

## North Region Crop Management Summary

There are five locations in the northern region of Missouri for non-irrigated corn tests. 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 from location to location, but tend to reflect those followed by farmers in the area.

Planting dates ranged from April 21 to May 5 with soil conditions being very good at all locations. Below normal rainfall and above normal temperatures during grain fill did not seem to adversely affect yields. An outbreak of spider mites in early August at LaGrange prompted an aerial application of Lorsban to control the pests. Woods Flying Service of Memphis, MO was hired to fly on the insecticide. There was severe lodging at the LaGrange site from a strong storm in August. Yields were very good at all northern locations this year, although there was some disease and insect pressure present.

Climatological information for the growing season for North Missouri (April 1 – August 31) is summarized below.

Average temperature = 69.2 degrees, 2.5 degrees above normal

Average precipitation = 18.1”, 2.2” below normal

Growing degree days = 2908 days, 165 days above normal

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

Location	Planting date	Harvest date	Fertilizer			Tillage	Herbicide		Insecticide
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O		Pre	Post	
<i>Non-Irrigated Corn Tests</i>									
Craig	05-05	10-03	150	60	60	Conv.	Dual II Magnum, Callisto, Atrazine	None	Force 3G
Albany	05-04	09-27	212	80	120	Conv.	Dual II Magnum, Callisto, Atrazine	Callisto, Atrazine	Force 3G
Mooreville	05-03	09-21	175	20	180	Conv.	Dual II Magnum, Callisto, Atrazine	None	Force 3G
Novelty	04-27	09-21	190	90	100	Conv.	Lumax	Callisto, Accent	Force 3G
LaGrange	04-21	09-27	210	120	120	Conv.	Degree Xtra, Callisto, Atrazine	None	Force 3G, Lorsban (post)
<i>North/Central Region New Technology Corn Tests</i>									
Albany	05-04	09-27	212	80	120	Conv.	Dual II Magnum, Callisto, Atrazine	None	Force 3G
Columbia	04-01	08-30,31	170	46	62	Min.	Dual II Magnum, Callisto, Atrazine	None	Force 3G
Novelty	04-27	09-21	190	90	100	Conv.	Lumax	None	Force 3G

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

North Region: Craig, MO (Holt County)

Soil Type: Blencoe Silty Clay Soil Test: pH=5.9, OM=2.9%, P=136, K=868

European Corn Borer Rating: Damaged Plants= 16%, Tunnel Length/Plant= 0.29 in.

Rainfall: Apr.=5.3, May=6.7, June=5.8, July=6.3, Aug.=3.1 Total=27.2 in.

Brand-Variety	Seed Treatment <sup>+</sup>	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005 2004	bu/acre	
Garst 8380IT	6	28773	17.9	1	206.7**	--	--
Vigoro V54Y61	2, 9, 10	27974	18.4	2	203.9*	--	--
Pioneer 33N09	3, 11	28451	18.1	3	201.4*	--	--
NC+ 4971	1, 10	29144	17.3	0	200.8*	--	--
Rainbow 3105YGCB	9	29514	17.8	5	200.6*	238.9	219.8
Lewis 7044YGCB	10	27385	19.6	1	199.6*	243.9*	221.8
Vigoro V5240	2, 5, 7, 9	29529	15.7	1	198.6*	236.0	217.3
Croplan Genetics 691 BTLL	2, 5	28515	17.5	1	197.8*	--	--
Ag Source 6273	5	27718	18.4	0	197.7*	--	--
Kruger 0614B	3, 10	30760	17.4	1	197.6*	--	--
Mersch. M-512C-1	4, 10	28280	18.1	1	197.0*	--	--
Pioneer 33A84	3, 11	30886	17.0	0	196.4*	225.1	210.8
DEKALB DKC63-79 (YGCB)	10	29336	16.8	1	195.0*	243.9*	219.5
Renze 8386YGCB	2, 9, 10	28529	18.6	1	194.8*	--	--
MFA MORCORN 4474CB	5	29266	17.7	1	194.7*	--	--
Ag Source 7883	5	28214	20.2	0	194.5*	--	--
Mycogen 2H789	6	29367	17.5	2	193.9*	--	--
Burrus 795B	4, 10, 12	29264	20.0	0	193.8*	236.0	214.9
Font. High Cycle 7931YGCB	4, 10	28602	17.9	3	193.7*	240.9	217.3
Pioneer 34P88	3, 10	28529	16.2	1	193.3*	--	--
DEKALB DKC61-72 (RR2)	10	29929	16.9	0	193.1*	--	--
LG 2625Bt	8, 9	28518	18.2	5	191.9*	--	--
Pfister 2730	9, 11	29118	17.0	2	191.9*	--	--
Garst 8566YG1	6	29507	17.2	1	190.8*	--	--
ASGROW RX715RR2	10	27697	16.6	0	190.5*	--	--
NK Brand N65-C5	6	28544	15.4	1	190.3*	--	--
Pioneer 33Y45	3, 10	29911	18.2	1	189.2*	--	--
LG 2600Bt	8, 9	26712	16.4	1	189.0*	--	--
Kruger 5313YGCB	3, 10	28698	17.3	0	188.9*	249.0*	219.0
NuTech NT-4213 YGCB	5	28823	18.4	4	188.3*	250.1*	219.2
DEKALB DKC60-16 (YGCB)	10	29113	17.4	0	188.3*	241.6*	215.0
Mersch. M-314A-1	4, 10	28815	19.9	1	188.1*	228.5	208.3
Pioneer 33K39	3, 11	27395	17.5	2	187.9*	--	--
Kruger 9115 YGCB	3, 10	28347	16.1	4	187.9*	237.3	212.6
Font. High Cycle 8B436	4, 10	28918	16.7	2	187.7*	205.9	196.8
NuTech NT-4717 YGCB	5	28442	18.4	0	187.1*	231.3	209.2
NuTech NT-4312 YGCB	10	28451	16.7	4	186.9*	--	--
Vigoro V5160	2, 9, 10	26553	16.9	0	186.7*	--	--
DEKALB DKC63-62 (RR2)	10	29284	17.0	5	186.7*	--	--
Golden Harvest H-8920	5	27623	17.4	0	186.1	--	--
Rainbow 3158YGCB	9	28429	20.1	0	185.9	238.7	212.3
Kruger 5416YGCB	3, 10	26556	17.8	3	185.9	--	--
Hawkeye Hybrids 316BT	9	27424	19.7	0	185.3	236.9	211.1
Golden Harvest H-9006Bt	5	27865	15.6	6	185.3	--	--
Mersch. M-612D-1	9, 10	29060	17.8	0	185.1	--	--

TABLE 2. Continued.

Brand-Variety	Seed Treatment <sup>+</sup>	2005			Yield		
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005	2004	2 Yr. Mean
					-----bu/acre-----		
Font. High Cycle 7971YGCB	4, 10	27749	17.5	0	184.6	237.9	211.3
Rainbow 3167	9	28536	18.6	0	184.5	226.4	205.5
Renze EX8546YGCB	2, 9, 10	27380	17.8	0	184.5	--	--
Lewis 5343	10	29660	17.4	0	184.2	--	--
Kruger 9313YGCB	3, 10	28624	17.0	0	183.9	--	--
Garst 8535YG1/IT	6	29073	16.4	2	183.1	223.5	203.3
NuTech NT-0616	10	28324	19.4	13	183.1	--	--
Dyna-Gro 57F37	10, 12	31410	18.4	1	183.0	--	--
NK Brand N67-T4	6	29306	15.8	0	182.6	230.8	206.7
LG 2540Bt	8, 9	26818	15.8	4	182.2	239.2	210.7
Dyna-Gro 57F87	10	29352	19.7	0	182.2	235.4	208.8
NuTech NT-0116	10	27876	18.3	3	182.0	--	--
Renze 6406	2, 9, 10	27609	16.9	1	182.0	--	--
NuTech NT-4516 YGCB	10	27267	17.7	1	181.9	233.7	207.8
Kruger 9212YGCB	3, 10	28654	15.5	5	181.7	--	--
Pioneer 33D11	3, 10	28099	17.7	1	181.4	--	--
Bio Gene BG1132	1, 4, 10	24504	18.2	0	180.6	--	--
Willcross 3193CB	10	28816	17.6	6	180.5	--	--
Willcross 3103CB	10	26417	16.6	5	180.1	--	--
Midland MG 7A53BT	10	27083	15.7	5	179.9	230.1	205.0
NuTech NT-4014 YGCB	10	28217	16.8	10	179.1	--	--
Willcross 3136X1	10	29711	16.9	4	179.1	--	--
Burrus 717	4, 10	27752	17.7	1	179.1	--	--
Stine 9804 YGCB	9, 10	28440	19.1	4	179.0	--	--
NK Brand N70-T9	6	28609	17.2	0	178.4	237.2	207.8
Willcross 3123CB	10	27116	17.0	1	178.1	--	--
MFA MORCORN 3974CB	5	27818	16.8	4	177.9	--	--
NuTech NT-4616 YGCB	5	29164	20.0	1	177.8	252.5*	215.2
Ag Source X53114	5	28350	17.7	0	177.8	--	--
Rainbow 3120YGCB	9	30206	16.2	2	177.3	234.8	206.1
Kruger 5514YGCB	3, 10	27184	18.0	0	176.2	--	--
Kruger 0617A	3, 10	28005	16.6	1	175.7	--	--
Rainbow 3135YGCB	9	28824	16.9	8	174.9	241.8*	208.4
NC+ 5381	1, 10	28770	17.6	0	174.8	--	--
Font. High Cycle 7951YGCB	4, 10	28409	16.5	8	174.7	247.0*	210.9
Kruger 5517YGCB	3, 10	27696	20.1	1	174.5	241.2	207.9
NK Brand N76-D3	6	28571	18.2	4	174.3	--	--
Renze 8526YGCB	2, 9, 10	27829	19.7	0	174.2	--	--
Mycogen 2P781	6	27181	18.1	1	173.4	--	--
Croplan Genetics 693CL/Bt	2, 5	26818	17.7	0	173.4	225.9	199.7
Stine 9703 YGCB	9, 10	28368	17.9	2	173.3	--	--
Golden Harvest H-9166	5	29190	17.5	2	171.9	239.1	205.5
Kruger 0615	3, 10	29455	17.3	0	170.9	--	--
Kruger 0614A	3, 10	28631	17.4	0	170.8	--	--
Kruger 0616	3, 10	29021	17.2	12	170.7	--	--
MFA MORCORN 3874CB	5	29638	15.6	9	170.2	--	--
Dyna-Gro 57F70	10, 12	28156	16.3	15	170.0	--	--
Bio Gene BG1115	1, 4, 10	29331	17.5	0	169.1	--	--
AgriGold A6445CL	10	28361	15.8	7	169.0	--	--
Lewis 5245	10	28898	16.8	0	169.0	--	--
Dyna-Gro 57F19	10, 12	28368	16.1	5	168.7	242.8*	205.8
Dyna-Gro 57F95	10, 12	29238	16.5	0	168.6	214.0	191.3
Golden Harvest H-9461	5	27721	16.7	1	167.7	234.0	200.9
Renze 6375	2, 9, 10	29746	17.7	0	167.1	--	--

TABLE 2. Continued.

