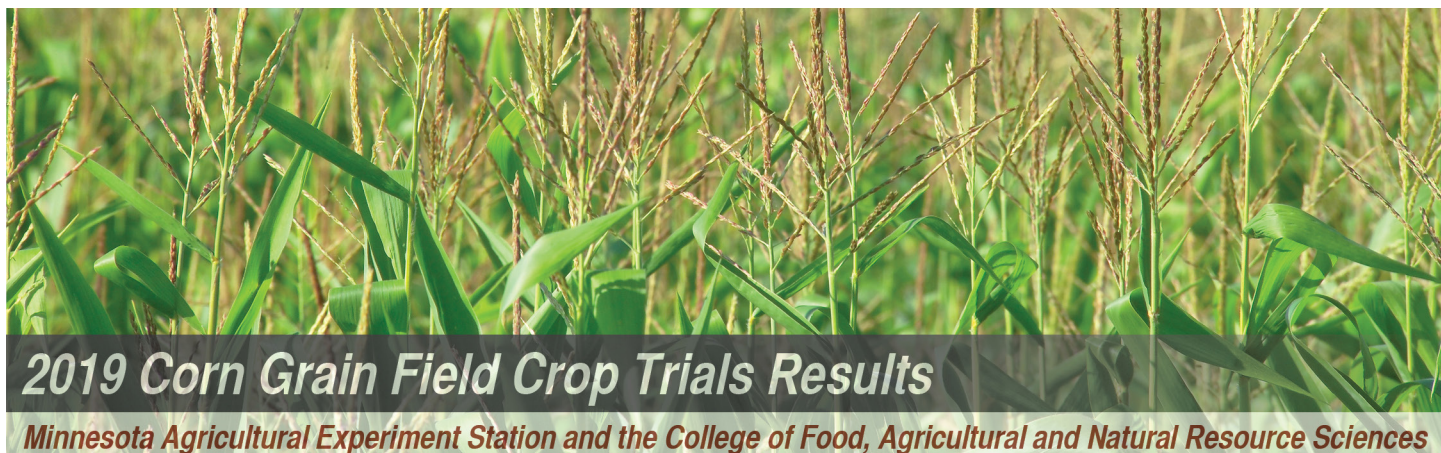




The Minnesota Corn Evaluation Program was conducted by the University of Minnesota Agricultural Experiment Station to provide unbiased information for use by corn growers when they choose which brand of corn to buy and grow. The program was financed in part by entry fees from private seed companies that chose to place their entries for testing.

Test Locations

Test zones, locations and maturities are as follows:

Southern Zone:

Lamberton, Rochester and Waseca
Early Maturity Trial - 102 Relative Maturity (RM) and earlier entries.
Late Maturity Trial - 103 RM and later entries.

Central Zone:

Hutchinson, Morris and Rosemount
Early Maturity Trial - 96 RM and earlier entries.
Late Maturity Trial - 97 RM and later entries.

Northern Zone:

Crookston, Rothsay and Staples

Testing Procedure

Entries: Seed corn companies choose their entries for each 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

entries in each test. All locations tested three replications for each entry.

Presentation of Data

Yields are given for individual locations along with yields and harvest moisture contents averaged across locations for 2019.

Reported yields are adjusted to 15.5% grain moisture. Entries are ranked within a maturity group by moisture content averaged across locations for 2019.

Identification of Traits

Genetic modifications of entries will be identified using generic terms to describe the trait without identifying the specific event for genetic modification.

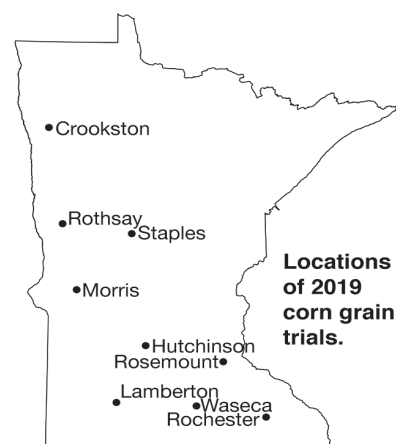
For example Bt will identify genetic modification for corn borer resistance but will not differentiate between the Bt 11 event, the YieldGuard corn borer event or the Herculex corn borer event.

Identifiers will be:

Bt = European corn borer resistance
 CRW = Corn rootworm resistance
 Gly = Glyphosate herbicide resistance
 LL = Liberty herbicide resistance

Least Significant Difference

The LSD (Least Significant Difference) figures at the bottom of the yield columns in the tables are statistical measures of variability in the trials. These values may be used to deter-



mine whether the difference between any two entries is likely to be a real difference or just natural variation.

If the yield difference between two entries is equal to or greater than the LSD, then one can be confident that the two entries probably differ in yield potential. We show LSD values with a 0.2 alpha level, which means that when two entries differ in yield by the LSD value or more one can be 80% confident that the two entries differ in yield potential. The higher-yielding one is the better entry from the yield standpoint. If the yield difference between two entries is less than the LSD, the two entries probably do not differ significantly in yield potential.

