

Central Region Crop Management Summary

There are five locations in the central region of Missouri for non-irrigated corn tests and two locations for 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 March 30 to May 10 with soil conditions being very good at all locations at planting. The Columbia and Laddonia locations were hit by light frost in late April that injured the leaves but the plants recovered fully. There was also some injury at Annada from anhydrous ammonia because of the dry spring weather. Below normal rainfall and above normal temperatures during grain-fill decreased yields over last years record levels, but the region average was still very good. There was severe lodging at the Henrietta location following a storm in mid-July. Very little disease and insect pressure was present.

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

Average temperature = 70.0 degrees, 1.5 degrees above normal

Average precipitation = 16.7”, 3.4” below normal

Growing degree days = 3095 days, 189 days above normal

Table 12. Central 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>									
Henrietta	04-20	09-22	210	52	60	Conv.	Dual II Magnum, Callisto, Atrazine	None	Force 3G
Marshall	05-10	10-03	200	0	0	No-till	Dual II Magnum, Princep, Atrazine, Liberty	Callisto	Force 3G
Columbia	04-01	08-30,31	170	46	62	Min.	Dual II Magnum, Callisto, Atrazine	None	Force 3G
Truxton	04-25	09-06	150	100	80	No-till	Dual II Magnum, Callisto, Atrazine	None	Force 3G
Annada	04-08	09-13	190	120	0	Conv.	Degree Xtra, Atrazine, Princep	None	Force 3G
<i>Irrigated Corn Tests</i>									
Columbia	03-31	09-09	250	46	62	No-till	Dual II Magnum, Atrazine, Callisto	None	Force 3G
Laddonia	03-30	08-30	230	100	100	Conv.	Dual II Magnum, Atrazine, Callisto	Callisto	Force 3G

TABLE 13. Non-Irrigated Corn Test

Central Region: Henrietta, MO (Ray County)

Soil Type: Haynie Silt Loam Soil Test: pH=5.5, OM=2.2%, P=38, K=412

European Corn Borer Rating: Damaged Plants= 28%, Tunnel Length/Plant= 0.63 in.

Rainfall: Apr.=2.6, May=3.7, June=10.8, July=3.0, Aug.=8.8 Total=28.9 in.

Brand-Variety	Seed Treatment ⁺	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005 2004 -----bu/acre-----		
Garst 8292YG1	6	28522	17.5	70	247.2**	263.6*	255.4
Garst 8566YG1	6	28566	14.1	37	240.9*	--	--
Willcross 3123CB	10	29573	13.6	69	239.9*	--	--
Kruger 5416YGCB	3, 10	28863	16.0	78	238.7*	--	--
Lewis 5343	10	30257	13.3	61	235.2*	--	--
Kruger 9313YGCB	3, 10	29543	14.4	78	233.5*	--	--
Pioneer 33K39	3, 11	26472	15.8	72	231.5*	--	--
Mersch. M-512C-1	4, 10	28309	15.7	69	230.2*	--	--
Croplan Genetics 693CL/Bt	2, 5	27687	14.2	43	228.0*	236.6	232.3
DEKALB DKC63-62 (RR2)	10	29797	14.8	93	227.6*	--	--
NC+ 4971	1, 10	26804	14.7	55	225.8*	--	--
Mycogen 2H789	6	29750	15.5	56	224.8*	--	--
DEKALB DKC61-72 (RR2)	10	29017	14.0	100	223.9*	--	--
Burrus 646R	4, 10	29249	14.3	65	223.3*	--	--
LG 2540Bt	8, 9	28322	13.8	25	223.1*	247.2	235.2
DEKALB DKC60-16 (YGCB)	10	28128	14.8	49	221.6*	234.4	228.0
Stine 9703 YGCB	9, 10	27675	15.1	84	221.3*	--	--
Golden Harvest H-9166	5	31083	15.1	60	221.2*	234.8	228.0
Dyna-Gro 57F37	10, 12	30273	16.8	67	220.3*	--	--
Wyffels W7260	10	29885	13.9	41	219.9*	215.5	217.7
NC+ 5381	1, 10	29201	13.8	67	217.5*	--	--
NK Brand N76-D3	6	27847	16.3	83	213.3	--	--
Mersch. M-612D-1	9, 10	28309	15.1	99	213.1	--	--
DEKALB DKC63-79 (YGCB)	10	29613	16.1	87	212.8	252.9	232.9
NK Brand N65-C5	6	28870	14.3	95	212.0	--	--
Stine 111A YGCB	9, 10	26505	15.9	66	211.8	--	--
Kruger 5616YGCB	3, 10	27904	15.2	35	211.4	--	--
LG 2640Bt	8, 9	28012	15.4	100	210.9	--	--
Wyffels W8720	2, 9, 10	28531	16.0	76	209.6	--	--
Lewis 7044YGCB	10	30140	17.0	81	209.2	275.5*	242.4
Pioneer 33Y45	3, 10	28206	16.9	86	208.0	--	--
Pioneer 33N09	3, 11	29037	17.1	100	207.8	--	--
Pioneer 33A84	3, 11	30167	16.0	86	207.5	247.3	227.4
Kruger 0614A	3, 10	28125	14.9	85	207.1	--	--
Lewis 7206	10	29159	16.3	54	206.6	--	--
Croplan Genetics 691 BTLL	2, 5	28214	15.1	52	206.4	--	--
NK Brand N67-T4	6	28984	14.5	80	205.7	232.7	219.2
Dyna-Gro 57F19	10, 12	28051	15.4	100	204.6	247.9	226.3
Burrus 795B	4, 10, 12	29539	16.8	76	204.5	265.2*	234.9
Pioneer 33D11	3, 10	26993	14.9	67	201.8	--	--
Ag Source 7883	5	29620	17.6	86	201.7	--	--
Kruger 0516	3, 10	29805	13.9	75	201.5	--	--
Golden Harvest H-9563Bt	5	29890	16.2	78	201.2	--	--
Bio Gene CB1143	1, 4, 10	29552	17.0	85	198.8	--	--
Kruger 5617YGCB	3, 10	28745	15.5	56	197.0	--	--

TABLE 13. Continued.