Brand-Variety	Seed Treatment <sup>+</sup>	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005	2004	
Golden Harvest H-9657	5	26877	19.4	5	164.0	--	--
Ag Source 6693	5	27337	17.3	1	163.1	241.0	202.1
Bio Gene BG1118	1, 4, 10	25886	17.4	1	161.7	--	--
Ag Source 6150	5	30708	17.7	1	159.9	--	--
Font. High Cycle 7987YGCB	4, 10	28922	18.2	22	159.4	--	--
Mersch. M-610F-1	9, 10	28254	16.2	1	157.0	--	--
Kruger 9910 YGCB	3, 10	29931	14.8	1	156.0	--	--
Burrus 646R	4, 10	28421	17.2	0	155.6	--	--
NuTech EX NT-4012 YGCB	5	28148	14.6	2	153.8	--	--
Kruger 9111YGCB	3, 10	27594	15.3	0	134.2	--	--
<b>TEST AVERAGE</b>		<b>28451</b>	<b>17.4</b>	<b>2</b>	<b>181.4</b>	<b>234.7</b>	<b>208.1</b>
<b>L.S.D. AT .10</b>		<b>2058</b>	<b>0.8</b>	<b>5</b>	<b>20.3</b>	<b>18.0</b>	
<b>C.V. %</b>		<b>5.2</b>	<b>3.2</b>		<b>7.8</b>	<b>5.5</b>	

-- 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= Lorsban 30 (Chlorpyrifos); 9= Maxim XL (Fludioxonil); 10= Poncho 250 (Clothianidin); 11= Poncho 1250 (Clothianidin); 12= Trilex (Trifloxystrobin)

TABLE 3. **Non-Irrigated Corn Test**

North Region: Albany, MO (Gentry County)

Soil Type: Grundy Silt Loam Soil Test: pH=6.8, OM=3.2%, P=84, K=326

European Corn Borer Rating: Damaged Plants= 36%, Tunnel Length/Plant= 1.4 in.

Rainfall: Apr.=4.9, May=1.4, June=5.8, July=4.2, Aug.=2.0 Total=18.3 in.

Brand-Variety	Seed Treatment <sup>+</sup>	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005 2004	bu/acre	
Ag Source 6273	5	29672	19.0	2	206.2**	--	--
LG 2625Bt	8, 9	30340	20.5	0	204.3*	--	--
Pioneer 33D11	3, 10	30235	18.3	0	203.2*	--	--
Stine 9703 YGCB	9, 10	29570	18.9	1	203.0*	--	--
Golden Harvest H-9006Bt	5	30920	18.8	0	202.3*	--	--
Burrus 795B	4, 10, 12	30444	21.1	0	201.7*	201.5*	201.6
Hawkeye Hybrids 316BT	9	30462	20.7	0	201.5*	172.0	186.8
Lewis 7044YGCB	10	29175	21.4	0	201.3*	192.7	197.0
NK Brand N70-T9	6	31222	20.1	0	200.4*	168.7	184.6
DEKALB DKC60-16 (YGCB)	10	31380	19.5	0	200.4*	164.6	182.5
Font. High Cycle 7951YGCB	4, 10	30807	19.3	0	200.2*	192.1	196.2
NuTech NT-4213 YGCB	5	28896	18.6	0	200.0*	195.4	197.7
Vigoro V54Y61	2, 9, 10	30073	18.9	1	199.4*	--	--
Kruger 5514YGCB	3, 10	30639	18.6	0	199.3*	--	--
Willcross 3123CB	10	29338	17.8	1	199.1*	--	--
Rainbow 3105YGCB	9	31268	20.5	0	198.9*	190.2	194.6
Renze 8386YGCB	2, 9, 10	30547	19.8	0	198.2*	--	--
ASGROW RX715RR2	10	30787	18.3	1	198.0*	--	--
Lewis 5343	10	30322	18.8	0	197.6*	--	--
Pioneer 34P88	3, 10	30047	18.5	0	197.6*	--	--
NuTech NT-4312 YGCB	10	29671	18.6	0	197.1*	--	--
Ag Source 7883	5	30793	21.4	0	196.8*	--	--
Stine 9804 YGCB	9, 10	28623	20.9	0	196.8*	--	--
Pfister 2730	9, 11	30968	18.7	0	196.6*	--	--
NuTech NT-4014 YGCB	10	30771	17.5	0	196.4*	--	--
Kruger 9115 YGCB	3, 10	29775	19.2	0	196.3*	186.4	191.4
Rainbow 3158YGCB	9	29979	21.0	0	196.0*	209.3*	202.7
Mersch. M-512C-1	4, 10	29183	19.4	0	195.7*	--	--
Lewis 5245	10	30582	18.5	0	195.2*	--	--
Font. High Cycle 7931YGCB	4, 10	29445	19.8	0	195.0*	221.6**	208.3
DEKALB DKC63-62 (RR2)	10	31293	18.2	0	194.2*	--	--
Dyna-Gro 57F37	10, 12	29571	19.2	0	194.0*	--	--
Dyna-Gro 57F19	10, 12	30435	19.3	0	193.6*	179.5	186.6
Renze EX8546YGCB	2, 9, 10	31071	19.9	0	192.6*	--	--
Garst 8380IT	6	30506	19.9	0	192.2*	--	--
Ag Source X53114	5	31289	19.5	0	191.6*	--	--
Kruger 5416YGCB	3, 10	29824	18.5	0	191.4*	--	--
Kruger 5517YGCB	3, 10	29456	21.5	0	191.3*	189.6	190.5
Willcross 3193CB	10	28615	20.2	0	190.5	--	--
Mersch. M-612D-1	9, 10	29740	18.7	0	190.4	--	--
LG 2600Bt	8, 9	28266	17.8	2	190.1	--	--
Mersch. M-314A-1	4, 10	29276	20.8	1	190.1	188.5	189.3
DEKALB DKC63-79 (YGCB)	10	30740	18.3	0	190.0	176.5	183.3
Mycogen 2H789	6	30927	19.2	0	189.8	--	--
Croplan Genetics 691 BTLL	2, 5	29440	18.7	0	189.5	--	--

TABLE 3. Continued.

Brand-Variety	Seed Treatment <sup>+</sup>	2005			Yield		
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005	2004	2 Yr. Mean
				-----bu/acre-----			
Kruger 9212YGCB	3, 10	30651	18.8	0	189.2	--	--
Pioneer 33A84	3, 11	30660	18.7	0	189.1	161.4	175.3
Rainbow 3135YGCB	9	30022	20.0	0	189.0	181.8	185.4
Renze 6406	2, 9, 10	29162	17.6	0	188.9	--	--
Font. High Cycle 7987YGCB	4, 10	30190	21.2	0	188.8	--	--
NuTech NT-4616 YGCB	5	31504	21.0	0	188.4	194.6	191.5
AgriGold A6445CL	10	30451	18.3	0	188.2	--	--
Font. High Cycle 7971YGCB	4, 10	29392	19.6	0	188.0	199.4	193.7
NuTech NT-0116	10	29428	18.7	0	187.9	--	--
Kruger 9313YGCB	3, 10	30300	19.4	0	187.6	--	--
Pioneer 33N09	3, 11	29709	18.8	0	187.2	--	--
LG 2540Bt	8, 9	29535	17.4	0	187.0	161.2	174.1
Garst 8535YG1/IT	6	30745	18.7	0	186.7	146.4	166.6
NC+ 4971	1, 10	28351	17.6	0	186.5	--	--
Golden Harvest H-9461	5	30268	19.0	0	185.8	186.7	186.3
Ag Source 6693	5	29268	19.8	0	185.7	208.3*	197.0
Kruger 0614A	3, 10	30385	17.8	0	184.8	--	--
Kruger 5313YGCB	3, 10	29683	18.9	0	184.6	195.8	190.2
Croplan Genetics 693CL/Bt	2, 5	30325	19.0	0	184.6	176.9	180.8
Burrus 646R	4, 10	31174	18.3	0	184.4	--	--
NuTech NT-4516 YGCB	10	30595	19.7	0	184.3	195.3	189.8
Mersch. M-610F-1	9, 10	29165	17.6	0	184.1	--	--
NK Brand N76-D3	6	28932	20.3	0	184.1	--	--
Rainbow 3120YGCB	9	30479	18.8	0	183.6	165.6	174.6
DEKALB DKC61-72 (RR2)	10	29621	17.7	0	183.6	--	--
NK Brand N65-C5	6	30225	17.7	0	183.4	--	--
Pioneer 33Y45	3, 10	31496	19.8	1	183.4	--	--
Burrus 717	4, 10	29634	18.5	1	182.8	--	--
Dyna-Gro 57F87	10	29365	21.7	0	182.2	203.3*	192.8
MFA MORCORN 3874CB	5	30504	18.6	0	181.7	--	--
NK Brand N67-T4	6	30869	18.5	0	181.7	144.1	162.9
NuTech EX NT-4012 YGCB	5	30006	17.3	0	181.5	--	--
MFA MORCORN 4474CB	5	30074	19.7	0	181.4	--	--
Pioneer 33K39	3, 11	28347	19.3	1	181.3	--	--
Kruger 0614B	3, 10	29680	19.3	1	181.1	--	--
Willcross 3136X1	10	30866	19.1	0	181.0	--	--
Kruger 0617A	3, 10	30527	18.4	0	180.3	--	--
Midland MG 7A53BT	10	29484	18.5	0	180.1	166.8	173.5
NuTech NT-0616	10	29359	20.4	4	179.6	--	--
Renze 8526YGCB	2, 9, 10	29579	21.5	0	179.2	--	--
Golden Harvest H-8920	5	28758	17.6	0	178.5	--	--
NuTech NT-4717 YGCB	5	29669	20.0	0	178.5	175.0	176.8
Bio Gene BG1115	1, 4, 10	30397	17.5	1	178.3	--	--
Rainbow 3167	9	29265	19.7	0	177.6	171.4	174.5
Vigoro V5240	2, 5, 7, 9	31005	17.8	0	177.4	171.2	174.3
Dyna-Gro 57F95	10, 12	30617	17.7	0	176.8	177.3	177.1
Renze 6375	2, 9, 10	31192	18.1	0	176.4	--	--
Dyna-Gro 57F70	10, 12	29438	18.4	0	176.4	--	--
Font. High Cycle 8B436	4, 10	29403	18.6	2	176.3	165.1	170.7
Vigoro V5160	2, 9, 10	29092	18.1	1	175.4	--	--
NC+ 5381	1, 10	31206	17.5	0	173.4	--	--
Kruger 0616	3, 10	30880	19.1	0	173.4	--	--
Kruger 9910 YGCB	3, 10	30677	17.6	0	172.4	--	--
Bio Gene BG1118	1, 4, 10	31278	18.0	0	172.4	--	--

TABLE 3. Continued.