Authors and Researchers

Tom Hoverstad, Wade Ihlenfeld, Jeff Coulter, Curt Reese, Steve Quiring and Mark Hanson.

Table 1. Companies participating in the 2019 corn grain trials.

AgriGold Hybrids	5381 Akin Rd, St. Francisville, IL 62460	www.agrigold.com
Albert Lea Seed House (Viking Hybrids)	Box 127, 1414 W. Main St., Albert Lea, MN 56007	www.alseed.com
Anderson Seeds	37825 County Rd. 63, St. Peter, MN 56082	—
Blue River Hybrids	2326 230th St., Ames, IA 50014	—
Dairyland Seed Co., Inc.	Box 958, West Bend, WI 53095	www.dairylandseed.com
Dekalb (Bayer Co.)	505 150th Ave. SE, Kerkhoven, MN 56252	www.dekalb.com
Federal Hybrids	209 3rd St. NE, West Bend, IA 50597	www.federalhybrids.com
Legacy Seeds Inc.	PO Box 68, 290 Depot Street, Scandinavia, WI 54977	www.legacyseeds.com
Peterson Farms Seed	3104 164th Ave. S.E. , Harwood, ND 58092	www.petersonfarmsseed.com
Proseed	705 E Brewster St., Harvey, ND 58341	www.proseed.net
REA Hybrids	4745 6th Ave SE Aberdeen, SD 57401	www.rea-hybrids.com
Titan Pro	1301 S. 24th St., Clear Lake, IA 50428	www.titanprosci.com

Table 2. Individual trial information, 2019.

Location	Cooperators	Previous Crop	Planting Date	Harvest Date
Lamberton	Steve Quiring	Soybean	May 16	October 29
Rochester	Fritz Brietenbach	Soybean	May 14	October 31
Waseca	Tom Hoverstad	Soybean	May 7	November 1
Hutchinson	Paul Wright	Soybean	May 16	November 14
Morris	Curt Reese	Corn	May 15	October 30
Rosemount	Gerry Holz	Soybean	May 14	November 22
Crookston	Mark Hanson	Wheat	May 15	November 8
Rothsay	Troy Larson	Soybean	May 15	November 8
Staples	Ron Nelson	Soybean	May 10	November 19

Corn Grain**Planting Rate and Date**

Bushel Weight, Pounds.....56

Planting Rate, Seeds/Acre....35,000

Planting Date.....May 7-16

Table 3. Early maturity entries, southern locations, 2019.

Source	Entry	Traits	Relative Maturity	Yield, Bu/Acre at:			Average Across Locations	
				Lamberton	Rochester	Waseca	Bu/Acre	% Moisture
98 and Earlier RM Entries								
Anderson Seeds	7995	—	95	207	211	224	214	17.8
Blue River Organic Seed	38G54	—	96	201	218	227	215	18.0
Anderson Seeds	6898	—	98	212	221	230	221	18.3
Anderson Seeds	795R	GLY	95	236	229	231	232	18.4
Viking	52-96	—	96	244	226	229	233	18.8
Anderson Seeds	786VT2P	Bt, GLY	95	243	227	223	231	18.8
Anderson Seeds	6909	—	98	226	224	249	233	18.9
DEKALB	DKC47-54RIB	Bt, CRW, GLY, LL	97	206	225	242	225	18.9
Viking	44-98	—	98	242	225	243	237	19.0
Viking	O.98-98	—	98	222	220	228	223	19.4
Anderson Seeds	609R	GLY	98	217	221	246	228	19.5
Anderson Seeds	609VT2P	Bt, GLY	98	246	240	250	246	19.5
Anderson Seeds	745SRC	Bt, CRW, GLY, LL	97	227	217	216	220	19.5
Federal Hybrids	4800 CONV	—	98	216	219	241	225	19.6
Dairyland	DS-3810Q	Bt, CRW, GLY, LL	98	234	219	229	227	19.9
98 and Earlier RM Averages:				225	223	234	227	19.0
99 to 103 RM Entries								
Anderson Seeds	611VT2P	Bt, GLY	100	216	223	226	222	18.9
Federal Hybrids	4990 SSTAX	Bt, CRW, GLY, LL	99	224	214	210	216	18.9
AgriGold	A629-22STXRIB	Bt, CRW, GLY, LL	99	225	240	240	235	19.0
DEKALB	DKC50-08RIB	Bt, CRW, GLY, LL	100	234	240	247	241	19.1
Viking	99-00	—	100	231	225	239	231	19.2
Anderson Seeds	611R	GLY	100	206	196	223	209	19.2
Anderson Seeds	5303	—	103	232	226	233	230	19.3
Viking	52-00	—	100	219	241	221	227	19.4
Anderson Seeds	6811	—	100	222	234	224	227	19.5
AgriGold	A629-12VT2PRO	Bt, GLY	99	257	211	252	240	19.6
Titan Pro SCI	91-00	—	100	221	233	241	232	19.9
LEGACY SEEDS	L-5217 VT2P	Bt, GLY	103	250	245	263	253	19.9
Dairyland	DS-4018AM	Bt, GLY, LL	101	216	240	239	231	19.9
Titan Pro SCI	84-01	—	101	256	265	262	261	19.9
Anderson Seeds	611SRC	Bt, CRW, GLY, LL	100	198	211	215	208	20.0
DEKALB	DKC49-44RIB	Bt, CRW, GLY, LL	99	224	240	245	236	20.1
Titan Pro SCI	84-03 2P	Bt, GLY	103	267	239	253	253	20.1
Viking	O.46-02	—	102	235	267	250	251	20.3
Dairyland	DS-4310Q	Bt, CRW, GLY, LL	103	265	230	243	246	20.3
Titan Pro SCI	TP 40-03	—	103	259	245	247	251	20.6
AgriGold	A632-07STX	Bt, CRW, GLY, LL	102	244	195	254	231	20.6
Federal Hybrids	5280 SSTAX	Bt, CRW, GLY, LL	102	250	229	233	237	20.8
Viking	55-02	—	102	238	203	236	226	20.8
DEKALB	DKC52-34RIB	Bt, CRW, GLY, LL	101	200	232	247	226	21.0
Blue River Organic Seed	48G35	—	102	230	230	227	229	21.2
Anderson Seeds	6581	—	101	242	215	214	224	21.3
Titan Pro SCI	91-02	—	102	194	189	211	198	22.0
DEKALB	DKC53-27RIB	Bt, CRW, GLY, LL	103	205	181	238	208	22.8
99 to 103 RM Averages:				231	226	237	231	20.1
Southern Locations, Early Maturity Averages:				229	225	236	230	19.7
LSD (0.20)				21	14	14	9	0.5

