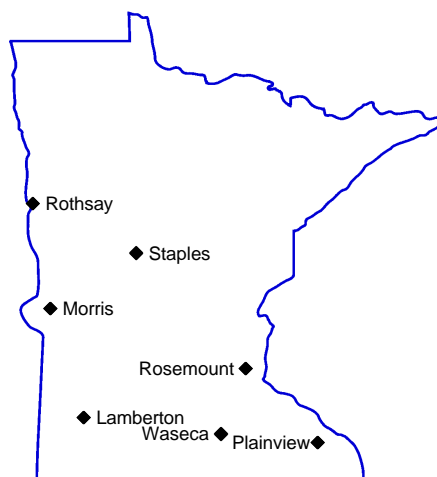


# **GRAIN CORN** **VARIETY TRIALS**

**Minnesota Agricultural Experiment Station — University of Minnesota  
December 1998**

This document reports the results of the annual performance evaluations of grain corn hybrids conducted by the Minnesota Agricultural Experiment Station. It was prepared by Craig C. Sheaffer (612-625-7224; <sheaf@tc.umn.edu>), Dale R. Hicks (612-625-1796; <hicks004@tc.umn.edu>), Thomas R. Hoverstad (<hover003@tc.umn.edu>), Douglas R. Swanson (612-625-7729; <swans030@tc.umn.edu>), and James L. Halgerson (612-625-8189; <halge001@tc.umn.edu>), Department of Agronomy and Plant Genetics, University of Minnesota, St. Paul, MN 55108.



***Locations where grain corn trials were conducted for this report.***

## **Testing Sites**

Trials were conducted at: Lamberton, Plainview and Waseca for southern zone performance; at Morris and Rosemount for central zone performance; and at Staples and Rothsay for northern zone performance.

### ***Southern Zone — Lamberton, Plainview and Waseca***

- Early maturity group: hybrids rated 107-day Relative Maturity (RM) and earlier.
- Late maturity group: hybrids rated 110 & 115 RM.

### ***Central Zone — Morris and Rosemount***

- Early maturity group: hybrids rated 95 RM and earlier.
- Late maturity group: hybrids rated 100 & 105 RM.

### ***Northern Zone — Staples and Rothsay***

- All entries 97 RM and earlier.

## **Testing Procedure**

Entries: Each corn seed company could enter up to six hybrids per zone. Entries in each trial were based on the Relative Maturity (RM) provided by the company. The University of Minnesota Corn Testing Committee could also choose and enter hybrids in each test, consequently, there may be more than six hybrids for a company in a test.

Trial plot planting and management considerations for each of the evaluation locations is listed in table 1.

## Using The Tables

Yields are given for individual locations; yields and harvest moisture contents are averaged across locations. Hybrids are ranked within a maturity group by moisture content.

The LSD (Least Significant Difference) values associated with the data in this report's tables are measures of variability within the trials. If a yield difference between two varieties within a single column exceeds that column's LSD value, you can assume that the higher yielding variety was truly better yielding. A 20 percent level of significance is used in all these tables. This means that yield differences exceeding the stated LSD value are real 80 percent of the time.

The best indication of performance next year comes from the performance shown in the multiple location yield column. Yields from individual locations are given, but more emphasis should be given to the multiple location yield data. Ranking of hybrids on the basis of yield from high to low may change from location to location. However, high-yielding hybrids at one location usually are high-yielding hybrids at another location and the multiple-location average is the best predictor of yield performance next year.

## Seed Certification

Seed of some untested corn varieties may be eligible for certification. The use of certified seed, however, does not imply recommendation. Table 7 lists the companies that participated in the 1998 hybrid corn silage trials, as well as seed sources included in the *Minnesota Registered and Certified Seed Directory for 1999 Planting* (available without charge from the Minnesota Crop Improvement Association, 1900 Hendon Avenue, St. Paul, MN 55108; 612-625-7766 or 800-510-6242).

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## Acknowledgements, Permissions and Caveats

Publication project chair is Leland L. Hardman, professor, Agronomy and Plant Genetics. Web product manager for extension communications is Larry A. Etkin, senior editor.

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**Table 1** — Individual Trial Information, 1998.

Fertilizer amounts expressed in pounds of N, P and K, respectively.