Brand-Variety	Seed Treatment <sup>+</sup>	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005	2004	
Ag Source 6150	5	31077	17.5	0	172.3	--	--
Bio Gene BG1132	1, 4, 10	28541	18.9	1	172.3	--	--
Garst 8566YG1	6	28993	18.0	0	171.7	--	--
Golden Harvest H-9166	5	31196	16.9	1	169.6	163.9	166.8
Mycogen 2P781	6	28186	20.0	0	169.5	--	--
MFA MORCORN 3974CB	5	30254	18.3	0	167.2	--	--
Willcross 3103CB	10	26342	17.6	1	167.1	--	--
Kruger 0615	3, 10	29283	18.0	0	166.6	--	--
Golden Harvest H-9657	5	31462	21.7	1	164.9	--	--
Kruger 9111YGCB	3, 10	31352	17.4	0	159.9	--	--
<b>TEST AVERAGE</b>		<b>30055</b>	<b>19.0</b>	<b>0</b>	<b>186.9</b>	<b>178.6</b>	<b>182.8</b>
<b>L.S.D. AT .10</b>		<b>1478</b>	<b>0.9</b>	<b>NS</b>	<b>15.0</b>	<b>21.4</b>	
<b>C.V. %</b>		<b>3.5</b>	<b>3.3</b>		<b>5.6</b>	<b>8.6</b>	

-- 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= Lorsban 30 (Chlorpyrifos); 9= Maxim XL (Fludioxonil); 10= Poncho 250 (Clothianidin); 11= Poncho 1250 (Clothianidin); 12= Trilex (Trifloxystrobin)

**TABLE 4. Non-Irrigated Corn Test**

North Region: Mooresville, MO (Livingston County)

Soil Type: Grundy Silt Loam Soil Test: pH=5.8, OM=2.6%, P=52, K=336

European Corn Borer Rating: Damaged Plants= 28%, Tunnel Length/Plant= 0.87 in.

Rainfall: Apr.=1.9, May=3.1, June=6.8, July=0.7, Aug.=3.7 Total=16.2 in.

Brand-Variety	Seed Treatment <sup>+</sup>	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005 2004 -----bu/acre-----		
NuTech NT-4516 YGCB	10	31243	19.8	1	163.0**	262.5*	212.8
Golden Harvest H-9461	5	31367	18.8	2	156.7*	229.9	193.3
Dyna-Gro 57F70	10, 12	31118	16.9	5	153.7*	--	--
Willcross 3193CB	10	30870	19.7	6	151.7*	--	--
MFA MORCORN 4474CB	5	30869	20.4	9	151.1*	--	--
NK Brand N76-D3	6	30745	18.5	8	146.9	--	--
Ag Source 6693	5	30994	19.8	1	145.4	247.2	196.3
Burrus 795B	4, 10, 12	30247	18.1	5	144.8	263.3*	204.1
Willcross 3136X1	10	31243	17.2	1	144.5	--	--
Lewis 7044YGCB	10	30745	15.7	6	143.4	252.0	197.7
NuTech NT-4717 YGCB	5	31616	19.8	1	142.8	255.7	199.3
Croplan Genetics 691 BTLL	2, 5	30994	17.6	0	142.2	--	--
NuTech NT-4014 YGCB	10	29874	14.0	3	141.6	--	--
Midland MG 7A53BT	10	31741	16.9	2	141.1	223.4	182.3
Dyna-Gro 57F87	10	31243	19.6	7	141.0	265.1*	203.1
Ag Source 7883	5	31990	19.0	14	139.6	--	--
Ag Source 6273	5	30869	15.8	0	139.5	--	--
Golden Harvest H-9006Bt	5	31243	14.9	0	139.2	--	--
NuTech NT-0616	10	31492	20.6	1	139.0	--	--
Renze 8526YGCB	2, 9, 10	30620	18.0	6	138.1	--	--
Garst 8380IT	6	31616	16.4	4	138.0	--	--
Kruger 9115 YGCB	3, 10	31243	20.2	1	137.6	229.8	183.7
Font. High Cycle 7987YGCB	4, 10	31118	21.6	9	137.2	--	--
Mersch. M-512C-1	4, 10	31865	16.6	0	136.4	--	--
DEKALB DKC63-79 (YGCB)	10	31243	19.0	1	136.1	232.0	184.1
Font. High Cycle 7931YGCB	4, 10	30621	21.9	0	135.8	267.6*	201.7
Renze 6406	2, 9, 10	30869	16.0	1	135.4	--	--
Dyna-Gro 57F37	10, 12	30745	16.1	2	135.3	--	--
Rainbow 3105YGCB	9	31741	16.1	0	134.6	245.7	190.2
Dyna-Gro 57F95	10, 12	30994	15.7	8	134.3	236.2	185.3
Willcross 3103CB	10	29127	16.6	3	134.1	--	--
Rainbow 3120YGCB	9	30247	16.1	0	134.1	241.2	187.7
Lewis 5343	10	30994	17.2	1	134.1	--	--
Golden Harvest H-8920	5	31243	16.6	0	133.8	--	--
Pioneer 33K39	3, 11	29874	17.3	2	133.4	--	--
NC+ 4971	1, 10	30869	15.2	0	132.4	--	--
NuTech NT-4312 YGCB	10	31368	14.2	0	132.4	--	--
Font. High Cycle 7951YGCB	4, 10	31741	20.9	0	132.4	243.8	188.1
Renze 8386YGCB	2, 9, 10	30620	17.7	0	132.3	--	--
Kruger 5313YGCB	3, 10	31367	15.2	0	131.9	256.1	194.0
LG 2600Bt	8, 9	30247	14.3	4	131.8	--	--
Kruger 5514YGCB	3, 10	30869	15.2	0	131.7	--	--
Kruger 9313YGCB	3, 10	31865	18.7	1	131.5	--	--
Kruger 9212YGCB	3, 10	30371	16.4	0	131.4	--	--
MFA MORCORN 3874CB	5	31492	17.8	3	131.4	--	--

TABLE 4. Continued.

Brand-Variety	Seed Treatment <sup>+</sup>	2005			Yield		
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005	2004	2 Yr. Mean
				-----bu/acre-----			
Rainbow 3158YGCB	9	29500	20.6	4	131.0	264.0*	197.5
Mycogen 2H789	6	31118	16.5	1	130.9	--	--
Hawkeye Hybrids 316BT	9	31741	18.5	5	130.8	270.4*	200.6
Vigoro V54Y61	2, 9, 10	30371	16.2	0	130.7	--	--
Mersch. M-612D-1	9, 10	30745	16.3	1	130.6	--	--
Pioneer 33A84	3, 11	30372	17.3	1	130.6	223.8	177.2
NK Brand N67-T4	6	30372	14.8	1	130.6	234.3	182.5
Kruger 0614A	3, 10	29127	15.2	1	130.5	--	--
Pioneer 33Y45	3, 10	30247	17.6	2	130.4	--	--
Ag Source X53114	5	31243	20.2	0	130.2	--	--
NuTech NT-4213 YGCB	5	30620	17.6	0	130.0	277.3**	203.7
Kruger 5416YGCB	3, 10	30994	16.8	1	129.5	--	--
Croplan Genetics 693CL/Bt	2, 5	30496	15.9	0	128.8	249.6	189.2
Pfister 2730	9, 11	30372	15.3	1	128.2	--	--
Garst 8535YG1/IT	6	31367	16.3	1	128.1	255.7	191.9
Vigoro V5160	2, 9, 10	31492	15.4	0	128.1	--	--
NuTech NT-4616 YGCB	5	31368	16.1	6	128.0	275.3*	201.7
Mersch. M-314A-1	4, 10	30994	15.9	6	127.8	260.8	194.3
Font. High Cycle 7971YGCB	4, 10	29376	17.5	1	127.7	255.1	191.4
Lewis 5245	10	30745	16.5	0	127.7	--	--
Willcross 3123CB	10	31367	15.4	1	126.8	--	--
NK Brand N65-C5	6	31741	15.9	2	126.4	--	--
Bio Gene BG1132	1, 4, 10	29625	14.8	0	126.2	--	--
Burrus 717	4, 10	30371	15.6	1	125.9	--	--
Kruger 0615	3, 10	29874	13.5	3	125.6	--	--
NK Brand N70-T9	6	31243	16.6	0	125.4	254.6	190.0
LG 2540Bt	8, 9	30745	14.3	0	125.3	238.1	181.7
Kruger 5517YGCB	3, 10	30745	17.0	15	125.0	227.0	176.0
Kruger 0616	3, 10	31741	16.9	0	124.6	--	--
Pioneer 33D11	3, 10	30123	15.5	0	124.6	--	--
Golden Harvest H-9166	5	31616	14.5	3	124.4	233.8	179.1
Kruger 0614B	3, 10	30745	14.4	0	124.3	--	--
DEKALB DKC63-62 (RR2)	10	31367	16.7	1	124.1	--	--
Dyna-Gro 57F19	10, 12	29998	20.4	0	123.6	239.0	181.3
DEKALB DKC61-72 (RR2)	10	30372	16.1	1	123.5	--	--
MFA MORCORN 3974CB	5	30247	15.1	11	123.3	--	--
Stine 9804 YGCB	9, 10	30496	21.2	0	122.6	--	--
Bio Gene BG1115	1, 4, 10	31367	14.4	1	122.6	--	--
Kruger 9910 YGCB	3, 10	30870	14.3	1	121.9	--	--
Kruger 0617A	3, 10	30372	15.8	0	121.6	--	--
Renze 6375	2, 9, 10	30994	14.0	0	121.4	--	--
Vigoro V5240	2, 5, 7, 9	30371	19.4	0	121.2	233.8	177.5
Garst 8566YG1	6	30247	14.8	2	121.2	--	--
Kruger 9111YGCB	3, 10	30247	16.6	0	120.8	--	--
Renze EX8546YGCB	2, 9, 10	30620	18.4	0	120.6	--	--
Pioneer 33N09	3, 11	31118	15.8	0	120.1	--	--
Font. High Cycle 8B436	4, 10	30620	15.1	3	119.8	221.7	170.8
NuTech NT-0116	10	32114	18.0	1	119.5	--	--
ASGROW RX715RR2	10	31243	14.0	0	118.0	--	--
AgriGold A6445CL	10	30869	16.2	1	117.2	--	--
NC+ 5381	1, 10	31367	14.0	1	116.9	--	--
Burrus 646R	4, 10	31616	16.2	1	116.8	--	--
NuTech EX NT-4012 YGCB	5	31367	14.2	1	116.5	--	--
Bio Gene BG1118	1, 4, 10	30870	16.9	1	116.3	--	--

TABLE 4. Continued.

