

A793-20

North Dakota Corn Hybrid

Variety Trial Results for 2020 and Selection Guide

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This publication reports the results of corn hybrid trials that were conducted by NDSU research and Extension personnel throughout North Dakota. The hybrids tested were entered voluntarily by the companies that market them, and the management of these trials was financed partially by the entry fee those companies paid. Links to the participating companies are summarized in Table 1. Additional information and data for a given location may be available at www.ag.ndsu.edu/varietytrials/corn and www.ag.ndsu.edu/cornhybridtesting. When selecting a hybrid, look at its performance at multiple locations and/or across years if possible.

Corn Production and Weather in 2020

In 2020, the area of corn planted in North Dakota was 1.95 million acres, down substantially from the 3.5 million acres planted in 2019. The average yield for the state in 2020 was estimated at 145 bushels per acre, up from the 131 bushels per acre recorded in 2019.

Corn was planted later than normal due to cool spring conditions, with nearly half the acres planted after May 24. Growing degree accumulations, however, ran above average during the summer, so the crop developed well and finished earlier than normal and dried well in the field prior to harvest. An early frost in September impacted yield and test weight in a few areas of the state.

Experimental Procedures

Hybrids were planted in replicated plots in each location. Plot size, number of replications and experimental design varied by location. Information regarding planting and harvesting dates and other management practices is available from the researchers implementing the research. Grain yield was adjusted to 15.5% moisture.

Data Analysis

Data were analyzed using analyses of variance (ANOVA). Least significant differences (LSDs) at the 5% and 10% levels were calculated from these analyses and are placed at the bottom of each column of data. These LSD values apply only to the numbers in the column in which they appear. If the difference (for instance, for yield) between two varieties exceeds the LSD value, it means that with 95% or 90% confidence, the higher-yielding variety has a significant yield advantage. Conversely, when the difference between the means of two varieties is less than the LSD value, this indicates these varieties have no statistical difference between them. The coefficient of variation (CV), which also is placed at the bottom of each column, is a measure of the variability for that trait within the trial.

Hybrids are ranked in descending order for yield in each table. Carefully consider grain moisture at harvest in addition to yield. Comparing the yield of hybrids with similar moisture levels allows you to compare the yield of hybrids with similar relative maturities (RMs). The RMs listed in the tables have been provided by the company marketing these hybrids. In some cases, the industry-provided estimate of RM might not correspond precisely to the moisture levels obtained in trials reported in this publication.

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Table 1. Companies Participating in 2020 NDSU Corn Hybrid Trials.

<u>Company</u>	<u>Abbreviated</u>	<u>Website</u>
AgriGold	AgriGold	www.agrigold.com
Beck's Hybrids	Beck's	www.beckshybrids.com
Biogene Seeds	Biogene	www.biogeneseeds.com
Dahlman Seed	Dahlman	www.dahlmanseed.com
Dairyland Seed	Dairyland	www.dairylandseed.com
Dekalb	Dekalb	www.dekalb.com
DuPont Pioneer	Pioneer	www.pioneer.com
Dyna-Gro Seed	Dyna-Gro	www.dynagroseed.com
Golden Harvest	Golden H.	www.goldenharvestseeds.com
Hefty Seed	Hefty	www.heftyseed.com
Integra Fortified Seed	Integra	www.integraseed.com
Innictis Seed Solutions	Innictis	www.innictisseed.com
Latham Hi-Tech Seed	Latham	www.lathamseeds.com
Legacy Seeds	Legacy	www.legacyseeds.com
Legend Seeds	Legend	www.legendseeds.net
Peterson Farms Seed	Peterson	www.petersonfarmsseed.com
Proseed	Proseed	www.proseed.net
REA Hybrids	REA	www.rea-hybrids.com
Renegade Seed	Renegade	www.mkap.com/seed/renegade
Renk Seed	Renk	www.renkseed.com
Stine Seed	Stine	www.stinseed.com
Syngenta NK Brand	Syng NK	www.syngenta-us.com/corn/nk
Thunder Seed	Thunder	www.thunderseeds.com

Table 2. 2020 Corn - Average of Southern Locations (Ransom, Richland and Sargent Counties), Early Maturing Hybrids (≤94).

