGCB)	9	29040	14.3	0	236.4	--	--
UniSouth Adler 8140RRBT	9	30666	15.3	0	236.1	247.3	241.7
MFA MORCORN XP180 RR/CB	6	27994	15.5	0	236.0	--	--
Dyna-Gro 58P60	9	27181	15.0	0	235.7	255.6	245.7
Willcross 3125RRCB	NA	27065	14.2	0	235.6	243.1	239.4
Wyffels W9127	2, 7, 8, 9	30085	14.1	0	233.8	--	--
Merschman M-814B-6	8, 9, 10	27065	13.7	3	233.7	--	--
Wyffels W8250	2, 7, 8, 9	29388	13.8	0	233.6	--	--
Dyna-Gro 58P19	9	25787	14.8	0	232.4	--	--
AgriGold A6479BtRR	9	27762	14.0	0	232.1	--	--
Merschman M-815A	8, 9, 10	27995	15.9	0	231.7	--	--
Pioneer 31D61	2, 7, 8, 9	28924	14.6	0	230.2	--	--
DEKALB RX715RR2/YGCB	9	28575	14.0	0	229.7	259.5*	244.6
Dairyland 6210 RR	1, 4, 9	29621	14.2	4	229.5	--	--
Gateway 2416YGCB	9	28111	13.9	1	229.2	263.3*	246.3
Belle 1722R	5, 7	28691	14.7	4	228.8	--	--
Dairyland 6009 RR	1, 4, 9	26833	12.9	0	225.8	--	--
Croplan Genetics 818 BT	6	28807	14.5	0	225.5	259.5*	242.5
Crow's 5132 S	6	28343	14.4	0	225.3	--	--
FFR 753BT	9	27414	14.2	0	224.8	--	--
Croplan Genetics 799 RB	6	25788	14.2	0	224.6	--	--
Croplan Genetics 691 BTLL	6	28110	14.0	0	224.4	256.9	240.7
Dyna-Gro 58P45	9	25787	14.9	0	224.2	268.2*	246.2
Dyna-Gro 57G48	9	29272	14.8	17	224.1	--	--
Dyna-Gro 58K02	9	27530	14.7	10	222.5	226.9	224.7
Belle 1646RY	5, 7	28111	13.2	0	222.1	--	--
Dyna-Gro 58P74	9	27297	13.9	1	219.7	--	--
DEKALB DKC65-47 (RR2)	9	28227	14.0	0	215.2	--	--
Dyna-Gro 58K40	9	26949	15.5	9	214.5	243.6	229.1
Trisler T-7A01RR	9	27646	14.1	3	213.8	--	--
Gateway 6414CB/LL	9	26833	14.6	0	212.5	--	--
MFA MORCORN XP182 RR	6	23000	13.4	0	202.0	--	--
TEST AVERAGE		28683	14.5	1	240.0	253.2	246.6
L.S.D. AT .10		2409	0.9	5	25.0	22.7	
C.V. %		6.2	4.5		7.5	6.4	

-- Data not available.

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

TABLE 30. Performance Summary for Irrigated Hybrids evaluated at Two Southeast Missouri locations (Oran, Charleston) during 2007.

Oran
Planted: 04-10
Harvested: 09-04
Growing Season Rainfall: 14.4 in.
Irrigation: 9 in.

Charleston
Planted: 04-09
Harvested: 09-10
Growing Season Rainfall: 17.5 in.
Irrigation: 10 in.

Brand-Hybrid	Yield (Bu/Acre)		Mean
	Oran	Charleston	
Irrigated			
Gateway 4916YGCBRR2	277.5*	270.8**	274.1**
Gateway 7915YGCBRR2	294.9**	252.5*	273.7*
Willcross 716BX1	283.2*	262.2*	272.7*
Garst 8294YG1/IT	293.2*	251.7*	272.4*
Merschman M-612D-3	273.9	265.2*	269.6*
NK Brand N68-B8	285.2*	252.8*	269.0*
Pioneer 31P41	289.5*	247.4*	268.4*
Crow's 4842 S	272.9	263.9*	268.4*
DEKALB DKC67-23 (RR2/YGCB)	278.8*	255.2*	267.0*
Merschman M-816A-3	281.7*	252.2*	267.0*
Laser L-9H63BT	282.8*	250.9*	266.8*
Merschman M-512C-3	279.6*	251.9*	265.8*
Willcross 719DX1	276.0*	254.9*	265.4*
Dyna-Gro 57F87	267.9	262.7*	265.3*
UniSouth Adler 3515RRBT	283.0*	247.0*	265.0*
AgriGold A6633BtRR	278.9*	250.7*	264.8*
Fielder's Choice 7880S	287.0*	242.1	264.6*
Dyna-Gro 58P59	274.9*	254.1*	264.5*
MFA MORCORN MC4474 RR	280.5*	247.4*	263.9*
Dyna-Gro 57P69	283.9*	243.8	263.8*
Dairyland 7611 YGCB/RR	272.1	252.7*	262.4*
Dyna-Gro 58P60	288.0*	235.7	261.8*
Dairyland 6114 RR	278.4*	245.1	261.8*
Wyffels W7383	271.2	252.1*	261.6*
Dyna-Gro 57K33	274.7	247.7*	261.2*
AgriGold A6459Bt	273.6	248.2*	260.9*
FFR 835BT	268.6	252.8*	260.7*
Willcross 718DX1	280.8*	240.3	260.5*
Belle 1533Y	266.7	253.9*	260.3*
Crow's 5302 S	271.9	248.5*	260.2*
NK Brand N76-D3	266.9	253.4*	260.1*
Croplan Genetics 6992 RB	274.6	245.1	259.8*
Pioneer 31D61	289.5*	230.2	259.8*
DEKALB DKC63-46 (RR2/YGCB)	272.2	247.3*	259.8*
UniSouth Adler 8140RRBT	282.7*	236.1	259.4*
MFA MORCORN XP174 CB	274.7	242.9	258.8*
Dyna-Gro 57K58	279.6*	238.0	258.8*
Pioneer 33F85	279.5*	237.7	258.6*
Crow's 5262 S	279.7*	236.8	258.2*
Dairyland 7615 YGCB/RR	270.4	245.4	257.9
Belle 1844RY	277.2*	237.9	257.6
MFA MORCORN MC4483 RR/CB	268.0	246.3*	257.2
Belle 1147RY	263.8	250.1*	256.9
Merschman M-810H-3	264.3	249.4*	256.8
Pioneer 31N28 (YGCB)	263.8	248.5*	256.1

Table 30. Continued.