Brand-Variety	Seed Treatment <sup>+</sup>	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005	2004	
Rainbow 3135YGCB	9	30869	19.5	1	116.3	240.2	178.3
Pioneer 34P88	3, 10	29376	13.6	1	115.4	--	--
LG 2625Bt	8, 9	30496	15.7	0	115.4	--	--
DEKALB DKC60-16 (YGCB)	10	32238	15.7	0	113.8	254.1	184.0
Ag Source 6150	5	29251	14.1	1	112.2	--	--
Mersch. M-610F-1	9, 10	30869	15.4	4	111.2	--	--
Rainbow 3167	9	31118	16.2	1	111.0	217.8	164.4
Stine 9703 YGCB	9, 10	29874	15.1	0	110.5	--	--
Golden Harvest H-9657	5	30496	21.2	3	108.4	--	--
Mycogen 2P781	6	29873	20.4	0	100.4	--	--
<b>TEST AVERAGE</b>		<b>30837</b>	<b>16.8</b>	<b>2</b>	<b>129.5</b>	<b>241.7</b>	<b>185.6</b>
<b>L.S.D. AT .10</b>		<b>NS</b>	<b>1.9</b>	<b>5</b>	<b>13.6</b>	<b>15.0</b>	
<b>C.V. %</b>		<b>3.4</b>	<b>8.2</b>		<b>7.3</b>	<b>4.4</b>	

-- 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= Lorsban 30 (Chlorpyrifos); 9= Maxim XL (Fludioxonil); 10= Poncho 250 (Clothianidin); 11= Poncho 1250 (Clothianidin); 12= Trilex (Trifloxystrobin)

**TABLE 5. Non-Irrigated Corn Test**

North Region: Novelty, MO (Knox County)

Soil Type: Putnam Silt Loam Soil Test: pH=6.8, OM=2.7%, P=50, K=246

European Corn Borer Rating: Damaged Plants= 32%, Tunnel Length/Plant= 0.14 in.

Rainfall: Apr.=2.7, May=2.2, June=5.7, July=2.2, Aug.=3.2 Total=16.0 in.

Brand-Variety	Seed Treatment <sup>+</sup>	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005 2004	bu/acre	
DEKALB DKC63-79 (YGCB)	10	30645	23.4	0	146.6**	233.4	190.0
Willcross 3136X1	10	30072	24.3	0	143.4*	--	--
DEKALB DKC61-72 (RR2)	10	29989	22.2	0	142.3*	--	--
Dyna-Gro 57F95	10, 12	28487	22.6	0	142.3*	242.5	192.4
LG 2625Bt	8, 9	29381	23.0	0	141.9*	--	--
Kruger 9313YGCB	3, 10	29983	23.1	0	138.1*	--	--
NuTech NT-4616 YGCB	5	29543	23.4	0	137.6*	257.5*	197.6
Willcross 3103CB	10	26927	22.0	0	137.0*	--	--
Lewis 5343	10	30016	23.2	0	134.0*	--	--
Pioneer 33D11	3, 10	29443	22.9	0	132.9*	--	--
Willcross 3123CB	10	28758	22.1	0	132.9*	--	--
NuTech NT-0116	10	30739	23.0	0	130.2	--	--
LG 2600Bt	8, 9	29131	22.1	0	130.1	--	--
Vigoro V5160	2, 9, 10	28839	21.8	0	130.0	--	--
Lewis 7044YGCB	10	30626	23.9	0	129.5	254.8*	192.2
Pfister 2730	9, 11	30167	22.0	0	129.5	--	--
Kruger 5517YGCB	3, 10	29814	24.4	0	129.1	269.5*	199.3
Renze 6406	2, 9, 10	27869	21.4	0	128.5	--	--
Golden Harvest H-8920	5	29347	22.2	0	128.4	--	--
Kruger 0616	3, 10	30438	23.5	0	128.3	--	--
Font. High Cycle 8B436	4, 10	29291	22.6	0	128.0	237.5	182.8
ASGROW RX715RR2	10	29728	22.6	0	127.6	--	--
Croplan Genetics 691 BTLL	2, 5	28406	22.7	0	127.4	--	--
Golden Harvest H-9461	5	30707	24.0	0	126.0	242.3	184.2
NuTech NT-4014 YGCB	10	29544	22.3	0	126.0	--	--
Pioneer 33N09	3, 11	29311	22.9	0	125.6	--	--
Ag Source 7883	5	30735	23.7	0	124.1	--	--
Mersch. M-612D-1	9, 10	30653	22.6	0	123.3	--	--
MFA MORCORN 3974CB	5	29119	22.4	0	122.8	--	--
NC+ 4971	1, 10	28504	21.7	0	122.3	--	--
Willcross 3193CB	10	29975	23.8	0	121.6	--	--
Pioneer 33A84	3, 11	27920	23.2	0	121.4	224.2	172.8
Kruger 0614A	3, 10	30308	21.5	0	121.4	--	--
Burrus 646R	4, 10	30232	23.0	0	121.1	--	--
Kruger 0617A	3, 10	29056	22.1	0	121.0	--	--
Pioneer 33K39	3, 11	29027	24.0	1	120.9	--	--
NK Brand N76-D3	6	30209	23.0	0	120.7	--	--
Hawkeye Hybrids 316BT	9	29605	24.2	0	120.7	273.3**	197.0
NuTech NT-4213 YGCB	5	29203	22.3	0	119.4	251.5*	185.5
Font. High Cycle 7931YGCB	4, 10	29493	23.8	0	118.2	257.2*	187.7
NK Brand N65-C5	6	30691	22.6	0	117.8	--	--
Bio Gene BG1118	1, 4, 10	28909	21.1	0	117.4	--	--
Kruger 9212YGCB	3, 10	29837	22.8	0	117.4	--	--
Burrus 795B	4, 10, 12	30404	24.6	0	115.8	266.5*	191.2
Stine 9703 YGCB	9, 10	28959	22.4	0	115.4	--	--

TABLE 5. Continued.

Brand-Variety	Seed Treatment <sup>+</sup>	2005			Yield		
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005	2004	2 Yr. Mean
					-----bu/acre-----		
Mersch. M-314A-1	4, 10	30239	24.3	0	115.1	256.6*	185.9
AgriGold A6445CL	10	28981	22.4	0	115.0	--	--
Kruger 5416YGCB	3, 10	29677	22.7	0	114.8	--	--
Lewis 5245	10	29486	22.7	0	114.4	--	--
Rainbow 3105YGCB	9	29731	22.9	0	114.0	235.1	174.6
Kruger 0614B	3, 10	31782	23.6	0	113.7	--	--
LG 2540Bt	8, 9	30912	22.0	0	113.6	238.2	175.9
Dyna-Gro 57F87	10	28913	24.2	0	113.5	261.6*	187.6
Rainbow 3158YGCB	9	31255	23.9	0	112.4	240.3	176.4
Renze 8386YGCB	2, 9, 10	28978	22.2	0	111.9	--	--
Rainbow 3120YGCB	9	30929	22.9	0	111.8	230.6	171.2
Renze 8526YGCB	2, 9, 10	29409	24.0	0	111.7	--	--
Kruger 5514YGCB	3, 10	29749	22.7	0	111.5	--	--
Font. High Cycle 7971YGCB	4, 10	27080	22.8	0	111.0	243.1	177.1
Kruger 5313YGCB	3, 10	28735	22.3	0	109.9	237.9	173.9
Croplan Genetics 693CL/Bt	2, 5	28055	22.6	0	109.3	237.5	173.4
MFA MORCORN 3874CB	5	30968	23.1	0	109.2	--	--
Garst 8566YG1	6	29946	22.2	0	109.0	--	--
Renze EX8546YGCB	2, 9, 10	30273	23.6	0	108.3	--	--
Pioneer 33Y45	3, 10	28625	24.1	0	107.8	--	--
Dyna-Gro 57F70	10, 12	28144	22.9	0	107.6	--	--
NK Brand N70-T9	6	30651	23.3	0	106.5	230.8	168.7
Golden Harvest H-9006Bt	5	30179	23.0	0	106.2	--	--
Dyna-Gro 57F37	10, 12	28916	22.8	0	106.2	--	--
Ag Source 6273	5	28899	23.0	0	105.3	--	--
Mersch. M-610F-1	9, 10	28791	21.0	0	105.0	--	--
Burrus 717	4, 10	29514	22.9	0	105.0	--	--
NuTech NT-4516 YGCB	10	29522	24.5	0	104.0	255.1*	179.6
Mycogen 2P781	6	29045	24.0	0	103.8	--	--
Midland MG 7A53BT	10	28530	23.4	0	103.4	207.3	155.4
Mersch. M-512C-1	4, 10	29741	22.9	0	102.2	--	--
Bio Gene BG1132	1, 4, 10	27189	22.3	0	101.5	--	--
NK Brand N67-T4	6	29893	22.6	0	100.8	228.6	164.7
Ag Source X53114	5	30427	23.9	0	100.5	--	--
MFA MORCORN 4474CB	5	30505	23.8	0	99.3	--	--
Ag Source 6693	5	29477	23.6	0	97.4	233.3	165.4
NuTech NT-4312 YGCB	10	29987	22.0	0	97.3	--	--
Vigoro V54Y61	2, 9, 10	30013	22.4	0	96.5	--	--
Font. High Cycle 7987YGCB	4, 10	28010	24.3	0	96.3	--	--
Font. High Cycle 7951YGCB	4, 10	29509	24.0	0	95.2	221.0	158.1
Rainbow 3167	9	27983	25.1	0	94.6	230.0	162.3
Pioneer 34P88	3, 10	29346	21.2	0	94.4	--	--
Garst 8535YG1/IT	6	30471	22.6	0	93.7	223.1	158.4
NuTech NT-0616	10	26994	24.7	0	93.5	--	--
Kruger 0615	3, 10	29163	21.3	0	92.5	--	--
Stine 9804 YGCB	9, 10	29143	23.3	0	90.1	--	--
NuTech EX NT-4012 YGCB	5	30293	23.5	0	90.0	--	--
Kruger 9111YGCB	3, 10	30094	23.2	0	89.4	--	--
Ag Source 6150	5	29410	20.3	0	87.8	--	--
DEKALB DKC60-16 (YGCB)	10	28901	22.0	0	87.6	232.8	160.2
Rainbow 3135YGCB	9	29188	23.5	0	84.9	231.6	158.3
NC+ 5381	1, 10	29872	20.4	0	84.6	--	--
Golden Harvest H-9166	5	31177	20.5	0	84.0	236.0	160.0
Mycogen 2H789	6	30044	23.3	0	83.1	--	--