Location	Cooperators	Previous Crop	Planting Date	Harvest Dates	Tillage	Soil Tests			Fertilizer amounts	Fertilizer applied
						pH	P	K		
Lamberton	Steve Quiring Paul Porter	Soybean	April 24	Oct 1	Spring Field cult.	6.1	22	172	135+0+0	Fall
Waseca	Tom Hoverstad	Soybean	April 22	Oct 20-21	Chisel	6.9	23	171	160+0+0	Spring
Plainview	Bruce Ihrke	Soybean	April 24	Oct 22-23	Chisel	6.8	66	154	140+0+0	Spring
Morris	George Nelson	Wheat	April 29	Oct 13-14	Chisel	8.2	16	200	124+46+60	Fall
Rosemount	Jerry Holz	Soybean	April 30	Oct 30	Chisel	Not Available			125+0+0	Spring
Staples	Mel Wiens	Corn	May 7	Oct 12	Plow	Not Available			200+10+72	Spring
Rothsay	Troy Larson	Wheat	May 6	Oct 15	Chisel	Not Available			100+90+90	Fall

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**Table 2** — Early Maturity Hybrids, Southern Locations, 1998.

Source	Hybrid	Relative Maturity	Yield (bu/a)			Average Across Locations	
			Lamberton	Plainview	Waseca	Yield (bu/a)	Moisture (%)
<b><i>97 and earlier RM hybrids</i></b>							
Renze	6038	95	170	165	191	175	15.1
DeKalb	DK440	95	174	174	203	183	15.9
Wensman	MAX 007	93	190	157	189	179	16.1
DeKalb	DK449	95	191	202	195	196	16.4
Renk	RK552	95	171	190	164	175	16.5
Anderson	7525	95	189	171	185	182	16.5
KSC/Challenger	K-9896	95	209	184	199	197	16.5
Wensman	W 4146	95	154	153	198	168	16.5
LG Seeds	LG2442	95	167	170	201	180	17.0
Wensman	MAX 127	96	207	189	196	197	17.1
97 and earlier RM averages		—	182	176	192	183	16.4
<b><i>98 to 102 RM hybrids</i></b>							
Dahlman	1699	100	185	196	215	198	16.2
DeKalb	DK477	100	162	186	211	186	16.2
Anderson	6076	98	175	183	205	188	16.4
Sands	SOI9008	100	199	150	171	174	16.4
Renze	6078	100	188	183	199	190	16.5
NC+	1728	100	155	158	178	164	16.5
Viking	6870	99	175	158	193	175	16.5
Fontanelle	3997	100	182	178	211	190	16.5
Viking	6801	99	187	172	199	186	16.6
Sands	SOI9998	100	166	197	203	189	16.6
DeKalb	DK493Bt	100	208	183	203	198	16.6
Renze	X8099	100	157	164	185	169	16.6
Top Farm	TFSX2201	100	165	182	185	178	16.7
Mycogen	2500	100	177	146	169	164	16.7
Garst	8766	100	181	170	194	182	16.7
Garst	8707	100	176	190	226	197	16.7
Great Lakes	4526	100	166	170	198	178	16.7
Pioneer	37R71	99	184	177	184	182	16.8
Kruger	K-9902	100	192	189	211	197	16.8
Renk	RK599	100	173	143	193	170	16.8
Cargill	3677	100	197	188	196	194	17.1
Trelay	5004	98	184	215	213	204	17.2
Kruger	K-9802	100	181	161	202	181	17.2
Sands	SOI9027	100	187	158	201	182	17.2
Top Farm	TFSX2100	100	192	168	173	178	17.3
DeKalb	DK525	100	207	189	228	208	17.3
Stealth	1401	100	165	144	219	176	17.3
Mycogen	2545	101	185	188	190	188	17.3
NC+	2395	100	176	181	191	182	17.4
LG Seeds	LG2483	100	188	190	183	187	17.4
Sands	SOI9991	100	179	152	181	171	17.5
Kruger	EX 801	100	187	165	203	185	17.6
Trelay	5003	98	179	149	182	170	17.6
Pioneer	36F30	99	200	188	216	202	17.7
Cargill	4111	100	204	217	233	218	17.7