Brand-Variety	Seed Treatment ⁺	2005			Yield		
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005 2005	2004 2004	2 Yr. Mean
					-----bu/acre-----		
Stine 9804 YGCB	9, 10	27803	17.7	89	196.9	--	--
Bio Gene BT1152	1, 4, 10	28852	17.3	99	196.4	--	--
Dyna-Gro 57F70	10, 12	26943	14.9	85	196.3	--	--
Mersch. M-314A-1	4, 10	28050	17.9	84	195.4	267.5*	231.5
Kruger 5514YGCB	3, 10	29954	15.4	70	195.4	--	--
Garst 8380IT	6	29540	14.2	89	195.2	--	--
Kruger 9115 YGCB	3, 10	29571	14.8	94	195.0	--	--
Mersch. M-613B	9, 10	27231	16.6	69	193.7	--	--
LG 2625Bt	8, 9	29726	16.2	92	190.7	--	--
MFA MORCORN 4474CB	5	29341	15.3	94	190.0	--	--
Midland MG 7A53BT	10	28717	15.1	92	189.9	251.0	220.5
Kruger 9212YGCB	3, 10	27791	14.8	81	186.9	--	--
Wyffels W6613	10	28485	14.8	95	186.0	233.7	209.9
NuTech NT-4616 YGCB	5	30107	18.0	100	185.6	250.3	218.0
Midland MG 7A58BT	10	28636	18.1	96	184.0	251.7	217.9
Mycogen 2J787	6	29320	13.8	25	182.8	253.3	218.1
Garst 8350YG1	6	28922	14.9	76	182.4	259.9	221.2
MFA MORCORN 3874CB	5	29174	15.5	100	181.9	--	--
Dyna-Gro 57F95	10, 12	28889	15.3	94	179.5	--	--
Kruger 5517YGCB	3, 10	28558	18.3	74	178.9	261.2*	220.1
Kruger 0616	3, 10	28644	15.9	92	178.2	--	--
Kruger 0617A	3, 10	27041	13.9	49	177.9	--	--
Willcross 3103CB	10	25879	14.9	100	177.2	219.8	198.5
NK Brand N70-T9	6	30287	16.4	93	175.6	226.2	200.9
Garst 8450IT	6	30507	15.4	67	174.9	--	--
MFA MORCORN 3974CB	5	27133	15.7	100	174.2	--	--
Vigoro V58Y41	6	27610	17.0	90	172.2	260.2	216.2
Willcross 3193CB	10	28382	16.2	100	171.9	--	--
Wyffels W8603	2, 9, 10	27975	18.6	77	165.3	265.6*	215.5
NuTech NT-4516 YGCB	10	28959	16.1	82	162.6	--	--
Dyna-Gro 57F87	10	29696	17.6	97	152.9	255.3	204.1
Golden Harvest H-9493Bt	5	29243	18.9	90	151.7	263.8*	207.8
Burrus 735R	4, 10	29857	14.8	87	151.2	--	--
ASGROW RX715RR2	10	29116	16.4	99	143.1	--	--
Golden Harvest H-9657	5	28803	17.2	94	140.6	--	--
Midland MG 7A55	10	28450	18.0	94	123.7	--	--
TEST AVERAGE		28765	15.7	78	199.2	244.6	221.9
L.S.D. AT .10		1625	1.1	33	33.5	16.5	
C.V. %		4.0	5.3		12.1	4.7	

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

TABLE 14. Non-Irrigated Corn Test

Central Region: Marshall, MO (Saline County)

Soil Type: Joy Silt Loam Soil Test: pH=6.8, OM=3.0%, P=120, K=282

European Corn Borer Rating: Damaged Plants= 44%, Tunnel Length/Plant= 0.46 in.

Rainfall: Apr.=2.0, May=3.0, June=3.4, July=1.8, Aug.=7.5 Total=17.7 in.

Brand-Variety	Seed Treatment ⁺	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005 2004	bu/acre	
Dyna-Gro 57F37	10, 12	30344	20.0	2	203.1**	--	--
Mersch. M-612D-1	9, 10	29385	19.2	0	202.6*	--	--
Kruger 5514YGCB	3, 10	30095	18.8	0	201.5*	--	--
LG 2625Bt	8, 9	30163	20.5	5	197.8*	--	--
Lewis 5343	10	29392	18.5	0	197.1*	--	--
Mersch. M-613B	9, 10	29783	18.3	4	196.4*	--	--
Kruger 0616	3, 10	27423	17.9	0	194.6*	--	--
Burrus 795B	4, 10, 12	28797	18.5	13	194.2*	215.0*	204.6
DEKALB DKC63-79 (YGCB)	10	28870	19.1	9	194.0*	205.5	199.8
Mersch. M-512C-1	4, 10	29754	19.8	0	193.2*	--	--
Wyffels W7260	10	28820	19.4	0	193.0*	215.9*	204.5
Kruger 9313YGCB	3, 10	29025	18.6	1	192.9*	--	--
Midland MG 7A53BT	10	29664	17.1	3	192.6*	184.2	188.4
NC+ 4971	1, 10	28433	18.8	8	192.2*	--	--
DEKALB DKC61-72 (RR2)	10	30028	16.5	10	192.1*	--	--
LG 2540Bt	8, 9	30263	17.0	5	191.6*	211.4	201.5
Willcross 3103CB	10	28482	18.1	6	191.6*	204.5	198.1
Garst 8292YG1	6	29575	20.1	2	190.9*	210.5	200.7
Vigoro V58Y41	6	29296	19.6	7	190.8*	233.4**	212.1
Mycogen 2H789	6	30240	18.5	7	190.7*	--	--
Croplan Genetics 691 BTLL	2, 5	29158	17.0	7	190.4*	--	--
Bio Gene BT1152	1, 4, 10	28675	20.6	2	189.9*	--	--
Wyffels W8603	2, 9, 10	27168	19.8	17	189.7*	209.1	199.4
Pioneer 33D11	3, 10	27711	16.7	1	189.4*	--	--
DEKALB DKC60-16 (YGCB)	10	29635	17.4	3	188.9*	220.4*	204.7
Dyna-Gro 57F87	10	29756	18.4	10	187.6*	208.8	198.2
NuTech NT-4616 YGCB	5	30106	19.5	21	187.5*	204.7	196.1
Kruger 5617YGCB	3, 10	30695	18.9	13	187.1	--	--
Kruger 5416YGCB	3, 10	28188	19.6	2	186.9	--	--
NK Brand N65-C5	6	30292	16.1	9	186.6	--	--
Pioneer 33N09	3, 11	28259	17.9	17	186.6	--	--
Mersch. M-314A-1	4, 10	29368	19.1	33	186.4	208.4	197.4
Pioneer 33Y45	3, 10	28106	18.7	13	185.2	--	--
Stine 111A YGCB	9, 10	28772	17.9	2	184.9	--	--
Kruger 9115 YGCB	3, 10	29155	16.6	6	184.9	--	--
Midland MG 7A58BT	10	29952	19.6	23	183.9	215.8*	199.9
Kruger 0614A	3, 10	29530	18.9	7	183.6	--	--
Golden Harvest H-9493Bt	5	29655	18.7	13	183.2	199.0	191.1
Lewis 7206	10	29893	20.1	8	182.6	--	--
NK Brand N76-D3	6	28396	19.4	0	182.3	--	--
NC+ 5381	1, 10	29798	19.0	1	181.7	--	--
Wyffels W8720	2, 9, 10	28490	19.8	4	180.8	--	--
Garst 8380IT	6	29049	16.8	0	180.6	--	--
Lewis 7044YGCB	10	28259	19.0	14	179.8	223.9*	201.9
Kruger 5517YGCB	3, 10	29800	19.1	29	179.6	222.8*	201.2

TABLE 14. Continued.