TABLE 5. Continued.

Brand-Variety	Seed Treatment <sup>+</sup>	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005	2004	
NuTech NT-4717 YGCB	5	29197	24.1	0	81.9	244.1	163.0
DEKALB DKC63-62 (RR2)	10	30012	24.5	0	79.1	--	--
Kruger 9115 YGCB	3, 10	29409	23.9	0	79.0	215.6	147.3
Renze 6375	2, 9, 10	30964	21.6	0	76.1	--	--
Kruger 9910 YGCB	3, 10	30764	22.6	0	71.4	--	--
Dyna-Gro 57F19	10, 12	28974	25.1	0	70.4	216.4	143.4
Golden Harvest H-9657	5	30326	25.0	0	67.9	--	--
Bio Gene BG1115	1, 4, 10	30650	21.4	0	66.7	--	--
Vigoro V5240	2, 5, 7, 9	29492	23.1	0	64.2	225.5	144.9
Garst 8380IT	6	29782	25.7	0	63.0	--	--
<b>TEST AVERAGE</b>		<b>29563</b>	<b>23.0</b>	<b>0</b>	<b>109.9</b>	<b>233.7</b>	<b>171.8</b>
<b>L.S.D. AT .10</b>		<b>1419</b>	<b>0.8</b>	<b>NS</b>	<b>16.1</b>	<b>22.6</b>	
<b>C.V. %</b>		<b>3.4</b>	<b>2.5</b>		<b>10.3</b>	<b>6.8</b>	

-- 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= Lorsban 30 (Chlorpyrifos); 9= Maxim XL (Fludioxonil); 10= Poncho 250 (Clothianidin); 11= Poncho 1250 (Clothianidin); 12= Trilex (Trifloxystrobin)

**TABLE 6. Non-Irrigated Corn Test**

North Region: LaGrange, MO (Lewis County)

Soil Type: Westerville Silt Loam Soil Test: pH=5.6, OM=2.9%, P=62, K=552

European Corn Borer Rating: Damaged Plants= 40%, Tunnel Length/Plant= 0.39 in.

Rainfall: Apr.=1.8, May=1.8, June=2.5, July=1.8, Aug.=3.8 Total=11.7 in.

Brand-Variety	Seed Treatment <sup>+</sup>	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005 2004	bu/acre	
Hawkeye Hybrids 316BT	9	29118	20.3	96	194.9**	288.6*	241.8
MFA MORCORN 4474CB	5	28074	19.2	93	191.1*	--	--
DEKALB DKC61-72 (RR2)	10	30638	17.1	43	190.9*	--	--
NuTech NT-4213 YGCB	5	29782	18.9	68	188.3*	286.4	237.4
Mersch. M-314A-1	4, 10	29925	20.7	95	188.1*	306.8**	247.5
Golden Harvest H-9006Bt	5	30333	17.6	65	187.5*	--	--
Kruger 5416YGCB	3, 10	29640	19.6	68	187.2*	--	--
Garst 8566YG1	6	29411	17.6	55	185.7*	--	--
Renze 8386YGCB	2, 9, 10	27823	19.7	65	185.0*	--	--
LG 2540Bt	8, 9	29640	16.9	63	184.3*	264.0	224.2
Dyna-Gro 57F37	10, 12	30190	19.5	74	184.2*	--	--
Kruger 5517YGCB	3, 10	29086	20.1	94	184.2*	277.4	230.8
Willcross 3193CB	10	28911	20.3	83	184.1*	--	--
Garst 8535YG1/IT	6	29828	17.2	69	184.0*	260.0	222.0
Golden Harvest H-9461	5	29924	19.9	100	183.8*	249.4	216.6
Ag Source 6273	5	28378	19.9	81	183.7*	--	--
Vigoro V54Y61	2, 9, 10	29697	20.0	91	183.5*	--	--
Font. High Cycle 7931YGCB	4, 10	28427	19.2	61	183.5*	253.6	218.6
Renze 6406	2, 9, 10	28310	18.2	33	183.4*	--	--
Ag Source 7883	5	30414	20.6	100	182.8*	--	--
NuTech NT-4312 YGCB	10	29180	17.6	68	182.0*	--	--
Mersch. M-512C-1	4, 10	29301	19.7	93	181.9*	--	--
Garst 8380IT	6	29527	18.6	47	181.7*	--	--
Mersch. M-610F-1	9, 10	29661	15.8	30	181.5*	--	--
Kruger 9212YGCB	3, 10	30062	17.9	87	180.7	--	--
Ag Source 6693	5	28324	19.8	62	180.6	254.8	217.7
Renze 8526YGCB	2, 9, 10	29294	19.9	88	180.5	--	--
DEKALB DKC60-16 (YGCB)	10	29859	18.8	24	180.4	258.5	219.5
Golden Harvest H-8920	5	29587	18.6	37	180.4	--	--
Midland MG 7A53BT	10	30293	18.2	85	180.3	221.0	200.7
MFA MORCORN 3874CB	5	30350	17.4	91	180.2	--	--
Kruger 5313YGCB	3, 10	29641	16.9	72	179.9	281.3	230.6
DEKALB DKC63-79 (YGCB)	10	29905	18.5	56	179.4	253.5	216.5
Burrus 795B	4, 10, 12	29486	21.1	100	179.1	282.0	230.6
Kruger 9313YGCB	3, 10	29523	18.1	81	179.1	--	--
Kruger 9115 YGCB	3, 10	29499	18.9	100	178.5	233.8	206.2
LG 2625Bt	8, 9	29635	19.9	92	178.5	--	--
Mycogen 2H789	6	29717	18.9	36	177.8	--	--
Dyna-Gro 57F87	10	29375	21.2	85	177.8	289.6*	233.7
Pioneer 33K39	3, 11	27396	19.2	54	177.6	--	--
Pioneer 33Y45	3, 10	29483	19.9	67	176.4	--	--
Kruger 5514YGCB	3, 10	30884	19.4	70	175.6	--	--
Rainbow 3105YGCB	9	30211	19.4	74	175.4	243.7	209.6
Croplan Genetics 691 BTLL	2, 5	27976	18.2	84	175.3	--	--
Font. High Cycle 8B436	4, 10	30203	19.3	81	175.3	232.2	203.8

TABLE 6. Continued.

Brand-Variety	Seed Treatment <sup>+</sup>	2005			Yield		
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005 2005	2004 2004	2 Yr. Mean
				-----bu/acre-----			
ASGROW RX715RR2	10	30345	18.0	84	174.9	--	--
Pioneer 33D11	3, 10	28308	18.9	47	174.7	--	--
NK Brand N65-C5	6	29586	17.7	81	174.3	--	--
NuTech NT-4616 YGCB	5	29942	20.7	100	174.3	256.3	215.3
Rainbow 3158YGCB	9	30011	20.7	80	174.0	281.0	227.5
NuTech NT-4516 YGCB	10	29384	20.1	100	173.9	254.5	214.2
Burrus 717	4, 10	30022	18.4	46	173.8	--	--
NK Brand N70-T9	6	30503	19.1	73	173.5	255.8	214.7
Lewis 7044YGCB	10	30473	20.6	79	173.4	287.0	230.2
Pioneer 33A84	3, 11	30434	18.3	82	173.3	284.5	228.9
Font. High Cycle 7951YGCB	4, 10	29447	18.4	96	173.1	229.1	201.1
NuTech NT-0116	10	29636	17.5	77	173.0	--	--
Lewis 5245	10	29896	19.4	79	173.0	--	--
Pioneer 34P88	3, 10	29355	16.4	36	172.8	--	--
Pfister 2730	9, 11	30304	18.6	50	172.2	--	--
NK Brand N76-D3	6	29293	20.6	88	171.9	--	--
Lewis 5343	10	30209	17.8	80	171.5	--	--
NuTech NT-4014 YGCB	10	28451	16.9	100	171.2	--	--
DEKALB DKC63-62 (RR2)	10	30264	18.1	64	170.7	--	--
Vigoro V5160	2, 9, 10	29318	17.5	54	170.6	--	--
LG 2600Bt	8, 9	28545	16.8	95	170.5	--	--
Bio Gene BG1132	1, 4, 10	27554	17.9	28	170.2	--	--
Kruger 0614A	3, 10	30431	18.7	49	170.1	--	--
Rainbow 3120YGCB	9	29991	18.2	93	169.9	229.8	199.9
Mersch. M-612D-1	9, 10	28911	17.5	80	169.8	--	--
Kruger 0614B	3, 10	30278	19.0	17	169.6	--	--
NuTech NT-4717 YGCB	5	29262	19.5	20	169.0	284.4	226.7
Dyna-Gro 57F95	10, 12	28133	18.3	76	168.6	264.4	216.5
Burrus 646R	4, 10	29333	17.5	36	168.6	--	--
Ag Source 6150	5	29314	17.5	78	168.6	--	--
Rainbow 3135YGCB	9	29628	19.5	84	168.1	244.9	206.5
Kruger 9111YGCB	3, 10	30390	17.3	37	167.4	--	--
Stine 9703 YGCB	9, 10	29684	19.3	58	167.2	--	--
NC+ 4971	1, 10	28893	17.1	44	166.7	--	--
Dyna-Gro 57F70	10, 12	27887	18.2	85	166.5	--	--
Dyna-Gro 57F19	10, 12	29663	17.5	53	166.3	238.2	202.3
Pioneer 33N09	3, 11	28873	20.0	21	165.3	--	--
MFA MORCORN 3974CB	5	29064	17.8	67	165.2	--	--
NuTech EX NT-4012 YGCB	5	30272	17.4	88	165.1	--	--
Font. High Cycle 7987YGCB	4, 10	28184	22.1	93	164.5	--	--
Willcross 3123CB	10	29515	17.2	90	163.6	--	--
Croplan Genetics 693CL/Bt	2, 5	29224	18.5	76	163.6	263.6	213.6
Willcross 3103CB	10	28335	18.7	90	162.8	--	--
Rainbow 3167	9	28834	18.9	43	162.7	251.4	207.1
Willcross 3136X1	10	29773	18.9	93	162.2	--	--
NK Brand N67-T4	6	30263	16.9	37	161.3	233.4	197.4
Kruger 0615	3, 10	29164	18.7	49	161.1	--	--
Stine 9804 YGCB	9, 10	28945	20.5	58	160.2	--	--
Font. High Cycle 7971YGCB	4, 10	26690	18.2	94	160.0	241.9	201.0
Golden Harvest H-9166	5	30667	17.7	68	158.6	281.8	220.2
Bio Gene BG1115	1, 4, 10	29211	17.6	55	158.4	--	--
AgriGold A6445CL	10	29344	17.6	81	158.0	--	--
Bio Gene BG1118	1, 4, 10	29370	18.2	56	157.5	--	--
Kruger 0616	3, 10	29415	18.6	47	157.3	--	--