**Table 2 (continued)** — Early Maturity Hybrids, Southern Locations, 1998.

Source	Hybrid	Relative Maturity	Yield (bu/a)			Average Across Locations	
			Lamberton	Plainview	Waseca	Yield (bu/a)	Moisture (%)
<b>98 to 102 RM hybrids (continued)</b>							
Stealth	1402	100	173	168	184	175	17.7
Pioneer	36H36	100	207	200	210	206	17.8
Kruger	K-9803	100	202	128	182	170	17.9
Renk	RK681	102	161	159	175	165	17.9
Renk	RK611	101	177	179	190	182	17.9
Wensman	W 4237	100	199	161	184	181	18.1
Pioneer	36Y95	102	214	180	226	207	18.1
Wensman	MAX 88	100	194	176	205	192	18.3
Crows	200	102	190	176	238	202	18.3
Renze	8158 BT	100	204	187	226	206	19.6
LG Seeds	LG2499	100	179	183	208	190	19.8
98 to 102 RM averages		—	184	174	199	186	17.3
<b>103 to 105 RM hybrids</b>							
Dahlman	1720	105	175	158	185	173	16.0
Wilson	1098	105	178	172	197	182	16.0
Viking	5955	103	199	173	193	188	16.7
Renze	6167	105	188	139	208	178	16.9
Golden Harvest	H-2390	105	191	176	173	180	17.0
Golden Harvest	H-2382	105	189	173	189	184	17.1
Renk	RK691	105	171	178	187	179	17.2
DeKalb	DK512BY	105	189	188	208	195	17.2
North Star	7103	103	197	161	179	179	17.3
Dahlman	1702	105	184	162	182	176	17.4
DST	10408	104	154	197	198	183	17.4
Fontanelle	4286	105	172	158	192	174	17.5
Great Lakes	4848	105	180	163	225	190	17.6
Mycogen	2593	103	195	196	200	197	17.7
KSC/Challenger	EX806	105	169	193	161	174	17.8
Golden Harvest	H-2377	105	196	185	212	197	17.8
Asgrow	RX490	105	199	184	186	190	17.9
Renze	6208IP	105	202	188	208	199	18.0
Kruger	K-9807	105	175	192	215	194	18.1
Epley Brothers	EX 1500	105	188	182	207	192	18.1
Pioneer	35R57	104	198	193	223	205	18.2
KSC/Challenger	K-9806B	105	215	189	236	213	18.2
DeKalb	DK540	105	187	163	202	184	18.3
Fontanelle	4567	105	151	162	207	173	18.3
KSC/Challenger	K-9706	105	140	150	221	170	18.3
Top Farm	TFSX2103	105	198	201	205	201	18.4
Garst	8686	105	199	180	223	201	18.4
Kaltenberg	K5109	105	179	178	216	191	18.4
Garst	8640	105	158	181	226	188	18.4
Great Lakes	4758	105	163	162	177	167	18.5
DeKalb	DK545BY	105	197	157	215	190	18.5
Sands	SOI9067	105	181	187	203	190	18.5
Asgrow	RX530	105	176	175	213	188	18.6
Top Farm	TFSX2202	105	214	177	205	199	18.6
Asgrow	RX505Bt	105	203	149	249	200	18.8

**Table 2 (continued)** — Early Maturity Hybrids, Southern Locations, 1998.

Source	Hybrid	Relative Maturity	Yield (bu/a)			Average Across Locations	
			Lamberton	Plainview	Waseca	Yield (bu/a)	Moisture (%)
<b>103 to 105 RM hybrids (continued)</b>							
KSC/Challenger	EX805	105	163	172	215	183	18.9
Mycogen	2620	105	209	199	218	209	18.9
DeKalb	DK551	105	207	165	235	202	19.0
Terra	TR1047	104	176	197	245	206	19.0
Stealth	1108	105	192	179	168	180	19.1
Stealth	1505	105	167	185	237	196	19.2
Top Farm	TFSX2104	105	184	198	206	196	19.3
Trelay	7002	105	195	191	206	197	19.3
Wensman	W 4297	103	198	215	207	207	19.4
Stealth	1406	105	178	203	199	193	19.4
Trelay	6005	103	181	184	211	192	19.6
Brunner	S-5474	105	163	173	211	183	19.6
Renze	8248 BT	105	214	201	204	206	20.7
Kruger	EX 807	105	200	186	214	200	21.0
103 to 105 RM averages		—	185	179	206	190	18.3
Trial averages		—	184	177	202	188	17.6