Brand-Variety	Seed Treatment ⁺	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005	2004	
Pioneer 33K39	3, 11	28104	18.8	6	179.4	--	--
Dyna-Gro 57F95	10, 12	28519	18.2	19	177.8	--	--
Golden Harvest H-9166	5	30428	19.1	7	177.8	215.9*	196.9
Ag Source 7883	5	29844	20.5	30	177.8	--	--
Kruger 0617A	3, 10	28568	17.3	4	176.7	--	--
Croplan Genetics 693CL/Bt	2, 5	29735	17.4	0	176.5	203.6	190.1
DEKALB DKC63-62 (RR2)	10	30385	16.0	7	175.5	--	--
ASGROW RX715RR2	10	28997	16.3	22	174.8	--	--
Dyna-Gro 57F19	10, 12	29229	16.2	5	174.0	189.8	181.9
LG 2640Bt	8, 9	29436	19.3	2	173.7	--	--
Burrus 646R	4, 10	29441	18.1	3	173.2	--	--
Kruger 5616YGCB	3, 10	27691	17.4	2	172.4	--	--
NK Brand N67-T4	6	27998	18.1	1	172.2	196.1	184.2
Bio Gene CB1143	1, 4, 10	29558	19.4	17	172.2	--	--
Willcross 3123CB	10	28162	17.2	0	172.1	--	--
NK Brand N70-T9	6	31631	19.0	1	172.0	209.4	190.7
Wyffels W6613	10	29123	17.1	36	172.0	174.2	173.1
Burrus 735R	4, 10	29160	18.7	0	170.8	--	--
Garst 8566YG1	6	28308	16.8	23	168.4	--	--
Garst 8350YG1	6	28393	18.3	0	168.4	164.0	166.2
Garst 8450IT	6	29990	16.9	1	168.2	--	--
Golden Harvest H-9657	5	29730	19.5	9	167.7	--	--
Dyna-Gro 57F70	10, 12	27200	17.1	41	166.2	--	--
Stine 9804 YGCB	9, 10	29484	19.7	13	166.2	--	--
Midland MG 7A55	10	28505	19.6	0	166.0	--	--
NuTech NT-4516 YGCB	10	30002	17.3	5	165.9	--	--
Kruger 9212YGCB	3, 10	29861	16.6	14	165.8	--	--
Stine 9703 YGCB	9, 10	28468	18.0	7	163.6	--	--
Kruger 0516	3, 10	30403	19.3	8	163.2	--	--
Mycogen 2J787	6	29373	18.9	0	163.1	230.1*	196.6
MFA MORCORN 4474CB	5	30253	18.2	20	162.7	--	--
MFA MORCORN 3874CB	5	30418	16.5	5	162.5	--	--
Pioneer 33A84	3, 11	29500	17.8	16	160.6	198.4	179.5
MFA MORCORN 3974CB	5	27835	19.1	34	159.1	--	--
Golden Harvest H-9563Bt	5	30569	18.6	21	158.9	--	--
Willcross 3193CB	10	28678	18.5	11	152.4	--	--
TEST AVERAGE		29243	18.4	9	180.4	200.7	190.6
L.S.D. AT .10		1930	1.3	16	15.7	19.3	
C.V. %		4.7	4.9		6.1	7.0	

-- 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 (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 15. Non-Irrigated Corn Test

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 ⁺	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005	2004	
Pioneer 33A84	3, 11	30545	18.9	1	111.1**	236.8	174.0
MFA MORCORN 3974CB	5	27441	21.0	22	105.0*	--	--
Willcross 3193CB	10	24977	21.8	17	104.9*	--	--
Wyffels W6613	10	28246	19.5	27	102.7*	245.4	174.1
Midland MG 7A53BT	10	28316	19.3	9	99.9*	247.0	173.5
Golden Harvest H-9166	5	29879	15.8	2	99.4*	252.0*	175.7
Dyna-Gro 57F70	10, 12	27718	19.1	8	96.9	--	--
NC+ 5381	1, 10	28094	15.1	3	96.7	--	--
Stine 111A YGCB	9, 10	28999	17.2	3	96.7	--	--
Wyffels W7260	10	27903	16.8	3	96.4	242.3	169.4
Vigoro V58Y41	6	23995	20.1	7	96.2	258.0*	177.1
NC+ 4971	1, 10	24771	14.2	1	95.7	--	--
Midland MG 7A58BT	10	26016	18.1	5	95.2	244.9	170.1
Croplan Genetics 691 BTLL	2, 5	29804	21.4	1	94.4	--	--
Bio Gene BT1152	1, 4, 10	25951	21.7	2	94.4	--	--
Pioneer 33K39	3, 11	25109	21.5	0	94.3	--	--
Willcross 3103CB	10	19010	19.2	3	93.7	239.1	166.4
Lewis 7044YGCB	10	28193	17.9	3	92.5	266.5*	179.5
Lewis 5343	10	28982	17.1	7	92.0	--	--
Mersch. M-314A-1	4, 10	25944	18.9	15	92.0	261.1*	176.6
Pioneer 33N09	3, 11	27197	16.3	1	91.9	--	--
LG 2540Bt	8, 9	27596	16.2	3	91.3	254.8*	173.1
Garst 8566YG1	6	30308	14.0	4	90.5	--	--
Kruger 9313YGCB	3, 10	30492	16.4	0	90.5	--	--
NuTech NT-4516 YGCB	10	27369	20.2	8	90.2	--	--
Mycogen 2H789	6	30192	19.1	0	89.9	--	--
Kruger 5517YGCB	3, 10	26354	19.6	2	89.8	258.8*	174.3
Kruger 0614A	3, 10	28163	14.3	2	89.6	--	--
NK Brand N65-C5	6	30378	17.5	0	89.5	--	--
Kruger 9212YGCB	3, 10	28460	17.0	1	89.3	--	--
Burrus 646R	4, 10	28002	17.2	4	89.1	--	--
Burrus 795B	4, 10, 12	27399	20.2	15	89.0	239.4	164.2
Willcross 3123CB	10	29790	16.9	2	88.9	--	--
Mersch. M-612D-1	9, 10	28121	14.4	4	88.9	--	--
ASGROW RX715RR2	10	30100	18.5	3	88.7	--	--
DEKALB DKC63-79 (YGCB)	10	28663	20.3	8	88.1	247.7	167.9
NK Brand N76-D3	6	29503	18.8	10	88.0	--	--
NK Brand N67-T4	6	26731	17.8	3	87.8	244.4	166.1
MFA MORCORN 3874CB	5	30387	18.2	5	87.5	--	--
NuTech NT-4616 YGCB	5	29360	18.7	11	87.2	255.1*	171.2
MFA MORCORN 4474CB	5	27537	22.0	36	87.1	--	--
Garst 8450IT	6	28905	21.9	1	86.9	--	--
Stine 9804 YGCB	9, 10	26645	20.9	3	86.9	--	--
DEKALB DKC60-16 (YGCB)	10	28136	15.9	1	86.2	265.3*	175.8
DEKALB DKC61-72 (RR2)	10	29398	16.3	0	86.2	--	--

TABLE 15. Continued.