Brand-Hybrid	Yield (Bu/Acre)		Mean
	Oran	Charleston	
Irrigated			
Wyffels W8250	278.5*	233.6	256.0
Dyna-Gro 57P12	269.9	240.6	255.2
Belle 1545RY	271.6	237.6	254.6
Croplan Genetics 7505 RR	267.7	241.5	254.6
Merschman M-811F-3	271.7	237.2	254.4
Fielder's Choice NG 6810	271.2	236.7	254.0
Willcross 3194RRCB	260.8	246.9*	253.8
AgriGold A6479BtRR	275.5*	232.1	253.8
Merschman M-814B-6	271.8	233.7	252.7
Merschman M-711E-3	265.3	240.1	252.7
DEKALB DKC64-78 (RR2/YGCB)	268.5	236.4	252.4
Dyna-Gro 57G48	279.6*	224.1	251.8
FFR 787RR2BT	252.2	250.9*	251.5
DEKALB RX715RR2/YGCB	273.2	229.7	251.4
Dairyland 7212 YGCB/RR	262.7	239.7	251.2
Belle 1646RY	280.0*	222.1	251.0
Dairyland 7010 YGCB/RR	254.1	247.9*	251.0
AgriGold A6639RR	263.6	237.6	250.6
Croplan Genetics 691 BTLL	276.2*	224.4	250.3
Gateway 2416YGCB	270.4	229.2	249.8
Belle 1722R	269.5	228.8	249.2
Wyffels W9127	263.5	233.8	248.6
Crow's 5132 S	270.6	225.3	248.0
Merschman M-314A-3	251.6	242.3	247.0
Trisler T-8N52CB	255.6	237.9	246.8
Merschman M-815A	260.1	231.7	245.9
Dairyland 6009 RR	265.5	225.8	245.6
MFA MORCORN XP180 RR/CB	252.9	236.0	244.4
Croplan Genetics 799 RB	261.0	224.6	242.8
Dyna-Gro 58P19	252.3	232.4	242.3
Dairyland 6210 RR	252.0	229.5	240.8
Willcross 3125RRCB	245.4	235.6	240.5
Dyna-Gro 58P45	255.9	224.2	240.0
FFR 753BT	254.5	224.8	239.6
Croplan Genetics 818 BT	252.8	225.5	239.2
DEKALB DKC65-47 (RR2)	259.0	215.2	237.1
Dyna-Gro 58P74	254.1	219.7	236.9
Gateway 6414CB/LL	257.8	212.5	235.1
Trisler T-7A01RR	248.6	213.8	231.2
Dyna-Gro 58K02	232.8	222.5	227.6
Dyna-Gro 58K40	239.8	214.5	227.2
MFA MORCORN XP182 RR	242.4	202.0	222.2
TEST AVERAGE	269.7	240.0	254.9
L.S.D. AT .10	20.0	25.0	15.9
C.V. %	5.5	7.5	6.5

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

Note: To view seed treatments for these hybrids refer to the location table or the characteristics chart.

TABLE 31. New Technology Corn Test

Southeast Region: Oran, MO (Scott County)

Soil Type: Commerce Silt Loam Soil Test: pH=5.8, OM=1.9%, P=38, K=218

European Corn Borer Rating: Damaged Plants= 0%, Tunnel Length/Plant= 0 in.

Rainfall: Apr.=3.2, May=3.4, June=2.9, July=4.1, Aug.=0.8 Total=14.4 in.

Irrigation: 9 in.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007 -----bu/acre-----	2006	
Pioneer 33N58 (HX1/LL/RR2)	2, 7, 8, 9	31450	15.6	0	280.5**	--	--
Wyffels W7381	2, 7, 8, 9	30928	15.3	0	277.6*	--	--
Gateway 7812YGPLRR2	9	30405	12.6	0	276.2*	--	--
Dyna-Gro 57B90	9	28575	16.4	0	272.6*	255.2*	263.9
Mycogen 2Y737	3, 5	30840	15.1	0	271.4*	--	--
Trisler T-7N51PLRR	9	31189	13.1	0	268.0*	--	--
High Yield Check 6	--	28750	16.5	0	266.4*	247.0*	256.7
Pioneer 33M57 (HX1/LL/RR2)	2, 7, 8, 9	31973	16.9	0	265.9*	--	--
Mycogen 2T787	3, 5	31102	16.2	0	261.0	--	--
High Yield Check 4	--	30666	16.4	0	259.9	240.4*	250.2
Trisler T-7N52PLRR	9	29446	13.7	0	256.9	--	--
Gateway 6814YGPLRR2	9	27966	12.9	0	255.2	--	--
Wyffels W8251	2, 7, 8, 9	27443	14.6	0	253.2	216.4	234.8
Gateway 6816YGPLRR2	9	27443	15.7	0	252.5	--	--
Crow's 8T215	6	26659	16.4	0	252.2	--	--
Mycogen 2W814	3, 5	30318	15.4	0	247.7	--	--
High Yield Check 5	--	26484	16.1	0	244.1	241.8*	243.0
TEST AVERAGE		29508	15.2	0	262.4	237.5	250.0
L.S.D. AT .10		1721	0.7	NS	18.2	17.7	
C.V. %		4.9	3.7		5.9	6.2	

-- Data not available.

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

NS Not Significant

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

TABLE 32. New Technology Corn Test

Southeast Region: Charleston, MO (Mississippi County)

Soil Type: Dundee Silt Loam Soil Test: pH=5.3, OM=3.2%, P=48, K=466

European Corn Borer Rating: Damaged Plants= 0%, Tunnel Length/Plant= 0 in.

Rainfall: Apr.=4.0, May=3.1, June=5.0, July=5.1, Aug.=0.3 Total=17.5 in.

Irrigation: 10 in.

Brand-Variety	Seed Treatment ⁺	2007			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2007	2006	
Pioneer 33N58 (HX1/LL/RR2)	2, 7, 8, 9	30405	15.0	0	261.7**	--	--
Mycogen 2Y737	3, 5	28750	15.4	0	258.1*	--	--
Mycogen 2T787	3, 5	27966	16.1	0	255.7*	--	--
Pioneer 33M57 (HX1/LL/RR2)	2, 7, 8, 9	28750	16.7	0	253.9*	--	--
Wyffels W7381	2, 7, 8, 9	28924	14.4	0	251.5*	--	--
Gateway 6816YGPLRR2	9	26310	15.3	0	246.6*	--	--
High Yield Check 4	--	26223	16.6	0	244.1*	261.2*	252.7
Trisler T-7N52PLRR	9	28488	14.4	0	243.2*	--	--
Trisler T-7N51PLRR	9	27617	13.7	0	242.8*	--	--
Gateway 7812YGPLRR2	9	28314	13.8	0	240.6	--	--
Dyna-Gro 57B90	9	25875	14.8	0	236.6	261.9*	249.3
Mycogen 2W814	3, 5	27617	16.8	0	234.8	--	--
High Yield Check 6	--	26572	15.3	1	232.4	271.9**	252.2
Gateway 6814YGPLRR2	9	25788	14.5	0	229.8	--	--
Wyffels W8251	2, 7, 8, 9	27443	14.1	0	227.0	257.3	242.2
High Yield Check 5	--	23697	15.1	0	225.9	266.3*	246.1
Crow's 8T215	6	25090	14.6	0	220.6	--	--
TEST AVERAGE		27284	15.1	0	241.5	259.4	250.5
L.S.D. AT .10		2928	0.8	NS	20.2	10.7	
C.V. %		9.0	4.2		7.0	3.4	

-- Data not available.