Authors, J. Ransom and D. Eisinger.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield				
			Moisture ²	Weight ²	Ransom	Richland	Sargent	Average ³	2-yr. Avg.
			(%)	(lb/bu)	------(bu/a)-----				
Dahlman	R45-25VT2PRIB	90	14.9	57.8	216	246	190	231	--
REA	3B903	90	14.1	57.9	229	233	200	230	--
Beck's	4292V2P	92	15.4	57.9	223	228	219	227	--
Proseed	1790VT2P	90	14.7	57.4	221	234	213	225	221
Beck's	XL Brand 4421AM	94	16.1	57.6	213	230	223	223	--
REA	3B891	89	14.0	58.1	208	236	168	222	214
Legacy	L-3419 VT2P	94	15.2	58.2	214	233	181	222	216
Proseed	2091VT2P	91	15.0	57.8	208	230	177	220	--
Integra	4311	93	15.2	58.7	209	232	201	220	--
Hefty	H4032	90	15.2	57.8	208	232	191	218	--
Hefty	H4322	93	15.8	58.6	207	227	191	217	211
REA	3B923	93	14.8	57.7	197	231	176	217	--
Hefty	H3632	86	13.8	58.3	209	222	167	214	--
Legacy	LC 441-20	94	15.0	57.2	202	220	178	214	--
Dahlman	R47-26VT2PRIB	94	15.1	58.3	208	216	190	213	211
Peterson	79N94	94	15.5	57.7	203	210	171	208	213
Mean			15.0	57.9	211	229	190	220	214
CV (%)			4.0	2.2	7	6	11	6	--
LSD 0.05			1.2	2.0	21	20	40	14	--
LSD 0.10			1.0	1.6	17	17	33	12	--

Planted: Ransom and Richland April 30, Sargent May 21. Harvested: Oct. 12.

¹Relative maturity as given by industry.

²Average of three locations.

³Average of Ransom and Richland locations only due to high variability at the Sargent location due to excessive moisture.

**Table 3. 2020 Corn - Average of Southern Locations (Ransom, Richland and Sargent Counties), Late Maturing Hybrids (≥ 95).
Authors, J. Ransom and D. Eisinger.**

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield				
			Moisture ² (%)	Weight ² (lb/bu)	Ransom	Richland	Sargent	Average ³	2-yr. Avg.
Dairyland	DS-3550AM	95	16.9	56.9	239	253	239	245	232
Dairyland	DS-4014Q	100	17.8	57.1	225	257	213	238	--
AgriGold	A625-78VT2RIB	95	15.3	57.5	224	240	216	235	--
Legacy	L-3517 VT2P	95	16.2	58.3	227	235	208	233	219
Dairyland	DS-3715AM	97	16.7	56.9	235	233	201	232	225
Hefty	H4732	97	16.6	57.8	219	244	214	232	222
Peterson	78B98	98	16.9	57.5	224	239	191	231	--
Legacy	L-4118 GENSS	98	16.3	58.5	216	244	223	230	221
Proseed	1996VT2P	96	15.7	58.0	221	235	224	229	--
REA	4B965	96	16.4	58.2	215	243	207	227	224
Dairyland	DS-3519AM	96	16.6	59.4	218	236	205	227	218
Dahlman	R49-23VT2PRIB	98	16.6	57.7	208	245	200	225	227
Beck's	4636V2P	96	16.0	58.3	218	226	217	223	--
Legacy	L-3718 DGVT2P	97	16.8	58.2	211	234	210	222	220
Dahlman	R49-25VT2PRIB	98	16.2	58.6	215	223	202	219	--
Dairyland	DS-3810Q	98	17.5	57.5	206	236	206	219	--
AgriGold	A626-08VT2PRO	96	15.7	57.4	213	219	225	218	--
Peterson	76Y96	96	15.9	57.8	200	235	232	217	--
Legacy	L-3617 VT2P	96	16.5	57.6	208	227	193	217	216
Proseed	1998VT2P	98	16.0	58.8	209	223	200	216	210
AgriGold	A628-16VT2RIB	98	17.6	57.2	208	221	199	215	--
Dekalb	DKC45-65	95	15.8	57.6	193	232	181	215	--
REA	5B984	98	15.8	57.1	201	227	228	214	213
Mean			16.4	57.8	210	232	210	225	221
CV (%)			4.0	2.2	13	13	5	6	--
LSD 0.05			1.2	2.0	21	20	40	14	--
LSD 0.10			1.0	1.6	17	17	33	12	--