Brand-Variety	Seed Treatment ⁺	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005 2004	2004 -----bu/acre-----	
Croplan Genetics 693CL/Bt	2, 5	25945	15.3	2	85.7	231.6	158.7
NK Brand N70-T9	6	28559	19.8	2	85.5	263.2*	174.4
Kruger 5416YGCB	3, 10	29212	19.9	1	85.5	--	--
Kruger 0617A	3, 10	23741	17.3	3	85.0	--	--
Kruger 5514YGCB	3, 10	30055	19.1	3	84.7	--	--
Kruger 0616	3, 10	29246	15.9	6	84.5	--	--
Wyffels W8603	2, 9, 10	24638	19.9	1	84.4	247.6	166.0
Dyna-Gro 57F87	10	23040	20.3	4	84.1	265.2*	174.7
Mersch. M-512C-1	4, 10	26232	20.3	9	83.8	--	--
Ag Source 7883	5	28241	19.5	4	83.4	--	--
Golden Harvest H-9493Bt	5	26846	18.1	9	83.4	257.5*	170.5
Mycogen 2J787	6	29798	21.5	0	81.8	251.7*	166.8
Dyna-Gro 57F95	10, 12	28922	18.2	34	81.1	--	--
Kruger 9115 YGCB	3, 10	28912	21.1	3	81.0	--	--
Golden Harvest H-9563Bt	5	27530	21.0	10	79.8	--	--
Garst 8380IT	6	28496	20.1	2	79.6	--	--
Dyna-Gro 57F37	10, 12	28322	20.9	7	79.4	--	--
Pioneer 33D11	3, 10	23311	19.8	2	78.8	--	--
Bio Gene CB1143	1, 4, 10	27964	23.0	6	78.8	--	--
Pioneer 33Y45	3, 10	29862	20.8	0	78.6	--	--
Stine 9703 YGCB	9, 10	26261	15.0	5	78.1	--	--
Kruger 0516	3, 10	26118	19.6	6	77.8	--	--
Lewis 7206	10	26684	18.2	2	75.9	--	--
DEKALB DKC63-62 (RR2)	10	29252	21.6	2	75.0	--	--
Wyffels W8720	2, 9, 10	27611	17.2	1	73.9	--	--
Dyna-Gro 57F19	10, 12	28170	20.4	6	73.3	244.9	159.1
Burrus 735R	4, 10	25338	19.0	9	71.7	--	--
Kruger 5617YGCB	3, 10	28044	23.2	3	71.1	--	--
Kruger 5616YGCB	3, 10	27179	22.0	0	71.1	--	--
Mersch. M-613B	9, 10	26136	18.0	3	71.0	--	--
LG 2625Bt	8, 9	28381	18.4	10	70.5	--	--
Garst 8292YG1	6	28721	23.7	1	70.2	254.1*	162.2
Garst 8350YG1	6	30325	21.3	5	70.0	268.8*	169.4
LG 2640Bt	8, 9	23923	18.6	1	68.6	--	--
Golden Harvest H-9657	5	24805	23.6	15	66.3	--	--
Midland MG 7A55	10	28014	23.9	4	57.4	--	--
TEST AVERAGE		27641	19.0	6	85.9	249.2	167.6
L.S.D. AT .10		2395	1.6	8	12.0	20.0	
C.V. %		6.3	5.9		9.8	5.7	

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

TABLE 16. Non-Irrigated Corn Test

Central Region: Truxton, MO (Montgomery County)

Soil Type: Mexico Silt Loam Soil Test: pH=6.2, OM=2.7%, P=168, K=428

European Corn Borer Rating: Damaged Plants= 4%, Tunnel Length/Plant= 0.06 in.

Rainfall: Apr.=3.2, May=1.7, June=3.0, July=1.1, Aug.=5.1 Total=14.1 in.

Brand-Variety	Seed Treatment ⁺	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005 2004	bu/acre	
Kruger 0614A	3, 10	29351	11.8	0	89.7**	--	--
NC+ 4971	1, 10	29233	10.9	0	89.5*	--	--
Croplan Genetics 693CL/Bt	2, 5	28163	11.2	1	88.2*	182.9	135.6
Kruger 9313YGCB	3, 10	30122	13.2	0	85.3*	--	--
Pioneer 33D11	3, 10	29727	14.0	1	84.7*	--	--
Lewis 5343	10	30423	13.6	1	84.1*	--	--
Dyna-Gro 57F95	10, 12	29547	15.1	1	83.0*	--	--
DEKALB DKC60-16 (YGCB)	10	28665	12.7	1	82.8*	180.0	131.4
Pioneer 33K39	3, 11	28858	17.3	0	82.7*	--	--
Dyna-Gro 57F70	10, 12	28802	15.3	1	81.9*	--	--
Pioneer 33A84	3, 11	29930	16.3	2	81.7*	155.8	118.8
MFA MORCORN 3974CB	5	28890	17.2	0	81.0*	--	--
LG 2540Bt	8, 9	29141	12.6	1	80.4*	157.6	119.0
Willcross 3103CB	10	26310	15.2	3	80.4*	163.7	122.1
Stine 111A YGCB	9, 10	28047	15.6	0	79.9*	--	--
DEKALB DKC61-72 (RR2)	10	29447	12.3	1	79.3*	--	--
Midland MG 7A53BT	10	29962	14.6	0	78.0*	185.7	131.9
NK Brand N65-C5	6	29329	15.3	1	77.9*	--	--
Vigoro V58Y41	6	28984	16.9	12	77.9*	199.0	138.5
Kruger 5416YGCB	3, 10	29967	13.8	1	77.8	--	--
Mycogen 2H789	6	30741	13.7	2	77.6	--	--
Wyffels W6613	10	29933	15.5	0	77.2	179.8	128.5
Mersch. M-612D-1	9, 10	30213	11.0	0	77.1	--	--
Wyffels W7260	10	29664	12.3	24	75.9	169.0	122.5
Croplan Genetics 691 BTLL	2, 5	28646	16.9	0	75.2	--	--
Kruger 0616	3, 10	29777	12.9	5	75.2	--	--
Willcross 3123CB	10	28970	13.3	0	75.0	--	--
Golden Harvest H-9166	5	30655	12.3	34	74.9	186.0	130.5
Kruger 5514YGCB	3, 10	29219	14.0	0	74.8	--	--
Stine 9804 YGCB	9, 10	29356	19.4	0	74.5	--	--
MFA MORCORN 3874CB	5	30527	13.3	1	74.3	--	--
DEKALB DKC63-79 (YGCB)	10	29675	17.9	3	74.1	163.7	118.9
Kruger 9212YGCB	3, 10	29966	14.4	1	73.8	--	--
Dyna-Gro 57F37	10, 12	30456	13.7	1	73.6	--	--
Kruger 0617A	3, 10	27328	13.6	5	73.4	--	--
ASGROW RX715RR2	10	29421	14.9	1	73.3	--	--
Bio Gene BT1152	1, 4, 10	29162	19.5	0	73.1	--	--
Burrus 646R	4, 10	28934	14.4	1	71.9	--	--
Mersch. M-512C-1	4, 10	27376	14.7	1	71.4	--	--
Garst 8566YG1	6	29390	10.9	10	70.8	--	--
NK Brand N76-D3	6	29315	15.1	0	70.7	--	--
LG 2625Bt	8, 9	29096	15.0	0	70.7	--	--
Pioneer 33N09	3, 11	28087	14.4	3	70.5	--	--
Burrus 795B	4, 10, 12	30642	15.8	5	70.1	191.8	131.0
NK Brand N67-T4	6	29022	12.7	0	69.9	165.6	117.8

TABLE 16. Continued.