Table 4. Late maturity entries, southern locations, 2019.

Source	Entry	Traits	Relative Maturity	Yield, Bu/Acre at:			Average Across Locations	
				Lamberton	Rochester	Waseca	Bu/Acre	% Moisture
104 to 105 RM Entries:								
Titan Pro SCI	82-04 2P	Bt, GLY	104	250	220	242	238	20.7
Federal Hybrids	5570 CONV	—	105	186	235	247	223	20.8
AgriGold	A634-93	—	104	207	248	236	231	21.0
Viking	84-05	—	105	172	247	230	217	21.0
Dairyland	DS-4318AM	Bt, GLY, LL	104	216	221	226	221	21.2
Dairyland	DS-4440AM	Bt, GLY, LL	104	238	242	239	240	21.4
Dairyland	DS-4580Q	Bt, CRW, GLY, LL	105	249	241	248	246	21.7
Anderson Seeds	5904	—	104	168	247	242	219	21.7
Viking	O.51-04	—	104	236	242	244	241	21.8
DEKALB	DKC54-38RIB	Bt, CRW, GLY, LL	104	238	215	220	224	21.8
LEGACY SEEDS	L-5519 DGV2P	Bt, GLY	105	230	223	235	229	21.9
AgriGold	A635-54VT2RIB	Bt, GLY	105	222	233	235	230	22.3
DEKALB	DKC54-64RIB	Bt, CRW, GLY, LL	105	250	231	258	246	22.4
DEKALB	DKC55-53RIB	Bt, CRW, GLY, LL	105	276	230	255	254	22.5
Dairyland	DS-4329AM	Bt, GLY, LL	105	243	234	242	240	22.6
Viking	42-05	—	105	223	212	235	223	22.9
Dairyland	DS-7004RA	Bt, GLY, LL	104	207	228	258	231	23.7
104 to 105 RM Averages:				224	232	241	232	21.8
Later Than 105 RM Entries:								
LEGACY SEEDS	L-6047 SSX	Bt, CRW, GLY, LL	106	209	205	247	220	21.4
Viking	O.18-06	—	106	274	242	238	251	21.5
Titan Pro SCI	96-06 2P	Bt, GLY	106	248	237	251	246	21.6
Titan Pro SCI	TP 70-06	—	106	222	216	240	226	22.7
AgriGold	A636-11STX	Bt, CRW, GLY, LL	106	202	221	225	216	22.8
Titan Pro SCI	91-07	—	107	192	220	230	214	23.1
DEKALB	DKC58-34RIB	Bt, CRW, GLY, LL	108	234	221	243	233	23.6
Viking	48-08	—	108	226	244	248	239	23.9
AgriGold	A638-74VT2RIB	Bt, GLY	108	163	241	241	215	24.5
Dairyland	DS-9508RA	Bt, CRW, GLY, LL	108	214	237	244	232	24.6
AgriGold	A638-84	—	108	197	200	224	207	24.7
Dairyland	DS-4840AM	Bt, GLY, LL	108	242	241	240	241	26.3
Titan Pro SCI	94-09 2P	Bt, GLY	109	228	248	250	242	27.6
Later than 105 RM Averages:				219	229	240	229	23.7
Southern Locations, Late Maturity Averages:				222	231	240	231	22.7
LSD (0.20)				21	15	17	10	0.5