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

NS Not Significant

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

TABLE 33. Performance Summary for New Technology Hybrids evaluated at Two Southeast Missouri locations (Oran, Charleston) during 2007.

Oran
 Planted: 04-10
 Harvested: 09-04
 Growing Season Rainfall: 14.4 in.
 Irrigation: 9 in.

Charleston
 Planted: 04-09
 Harvested: 09-10
 Growing Season Rainfall: 17.5 in.
 Irrigation: 10 in.

Brand-Hybrid	Yield (Bu/Acre)		Mean
	Oran	Charleston	
New Technology			
Pioneer 33N58 (HX1/LL/RR2)	280.5**	261.7**	271.1**
Mycogen 2Y737	271.4*	258.1*	264.8*
Wyffels W7381	277.6*	251.5*	264.6*
Pioneer 33M57 (HX1/LL/RR2)	265.9*	253.9*	259.9*
Gateway 7812YGPLRR2	276.2*	240.6	258.4*
Mycogen 2T787	261.0	255.7*	258.3*
Trisler T-7N51PLRR	268.0*	242.8*	255.4
Dyna-Gro 57B90	272.6*	236.6	254.6
High Yield Check 4	259.9	244.1*	252.0
Trisler T-7N52PLRR	256.9	243.2*	250.0
Gateway 6816YGPLRR2	252.5	246.6*	249.6
High Yield Check 6	266.4*	232.4	249.4
Gateway 6814YGPLRR2	255.2	229.8	242.5
Mycogen 2W814	247.7	234.8	241.2
Wyffels W8251	253.2	227.0	240.1
Crow's 8T215	252.2	220.6	236.4
High Yield Check 5	244.1	225.9	235.0
TEST AVERAGE	262.4	241.5	252.0
L.S.D. AT .10	18.2	20.2	13.5
C.V. %	5.9	7.0	6.5

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding hybrid in the test.

Note: To view seed treatments for these hybrids refer to the location table or the characteristics chart.

Characteristics for Seed Corn Hybrids Entered in the 2007 Missouri Corn Tests

Brand Hybrid	Seed Treatment	Special Traits	Maturity Days	Stalk Rating	Herb. Res.	Insect Res.	Table Numbers
AgriGold A6459Bt	9	None	110	3	None	YGCB	28, 29, 31
AgriGold A6479BtRR	9	None	112	2	GR	YGCB	2, 3, 4, 5, 6, 18, 19, 20, 28, 29, 31
AgriGold A6594BtRR	9	HFC	114	2	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 18, 19, 20
AgriGold A6633BtRR	9	None	115	3	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 18, 19, 20, 28, 29, 31
AgriGold A6639RR	9	None	115	2	GR	None	12, 13, 14, 15, 16, 17, 28, 29, 31
Belle 1147RY	5, 7	None	111	2	GR	YGCB	28, 29, 31
Belle 1533Y	5, 7	None	115	2	None	YGCB	28, 29, 31
Belle 1545RY	5, 7	None	115	2	GR	YGCB	28, 29, 31
Belle 1646RY	5, 7	None	116	2	GR	YGCB	28, 29, 31
Belle 1722R	5, 7	None	117	1	GR	None	28, 29, 31
Belle 1844RY	5, 7	None	118	1	GR	YGCB	28, 29, 31
Bio Gene BG 82V08	8, 9	None	112	5	GR	VT3	7, 8, 9, 10
Bio Gene BG 83V08	8, 9	None	113	3	GR	VT3	7, 8, 9, 10
Bio Gene BG 84V08	8, 9	HES	114	5	GR	VT3	7, 8, 9, 10
Burrus 452T	4, 9, 10	None	109	2	GR	VT3	7, 8, 9, 10
Burrus 477T	4, 9, 10	None	109	5	GR	VT3	7, 8, 9, 10
Burrus 572RWR	4, 9, 10	None	111	3	GR	YGRW	12, 13, 14, 15, 16, 17
Burrus 810R	4, 9, 10	None	116	2	GR	None	2, 3, 4, 5, 6
Burrus X494T	4, 9, 10	None	109	2	GR	VT3	7, 8, 9, 10
Champion CSX 1086 RR	9	None	108	2	GR	None	2, 3, 4, 5, 6
Champion CSX 1138 Bt	NA	None	113	5	None	YGCB	22, 23, 24, 25
Champion CSX 1147 RR	7, 8, 9	None	114	3	None	YGCB	2, 3, 4, 5, 6
Champion CSX 1148 Bt	8, 9	None	114	3	None	YGCB	22, 23, 24, 25
Croplan Genetics 6818 RB	5	None	113	1	GR	YGCB	12, 13, 14, 15, 16, 17, 22, 23, 24, 25
Croplan Genetics 691 BTLL	6	None	113	1	LL	YGCB	28, 29, 31
Croplan Genetics 6992 RB	6	None	113	2	GR	YGCB	28, 29, 31
Croplan Genetics 731 HX/LL	5	None	112	3	LL	HX1	12, 13, 14, 15, 16, 17, 22, 23, 24, 25
Croplan Genetics 7505 CR	5	None	115	1	GR	YGRW	12, 13, 14, 15, 16, 17, 22, 23, 24, 25
Croplan Genetics 7505 RR	6	None	115	1	GR	None	28, 29, 31
Croplan Genetics 799 RB	6	None	117	2	GR	YGCB	28, 29, 31
Croplan Genetics 818 BT	6	None	118	1	None	YGCB	28, 29, 31
Crow's 4842 S	6	None	110	2	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 28, 29, 31
Crow's 4983S	6	None	112	3	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 18, 19, 20
Crow's 4984T	6	None	112	3	GR	YGPL	7, 8, 9, 10
Crow's 5132 S	6	FG	113	3	GR	YGCB	18, 19, 20, 28, 29, 31
Crow's 5262 S	6	None	112	2	GR	YGCB	28, 29, 31
Crow's 5302 S	6	None	114	3	GR	YGCB	28, 29, 31
Crow's 5304VT3	6	None	114	3	GR	VT3	7, 8, 9, 10
Crow's 8T215	6	HES	116	2	GR	YGPL	31, 32, 34
Dairyland 6009 RR	1, 4, 9	None	110	4	GR	None	28, 29, 31
Dairyland 6114 RR	1, 4, 9	None	114	2	GR	None	28, 29, 31
Dairyland 6210 RR	1, 4, 9	None	110	1	GR	None	28, 29, 31
Dairyland 7010 YGCB/RR	1, 4, 9	None	110	2	GR	YGCB	28, 29, 31
Dairyland 7212 YGCB/RR	1, 4, 9	None	112	3	GR	YGCB	28, 29, 31
Dairyland 7611 YGCB/RR	1, 4, 9	None	111	5	GR	YGCB	28, 29, 31
Dairyland 7615 YGCB/RR	1, 4, 9	None	115	3	GR	YGCB	28, 29, 31
DEKALB DKC60-19 (RR2/YGCB)	9	None	110	3	GR	YGCB	22, 23, 24, 25
DEKALB DKC61-73 (RR2/YGCB)	9	None	111	4	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26
DEKALB DKC63-46 (RR2/YGCB)	9	None	113	3	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 18, 19, 20, 28, 29, 31