Brand-Variety	Seed Treatment ⁺	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005	2004	
Golden Harvest H-9493Bt	5	28778	15.8	6	69.1	226.9*	148.0
NC+ 5381	1, 10	29824	13.7	54	68.1	--	--
Midland MG 7A58BT	10	28174	16.7	13	68.0	182.5	125.3
Wyffels W8720	2, 9, 10	29343	13.0	4	67.7	--	--
Ag Source 7883	5	29238	18.1	16	67.4	--	--
Mersch. M-613B	9, 10	28781	13.9	8	66.6	--	--
Kruger 5517YGCB	3, 10	30220	18.2	2	66.2	215.8*	141.0
Burrus 735R	4, 10	30249	13.3	3	65.9	--	--
Wyffels W8603	2, 9, 10	29685	17.0	15	65.8	197.1	131.5
Kruger 0516	3, 10	29373	14.2	7	65.7	--	--
Stine 9703 YGCB	9, 10	29135	13.0	6	65.4	--	--
Lewis 7206	10	28865	12.9	11	65.0	--	--
Mersch. M-314A-1	4, 10	28791	17.4	3	63.9	162.4	113.2
Garst 8292YG1	6	29490	21.1	0	63.8	165.9	114.9
NuTech NT-4616 YGCB	5	30344	17.6	4	63.6	202.6*	133.1
NK Brand N70-T9	6	29540	13.5	1	63.6	156.2	109.9
LG 2640Bt	8, 9	30091	17.1	0	63.4	--	--
DEKALB DKC63-62 (RR2)	10	30751	17.7	5	63.3	--	--
Garst 8380IT	6	28944	14.7	2	62.3	--	--
Golden Harvest H-9563Bt	5	30101	19.9	3	62.1	--	--
Dyna-Gro 57F87	10	28902	17.1	9	62.1	191.9	127.0
Lewis 7044YGCB	10	30752	16.5	2	61.8	198.5	130.2
Pioneer 33Y45	3, 10	28977	20.4	1	61.6	--	--
Kruger 9115 YGCB	3, 10	28312	16.5	0	61.6	--	--
Garst 8350YG1	6	28798	15.2	0	61.1	186.6	123.9
Dyna-Gro 57F19	10, 12	29192	16.8	0	60.0	168.8	114.4
Mycogen 2J787	6	29953	20.1	2	57.6	166.3	112.0
Garst 8450IT	6	29139	17.1	1	57.2	--	--
Kruger 5617YGCB	3, 10	30101	16.8	1	56.3	--	--
NuTech NT-4516 YGCB	10	29259	17.4	1	55.8	--	--
MFA MORCORN 4474CB	5	30384	20.5	2	52.9	--	--
Willcross 3193CB	10	29637	20.9	4	52.4	--	--
Kruger 5616YGCB	3, 10	29391	15.7	0	45.7	--	--
Golden Harvest H-9657	5	30088	20.6	4	41.5	--	--
Midland MG 7A55	10	30324	21.6	1	37.2	--	--
Bio Gene CB1143	1, 4, 10	28855	20.2	0	35.5	--	--
TEST AVERAGE		29386	15.5	4	69.8	177.2	123.5
L.S.D. AT .10		1276	2.1	8	11.8	34.9	
C.V. %		3.1	9.7		12.0	14.5	

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

TABLE 17. Non-Irrigated Corn Test

Central Region: Annada, MO (Pike County)

Soil Type: Tice Silt Loam Soil Test: pH=6.2, OM=2.2%, P=88, K=368

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

Rainfall: Apr.=2.3, May=0.5, June=3.5, July=1.7, Aug.=2.7 Total=10.7 in.

Brand-Variety	Seed Treatment ⁺	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005 2004	bu/acre	
NuTech NT-4516 YGCB	10	27831	19.1	0	175.2**	--	--
Burrus 795B	4, 10, 12	29350	19.9	1	174.6*	283.3*	229.0
Golden Harvest H-9563Bt	5	29003	18.6	0	172.2*	--	--
Lewis 7044YGCB	10	29672	20.2	2	171.1*	281.5*	226.3
Golden Harvest H-9493Bt	5	25719	22.0	1	169.2*	277.2*	223.2
Lewis 5343	10	29673	19.2	0	168.7*	--	--
Mersch. M-314A-1	4, 10	28361	19.5	1	168.3*	278.3*	223.3
DEKALB DKC63-79 (YGCB)	10	31570	19.9	0	167.6*	267.4	217.5
Garst 8350YG1	6	29189	18.8	0	166.0*	257.9	212.0
NK Brand N76-D3	6	28975	19.4	0	165.4*	--	--
Kruger 9212YGCB	3, 10	29282	15.2	0	165.0*	--	--
Pioneer 33D11	3, 10	28212	19.0	0	164.6*	--	--
DEKALB DKC61-72 (RR2)	10	29191	16.0	2	164.0*	--	--
LG 2540Bt	8, 9	28263	14.7	0	163.8*	249.7	206.8
Pioneer 33K39	3, 11	27879	20.3	0	163.7*	--	--
MFA MORCORN 4474CB	5	29141	20.0	0	163.5*	--	--
ASGROW RX715RR2	10	29221	17.5	0	163.5*	--	--
Pioneer 33Y45	3, 10	29278	21.4	0	163.3*	--	--
Pioneer 33A84	3, 11	29798	18.0	1	162.8*	270.7*	216.8
Dyna-Gro 57F37	10, 12	29172	18.3	0	161.6*	--	--
Midland MG 7A53BT	10	29172	15.6	0	161.6*	237.4	199.5
Dyna-Gro 57F87	10	28492	19.5	2	159.5	262.2	210.9
Ag Source 7883	5	29809	20.0	1	159.4	--	--
Dyna-Gro 57F70	10, 12	27288	16.7	1	159.2	--	--
Midland MG 7A58BT	10	28153	20.8	7	159.0	261.0	210.0
Dyna-Gro 57F19	10, 12	27722	15.4	0	158.8	246.1	202.5
Willcross 3103CB	10	27098	18.2	0	158.7	233.4	196.1
Croplan Genetics 691 BTLL	2, 5	29164	15.9	0	158.6	--	--
Pioneer 33N09	3, 11	29297	18.5	0	158.5	--	--
Willcross 3193CB	10	28266	19.7	0	158.3	--	--
Dyna-Gro 57F95	10, 12	28793	18.3	0	158.0	--	--
Garst 8380IT	6	29099	17.6	0	157.7	--	--
LG 2625Bt	8, 9	28229	17.0	2	157.2	--	--
Bio Gene BT1152	1, 4, 10	27357	21.9	0	157.0	--	--
NK Brand N70-T9	6	30241	16.7	0	156.9	272.5*	214.7
Croplan Genetics 693CL/Bt	2, 5	29279	17.7	0	156.6	249.2	202.9
NK Brand N65-C5	6	30570	15.5	2	156.4	--	--
NC+ 4971	1, 10	26462	13.7	0	156.0	--	--
Kruger 0616	3, 10	28158	16.3	0	155.9	--	--
NuTech NT-4616 YGCB	5	28131	20.3	0	154.6	288.6*	221.6
DEKALB DKC60-16 (YGCB)	10	28884	14.9	0	154.4	261.1	207.8
Mersch. M-612D-1	9, 10	27481	14.3	0	154.2	--	--
DEKALB DKC63-62 (RR2)	10	28504	17.7	0	153.1	--	--
Wyffels W8603	2, 9, 10	29347	18.7	1	152.9	279.1*	216.0
Willcross 3123CB	10	28760	16.3	0	152.3	--	--

TABLE 17. Continued.