Planted: Ransom and Richland April 30, Sargent May 21. Harvested: Oct. 12.

¹Relative maturity as given by industry.

²Average of three locations.

³Average of Ransom and Richland locations only due to high variability at the Sargent location due to excessive moisture.

**Table 4. 2020 Corn - Average of Central Locations (Cass, Steele and Traill Counties), Early Maturing Hybrids (≤87).
Authors, J. Ransom and D. Eisinger.**

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield				
			Moisture ²	Weight ²	Cass	Steele	Traill	Average	2-yr. Avg.
			(%)	(lb/bu)	------(bu/a)-----				
REA	2B851	85	16.8	56.9	248	215	162	209	--
Legacy	LC 351-20	85	18.9	55.9	224	192	162	193	--
Dekalb	DKC37-86	87	18.4	56.4	227	193	156	191	--
Legacy	L-2817 VT2P	85	18.7	56.9	225	193	153	191	193
REA	2B862	86	17.8	56.9	242	174	161	191	--
Peterson	74Z87	87	17.4	57.0	227	181	148	186	193
Peterson	73S84	84	17.7	57.4	235	159	160	184	194
Peterson	76Q86	86	18.5	56.6	215	176	160	184	195
Proseed	1787VT2P	87	17.8	56.9	219	184	143	184	190
Stine	9140-G	82	18.8	57.2	223	169	152	182	--
Integra	3718	87	19.3	56.8	219	174	152	181	182
Legacy	L-2314 VT2P	83	16.5	56.7	226	168	147	181	193
Integra	3629	86	18.0	57.1	215	174	151	180	188
Legacy	L-2347 VT2P	83	17.1	57.7	230	152	160	179	194
Pioneer	P83-52	83	17.6	56.6	214	178	139	176	--
Proseed	1984VT2P	84	18.2	57.4	220	159	145	174	190
Proseed	1882VT2P	82	16.8	57.3	204	165	144	171	--
Mean			17.9	56.9	224	177	153	185	191
CV (%)			8.8	2.6	5	13	13	10	--
LSD 0.05			1.8	1.3	18	34	27	19	--
LSD 0.10			1.5	1.1	15	28	22	16	--

Planted: Cass May 12, Traill and Steele May 19. Harvested: Cass Oct. 7, Traill, Oct. 6, Steele Oct. 9.

¹Relative maturity as given by industry.

²Average of three locations.

Table 5. 2020 Corn - Average of Central Locations (Cass, Steele and Traill Counties), Late Maturing Hybrids (≥88).