Brand Hybrid	Seed Treatment	Special Traits	Maturity Days	Stalk Rating	Herb. Res.	Insect Res.	Table Numbers
DEKALB DKC63-81 (RR2/YGCB)	9	None	113	3	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 18, 19, 20
DEKALB DKC64-23 (RR2/YGRW)	9	None	114	3	GR	YGRW	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 22, 23, 24, 25, 26
DEKALB DKC64-78 (RR2/YGCB)	9	None	114	5	GR	YGCB	22, 23, 24, 25, 26, 28, 29, 31
DEKALB DKC65-47 (RR2)	9	None	115	3	GR	None	28, 29, 31
DEKALB DKC67-23 (RR2/YGCB)	9	None	117	4	GR	YGCB	28, 29, 31
DEKALB RX715RR2/YGCB	9	None	111	3	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 18, 19, 20, 28, 29, 31
DEKALB RX752RR/YG	9	None	112	4	GR	YGCB	26
DEKALB RX785RR2/YGCB	9	None	113	4	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26
Dyna-Gro 55P79	8, 9	None	105	4	GR	YGCB	22, 23, 24, 25
Dyna-Gro 56B15	9	None	109	2	GR	YGPL	7, 8, 9, 10
Dyna-Gro 57B10	9	None	114	3	GR	YGPL	7, 8, 9, 10
Dyna-Gro 57B90	9	HES	113	3	GR	YGPL	31, 32, 34
Dyna-Gro 57F06	9	None	112	3	None	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 22, 23, 24, 25
Dyna-Gro 57F20	8, 9	None	111	2	None	YGCB	22, 23, 24, 25
Dyna-Gro 57F37	9	None	114	3	None	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Dyna-Gro 57F87	9	HES	114	2	None	YGCB	12, 13, 14, 15, 16, 17, 22, 23, 24, 25, 28, 29, 31
Dyna-Gro 57G48	9	HES	114	3	GR	YGRW	28, 29, 31
Dyna-Gro 57K33	9	HES	114	2	GR	None	28, 29, 31
Dyna-Gro 57K58	9	None	115	2	GR	None	28, 29, 31
Dyna-Gro 57P12	9	HES	115	3	GR	YGCB	28, 29, 31
Dyna-Gro 57P16	8, 9	None	112	2	GR	YGCB	22, 23, 24, 25
Dyna-Gro 57P69	9	None	113	3	GR	YGCB	28, 29, 31
Dyna-Gro 57T61	8, 9	None	113	5	GR,LL	HX1	7, 8, 9, 10
Dyna-Gro 57V05	8, 9	None	114	2	GR	VT3	7, 8, 9, 10
Dyna-Gro 57X97	8, 9	None	113	5	LL	HX1	22, 23, 24, 25
Dyna-Gro 58K02	9	None	119	3	GR	None	28, 29, 31
Dyna-Gro 58K40	9	None	117	2	GR	None	28, 29, 31
Dyna-Gro 58P19	9	None	119	2	GR	YGCB	28, 29, 31
Dyna-Gro 58P45	9	None	120	2	GR	YGCB	28, 29, 31
Dyna-Gro 58P59	9	None	116	2	GR	YGCB	28, 29, 31
Dyna-Gro 58P60	9	None	120	2	GR	YGCB	28, 29, 31
Dyna-Gro 58P74	9	None	117	3	GR	YGCB	28, 29, 31
FFR 753BT	9	None	115	3	None	YGCB	28, 29, 31
FFR 787RR2BT	9	None	116	3	GR	YGCB	28, 29, 31
FFR 835BT	9	None	117	3	None	YGCB	28, 29, 31
Fielder's Choice 7850B	9	None	115	1	GR	YGCB	22, 23, 24, 25
Fielder's Choice 7880S	9	None	117	3	GR	YGCB	18, 19, 20, 28, 29, 31
Fielder's Choice NG 6780	9	None	111	3	GR	YGCB	2, 3, 4, 5, 6
Fielder's Choice NG 6785	9	None	112	4	GR	None	2, 3, 4, 5, 6
Fielder's Choice NG 6795	9	None	112	3	GR	None	12, 13, 14, 15, 16, 17
Fielder's Choice NG 6810	9	None	113	3	GR	YGCB	12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26, 28, 29, 31
Fontanelle 7K456	9	None	111	3	GR	YGPL	7, 8, 9, 10
Fontanelle 7K733	9	None	111	4	GR	YGPL	7, 8, 9, 10
Fontanelle 8B467	9	None	113	5	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 18, 19, 20
Fontanelle 8K339	9	None	113	5	GR	YGPL	7, 8, 9, 10
Fontanelle 8N206	9	None	113	NA	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 18, 19, 20
Fontanelle 8N762	9	None	113	NA	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17