Brand-Variety	Seed Treatment ⁺	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005	2004	
Kruger 0614A	3, 10	29071	14.1	0	151.9	--	--
Stine 111A YGCB	9, 10	27235	17.9	0	151.8	--	--
Kruger 5517YGCB	3, 10	28264	19.4	1	151.7	283.9*	217.8
Garst 8566YG1	6	29069	17.0	0	151.6	--	--
Mycogen 2H789	6	29947	18.6	0	151.6	--	--
Kruger 5416YGCB	3, 10	29069	17.1	0	151.5	--	--
Garst 8292YG1	6	27915	22.7	1	151.4	292.4**	221.9
Golden Harvest H-9166	5	30429	15.3	3	151.2	277.5*	214.4
Wyffels W8720	2, 9, 10	29740	19.6	0	151.1	--	--
Lewis 7206	10	29216	19.3	0	151.0	--	--
MFA MORCORN 3974CB	5	26747	18.3	0	150.7	--	--
NK Brand N67-T4	6	26979	15.5	1	150.5	235.0	192.8
Kruger 9115 YGCB	3, 10	28609	15.8	0	150.5	--	--
Bio Gene CB1143	1, 4, 10	29219	20.6	1	150.1	--	--
Garst 8450IT	6	29747	18.3	0	149.7	--	--
Stine 9804 YGCB	9, 10	27260	18.5	0	149.7	--	--
Kruger 9313YGCB	3, 10	30073	17.3	0	149.7	--	--
Mycogen 2J787	6	29837	20.3	0	149.3	271.7*	210.5
Wyffels W6613	10	27945	17.8	5	149.0	246.0	197.5
Wyffels W7260	10	28158	16.4	0	148.3	259.8	204.1
Mersch. M-512C-1	4, 10	28400	16.5	0	148.1	--	--
Golden Harvest H-9657	5	29959	21.7	1	147.8	--	--
Kruger 5514YGCB	3, 10	28865	15.2	0	147.8	--	--
MFA MORCORN 3874CB	5	29911	18.7	2	147.5	--	--
NC+ 5381	1, 10	31043	17.2	1	146.0	--	--
Burrus 646R	4, 10	28502	17.0	1	145.6	--	--
Vigoro V58Y41	6	29040	20.1	0	144.7	282.4*	213.6
Kruger 0516	3, 10	29767	19.8	0	143.3	--	--
Stine 9703 YGCB	9, 10	27178	16.8	0	142.2	--	--
LG 2640Bt	8, 9	28806	18.6	0	141.8	--	--
Mersch. M-613B	9, 10	29073	18.7	0	138.4	--	--
Kruger 0617A	3, 10	28815	15.2	0	137.7	--	--
Burrus 735R	4, 10	29921	17.1	0	134.3	--	--
Kruger 5617YGCB	3, 10	28937	17.9	0	134.2	--	--
Midland MG 7A55	10	29401	22.4	0	130.5	--	--
Kruger 5616YGCB	3, 10	28530	19.0	0	126.3	--	--
TEST AVERAGE		28805	18.1	1	154.7	257.3	206.0
L.S.D. AT .10		1852	2.1	2	15.1	24.5	
C.V. %		4.6	8.0		6.8	6.7	

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

TABLE 18. Performance Summary for Non-Irrigated Hybrids evaluated at Five Central Missouri locations (Henrietta, Marshall, Columbia, Truxton, Annada) during 2005.

<u>Henrietta</u> Planted: 04-20 Harvested: 09-22 Growing Season Rainfall: 28.9 in.	<u>Marshall</u> Planted: 05-10 Harvested: 10-03 Growing Season Rainfall: 17.7 in.	<u>Columbia</u> Planted: 04-01 Harvested: 08-30,31 Growing Season Rainfall: 18.5 in.
<u>Truxton</u> Planted: 04-25 Harvested: 09-60 Growing Season Rainfall: 14.1 in.	<u>Annada</u> Planted: 04-08 Harvested: 09-13 Growing Season Rainfall: 10.7 in.	

Brand-Hybrid	Yield (Bu/Acre)					Mean
	Henrietta	Marshall	Columbia	Truxton	Annada	
Non-Irrigated						
Lewis 5343	235.2*	197.1*	92.0	84.1*	168.7*	155.4**
NC+ 4971	225.8*	192.2*	95.7	89.5*	156.0	151.8*
Kruger 9313YGCB	233.5*	192.9*	90.5	85.3*	149.7	150.4*
Pioneer 33K39	231.5*	179.4	94.3	82.7*	163.7*	150.3*
LG 2540Bt	223.1*	191.6*	91.3	80.4*	163.8*	150.0*
DEKALB DKC61-72 (RR2)	223.9*	192.1*	86.2	79.3*	164.0*	149.1*
Kruger 5416YGCB	238.7*	186.9	85.5	77.8	151.5	148.1*
Dyna-Gro 57F37	220.3*	203.1**	79.4	73.6	161.6*	147.6*
DEKALB DKC63-79 (YGCB)	212.8	194.0*	88.1	74.1	167.6*	147.3*
Mersch. M-612D-1	213.1	202.6*	88.9	77.1	154.2	147.2*
Croplan Genetics 693CL/Bt	228.0*	176.5	85.7	88.2*	156.6	147.0*
Mycogen 2H789	224.8*	190.7*	89.9	77.6	151.6	146.9*
DEKALB DKC60-16 (YGCB)	221.6*	188.9*	86.2	82.8*	154.4	146.8*
Wyffels W7260	219.9*	193.0*	96.4	75.9	148.3	146.7*
Burrus 795B	204.5	194.2*	89.0	70.1	174.6*	146.5
Willcross 3123CB	239.9*	172.1	88.9	75.0	152.3	145.6
Mersch. M-512C-1	230.2*	193.2*	83.8	71.4	148.1	145.3
Stine 111A YGCB	211.8	184.9	96.7	79.9*	151.8	145.0
Croplan Genetics 691 BTLL	206.4	190.4*	94.4	75.2	158.6	145.0
Golden Harvest H-9166	221.2*	177.8	99.4*	74.9	151.2	144.9
Pioneer 33A84	207.5	160.6	111.1**	81.7*	162.8*	144.7
Garst 8292YG1	247.2**	190.9*	70.2	63.8	151.4	144.7
NK Brand N65-C5	212.0	186.6	89.5	77.9*	156.4	144.5
Garst 8566YG1	240.9*	168.4	90.5	70.8	151.6	144.4
Midland MG 7A53BT	189.9	192.6*	99.9*	78.0*	161.6*	144.4
Kruger 0614A	207.1	183.6	89.6	89.7**	151.9	144.4
NK Brand N76-D3	213.3	182.3	88.0	70.7	165.4*	143.9
Pioneer 33D11	201.8	189.4*	78.8	84.7*	164.6*	143.9
Pioneer 33N09	207.8	186.6	91.9	70.5	158.5	143.1
Lewis 7044YGCB	209.2	179.8	92.5	61.8	171.1*	142.9
Bio Gene BT1152	196.4	189.9*	94.4	73.1	157.0	142.2
NC+ 5381	217.5*	181.7	96.7	68.1	146.0	142.0
Mersch. M-314A-1	195.4	186.4	92.0	63.9	168.3*	141.2
Kruger 5514YGCB	195.4	201.5*	84.7	74.8	147.8	140.8
Burrus 646R	223.3*	173.2	89.1	71.9	145.6	140.6
Willcross 3103CB	177.2	191.6*	93.7	80.4*	158.7	140.3
Dyna-Gro 57F70	196.3	166.2	96.9	81.9*	159.2	140.1
Pioneer 33Y45	208.0	185.2	78.6	61.6	163.3*	139.3
DEKALB DKC63-62 (RR2)	227.6*	175.5	75.0	63.3	153.1	138.9
Midland MG 7A58BT	184.0	183.9	95.2	68.0	159.0	138.0
Ag Source 7883	201.7	177.8	83.4	67.4	159.4	137.9
Kruger 0616	178.2	194.6*	84.5	75.2	155.9	137.7
Wyffels W6613	186.0	172.0	102.7*	77.2	149.0	137.4
LG 2625Bt	190.7	197.8*	70.5	70.7	157.2	137.4
NK Brand N67-T4	205.7	172.2	87.8	69.9	150.5	137.2

Table 18. Continued.