**Table 3** — Late Maturity Hybrids, Southern Locations, 1998.

Source	Hybrid	Relative Maturity	Yield (bu/a)			Average Across Locations	
			Lamberton	Plainview	Waseca	Yield (bu/a)	Moisture (%)
<b>Later than 105 RM hybrids</b>							
Mycogen	2598	106	196	204	233	211	17.8
Asgrow	RX587	109	195	131	191	173	17.9
Cargill	5611	110	184	176	228	196	18.2
Golden Harvest	H-2478	110	182	189	220	197	18.3
Terra	TR1077IT	107	197	170	241	203	18.4
Jung	2656	106	180	161	239	193	18.5
Anderson	4028	106	200	162	227	196	18.5
Anderson	4000A	106	176	200	199	191	18.9
Asgrow	RX601	110	199	175	239	205	18.9
Pioneer	34G81	107	218	210	258	229	18.9
Renk	RK775	108	146	202	230	193	18.9
Terra	TR1066	106	124	168	233	175	19.0
Epley Brothers	EX 3242	110	134	158	225	172	19.3
Jung	2668	108	165	187	223	192	19.6
Kaltenberg	K6106	110	188	182	207	192	20.2
Cargill	6303	110	193	214	231	212	20.2
Kaltenberg	K6801	110	198	175	250	208	20.4
Cargill	5021BT	110	199	194	210	201	20.4
Terra	E1089IT	108	165	184	241	196	20.5
Jung	2706	111	204	146	249	199	20.6
Terra	TR1087	108	202	172	245	206	20.7
Terra	TR1107IT	107	196	147	209	184	21.2
Kaltenberg	K7101	115	189	188	228	202	21.7
AgriPro	AP9565	115	212	206	242	220	21.7
Later than 105 RM averages		—	185	179	229	198	19.5
LSD 20%		—	14	19	18	10	0.3

**Table 4** — Early Maturity Hybrids, Central Locations, 1998.

Source	Hybrid	Relative Maturity	Yield (bu/a)		Average Across Locations	
			Morris	Rosemount	Yield (bu/a)	Moisture (%)
<b><i>92 and earlier RM hybrids</i></b>						
DeKalb	DK405	90	157	204	181	16.1
Stealth	1289	90	198	198	198	16.2
Cargill	2610	90	174	181	178	16.7
Asgrow	RX355	90	183	175	179	16.9
Epley Brothers	EX 1122	92	186	186	186	17.1
Kaltenberg	K3904	90	197	226	212	17.3
Wensman	MAX80	91	176	208	192	17.7
Cargill	2777	90	197	213	205	17.7
Wensman	MAX78	90	179	212	195	17.8
Asgrow	RX352	90	147	175	161	17.9
Stealth	1292	90	161	180	171	18.5
Pioneer	38B22	92	160	169	165	18.8
Wensman	W 5108 Bt	90	198	204	201	19.0
Pioneer	38W36	83	194	192	193	19.2
Dahlman	1490	90	219	217	218	19.9
92 and earlier RM averages		—	182	196	189	17.8
<b><i>93 to 97 RM hybrids</i></b>						
DeKalb	DK431	95	185	217	201	16.5
North Star	7195	95	189	214	201	16.8
Dahlman	1599	95	189	206	198	17.1
Payco	457	95	218	200	209	17.1
Wensman	WX 306	94	204	211	208	17.1
Terra	E969	96	183	190	186	17.2
Trelay	4002	95	189	240	214	17.2
Mallard	UC-414	95	212	209	211	17.2
Brunner	S-4242	95	176	187	181	17.4
Kaltenberg	X486	95	205	199	202	17.5
Mycogen	2420	95	169	199	184	17.5
KSC/Challenger	K-9893	95	202	226	214	17.5
Kruger	K-9995	95	215	179	197	17.6
Anderson	7525	95	218	207	212	17.6
Renk	RK552	95	188	224	206	17.7
Jung	2430	93	167	204	186	17.9
Epley Bros.	EX 1140	95	177	209	193	17.9
Renk	RK546	95	205	234	220	17.9
Wensman	MAX 007	93	198	201	200	18.1
Payco (Garst)	468	95	196	222	209	18.3
Top Farm	TFSX2193	95	194	182	188	18.3
Renk	RK450	94	184	186	185	18.4
DeKalb	DK440	95	190	224	207	18.4
Top Farm	TFSX2196	95	181	184	182	18.4
DeKalb	DK449	95	189	207	198	18.5
Pioneer	38P05	94	199	217	208	18.6
Stealth	1297	95	224	221	222	18.7
Golden Harvest	H-2309	95	174	213	194	18.8
Garst	8830	95	210	212	211	18.9
LG Seeds	LG2473	95	202	201	202	18.9