TABLE 6. Continued.

Brand-Variety	Seed Treatment <sup>+</sup>	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005	2004	
Kruger 9910 YGCB	3, 10	30322	14.5	75	157.3	--	--
NC+ 5381	1, 10	30416	17.8	51	157.0	--	--
Renze EX8546YGCB	2, 9, 10	29741	19.3	84	156.4	--	--
Ag Source X53114	5	28758	17.6	50	155.6	--	--
NuTech NT-0616	10	26659	19.4	94	154.8	--	--
Mycogen 2P781	6	28624	20.2	52	154.4	--	--
Renze 6375	2, 9, 10	30140	18.0	42	153.3	--	--
Kruger 0617A	3, 10	26979	17.9	53	151.4	--	--
Vigoro V5240	2, 5, 7, 9	28972	16.4	10	148.8	258.7	203.8
Golden Harvest H-9657	5	31188	22.5	76	147.4	--	--
<b>TEST AVERAGE</b>		<b>29412</b>	<b>18.7</b>	<b>69</b>	<b>172.5</b>	<b>252.4</b>	<b>212.5</b>
<b>L.S.D. AT .10</b>		<b>1493</b>	<b>1.2</b>	<b>31</b>	<b>13.5</b>	<b>19.4</b>	
<b>C.V. %</b>		<b>3.6</b>	<b>4.7</b>		<b>5.4</b>	<b>5.5</b>	

-- 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= Lorsban 30 (Chlorpyrifos); 9= Maxim XL (Fludioxonil); 10= Poncho 250 (Clothianidin); 11= Poncho 1250 (Clothianidin); 12= Trilex (Trifloxystrobin)

TABLE 7. Performance Summary for Non-Irrigated Hybrids evaluated at Five North Missouri locations (Craig, Albany, Mooresville, Novelty, LaGrange) during 2005.

<u>Craig</u> Planted: 05-05 Harvested: 10-03 Growing Season Rainfall: 27.2 in.	<u>Albany</u> Planted: 05-04 Harvested: 09-27 Growing Season Rainfall: 18.3 in.	<u>Mooresville</u> Planted: 05-03 Harvested: 09-21 Growing Season Rainfall: 16.2 in.
<u>Novelty</u> Planted: 04-27 Harvested: 09-21 Growing Season Rainfall: 16.0 in.	<u>LaGrange</u> Planted: 04-21 Harvested: 09-27 Growing Season Rainfall: 11.7 in.	

Brand-Hybrid	Yield (Bu/Acre)					Mean
	Craig	Albany	Mooresville	Novelty	LaGrange	
<b>Non-Irrigated</b>						
Lewis 7044YGCB	199.6*	201.3*	143.4	129.5	173.4	169.4**
DEKALB DKC63-79 (YGCB)	195.0*	190.0	136.1	146.6**	179.4	169.4**
Ag Source 7883	194.5*	196.8*	139.6	124.1	182.8*	167.6*
Burrus 795B	193.8*	201.7*	144.8	115.8	179.1	167.0*
DEKALB DKC61-72 (RR2)	193.1*	183.6	123.5	142.3*	190.9*	166.7*
Hawkeye Hybrids 316BT	185.3	201.5*	130.8	120.7	194.9**	166.6*
Ag Source 6273	197.7*	206.2**	139.5	105.3	183.7*	166.5*
Croplan Genetics 691 BTLL	197.8*	189.5	142.2	127.4	175.3	166.4*
LG 2625Bt	191.9*	204.3*	115.4	141.9*	178.5	166.4*
Willcross 3193CB	180.5	190.5	151.7*	121.6	184.1*	165.7*
Font. High Cycle 7931YGCB	193.7*	195.0*	135.8	118.2	183.5*	165.2*
NuTech NT-4213 YGCB	188.3*	200.0*	130.0	119.4	188.3*	165.2*
Rainbow 3105YGCB	200.6*	198.9*	134.6	114.0	175.4	164.7*
Renze 8386YGCB	194.8*	198.2*	132.3	111.9	185.0*	164.4*
Lewis 5343	184.2	197.6*	134.1	134.0*	171.5	164.3*
Golden Harvest H-9006Bt	185.3	202.3*	139.2	106.2	187.5*	164.1*
Kruger 9313YGCB	183.9	187.6	131.5	138.1*	179.1	164.0*
Golden Harvest H-9461	167.7	185.8	156.7*	126.0	183.8*	164.0*
Pfister 2730	191.9*	196.6*	128.2	129.5	172.2	163.7*
Renze 6406	182.0	188.9	135.4	128.5	183.4*	163.6*
MFA MORCORN 4474CB	194.7*	181.4	151.1*	99.3	191.1*	163.5*
Pioneer 33D11	181.4	203.2*	124.6	132.9*	174.7	163.4*
NuTech NT-4014 YGCB	179.1	196.4*	141.6	126.0	171.2	162.9*
Vigoro V54Y61	203.9*	199.4*	130.7	96.5	183.5*	162.8*
Mersch. M-512C-1	197.0*	195.7*	136.4	102.2	181.9*	162.6*
LG 2600Bt	189.0*	190.1	131.8	130.1	170.5	162.3*
Pioneer 33A84	196.4*	189.1	130.6	121.4	173.3	162.2*
Willcross 3136X1	179.1	181.0	144.5	143.4*	162.2	162.0
Mersch. M-314A-1	188.1*	190.1	127.8	115.1	188.1*	161.8
ASGROW RX715RR2	190.5*	198.0*	118.0	127.6	174.9	161.8
Kruger 5416YGCB	185.9	191.4*	129.5	114.8	187.2*	161.8
NC+ 4971	200.8*	186.5	132.4	122.3	166.7	161.7
Golden Harvest H-8920	186.1	178.5	133.8	128.4	180.4	161.4
NuTech NT-4516 YGCB	181.9	184.3	163.0**	104.0	173.9	161.4
NuTech NT-4616 YGCB	177.8	188.4	128.0	137.6*	174.3	161.2
Kruger 5517YGCB	174.5	191.3*	125.0	129.1	184.2*	160.8
Dyna-Gro 57F37	183.0	194.0*	135.3	106.2	184.2*	160.5
Pioneer 33K39	187.9*	181.3	133.4	120.9	177.6	160.2
Willcross 3123CB	178.1	199.1*	126.8	132.9*	163.6	160.1
Kruger 9212YGCB	181.7	189.2	131.4	117.4	180.7	160.1
Pioneer 33N09	201.4*	187.2	120.1	125.6	165.3	159.9
Rainbow 3158YGCB	185.9	196.0*	131.0	112.4	174.0	159.8
Mersch. M-612D-1	185.1	190.4	130.6	123.3	169.8	159.8
NK Brand N76-D3	174.3	184.1	146.9	120.7	171.9	159.6
Dyna-Gro 57F87	182.2	182.2	141.0	113.5	177.8	159.3

Table 7. Continued.