Brand-Hybrid	Yield (Bu/Acre)					Mean
	Henrietta	Marshall	Columbia	Truxton	Annada	
Non-Irrigated						
Wyffels W8720	209.6	180.8	73.9	67.7	151.1	136.6
Vigoro V58Y41	172.2	190.8*	96.2	77.9*	144.7	136.4
Lewis 7206	206.6	182.6	75.9	65.0	151.0	136.2
Kruger 9212YGCB	186.9	165.8	89.3	73.8	165.0*	136.2
Dyna-Gro 57F95	179.5	177.8	81.1	83.0*	158.0	135.9
NuTech NT-4616 YGCB	185.6	187.5*	87.2	63.6	154.6	135.7
Garst 8380IT	195.2	180.6	79.6	62.3	157.7	135.1
Golden Harvest H-9563Bt	201.2	158.9	79.8	62.1	172.2*	134.8
Stine 9804 YGCB	196.9	166.2	86.9	74.5	149.7	134.8
Kruger 9115 YGCB	195.0	184.9	81.0	61.6	150.5	134.6
Dyna-Gro 57F19	204.6	174.0	73.3	60.0	158.8	134.1
Stine 9703 YGCB	221.3*	163.6	78.1	65.4	142.2	134.1
MFA MORCORN 3974CB	174.2	159.1	105.0*	81.0*	150.7	134.0
Kruger 5517YGCB	178.9	179.6	89.8	66.2	151.7	133.2
Mersch. M-613B	193.7	196.4*	71.0	66.6	138.4	133.2
LG 2640Bt	210.9	173.7	68.6	63.4	141.8	131.7
Wyffels W8603	165.3	189.7*	84.4	65.8	152.9	131.6
Golden Harvest H-9493Bt	151.7	183.2	83.4	69.1	169.2*	131.3
MFA MORCORN 4474CB	190.0	162.7	87.1	52.9	163.5*	131.2
MFA MORCORN 3874CB	181.9	162.5	87.5	74.3	147.5	130.7
NK Brand N70-T9	175.6	172.0	85.5	63.6	156.9	130.7
Kruger 0516	201.5	163.2	77.8	65.7	143.3	130.3
Kruger 0617A	177.9	176.7	85.0	73.4	137.7	130.1
NuTech NT-4516 YGCB	162.6	165.9	90.2	55.8	175.2**	129.9
Garst 8350YG1	182.4	168.4	70.0	61.1	166.0*	129.6
Dyna-Gro 57F87	152.9	187.6*	84.1	62.1	159.5	129.2
Kruger 5617YGCB	197.0	187.1	71.1	56.3	134.2	129.1
ASGROW RX715RR2	143.1	174.8	88.7	73.3	163.5*	128.7
Willcross 3193CB	171.9	152.4	104.9*	52.4	158.3	128.0
Garst 8450IT	174.9	168.2	86.9	57.2	149.7	127.4
Bio Gene CB1143	198.8	172.2	78.8	35.5	150.1	127.1
Mycogen 2J787	182.8	163.1	81.8	57.6	149.3	126.9
Kruger 5616YGCB	211.4	172.4	71.1	45.7	126.3	125.4
Burrus 735R	151.2	170.8	71.7	65.9	134.3	118.8
Golden Harvest H-9657	140.6	167.7	66.3	41.5	147.8	112.8
Midland MG 7A55	123.7	166.0	57.4	37.2	130.5	103.0
TEST AVERAGE	199.2	180.4	85.9	69.8	154.7	138.0
L.S.D. AT .10	33.5	15.7	12.0	11.8	15.1	8.6
C.V. %	12.1	6.1	9.8	12.0	6.8	9.4

** 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 19. Irrigated Corn Test

Central Region: Columbia, MO (Boone County)

Soil Type: Mexico Silt Loam Soil Test: pH=6.3, OM=1.4%, P=66, K=454

European Corn Borer Rating: Damaged Plants= 4%, Tunnel Length/Plant= 0.01 in.

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

Irrigation: 14.2 in.

Brand-Variety	Seed Treatment ⁺	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005	2004	
Croplan Genetics 691 BTLL	2, 5	33401	21.4	0	280.8**	--	--
Pioneer 31N28	10	35047	22.7	0	275.3*	227.0*	251.2
Midland MG 7A58BT	10	32711	22.1	2	273.1*	240.2*	256.7
Crow's 6620B	5, 7	32619	22.2	3	272.0*	--	--
NK Brand N76-D3	6	33005	22.7	1	270.2*	--	--
Golden Harvest H-9493Bt	5	33131	22.5	9	269.7*	224.9*	247.3
Crow's 4963B	5, 7	33635	21.5	0	269.4*	--	--
Garst 8380IT	6	33395	21.6	1	268.0*	--	--
Garst 8292YG1	6	29949	22.7	0	266.2*	214.7	240.5
Golden Harvest H-9166	5	34616	20.8	5	266.0*	209.8	237.9
DEKALB DKC66-21 (YGCB)	10	29599	22.2	0	264.6*	--	--
Rainbow 3105YGCB	9	34662	21.9	1	263.3*	231.8*	247.6
DEKALB DKC61-72 (RR2)	10	33428	20.5	0	261.9*	--	--
Pioneer 33Y45	3, 10	33796	22.6	3	261.3*	--	--
Font. High Cycle 7931YGCB	4, 10	25886	22.1	0	260.6*	--	--
Crow's X51131	5, 7	35185	21.2	0	259.5*	--	--
Font. High Cycle 7951YGCB	4, 10	32626	21.7	0	258.8*	--	--
Midland MG 7A53BT	10	35098	20.3	1	258.2*	196.7	227.5
Vigoro V58Y41	6	29908	22.5	7	256.5*	--	--
DEKALB DKC60-16 (YGCB)	10	33000	20.4	2	254.9*	222.6	238.8
Garst 8566YG1	6	33329	20.7	2	253.2*	--	--
DEKALB DKC63-62 (RR2)	10	34201	21.3	1	252.5	--	--
DEKALB DKC63-79 (YGCB)	10	33744	21.8	1	251.9	212.4	232.2
MFA MORCORN 3874CB	5	35160	20.5	4	251.3	--	--
Mycogen 2J787	6	37019	21.7	0	249.9	217.9	233.9
Pioneer 34A15	3, 11	35286	20.3	1	249.4	--	--
Golden Harvest H-9006Bt	5	32812	20.2	1	249.1	--	--
Golden Harvest H-9461	5	30336	22.4	12	248.1	217.4	232.8
Mycogen 2G830	6	32313	22.9	3	245.5	--	--
ASGROW RX715RR2	10	33722	20.3	0	244.2	--	--
Rainbow 3148YGCB	9	29804	22.2	0	239.9	180.4	210.2
Rainbow 3120YGCB	9	30637	20.4	0	238.8	210.3	224.6
Pioneer 33R78	3, 11	30981	21.2	0	236.1	--	--
Golden Harvest H-8920	5	32310	19.8	2	234.5	--	--
Midland MG 7A55	10	33278	23.0	2	230.4	--	--
MFA MORCORN 3974CB	5	32322	21.0	0	229.9	--	--
Croplan Genetics 693CL/Bt	2, 5	32781	19.7	0	229.4	216.2	222.8
Rainbow 3158YGCB	9	26739	23.0	0	227.1	231.3*	229.2
Vigoro V55CY2	2, 5, 7, 9	30585	21.5	2	227.0	--	--
TEST AVERAGE		32617	21.5	2	253.8	217.2	235.5
L.S.D. AT .10		2665	1.1	5	28.1	25.2	
C.V. %		5.6	3.6		8.0	8.4	

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

TABLE 20. Irrigated Corn Test

Central Region: Laddonia, MO (Audrain County)

Soil Type: Mexico Silt Loam Soil Test: pH=6.9, OM=2.3%, P=58, K=352

European Corn Borer Rating: Damaged Plants= 15%, Tunnel Length/Plant= 0.25 in.