**Table 4 (continued)** — Early Maturity Hybrids, Central Locations, 1998.

Source	Hybrid	Relative Maturity	Yield (bu/a)		Average Across Locations	
			Morris	Rosemount	Yield (bu/a)	Moisture (%)
<b>93 to 97 RM hybrids (continued)</b>						
LG Seeds	LG2442	95	160	204	182	19.0
Mycogen	2395	95	192	187	190	19.0
Trelay	4600	96	191	217	204	19.1
Kruger	K-9898	95	173	221	197	19.1
LG Seeds	LG2421	95	195	182	189	19.1
Terra	E968	96	189	198	193	19.2
KSC/Challenger	K-9896	95	199	234	216	19.4
Wensman	MAX 127	96	193	210	201	19.5
93 to 97 RM averages:		193	207	200	18.1	
<b>98 and later RM hybrids</b>						
Epley Bros.	EX 1160	98	191	243	217	17.7
Anderson	6076	98	177	234	205	18.8
Terra	E988IT	98	173	206	190	18.9
Trelay	5003	98	201	205	203	19.5
Pioneer	37R71	99	212	217	214	19.7
Jung	2488a	98	210	209	210	19.9
Pioneer	36F30	99	219	226	222	20.1
98 and later RM averages		—	197	220	209	19.2
Trial averages		—	191	206	198	18.2
LSD 20%		—	19	14	12	0.6

**Table 5** — Late Maturity Hybrids, Central Locations, 1998.

Source	Hybrid	Relative Maturity	Yield (bu/a)		Average Across Locations	
			Morris	Rosemount	Yield (bu/a)	Moisture (%)
<b><i>102 and earlier RM hybrids</i></b>						
Mallard	UC-585	100	201	224	213	17.2
Dahlman	1699	100	192	227	210	17.3
DeKalb	DK493Bt	100	226	214	220	17.6
Payco	607	100	179	220	199	17.9
Stealth	1496	100	192	229	210	17.9
Brunner	S-4709	100	191	182	187	18.1
Hyland	HL2507	100	217	226	221	18.5
Hyland	HL2505	100	179	222	201	18.5
DeKalb	DK477	100	189	220	205	18.6
Renk	RK599	100	192	195	193	18.6
Top Farm	TFSX2201	100	221	202	212	18.7
Mycogen	2500	100	197	186	192	18.7
Kaltenberg	K4809	100	188	217	202	18.8
Mallard	UC-595-A	100	205	253	229	18.9
Pioneer	36H36	100	215	203	209	18.9
Asgrow	RX456	100	189	197	193	18.9
Kruger	K-9902	100	194	213	203	18.9
Jung	2545	100	186	226	206	19.2
Top Farm	TFSX2101	100	219	212	216	19.3
Jung	2540	101	218	214	216	19.4
Cargill	3677	100	200	219	210	19.5
AgriPro	AP9300	100	211	197	204	19.6
Renk	RK611	101	192	196	194	19.6
Garst	8766	100	188	187	187	19.6
Golden Harvest	H-2315	100	187	191	189	19.8
Kruger	K-9802	100	206	199	202	19.8
Top Farm	TFSX2100	100	217	201	209	19.9
Hyland	HL2614	100	205	197	201	20.0
Cargill	4111	100	208	258	233	20.1
DST	10212	100	188	195	192	20.2
Asgrow	RX492	100	187	210	199	20.4
Stealth	1402	100	202	219	210	20.4
Hyland	HL2521	100	197	196	196	20.5
Kruger	EX 801	100	177	252	215	20.7
Mycogen	2545	101	216	216	216	20.8
Kruger	K-9803	100	179	236	207	20.9
KSC/Challenger	K-9501	100	163	230	197	21.5
Jung	2544	102	178	200	189	21.5
Hyland	HL2626	100	195	209	202	22.5
102 and earlier RM hybrid averages		—	197	213	205	19.4
<b><i>Later than 103 RM hybrids</i></b>						
Dahlman	1720	105	199	203	201	17.5
Golden Harvest	H-2382	105	192	214	203	19.4
Dahlman	1702	105	209	195	202	19.5
Epley Brothers	EX 1500	105	218	233	226	21.4
Terra	TR1047	104	210	236	223	21.9