Brand Hybrid	Seed Treatment	Special Traits	Maturity Days	Stalk Rating	Herb. Res.	Insect Res.	Table Numbers
Garst 8247YG1	5	FG	117	2	None	YGCB	18, 19, 20, 26
Garst 8294YG1/IT	5	FG, HES	118	2	CF	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 18, 19, 20, 26, 28, 29, 31
Garst 8353CB/LL	5	HES	114	3	LL	CB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26
Garst 8378YG1	5	HES	114	3	None	YGCB	18, 19, 20, 26
Garst 8452CB/LL	5	HES	112	3	LL	CB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 22, 23, 24, 25
Garst 8456CB/LL	5	None	110	2	LL	CB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Garst 8535YG1/IT	5	HES	108	2	CF	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 22, 23, 24, 25
Gateway 2416YGCB	9	HES	116	2	None	YGCB	28, 29, 31
Gateway 4916YGCBBRR2	9	HES	116	2	GR	YGCB	28, 29, 31
Gateway 6414CB/LL	9	HP	114	3	LL	CB	28, 29, 31
Gateway 6814YGPLRR2	9	None	114	2	GR	YGPL	31, 32, 34
Gateway 6816YGPLRR2	9	HES	116	2	GR	YGPL	31, 32, 34
Gateway 7812YGPLRR2	9	None	112	3	GR	YGPL	31, 32, 34
Gateway 7915YGCBBRR2	9	HO	115	3	GR	YGCB	28, 29, 31
High Yield Check 1	-	-	-	-	-	-	7, 8, 9, 10
High Yield Check 2	-	-	-	-	-	-	7, 8, 9, 10
High Yield Check 3	-	-	-	-	-	-	7, 8, 9, 10
High Yield Check 4	-	-	-	-	-	-	31, 32, 34
High Yield Check 5	-	-	-	-	-	-	31, 32, 34
High Yield Check 6	-	-	-	-	-	-	31, 32, 34
Hubner H4677CB	9	None	113	3	None	YGCB	2, 3, 4, 5, 6
Hubner H5646WR	9	HES	113	1	GR	YGRW	12, 13, 14, 15, 16, 17
Hubner H5808PL	9	HES	115	1	None	YGPL	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Kruger 0115	6	None	115	2	None	None	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 26
Kruger 1015RR/YGCB	6	None	115	4	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 26
Kruger 2114RR/YGCB	6	None	114	4	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Kruger 2210RR/YGCB	6	None	110	4	GR	YGCB	2, 3, 4, 5, 6, 26
Kruger 2212RR/YGCB	6	None	112	3	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 26
Kruger 2314RR/YGCB	6	HFC	115	4	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 26
Kruger 2411RR/YGCB	6	None	111	3	GR	YGCB	2, 3, 4, 5, 6, 26
Kruger 2517RR/YGCB	6	None	117	4	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Kruger 2613RR/YGCB	6	None	113	3	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 26
Kruger 4411RR/YGRW	6	None	111	3	GR	YGRW	2, 3, 4, 5, 6, 26
Kruger 5010YGCB	6	None	110	3	None	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 26
Kruger 5013YGCB	6	None	113	4	None	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 26
Kruger 5014YGCB	6	None	114	3	None	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 26
Kruger 5116YGCB	6	None	116	3	None	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 26
Kruger 5514YGCB	6	None	114	3	None	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Kruger 6011TS	6	None	111	2	GR	YGPL	7, 8, 9, 10
Kruger 6111VT3	6	None	111	5	GR	VT3	7, 8, 9, 10
Kruger 6210TS	6	None	110	4	GR	YGPL	7, 8, 9, 10
Kruger 6212TS	6	None	112	3	GR	YGPL	7, 8, 9, 10
Kruger 6314TS	6	None	114	4	GR	YGPL	7, 8, 9, 10
Kruger 6413TS	6	None	113	3	GR	YGPL	7, 8, 9, 10
Kruger 6517TS	6	HES	115	4	GR	YGPL	7, 8, 9, 10

Brand Hybrid	Seed Treatment	Special Traits	Maturity Days	Stalk Rating	Herb. Res.	Insect Res.	Table Numbers
Kruger 8016HX	6	None	116	3	LL	HX1	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Kruger 8112HX	6	None	112	4	LL	HX1	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 26
Kruger 8310HX	6	None	110	4	LL	HX1	2, 3, 4, 5, 6
Kruger 8414HX	6	None	114	4	LL	HX1	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 26
Kruger 8616HX	6	None	115	3	LL	HX1	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 26
Kruger 9414HXT	6	None	114	4	LL	HXX	7, 8, 9, 10
Laser L-9H63BT	5	None	116	3	None	YGCB	28, 29, 31
Lewis 4567 CB/RR	9	None	109	3	GR	YGCB	2, 3, 4, 5, 6
Lewis 4886 PL	9	None	109	2	None	YGPL	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Lewis 5245 CB	9	None	112	2	None	YGCB	2, 3, 4, 5, 6
Lewis 5365 CB/RR	9	None	111	2	GR	YGCB	12, 13, 14, 15, 16, 17
Lewis 5498 VT3	9	None	111	3	GR	VT3	7, 8, 9, 10
Lewis 6178 RW/RR	9	None	114	2	GR	YGRW	12, 13, 14, 15, 16, 17
Lewis 7044 CB	9	None	116	3	None	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Lewis 7198 VT3	9	None	116	NA	GR	VT3	7, 8, 9, 10
LG 2614 BtRR	NA	NA	NA	NA	NA	NA	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
LG 2642 BtRR	NA	NA	NA	NA	NA	NA	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Merschman M-314A-3	4, 9, 10	None	114	3	GR	YGCB	28, 29, 31
Merschman M-512C-3	4, 9, 10	None	112	2	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 28, 29, 31
Merschman M-612D-3	4, 9, 10	None	112	2	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 28, 29, 31
Merschman M-711E-3	4, 9, 10	None	111	2	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 28, 29, 31
Merschman M-806B-2	8, 9, 10	None	106	2	GR	None	2, 3, 4, 5, 6
Merschman M-810B-2	8, 9, 10	None	110	2	GR	None	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Merschman M-810H-3	8, 9, 10	None	110	5	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 28, 29, 31
Merschman M-811F-3	8, 9, 10	None	111	6	GR	YGCB	28, 29, 31
Merschman M-814B-6	8, 9, 10	None	114	2	GR	YGRW	28, 29, 31
Merschman M-815A	8, 9, 10	None	115	2	None	None	28, 29, 31
Merschman M-816A-3	8, 9, 10	None	116	2	GR	YGCB	28, 29, 31
MFA MORCORN MC4072 CB	6	None	110	2	None	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
MFA MORCORN MC4083 RR/CB	6	None	110	2	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
MFA MORCORN MC4183 RR/CB	6	None	111	2	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
MFA MORCORN MC4283 RR/CB	6	None	112	2	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
MFA MORCORN MC4474 RR	6	None	114	2	GR	None	28, 29, 31
MFA MORCORN MC4483 RR/CB	6	None	114	2	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 28, 29, 31
MFA MORCORN XP174 CB	6	None	114	2	None	YGCB	28, 29, 31
MFA MORCORN XP180 RR/CB	6	None	115	2	GR	YGCB	28, 29, 31
MFA MORCORN XP182 RR	6	None	114	2	GR	None	28, 29, 31
Midland MG 417BT	9	None	110	3	None	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Midland MG 428BT/LL	9	None	110	2	LL	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Midland MG 436BT	9	None	110	2	None	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 18, 19, 20, 26
Midland MG 448BT/RR	9	None	110	2	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 22, 23, 24, 25
Midland MG 5575BT	9	None	111	3	None	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 18, 19, 20