Rainfall: Apr.=2.7, May=1.1, June=2.5, July=0.7, Aug.=6.0 Total=13.0 in.

Irrigation: 14.0 in.

Brand-Variety	Seed Treatment ⁺	2005			Yield		2 Yr. Mean
		Plant Population (no./acre)	Moisture (%)	Lodging (%)	2005 2004 -----bu/acre-----		
Midland MG 7A58BT	10	35432	22.0	0	245.6**	261.3**	253.5
NK Brand N76-D3	6	36103	22.3	2	245.1*	--	--
Croplan Genetics 691 BTLL	2, 5	34585	21.0	1	238.7*	--	--
Midland MG 7A53BT	10	34683	22.0	13	237.3*	215.3	226.3
ASGROW RX715RR2	10	35998	20.8	0	236.8*	--	--
DEKALB DKC66-21 (YGCB)	10	35887	20.9	0	236.4*	--	--
DEKALB DKC63-79 (YGCB)	10	35931	20.9	1	231.8*	214.3	223.1
DEKALB DKC60-16 (YGCB)	10	35725	20.5	0	230.1*	245.3*	237.7
Golden Harvest H-9493Bt	5	35172	22.5	0	229.7*	254.0*	241.9
DEKALB DKC61-72 (RR2)	10	35548	20.0	0	229.5*	--	--
Crow's 6620B	5, 7	34419	22.0	0	227.3	--	--
Pioneer 33Y45	3, 10	34457	22.0	1	227.2	--	--
Garst 8380IT	6	35423	21.5	1	227.1	--	--
Rainbow 3105YGCB	9	36007	22.5	3	225.8	256.1*	241.0
MFA MORCORN 3874CB	5	35272	20.3	1	223.9	--	--
Font. High Cycle 7951YGCB	4, 10	35698	21.5	0	223.2	--	--
Crow's X51131	5, 7	36749	20.6	0	222.8	--	--
Garst 8292YG1	6	35389	23.4	1	222.5	238.6	230.6
MFA MORCORN 3974CB	5	34713	21.6	1	220.6	--	--
Vigoro V58Y41	6	34398	22.5	0	220.2	--	--
Golden Harvest H-9006Bt	5	35497	20.0	0	220.0	--	--
DEKALB DKC63-62 (RR2)	10	36553	22.5	0	218.2	--	--
Pioneer 34A15	3, 11	35367	20.4	0	217.8	--	--
Golden Harvest H-9166	5	36133	21.3	0	217.1	223.0	220.1
Golden Harvest H-8920	5	34653	19.8	0	216.8	--	--
Golden Harvest H-9461	5	34773	21.9	4	216.3	211.9	214.1
Croplan Genetics 693CL/Bt	2, 5	36105	19.0	0	214.1	223.1	218.6
Rainbow 3120YGCB	9	35560	20.4	1	214.0	226.4	220.2
Rainbow 3158YGCB	9	33211	22.4	1	212.6	253.2*	232.9
Midland MG 7A55	10	35966	21.7	0	212.3	--	--
Pioneer 33R78	3, 11	34163	21.0	0	210.7	--	--
Crow's 4963B	5, 7	35733	21.1	0	210.7	--	--
Font. High Cycle 7931YGCB	4, 10	30260	21.7	0	209.6	--	--
Pioneer 31N28	10	35764	21.9	0	207.6	209.2	208.4
Garst 8566YG1	6	35095	20.1	0	206.1	--	--
Rainbow 3148YGCB	9	36168	22.9	1	203.5	213.7	208.6
Vigoro V55CY2	2, 5, 7, 9	36241	22.1	1	200.6	--	--
Mycogen 2J787	6	35180	21.3	0	193.8	227.6	210.7
Mycogen 2G830	6	32216	21.9	0	177.8	--	--
TEST AVERAGE		35185	21.4	1	220.0	232.2	226.1
L.S.D. AT .10		1731	0.9	NS	18.2	21.2	
C.V. %		3.5	3.2		5.6	6.5	

-- 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 21. Performance Summary for Irrigated Hybrids evaluated at Two Central Missouri locations (Columbia, Laddonia) during 2005.

Columbia
Planted: 03-31
Harvested: 09-09
Growing Season Rainfall: 18.5 in.
Irrigation: 14.2 in.

Laddonia
Planted: 03-30
Harvested: 08-30
Growing Season Rainfall: 13.0 in.
Irrigation: 14.0 in.

Brand-Hybrid	Yield (Bu/Acre)		Mean
	Columbia	Laddonia	
Irrigated			
Croplan Genetics 691 BTLL	280.8**	238.7*	259.7**
Midland MG 7A58BT	273.1*	245.6**	259.4*
NK Brand N76-D3	270.2*	245.1*	257.6*
DEKALB DKC66-21 (YGCB)	264.6*	236.4*	250.5*
Golden Harvest H-9493Bt	269.7*	229.7*	249.7*
Crow's 6620B	272.0*	227.3	249.6*
Midland MG 7A53BT	258.2*	237.3*	247.8*
Garst 8380IT	268.0*	227.1	247.6*
DEKALB DKC61-72 (RR2)	261.9*	229.5*	245.7*
Rainbow 3105YGCB	263.3*	225.8	244.5*
Garst 8292YG1	266.2*	222.5	244.4*
Pioneer 33Y45	261.3*	227.2	244.2*
DEKALB DKC60-16 (YGCB)	254.9*	230.1*	242.5
DEKALB DKC63-79 (YGCB)	251.9	231.8*	241.8
Golden Harvest H-9166	266.0*	217.1	241.6
Pioneer 31N28	275.3*	207.6	241.4
Crow's X51131	259.5*	222.8	241.2
Font. High Cycle 7951YGCB	258.8*	223.2	241.0
ASGROW RX715RR2	244.2	236.8*	240.5
Crow's 4963B	269.4*	210.7	240.0
Vigoro V58Y41	256.5*	220.2	238.3
MFA MORCORN 3874CB	251.3	223.9	237.6
DEKALB DKC63-62 (RR2)	252.5	218.2	235.3
Font. High Cycle 7931YGCB	260.6*	209.6	235.1
Golden Harvest H-9006Bt	249.1	220.0	234.6
Pioneer 34A15	249.4	217.8	233.6
Golden Harvest H-9461	248.1	216.3	232.2
Garst 8566YG1	253.2*	206.1	229.6
Rainbow 3120YGCB	238.8	214.0	226.4
Golden Harvest H-8920	234.5	216.8	225.6
MFA MORCORN 3974CB	229.9	220.6	225.2
Pioneer 33R78	236.1	210.7	223.4
Mycogen 2J787	249.9	193.8	221.8
Croplan Genetics 693CL/Bt	229.4	214.1	221.8
Rainbow 3148YGCB	239.9	203.5	221.7
Midland MG 7A55	230.4	212.3	221.3
Rainbow 3158YGCB	227.1	212.6	219.8
Vigoro V55CY2	227.0	200.6	213.8
Mycogen 2G830	245.5	177.8	211.6
TEST AVERAGE	253.8	220.0	236.9
L.S.D. AT .10	28.1	18.2	16.5
C.V. %	8.0	5.6	6.8

** 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.