**Table 5 (continued)** — Late Maturity Hybrids, Central Locations, 1998.

Source	Hybrid	Relative Maturity	Yield (bu/a)		Average Across Locations	
			Morris	Rosemount	Yield (bu/a)	Moisture (%)
<b>Later than 103 RM hybrids (continued)</b>						
AgriPro	AP9355Bt	105	250	252	251	22.1
KSC/Challenger	K-9904	105	222	218	220	22.1
KSC/Challenger	EX806	105	189	234	212	22.5
Golden Harvest	H-2377	105	183	196	189	23.0
KSC/Challenger	EX805	105	201	220	211	23.1
Kaltenberg	K5109	105	174	197	186	23.4
Terra	TR1066	106	217	195	206	24.1
Later than 103 RM hybrid averages		—	205	216	211	21.7
Trial averages		—	199	213	206	19.9
LSD 20%		—	18	17	12	0.6

**Table 6** — Northern Locations, 1998.

Source	Hybrid	Relative Maturity	— Yield (bu/a) —		Average Across Locations	
			Staples	Rothsay	Yield (bu/a)	Moisture (%)
<b><i>77 and earlier RM hybrids</i></b>						
Hyland	HL2161	75	149	128	139	17.7
Mycogen	1376	76	153	132	143	17.9
Brunner	B-1030	75	109	162	135	18.1
Hyland	HL2262	75	173	136	155	18.4
Hyland	HL2160	75	130	124	127	18.7
Stealth	1275	75	151	88	120	18.7
Hyland	HL2017	70	115	116	115	18.7
Kaltenberg	X201	75	112	124	118	18.8
Brown	X1821	77	132	142	137	18.8
77 and earlier RM hybrid averages		—	136	128	132	18.4
<b><i>78 to 82 RM hybrids</i></b>						
Wensman	W 5018 Bt	81	184	147	165	18.1
Cargill	1877	80	171	124	148	18.1
Stealth	1280	80	131	136	133	18.5
Payco	155	80	161	146	153	18.5
Hyland	HL2241	80	161	101	131	18.6
Pioneer	3941	82	157	104	131	18.7
Stealth	1480	80	168	136	152	18.7
Brunner	B-2098	80	178	107	142	18.8
Mycogen	2110	81	176	160	168	18.8
DeKalb	DK325	80	162	160	161	19.0
Jung	2178	78	113	111	112	19.1
Brunner	Exp-80	80	147	136	141	19.1
North Star	7180	80	158	103	130	19.1
Top Farm	TFSX2182	80	172	143	158	19.3
Brown	1967	82	140	142	141	19.3
Cargill	X1801	80	142	151	146	19.4
Trelay	1007	80	160	135	147	19.7
Kaltenberg	K2701	80	139	135	137	20.1
Pioneer	3963	79	138	162	150	20.2
Hyland	HL2202	80	129	159	144	20.6
Renk	RK221	82	162	178	170	20.9
Terra	E808	80	162	152	157	20.9
78 to 82 RM hybrid averages		—	155	138	146	19.2
<b><i>83 to 87 RM hybrids</i></b>						
DeKalb	DK355	85	160	123	141	17.6
DeKalb	DK345	85	160	131	145	17.8
Trelay	1003	83	140	126	133	18.0
DeKalb	DK365	85	176	128	152	18.5
Garst	N5966	87	171	173	172	18.7
Kaltenberg	K2609	85	175	110	142	18.7
Mallard	UC-382-B	85	188	110	149	19.1
Payco	237	83	136	170	153	19.2
Terra	E857	85	168	126	147	19.4
Top Farm	TFSX2187	85	140	114	127	19.8