Brand Hybrid	Seed Treatment	Special Traits	Maturity Days	Stalk Rating	Herb. Res.	Insect Res.	Table Numbers
Midland MG 617BT	9	None	113	2	None	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Midland MG 7A53BT	9	None	111	5	None	YGCB	22, 23, 24, 25
Midland MG 7A58BT/RR	9	None	117	4	GR	YGCB	12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26
Midwest Seed 77123S	6	None	110	3	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Midwest Seed 78132S	6	None	112	3	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 18, 19, 20
Midwest Seed 78134T	6	None	112	3	GR	YGPL	7, 8, 9, 10
Midwest Seed 79882S	6	FG	113	4	GR	YGCB	18, 19, 20
Midwest Seed 80404VT3	6	None	114	3	GR	VT3	7, 8, 9, 10
MOF2 WJC-01	NA	None	110	NA	LL	YGCB	2, 3, 4, 5, 6
MOF2 WJC-49	NA	None	114	2	GR	YGCB	2, 3, 4, 5, 6, 18, 19, 20, 26
MOF2 WJC-55	NA	None	104	2	GR	YGCB	2, 3, 4, 5, 6, 18, 19, 20, 26
MOF2 WJC-61	NA	None	115	3	None	YGPL	2, 3, 4, 5, 6, 18, 19, 20, 26
MOF2 WJC-81	NA	None	117	3	GR	YGCB	2, 3, 4, 5, 6, 18, 19, 20, 26
MOF2 WJC-91	NA	None	118	3	GR	YGCB	18, 19, 20, 26
MOF2 WJC-69	NA	None	109	3	GR	YGCB	18, 19, 20, 26
Mycogen 2C727	3, 5	None	112	4	LL	HX1	22, 23, 24, 25
Mycogen 2D675	3, 5	None	109	2	GR,LL	HX1	7, 8, 9, 10
Mycogen 2K718	3, 5	None	111	4	GR,LL	HX1	7, 8, 9, 10
Mycogen 2M748	3, 5	None	114	2	LL	HXX	7, 8, 9, 10
Mycogen 2M797	3, 5	None	115	3	LL	HX1	22, 23, 24, 25
Mycogen 2P722	3, 5	None	111	4	LL	HX1	22, 23, 24, 25
Mycogen 2T787	3, 5	HES	114	4	LL	HXX	7, 8, 9, 10, 31, 32, 34
Mycogen 2T801	3, 5	HES	114	4	GR	YGCB	22, 23, 24, 25
Mycogen 2W814	3, 5	None	116	3	GR,LL	HX1	7, 8, 9, 10, 31, 32, 34
Mycogen 2Y737	3, 5	FG	113	3	LL	HXX	7, 8, 9, 10, 31, 32, 34
NC+ 1773RB	6	None	97	3	GR	YGCB	22, 23, 24, 25
NC+ 2171RB	6	None	101	4	GR	YGCB	22, 23, 24, 25
NC+ 3611RB	6	HES	105	4	GR	YGCB	22, 23, 24, 25
NC+ 4251RB	6	None	107	3	GR	YGCB	22, 23, 24, 25, 26
NC+ 4445RB	6	None	110	3	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
NC+ 4947RB	6	None	111	3	GR	YGCB	22, 23, 24, 25
NC+ 5223RBD	6	None	112	3	GR	YGPL	7, 8, 9, 10
NC+ 5224RB	6	None	112	3	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 18, 19, 20
NC+ 5392B	6	None	112	4	None	YGCB	22, 23, 24, 25, 26
NC+ 5402RB	6	FG	113	4	GR	YGCB	18, 19, 20, 26
NC+ 5453VT3	6	None	114	3	GR	VT3	7, 8, 9, 10
NC+ 5715B	6	None	114	4	None	YGCB	26
NK Brand N68-B8	6	HES	110	3	LL	CB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 28, 29, 31
NK Brand N71-L7	6	DGE, HES	112	2	LL	CB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
NK Brand N76-D3	6	DGE, HES	114	3	LL	CB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 28, 29, 31
NuTech 0C-111 YGCB	3, 5, 7, 8	None	111	1	None	YGCB	2, 3, 4, 5, 6
NuTech 0C-213 YGCB	3, 5, 7, 8	HFC	113	2	None	YGCB	2, 3, 4, 5, 6
NuTech 0C-213A YGCB	3, 5, 7, 8	HFC	113	2	None	YGCB	2, 3, 4, 5, 6
NuTech 0C-214 YGCB	3, 5, 7, 8	None	114	4	None	YGCB	2, 3, 4, 5, 6
NuTech 0C-313A YGCB	3, 5, 7, 8	HFC, HES	113	2	None	YGCB	2, 3, 4, 5, 6
NuTech 0C-413 YGCB	9	None	113	3	None	YGCB	2, 3, 4, 5, 6, 18, 19, 20
NuTech 0C-514 YGCB	9	None	114	4	None	YGCB	2, 3, 4, 5, 6
NuTech 0C-614 YGCB	9	FG	114	1	None	YGCB	2, 3, 4, 5, 6
NuTech 0C-616 YGCB	3, 5, 7, 8	HES	116	4	None	YGCB	2, 3, 4, 5, 6
NuTech 0C-912 YGCB	9	None	112	5	None	YGCB	2, 3, 4, 5, 6
NuTech 0P-415 YGPL	5	None	115	2	None	YGPL	2, 3, 4, 5, 6
NuTech 0P-515 YGPL	9	None	115	3	None	YGPL	2, 3, 4, 5, 6, 18, 19, 20