Brand-Hybrid	Yield (Bu/Acre)					
	Craig	Albany	Mooresville	Novelty	LaGrange	Mean
<b>Non-Irrigated</b>						
NuTech NT-4312 YGCB	186.9*	197.1*	132.4	97.3	182.0*	159.1
Kruger 5313YGCB	188.9*	184.6	131.9	109.9	179.9	159.0
Kruger 5514YGCB	176.2	199.3*	131.7	111.5	175.6	158.9
NuTech NT-0116	182.0	187.9	119.5	130.2	173.0	158.5
LG 2540Bt	182.2	187.0	125.3	113.6	184.3*	158.5
NK Brand N65-C5	190.3*	183.4	126.4	117.8	174.3	158.4
Vigoro V5160	186.7*	175.4	128.1	130.0	170.6	158.2
Dyna-Gro 57F95	168.6	176.8	134.3	142.3*	168.6	158.1
Pioneer 33Y45	189.2*	183.4	130.4	107.8	176.4	157.4
Font. High Cycle 8B436	187.7*	176.3	119.8	128.0	175.3	157.4
Kruger 0614B	197.6*	181.1	124.3	113.7	169.6	157.3
Midland MG 7A53BT	179.9	180.1	141.1	103.4	180.3	157.0
NK Brand N70-T9	178.4	200.4*	125.4	106.5	173.5	156.8
Renze 8526YGCB	174.2	179.2	138.1	111.7	180.5	156.7
Garst 8380IT	206.7**	192.2*	138.0	63.0	181.7*	156.3
Willcross 3103CB	180.1	167.1	134.1	137.0*	162.8	156.2
Kruger 9115 YGCB	187.9*	196.3*	137.6	79.0	178.5	155.9
Lewis 5245	169.0	195.2*	127.7	114.4	173.0	155.8
Garst 8566YG1	190.8*	171.7	121.2	109.0	185.7*	155.7
Kruger 0614A	170.8	184.8	130.5	121.4	170.1	155.5
Rainbow 3120YGCB	177.3	183.6	134.1	111.8	169.9	155.3
Garst 8535YG1/IT	183.1	186.7	128.1	93.7	184.0*	155.1
Font. High Cycle 7951YGCB	174.7	200.2*	132.4	95.2	173.1	155.1
Mycogen 2H789	193.9*	189.8	130.9	83.1	177.8	155.1
Dyna-Gro 57F70	170.0	176.4	153.7*	107.6	166.5	154.8
Pioneer 34P88	193.3*	197.6*	115.4	94.4	172.8	154.7
MFA MORCORN 3874CB	170.2	181.7	131.4	109.2	180.2	154.5
Ag Source 6693	163.1	185.7	145.4	97.4	180.6	154.4
Font. High Cycle 7971YGCB	184.6	188.0	127.7	111.0	160.0	154.3
DEKALB DKC60-16 (YGCB)	188.3*	200.4*	113.8	87.6	180.4	154.1
Stine 9703 YGCB	173.3	203.0*	110.5	115.4	167.2	153.9
Burrus 717	179.1	182.8	125.9	105.0	173.8	153.3
Renze EX8546YGCB	184.5	192.6*	120.6	108.3	156.4	152.5
Croplan Genetics 693CL/Bt	173.4	184.6	128.8	109.3	163.6	151.9
NuTech NT-4717 YGCB	187.1*	178.5	142.8	81.9	169.0	151.9
NK Brand N67-T4	182.6	181.7	130.6	100.8	161.3	151.4
MFA MORCORN 3974CB	177.9	167.2	123.3	122.8	165.2	151.3
Ag Source X53114	177.8	191.6*	130.2	100.5	155.6	151.1
DEKALB DKC63-62 (RR2)	186.7*	194.2*	124.1	79.1	170.7	151.0
Kruger 0616	170.7	173.4	124.6	128.3	157.3	150.8
Bio Gene BG1132	180.6	172.3	126.2	101.5	170.2	150.2
NuTech NT-0616	183.1	179.6	139.0	93.5	154.8	150.0
Kruger 0617A	175.7	180.3	121.6	121.0	151.4	150.0
Stine 9804 YGCB	179.0	196.8*	122.6	90.1	160.2	149.7
AgriGold A6445CL	169.0	188.2	117.2	115.0	158.0	149.5
Burrus 646R	155.6	184.4	116.8	121.1	168.6	149.3
Font. High Cycle 7987YGCB	159.4	188.8	137.2	96.3	164.5	149.2
Mersch. M-610F-1	157.0	184.1	111.2	105.0	181.5*	147.8
Rainbow 3135YGCB	174.9	189.0	116.3	84.9	168.1	146.6
Rainbow 3167	184.5	177.6	111.0	94.6	162.7	146.1
Bio Gene BG1118	161.7	172.4	116.3	117.4	157.5	145.0
Dyna-Gro 57F19	168.7	193.6*	123.6	70.4	166.3	144.5
Kruger 0615	170.9	166.6	125.6	92.5	161.1	143.3
Vigoro V5240	198.6*	177.4	121.2	64.2	148.8	142.0

Table 7. Continued.

Brand-Hybrid	Yield (Bu/Acre)					Mean
	Craig	Albany	Mooresville	Novelty	LaGrange	
<b>Non-Irrigated</b>						
Golden Harvest H-9166	171.9	169.6	124.4	84.0	158.6	141.7
NuTech EX NT-4012 YGCB	153.8	181.5	116.5	90.0	165.1	141.4
NC+ 5381	174.8	173.4	116.9	84.6	157.0	141.3
Mycogen 2P781	173.4	169.5	100.4	103.8	154.4	140.3
Ag Source 6150	159.9	172.3	112.2	87.8	168.6	140.2
Bio Gene BG1115	169.1	178.3	122.6	66.7	158.4	139.0
Renze 6375	167.1	176.4	121.4	76.1	153.3	138.9
Kruger 9910 YGCB	156.0	172.4	121.9	71.4	157.3	135.8
Kruger 9111YGCB	134.2	159.9	120.8	89.4	167.4	134.3
Golden Harvest H-9657	164.0	164.9	108.4	67.9	147.4	130.5
<b>TEST AVERAGE</b>	<b>181.4</b>	<b>186.9</b>	<b>129.5</b>	<b>109.9</b>	<b>172.5</b>	<b>156.0</b>
<b>L.S.D. AT .10</b>	<b>20.3</b>	<b>15.0</b>	<b>13.6</b>	<b>16.1</b>	<b>13.5</b>	<b>7.1</b>
<b>C.V. %</b>	<b>7.8</b>	<b>5.6</b>	<b>7.3</b>	<b>10.3</b>	<b>5.4</b>	<b>7.3</b>

\*\* 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 8. New Technology Corn Test**

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

Soil Type: Grundy Silt Loam Soil Test: pH=6.8, OM=3.2%, P=84, K=326

European Corn Borer Rating: Damaged Plants= 36%, Tunnel Length/Plant= 1.4 in.

Rainfall: Apr.=4.9, May=1.4, June=5.8, July=4.2, Aug.=2.0 Total=18.3 in.

Brand-Variety	Seed Treatment <sup>+</sup>	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005 2004	bu/acre	
High Yield Check 2	--	29174	21.0	0	216.4**	188.4	202.4
Bio Gene RR/CB1163	1, 4, 10	29669	21.0	0	204.8*	--	--
Croplan Genetics 731Hx/LL	2, 5	30352	19.3	0	202.1*	216.0*	209.1
Pioneer 34A16	3, 11	28824	18.0	0	199.7	--	--
Lewis 7095YGPL/RR	10	30384	20.9	0	198.6	--	--
Kruger 9115RR/YGCB	3, 10	30346	18.6	0	196.8	198.1	197.5
Pioneer 33R81	3, 11	30332	18.9	3	196.7	--	--
Stauffer 2816BR	5	29833	21.4	0	195.8	--	--
Pfister 3356RR-Bt	9, 11	27853	21.6	1	193.7	--	--
High Yield Check 3	--	29030	19.2	0	193.3	174.6	184.0
Kruger 2517RR/YGCB	3, 10	30436	21.0	3	193.2	210.7*	202.0
High Yield Check 1	--	30460	18.2	0	193.0	172.3	182.7
Pfister 2656RR-Bt	9, 11	29832	18.4	0	192.9	--	--
Kruger 9212TS	3, 10	29844	17.2	2	192.1	--	--
Burrus 796T	4, 10	28810	21.6	0	191.6	--	--
Mycogen 2T780	6	29481	19.0	0	190.8	218.2**	204.5
NuTech NT-9616YGPLUS	10	28142	21.2	0	189.1	--	--
Kruger 9308RR/YGCB	3, 10	30041	15.8	1	188.9	--	--
Mycogen 2G768	6	29346	18.6	0	188.3	--	--
Kruger 9313RR/YGCB	3, 10	28537	19.4	0	188.0	--	--
Kruger 9115TS	3, 10	30311	18.6	0	186.5	--	--
Kruger 8614HX	3, 10	28598	18.8	0	184.8	--	--
Pioneer 33B54	3, 11	27880	19.6	0	183.6	--	--
NuTech NT-2515 HX	10	29098	21.6	0	182.5	--	--
Kruger 8616HX	3, 10	30700	19.8	0	182.3	--	--
Lewis 5365YGCB/RR	10	30157	18.6	0	181.8	--	--
Stauffer 2677BR	5	29740	16.9	3	181.3	--	--
Mycogen 2T801	6	29859	18.1	0	181.2	--	--
Font. High Cycle 8H911	4, 10	31000	18.7	0	181.0	--	--
NuTech NT-5616 RR/YGCB	5	30119	20.9	0	180.0	--	--
Kruger 8414HX	3, 10	29915	19.3	1	179.5	--	--
Burrus 670S	4, 10	26737	19.6	0	175.5	--	--
Kruger 8609HX	3, 10	30451	16.4	1	168.4	--	--
NuTech NT-2016 HX	10	28495	21.1	0	168.1	--	--
Kruger 9212RR/YGCB	3, 10	28238	17.4	0	167.8	174.1	171.0
<b>TEST AVERAGE</b>		<b>29486</b>	<b>19.3</b>	<b>0</b>	<b>188.3</b>	<b>187.5</b>	<b>187.9</b>
<b>L.S.D. AT .10</b>		<b>1489</b>	<b>0.9</b>	<b>2</b>	<b>16.1</b>	<b>19.3</b>	
<b>C.V. %</b>		<b>3.5</b>	<b>3.4</b>		<b>5.9</b>	<b>7.3</b>	

-- 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= Lorsban 30 (Chlorpyrifos); 9= Maxim XL (Fludioxonil); 10= Poncho 250 (Clothianidin); 11= Poncho 1250 (Clothianidin); 12= Trilex (Trifloxystrobin)

**TABLE 9. New Technology Corn Test**

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

Soil Type: Putnam Silt Loam Soil Test: pH=6.8, OM=2.7%, P=50, K=246

European Corn Borer Rating: Damaged Plants= 32%, Tunnel Length/Plant= 0.14 in.

Rainfall: Apr.=2.7, May=2.2, June=5.7, July=2.2, Aug.=3.2 Total=16.0 in.