**Table 6 (continued)** — Northern Locations, 1998.

Source	Hybrid	Relative Maturity	— Yield (bu/a) —		Average Across Locations	
			Staples	Rothsay	Yield (bu/a)	Moisture (%)
<b>83 to 87 RM hybrids (continued)</b>						
Top Farm	TFSX2184	85	162	169	165	19.8
Pioneer	3914	86	167	112	140	20.0
Stealth	1485	85	164	159	162	20.2
Dahlman	1300	85	175	165	170	20.3
Trelay	2006	86	153	174	164	20.4
Terra	E858	85	151	161	156	20.5
Renk	RK277	85	159	170	165	20.6
Wensman	W 5048 Bt	84	151	167	159	20.6
Golden Harvest	H-2226	85	151	91	121	20.6
LG Seeds	LG2378	85	167	186	176	20.6
Jung	2285	87	182	172	177	20.7
Wensman	W 5088 Bt	87	187	182	185	20.8
Wensman	MAX70	86	185	120	153	20.9
LG Seeds	LG2367	85	160	179	170	21.0
Hyland	HLX802	85	173	115	144	22.9
83 to 87 RM hybrid averages		—	164	145	155	19.9
<b>88 to 92 RM hybrids</b>						
Garst	8972IT	90	141	150	146	18.2
Renk	RK366	88	159	145	151	19.1
Cargill	2610	90	179	112	145	19.2
DeKalb	DK385B	90	159	144	152	19.8
Mycogen	2250	89	179	92	135	19.8
DeKalb	DK405	90	152	168	160	19.9
Pioneer	3905	89	167	170	169	19.9
Pioneer	38B22	92	159	86	122	20.1
Brown	2080	89	159	91	125	20.2
Dahlman	1488	90	158	128	143	20.4
Hyland	HL2309	90	160	163	162	20.5
Golden Harvest	H-2265	90	173	181	177	20.5
Mallard	UC-389-A	90	121	150	136	20.8
Top Farm	TFSX2191	90	139	172	155	20.8
North Star	7190	90	171	141	156	20.9
Wensman	MAX78	90	186	144	165	20.9
Hyland	HL2387	90	168	134	151	20.9
Cargill	2777	90	167	128	148	21.0
Trelay	3700	90	200	178	189	21.1
Stealth	1292	90	126	138	132	21.4
Hyland	HL2240	90	180	176	178	21.6
Pioneer	38R21	92	188	194	191	21.6
Terra	TR906	90	175	179	177	21.7
Dahlman	1490	90	161	147	154	22.2
Kaltenberg	K3904	90	145	184	164	22.4
88 to 92 RM hybrid averages		—	163	148	155	20.6
<b>93 and later RM hybrids</b>						
Stealth	1595	95	181	110	146	19.9
Renk	RK450	94	164	127	145	20.5
Terra	E958	95	152	111	131	21.3
Wensman	MAX 007	93	186	176	181	21.4
Crows	169	94	162	187	174	21.7

**Table 6 (continued)** — Northern Locations, 1998.

Source	Hybrid	Relative Maturity	Yield (bu/a)		Average Across Locations	
			Staples	Rothsay	Yield (bu/a)	Moisture (%)
<b>93 and later RM hybrids (continued)</b>						
Dahlman	1599	95	160	174	167	22.4
AgriPro	AP9195	95	172	145	158	22.5
Golden Harvest	H-2309	95	161	104	132	22.6
Mycogen	2395	95	177	189	180	22.6
93 and later RM hybrid averages		—	168	147	157	21.7
Trial averages		—	159	143	151	20.0
LSD 20 %		—	19	18	10	0.9

**Table 7** — Companies participated in the 1998 hybrid grain corn trials, and certified seed sources.

The listing of registered / certified sources is not to be construed as an offer for sale by grower, nor is it to be considered as public advertising or as a posting of public notice in any manner. Fields of registered / certified growers have, however, been sampled, tested and inspected by the MCIA. Contact the MCIA for further information, caveats, and considerations.