Brand Hybrid	Seed Treatment	Special Traits	Maturity Days	Stalk Rating	Herb. Res.	Insect Res.	Table Numbers
NuTech 0P-515A YGPL	9	None	115	1	None	YGPL	2, 3, 4, 5, 6
NuTech 1B-909 CB/LL	5	None	109	2	LL	CB	2, 3, 4, 5, 6
NuTech 1H-916A HX	5	None	119	4	LL	HX1	2, 3, 4, 5, 6
NuTech 1X-511 HXT	5	None	111	1	LL	HXX	7, 8, 9, 10
NuTech 3A-113 RR	3, 5, 7, 8	None	113	4	GR	None	2, 3, 4, 5, 6
NuTech 3C-310 RR/YGCB	9	HFC	110	2	GR	YGCB	2, 3, 4, 5, 6, 18, 19, 20
NuTech 3C-714 RR/YGCB	9	None	114	3	GR	YGCB	2, 3, 4, 5, 6, 18, 19, 20
NuTech 3C-908 RR/YGCB	9	None	108	3	GR	YGCB	2, 3, 4, 5, 6
NuTech 3P-910A RR/YGPL	9	None	110	3	GR	YGPL	7, 8, 9, 10
NuTech 3T-009 VT3	9	None	109	2	GR	VT3	7, 8, 9, 10
NuTech 3T-310 VT3	9	HFC	110	2	GR	VT3	7, 8, 9, 10
NuTech 3T-616 VT3	9	HES	116	4	GR	VT3	7, 8, 9, 10
NuTech 3T-808 VT3	9	None	108	4	GR	VT3	7, 8, 9, 10
NuTech 3W-313 RR/YGRW	3, 5, 7, 8	FG	113	3	GR	YGRW	2, 3, 4, 5, 6
NuTech 5H-112 RR/HX	5	None	112	3	GR,LL	HX1	7, 8, 9, 10
NuTech 5H-112A RR/HX	5	None	112	3	GR,LL	HX1	7, 8, 9, 10
NuTech 5H-114 RR/HX	5	HFC	114	4	GR,LL	HX1	7, 8, 9, 10
Pioneer 31D61	2, 7, 8, 9	HFC, HAE	120	3	None	YGCB	28, 29, 31
Pioneer 31N28 (YGCB)	2, 7, 8, 9	FG, HAE	119	4	None	YGCB	18, 19, 20, 26, 28, 29, 31
Pioneer 31P41	2, 7, 8, 9	HFC, HAE	118	3	None	None	28, 29, 31
Pioneer 33D13 (HX1, LL)	2, 7, 8, 9	None	112	5	LL	HX1	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26
Pioneer 33F85	2, 7, 8, 9	HFC	113	4	GR	None	28, 29, 31
Pioneer 33K40 (HX1, LL)	2, 7, 8, 9	None	114	4	LL	HX1	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 18, 19, 20, 26
Pioneer 33M57 (HX1/LL/RR2)	2, 7, 8, 9	FG, HAE	116	3	GR,LL	HX1	31, 32, 34
Pioneer 33N58 (HX1/LL/RR2)	2, 7, 8, 9	FG, HFC, HAE	114	3	GR,LL	HX1	31, 32, 34
Pioneer 34A16 (HX1/LL)	2, 7, 8, 9	None	110	4	LL	HX1	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 22, 23, 24, 25
Pioneer 34P89 (HX1,LL)	2, 7, 8, 9	None	112	4	LL	HX1	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 22, 23, 24, 25
Pioneer 35P10 (YGCB, RR2)	2, 7, 8, 9	None	103	6	GR	YGCB	22, 23, 24, 25
Rainbow 3105YGCB	NA	NA	NA	NA	NA	NA	2, 3, 4, 5, 6, 18, 19, 20, 26
Rainbow 3129YGCB	NA	NA	NA	NA	NA	NA	2, 3, 4, 5, 6
Rainbow 3142YGCB	NA	NA	NA	NA	NA	NA	2, 3, 4, 5, 6, 18, 19, 20, 26
Rainbow 3158YGCB	NA	NA	NA	NA	NA	NA	2, 3, 4, 5, 6, 18, 19, 20, 26
Rainbow X1116HX	NA	NA	NA	NA	NA	NA	2, 3, 4, 5, 6, 18, 19, 20, 26
Rainbow X1176HX	NA	NA	NA	NA	NA	NA	2, 3, 4, 5, 6, 18, 19, 20, 26
Rainbow X1076HX	NA	NA	NA	NA	NA	NA	2, 3, 4, 5, 6, 18, 19, 20, 26
Renze 5347HX1/LL	5	None	112	2	LL	HX1	2, 3, 4, 5, 6
Renze 8386YGCB	1, 8, 9, 10	None	115	4	None	YGCB	2, 3, 4, 5, 6
Renze 8428YGCB	9	None	116	2	None	YGCB	2, 3, 4, 5, 6
Renze 9328YGCB/RR	9	None	111	3	GR	YGCB	2, 3, 4, 5, 6
Renze 9386YGCB/RR	1, 8, 9, 10	None	115	4	GR	YGCB	2, 3, 4, 5, 6
Stone 7N412	9	None	113	5	GR	YGCB	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 22, 23, 24, 25
Stone 7R667	9	None	108	4	GR	None	2, 3, 4, 5, 6
Stone 7S233	9	None	111	3	GR	YGRW	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17
Stone 8K339	9	None	114	3	GR	YGPL	2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 22, 23, 24, 25
Taylor 930 RR/Bt	9	None	112	2	GR	YGCB	2, 3, 4, 5, 6
Taylor EXP 77640RR	9	None	113	2	GR	None	2, 3, 4, 5, 6
Trisler T-7A01RR	9	None	111	3	GR	None	28, 29, 31
Trisler T-7N51PLRR	9	None	112	3	GR	YGPL	31, 32, 34
Trisler T-7N52PLRR	9	None	112	3	GR	YGPL	31, 32, 34

Brand Hybrid	Seed Treatment	Special Traits	Maturity Days	Stalk Rating	Herb. Res.	Insect Res.	Table Numbers
Trisler T-8N52CB	9	None	114	3	None	YGCB	28, 29, 31
UniSouth Adler 3515RRBT	9	None	107	3	GR	YGCB	28, 29, 31
UniSouth Adler 8140RRBT	9	None	115	2	GR	YGCB	28, 29, 31
USA 1145	8	None	114	1	None	None	26
USA 1145bt	8	None	114	1	None	YGCB	26
Willcross 3125RRCB	NA	None	112	3	GR	YGCB	28, 29, 31
Willcross 3194RRCB	NA	None	114	3	GR	YGCB	28, 29, 31
Willcross 716BX1	NA	None	116	3	None	YGPL	28, 29, 31
Willcross 718DX1	NA	None	118	3	GR	YGCB	28, 29, 31
Willcross 719DX1	NA	None	119	3	GR	YGCB	28, 29, 31
Wyffels W7381	2, 7, 8, 9	HES	112	2	GR	YGPL	7, 8, 9, 10, 31, 32, 34
Wyffels W7383	2, 7, 8, 9	HES	112	2	None	YGCB	12, 13, 14, 15, 16, 17, 18, 19, 20, 28, 29, 31
Wyffels W7645	2, 7, 8, 9	HME, HP	112	2	LL	HX1	18, 19, 20
Wyffels W8250	2, 7, 8, 9	HME	113	3	GR	None	18, 19, 20, 28, 29, 31
Wyffels W8251	2, 7, 8, 9	HME	114	2	GR	YGPL	7, 8, 9, 10, 31, 32, 34
Wyffels W8365	2, 7, 8, 9	HME, HP, FG	115	2	LL	CB	12, 13, 14, 15, 16, 17
Wyffels W9127	2, 7, 8, 9	HP, HME	117	2	GR	YGCB	28, 29, 31

* Descriptions for commercial Hybrids were provided by the companies submitting them for evaluation

- Data not provided by the companies

NA Data not available

Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Apron Maxx (Mefenoxam, Fludioxonil); 4= Captan; 5= Cruiser (Thiamethoxam); 6= Cruiser Extreme Pak (Thiamethoxam, Mefenoxam, Fludioxonil, Azoxystrobin); 7= Dynasty (Azoxystrobin); 8= Maxim XL (Fludioxonil); 9= Poncho 250 (Clothianidin); 10= Trilex (Trifloxystrobin)