Brand-Variety	Seed Treatment <sup>+</sup>	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005 2004 -----bu/acre-----		
High Yield Check 2	--	28928	23.9	0	137.4**	248.3	192.9
Lewis 5365YGCB/RR	10	30472	23.2	0	135.3*	--	--
Stauffer 2677BR	5	29167	22.7	0	131.1*	--	--
Burrus 670S	4, 10	30025	22.5	0	130.7*	--	--
Pioneer 33R81	3, 11	30580	23.5	0	130.4*	--	--
High Yield Check 3	--	28969	22.7	0	128.5*	255.2	191.9
Burrus 796T	4, 10	30504	24.0	0	126.9*	--	--
High Yield Check 1	--	30255	22.6	0	125.4*	242.1	183.8
Lewis 7095YGPL/RR	10	29276	23.9	0	125.3*	--	--
Pioneer 33B54	3, 11	29918	22.9	0	121.7	--	--
Stauffer 2816BR	5	29493	24.5	0	121.1	--	--
NuTech NT-5616 RR/YGCB	5	30269	25.4	0	119.0	--	--
NuTech NT-9616YGPLUS	10	29655	24.1	0	118.4	--	--
Kruger 9212RR/YGCB	3, 10	31484	22.4	0	117.8	250.2	184.0
Pioneer 34A16	3, 11	29808	20.3	0	117.6	--	--
Kruger 9313RR/YGCB	3, 10	29630	22.1	0	114.7	--	--
Kruger 9212TS	3, 10	29337	22.0	0	114.2	--	--
Pfister 2656RR-Bt	9, 11	29946	22.9	0	112.3	--	--
Bio Gene RR/CB1163	1, 4, 10	28581	24.4	0	112.2	--	--
Pfister 3356RR-Bt	9, 11	29871	24.1	0	111.2	--	--
Font. High Cycle 8H911	4, 10	30643	23.2	0	108.2	--	--
Kruger 8414HX	3, 10	29336	23.4	0	106.1	--	--
Mycogen 2G768	6	29159	22.8	0	105.9	--	--
Kruger 9308RR/YGCB	3, 10	30377	20.8	0	104.7	--	--
Croplan Genetics 731Hx/LL	2, 5	30231	23.8	0	103.4	247.8	175.6
Mycogen 2T780	6	30180	23.1	0	101.9	228.9	165.4
Kruger 2517RR/YGCB	3, 10	31136	24.1	0	97.6	271.5**	184.6
Kruger 8614HX	3, 10	29924	22.3	0	91.7	--	--
Kruger 9115TS	3, 10	28683	23.8	0	81.0	--	--
NuTech NT-2515 HX	10	29591	25.3	0	77.4	--	--
Kruger 9115RR/YGCB	3, 10	30327	24.1	0	76.5	260.8	168.7
Mycogen 2T801	6	29770	24.2	0	74.6	--	--
NuTech NT-2016 HX	10	30104	26.5	0	66.5	--	--
Kruger 8609HX	3, 10	29384	22.4	0	50.4	--	--
Kruger 8616HX	3, 10	29945	23.7	0	40.6	--	--
<b>TEST AVERAGE</b>		<b>29856</b>	<b>23.4</b>	<b>0</b>	<b>106.8</b>	<b>246.7</b>	<b>176.8</b>
<b>L.S.D. AT .10</b>		<b>NS</b>	<b>0.9</b>	<b>0</b>	<b>14.6</b>	<b>NS</b>	
<b>C.V. %</b>		<b>3.3</b>	<b>2.7</b>		<b>9.4</b>	<b>8.6</b>	

-- 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= Lorsban 30 (Chlorpyrifos); 9= Maxim XL (Fludioxonil); 10= Poncho 250 (Clothianidin); 11= Poncho 1250 (Clothianidin); 12= Trilex (Trifloxystrobin)

**TABLE 10. New Technology Corn Test**

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

Soil Type: Mexico Silt Loam Soil Test: pH=6.6, OM=1.1%, P=106, K=444

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

Rainfall: Apr.=3.6, May=2.1, June=3.6, July=0.4, Aug.=8.8 Total=18.5 in

Brand-Variety	Seed Treatment <sup>+</sup>	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005	2004	
Kruger 8614HX	3, 10	27002	15.7	7	103.7**	--	--
NuTech NT-9616YGPLUS	10	25877	21.6	1	103.0*	--	--
Kruger 9115TS	3, 10	28197	22.7	3	94.1*	--	--
Kruger 9212TS	3, 10	29298	17.5	17	93.1*	--	--
High Yield Check 2	--	25936	17.2	12	89.2	254.6	171.9
Kruger 2517RR/YGCB	3, 10	24288	19.2	3	87.9	246.4	167.2
Pioneer 34A16	3, 11	30162	14.1	6	87.9	--	--
Stauffer 2816BR	5	26203	19.5	7	87.3	--	--
Bio Gene RR/CB1163	1, 4, 10	23092	19.4	2	86.2	--	--
Pfister 3356RR-Bt	9, 11	25051	19.7	1	86.0	--	--
Lewis 7095YGPL/RR	10	26844	21.1	7	84.9	--	--
Pfister 2656RR-Bt	9, 11	26861	18.0	8	84.2	--	--
Kruger 8609HX	3, 10	28508	18.1	4	83.3	--	--
Kruger 9313RR/YGCB	3, 10	24458	17.5	2	83.2	--	--
Burrus 796T	4, 10	26829	19.3	13	83.1	--	--
Mycogen 2G768	6	29264	15.7	0	82.4	--	--
Kruger 9212RR/YGCB	3, 10	28827	15.3	5	81.4	249.6	165.5
Lewis 5365YGCB/RR	10	27273	19.0	2	81.3	--	--
Font. High Cycle 8H911	4, 10	24485	18.9	14	80.0	--	--
High Yield Check 3	--	26844	15.0	6	79.8	249.2	164.5
Stauffer 2677BR	5	25221	17.6	8	79.7	--	--
NuTech NT-5616 RR/YGCB	5	30045	21.3	7	79.6	--	--
Pioneer 33R81	3, 11	27997	20.2	4	79.0	--	--
Kruger 9308RR/YGCB	3, 10	27969	16.1	9	78.8	--	--
Croplan Genetics 731Hx/LL	2, 5	22318	18.2	25	78.6	251.2	164.9
Mycogen 2T780	6	26363	16.8	11	78.3	240.8	159.6
Burrus 670S	4, 10	21398	17.6	0	78.0	--	--
Kruger 8414HX	3, 10	29272	19.3	10	76.6	--	--
Kruger 9115RR/YGCB	3, 10	27947	21.2	1	76.0	248.6	162.3
Pioneer 33B54	3, 11	21880	20.7	2	75.6	--	--
NuTech NT-2515 HX	10	25339	22.0	8	75.3	--	--
Kruger 8616HX	3, 10	26208	18.1	0	75.3	--	--
High Yield Check 1	--	28711	13.6	1	74.3	236.6	155.5
Mycogen 2T801	6	29360	21.8	1	68.2	--	--
NuTech NT-2016 HX	10	22903	20.5	5	63.9	--	--
<b>TEST AVERAGE</b>		<b>26521</b>	<b>18.6</b>	<b>6</b>	<b>82.3</b>	<b>244.7</b>	<b>163.5</b>
<b>L.S.D. AT .10</b>		<b>3460</b>	<b>2.3</b>	<b>10</b>	<b>11.2</b>	<b>NS</b>	
<b>C.V. %</b>		<b>9.3</b>	<b>9.4</b>		<b>9.2</b>	<b>6.9</b>	

-- 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= Lorsban 30 (Chlorpyrifos); 9= Maxim XL (Fludioxonil); 10= Poncho 250 (Clothianidin); 11= Poncho 1250 (Clothianidin); 12= Trilex (Trifloxystrobin)

TABLE 11. Performance Summary for New Technology Hybrids evaluated at Three North/Central Missouri locations (Albany, Novelty, Columbia) during 2005.

<u>Albany</u> Planted: 05-04 Harvested: 09-27 Growing Season Rainfall: 18.3 in.	<u>Novelty</u> Planted: 04-27 Harvested: 09-21 Growing Season Rainfall: 16.0 in.	<u>Columbia</u> Planted: 04-01 Harvested: 08-30,31 Growing Season Rainfall: 18.5 in.
--	---	---

Brand-Hybrid	Yield (Bu/Acre)			
	Albany	Novelty	Columbia	Mean
<b>New Technology</b>				
High Yield Check 2	216.4**	137.4**	89.2	147.7**
NuTech NT-9616YGPLUS	189.1	118.4	103.0*	136.8
Lewis 7095YGPL/RR	198.6	125.3*	84.9	136.3
Pioneer 33R81	196.7	130.4*	79.0	135.4
Pioneer 34A16	199.7	117.6	87.9	135.1
Stauffer 2816BR	195.8	121.1	87.3	134.7
Bio Gene RR/CB1163	204.8*	112.2	86.2	134.4
Burrus 796T	191.6	126.9*	83.1	133.9
High Yield Check 3	193.3	128.5*	79.8	133.9
Kruger 9212TS	192.1	114.2	93.1*	133.1
Lewis 5365YGCB/RR	181.8	135.3*	81.3	132.8
High Yield Check 1	193.0	125.4*	74.3	130.9
Stauffer 2677BR	181.3	131.1*	79.7	130.7
Pfister 3356RR-Bt	193.7	111.2	86.0	130.3
Pfister 2656RR-Bt	192.9	112.3	84.2	129.8
Kruger 9313RR/YGCB	188.0	114.7	83.2	128.6
Burrus 670S	175.5	130.7*	78.0	128.1
Croplan Genetics 731Hx/LL	202.1*	103.4	78.6	128.0
Pioneer 33B54	183.6	121.7	75.6	127.0
Kruger 8614HX	184.8	91.7	103.7**	126.7
Kruger 2517RR/YGCB	193.2	97.6	87.9	126.2
NuTech NT-5616 RR/YGCB	180.0	119.0	79.6	126.2
Mycogen 2G768	188.3	105.9	82.4	125.5
Kruger 9308RR/YGCB	188.9	104.7	78.8	124.1
Mycogen 2T780	190.8	101.9	78.3	123.7
Font. High Cycle 8H911	181.0	108.2	80.0	123.1
Kruger 9212RR/YGCB	167.8	117.8	81.4	122.3
Kruger 8414HX	179.5	106.1	76.6	120.7
Kruger 9115TS	186.5	81.0	94.1*	120.5
Kruger 9115RR/YGCB	196.8	76.5	76.0	116.4
NuTech NT-2515 HX	182.5	77.4	75.3	111.7
Mycogen 2T801	181.2	74.6	68.2	108.0
Kruger 8609HX	168.4	50.4	83.3	100.7
NuTech NT-2016 HX	168.1	66.5	63.9	99.5
Kruger 8616HX	182.3	40.6	75.3	99.4
<b>TEST AVERAGE</b>	<b>188.3</b>	<b>106.8</b>	<b>82.3</b>	<b>125.8</b>
<b>L.S.D. AT .10</b>	<b>16.1</b>	<b>14.6</b>	<b>11.2</b>	<b>8.0</b>
<b>C.V. %</b>	<b>5.9</b>	<b>9.4</b>	<b>9.2</b>	<b>8.2</b>

\*\* 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.