**Registered / certified seed (R = Registered; C = Certified)**

E570 Hybrid	Renville	Enestvedt Bros.	Sacred Heart	320-765-2728	C
E580 Hybrid	Renville	Enestvedt Bros.	Sacred Heart	320-765-2728	C
E605 Hybrid	Renville	Enestvedt Bros.	Sacred Heart	320-765-2728	C
E606 Hybrid	Renville	Enestvedt Bros.	Sacred Heart	320-765-2728	C
E650A Hybrid	Renville	Enestvedt Bros.	Sacred Heart	320-765-2728	C
E660A Hybrid	Renville	Enestvedt Bros.	Sacred Heart	320-765-2728	C
E670A Hybrid	Renville	Enestvedt Bros.	Sacred Heart	320-765-2728	C
E690 Hybrid	Renville	Enestvedt Bros.	Sacred Heart	320-765-2728	C
E800A Hybrid	Renville	Enestvedt Bros.	Sacred Heart	320-765-2728	C

**Participating Companies**

Agripro Seeds Inc. Box 250 Brookings SD 57006	Cargill Hybrid Seeds Box 5645 Minneapolis MN 55440
Albert Lea Seed House (Viking Hybrids) Box 127, 1414 West Main Albert Lea MN 56007	Crows Hybrid Corn Coompany Box 306 Milford IL 60953
Anderson Seeds Rt. 3, Box 94 St. Peter MN 56082	Dahlman Seed Company 73504-200th Street Dassel MN 55325
Asgrow Seed Company 2605 East Kilgore Road Kalamazoo MI 49001	Dairyland Seed Company, Inc. (Stealth, DST) Box 958 West Bend WI 53095
Brown Seed Farms Inc. N1279 530th Street Bay City WI 54723	DeKalb Genetics Corporation 3100 Sycamore Road DeKalb IL 60115
Brunner Seed Farm Rt. 1, Box 34 Durand WI 54736	Epley Bros. Hybrids, Inc. 22494 Yale Avenue Shell Rock IA 50670

**Table 7 (continued)** — Companies participated in the 1998 hybrid grain corn trials, and certified seed sources.

Fontanelle Hybrids Rt. 1, Box 18 Nickerson NE 68044	North Star Genetics Box 40 Wanamingo MN 55983
Garst Seed Company 3469 330th Street Box 500 Slater IA	Novartis Seeds (NK Brand) PO Box 959 Minneapolis MN 5540-0959
Great Lakes Hybrids 9915 W, M-21 Ovid MI 48866	Payco PO Box 338 West Fargo ND 58078
Hyland Seeds Blenheim, Ontario, Canada NOP 1A0	Pfister Hybrid Corn Company PO Box 187 El Paso IL 61738
J.C. Robinson Seed Company (Golden Harvest) 100 Robinson Boulevard Waterloo NE 69069	Pioneer Hi-Bred International, Inc. 130 Southeast Willmar Avenue Willmar MN 56201
Jung Farms Inc. 335 High Street Randolph WI 53957	Renk Seed Company 6800 Wilburn Road Sun Prairie WI 53590
Kaltenberg Seed Farms, Inc. 5506 Hwy 19 Waunakee WI 53597	Renze Hybrids, Inc. RR 3, Box 235 Carroll IA 51401
Kruger Seed Company Box A, Hwy 20 East Dike IA 50624	Sand Seed Service PO Box 648 4765 Hwy 143 Marcus IA 51035
KSC/Challenger Seed Company Box A, Hwy 20 East Dike IA 50624	Terra Industries Inc. 600 4th Street PO Box 6000 Sioux City IA 51102
L.G. Seeds Inc. 4001 North War Memorial Drive Peoria IL 61614	Top Farm Hybrids Box 850 Cokato MN 55321
Mallard Seed Company Inc. 311 West Broadway Plainview MN 55964	Trelay, Inc. RR 1 Livingston WI 53554
Mycogen Plant Sciences 720 St. Croix Street Prescott WI 54021	Wensman Seed Company PO Box 190 Wadena MN 56482
NC+ PO Box 4408 Lincoln NE 68504	Wilson Seeds, Inc. PO Box 391 Harlan IA 51537

## Corn Planting Rate and Date

Rate is based on normal seedbeds and on normal size, good quality seed. Rate used can vary greatly depending on seed cost, desired stand, expected mortality, emerging ability, seed weight, seed germination, seedbed condition, depth of planting and planting equipment. Weight given is the most widely accepted in the U.S.

Bushel Weight (pounds)	Seeds/pound (number)	Rate/acre (pounds)	Rate (seeds)	Planting Date
56	1,400	17	24,000/acre	Late April to Early May