Special Traits: DGE = Dry Grind Ethanol; FG = Food Grade; HAE = High Available Energy; HES = High Extractable Starch; HFC = High Fermentable Corn; HME = High Metabolizable Energy; HO = High Oil; HP = High Protein;

Maturity Days: Relative Maturity

Stalk Rating: 1 = excellent; 5 = average; 9 = poor

Herbicide Resistance: GR = Glyphosate Resistance; LL = Liberty Link Resistance; CL = Clear Field

Insect Resistance: CB = Agrisure CB; HX1 = Herculex 1; HXX = Herculex Xtra; VT3 = YieldGard VT; YGCB = YieldGard Corn Borer; YGPL = YieldGard Plus; YGRW = YieldGard Rootworm

Sources for Seed Corn Hybrids Entered in the 2007 Missouri Corn Tests

Brand	Company and Address	Phone Number	URL
AgriGold	AgriGold Hybrids RR 1 Box 203, St. Francisville, IL 62460	618-943-5776	agrigold.com
Belle Southern	Belle Southern Hybrids P.O. Box 9, 1 Pennsylvania Ln, Waldenburg, AR 72475	870-579-2286	bellecorn.com
Bio Gene	Bio Gene 5477 Tri County Hwy, Sardinia, OH 45171	937-444-6422	biogeneseeds.com
Burrus	Burrus Hybrids 826 Arenzville Rd., Arenzville, IL 62611	217-997-5511	burrusseed.com
Champion	Champion Seed 3727 Fahlsing Road, Woodburn, IN 46797	515-836-2141	
Croplan Genetics	Croplan Genetics PO Box 64281, St. Paul, MN 55164	816-896-8817	croplangenetics.com
Croplan Genetics	Croplan Genetics 298 Taylor Rd, Clinton, KY 42031	270-207-0190	croplangenetics.com
Crows	Crow's Hybrid Corn Co. PO Box 157, Kentland, IN 47951	270-519-9286	crowshybrid.com
Crows	Channel Bio Corp PO Box 278 , Kentland, IN 47951	620-694-7400	channelbio.com
Dairyland	Dairyland Seed Co. PO Box 958, West Bend, WI 53095	608-676-2237	dairylandseed.com
Dekalb	Monsanto 800 N. Lindbergh Blvd., St. Louis, MO 63167	815-754-4809	monsanto.com
Dyna-Gro	UAP Dyna Gro 57 Germantown Court, Suite 200, Cordova, TN 38018	901-755-7566	dyna-groseed.com
Dyna-Gro	UAP Dyna-Gro 15969 Hwy J,, Bowling Green, MO 63334	573-324-5932	dyna-groseed.com
Dyna-Gro	Dyna-Gro Seeds 1506 W Wall, Harrisonville, MO 64701	308-237-5194	dyna-groseed.com
FFR	FFR Seed 969 Cloverleaf Dr., Southaven, MS 38671	901-652-0903	ourcoop.com
Fielder's Choice	Fielder's Choice Direct 306 N. Main St., Monticello, IN 47960	800-321-3177	fielderschoicedirect.com
Fontanelle	Fontanelle Hybrids 919 W 23rd Street, Fremont, NE 68025	402-721-1410	fontanelle.com
Garst	Garst Seed Co. 2369 330th Street, Slater, IA 50244	800-831-6630	garstseed.com
Gateway	Gateway Seed Co. Inc. 5517 Van Buren Rd., Nashville, IL 62263	618-327-8000	gatewayseeds.com
Hubner Seed	Hubner Seed 10280 West SR28, West Lebanon, IN 47991	765-893-4428	hubnerseed.com
Kruger	Kruger Seed Co. 33938 160th, Dike, IA 50624	319-989-2414	krugerseed.com
Lewis	Lewis Hybrids 530 W. Maple Ave., Box 38, Ursa, IL 62376	800-252-7851	lewishybrids.com
LG Seeds	LG Seeds 22827 Shissler Rd., Elmwood, IL 61529	309-945-3105	lgseeds.com
Merschman	Merschman Seeds, Inc. 103 Ave. D, P.O. Box 67, West Point, IA 52656	319-837-6111	merschmanseeds.com
MFA Inc.	MFA Inc. 201 Ray Young Drive, Columbia, MO 65201	573-876-5482	mfa-inc.com
Midland	Midland Genetics 1906 Kingman Rd., Ottawa, KS 66067	785-242-3598	midlandgenetics.com
Midwest Seed Genetics	Channel Bio Corp PO Box 278, Kentland, IN 47951	620-694-7400	channelbio.com
MOF2	Missouri Food & Fiber PO Box 647, Harrisonville, MO 64701	816-862-6960	mof2.org
Mycogen	Mycogen Seeds 9330 Zionsville Rd., Indianapolis, IN 46268	317-337-4662	mycogen.com

Brand	Company and Address	Phone Number	URL
NC+	Channel Bio Corp PO Box 278, Kentland, IN 47951	620-694-7400	channelbio.com
NK Brand	NK Brand Syngenta Seeds 7500 Olsen Memorial Hwy, Golden Valley, MN 55427	515-238-3514	nk-us.com
NK Brand	NK Brand Seeds 6711 Hare Hill Drive, Arlington, TN 38002	901-382-5265	nk-us.com
NuTech Seed	NuTech Seed 6131 North Fork Road, Ames, IA 50010	877-561-9067	nutechseed.com
Pioneer	Pioneer Hi-Bred Int. Inc. 700 Boulevard South, Suite 302, Huntsville, AL 35802	800-331-2475	pioneer.com
Pioneer	Pioneer Hi-Bred Int. 8200 Cody Dr. Suite A, Lincoln, NE 68512	800-228-4050	pioneer.com
Rainbow	Rainbow Seeds 1816 Highway 163, Oskaloosa, IA 52577	800-373-9401	rainbowseeds.com
Renze	Renze Hybrids, Inc. 27410 Kittyhawk Ave., Carroll, IA 51401	712-669-3301	renzehybrids.com
Stone	Stone Seed Co. 5965 West State Rt. 97, Pleasant Plains, IL 62677	217-546-8006	stoneseed.com
Taylor Seed	Taylor Seed Farms 2467 Hwy 7, White Cloud, KS 66094	785-595-3236	taylorseedfarms.com
Trisler Seed	Trisler Seed Farms 3274 E 800 North Rd Fairmount, IL 61841	217-288-9301	trisler.com
U.S.A. Hybrids	United Seed Associates 28797 Bowman Rd, Defiance, OH 43512	419-395-2646	
UniSouth	UniSouth Genetics, Inc. 2640-C Nolensville Road, Nashville, TN 37211	615-242-0467	usgseed.com
Willcross	NeCo Seed Farms P.O. Box 379, Garden City, MO 64747	816-862-8203	willcross.com
Wyffels Seed	Wyffels Hybrids 13344 US Hwy 6, Geneseo, IL 61254	800-369-7833	wyffels.com

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