Authors, J. Ransom and D. Eisinger.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield				
			Moisture ²	Weight ²	Cass	Steele	Traill	Average	2-yr. Avg.
			(%)	(lb/bu)	------(bu/a)-----				
Dairyland	DS-3366Q	93	19.5	57.0	259	213	165	211	--
Dairyland	DS-3550AM	95	23.5	54.8	254	210	160	207	213
REA	3B903	90	19.8	56.4	250	212	154	205	--
Dairyland	DS-3193AM	91	20.0	56.1	239	198	166	202	--
Peterson	73K90	90	19.6	56.4	243	193	153	195	--
Legend	40J9192 VIP3110A	92	21.4	56.1	242	192	146	194	--
Dairyland	DS-3345AM	93	21.2	56.9	248	170	158	192	--
Legacy	L-2918 VT2P	89	19.7	56.6	239	187	149	191	196
Legacy	L-3048 VT2P	90	19.6	56.2	248	196	130	191	194
REA	3B891	89	18.7	56.7	234	169	164	190	--
Peterson	74J89	89	18.5	56.5	236	169	162	188	198
Dairyland	DS-3162Q	91	21.9	55.8	250	160	151	187	--
Proseed	2091VT2P	91	20.4	56.0	243	173	143	186	--
Legend	LR 9995 VIP3220EZR	95	21.5	56.1	241	165	152	185	--
Legacy	L-3017 VT2P	90	19.8	55.6	250	176	128	185	--
Legend	EXP 20-9267	92	21.2	55.6	237	154	148	181	--
Integra	4041	90	18.4	56.8	218	168	145	177	--
Legend	47J988 3120EZR	88	23.0	55.4	206	175	135	172	183
Mean			20.4	56.2	241	182	151	191	197
CV (%)			8.8	2.6	5	13	13	10	--
LSD 0.05			1.8	1.3	18	34	27	19	--
LSD 0.10			1.5	1.1	15	28	22	16	--

Planted: Cass May 12, Traill and Steele May 19. Harvested: Cass Oct. 7, Traill, Oct. 6, Steele Oct. 9.

¹Relative maturity as given by industry.²Average of three locations.

Table 6. 2020 Corn - Central Zone, Conventional and GMO Early Maturing Hybrids (≤ 87), Cass County.

Authors, J. Ransom and D. Eisinger.

Company/Brand	Hybrid ¹	RM	Grain	Test	Grain Yield	
			Moisture	Weight	2020	2-yr. Avg.
			(%)	(lb/bu)	----- (bu/a) -----	
REA	2B851	85	14.1	57.8	248	--
REA	2B862	86	15.4	57.4	242	--
Peterson	73S84	84	14.8	58.2	235	227
Syng NK	8005	80	17.2	57.6	235	--
REA	2C872	87	14.9	58.5	232	--
AgriGold	A615-06	85	16.9	57.3	231	--
Legacy	L-2347 VT2P	83	13.9	57.9	230	228
Peterson	74Z87	87	14.8	57.6	227	220
Dekalb	DKC37-86	87	14.5	57.1	227	--
Legacy	L-2314 VT2P	83	13.8	56.6	226	217
Legacy	L-2817 VT2P	85	14.8	57.5	225	213
Peterson	13A85	85	16.6	57.3	224	--
Legacy	LC 351-20	85	16.1	56.3	224	--
Stine	9140-G	82	16.6	57.4	223	--
Proseed	1984VT2P	84	14.4	58.0	220	216
Integra	3718	87	15.8	57.6	219	211
Proseed	1787VT2P	87	15.4	57.5	219	208
Integra	3629	86	14.6	57.3	215	214
Peterson	76Q86	86	15.8	56.6	215	211
Pioneer	P83-52	83	14.4	57.0	214	--
Proseed	1882VT2P	82	14.5	58.1	204	--
Mean			15.2	57.5	225	217
CV (%)			5.9	2.2	5	--
LSD 0.05			1.3	1.8	18	--
LSD 0.10			1.1	1.5	15	--

Planted: May 12. Harvested: Oct. 7

¹Conventional hybrids are indicated in bold.

Table 7. 2020 Corn - Central Zone, Conventional and GMO Late Maturing Hybrids (≥ 88), Cass County.

Authors, J. Ransom and D. Eisinger.

Company/Brand	Hybrid ¹	RM	Grain Moisture (%)	Test Weight (lb/bu)	Grain Yield	
					2020	2-yr. Avg.
					------(bu/a)-----	
Dairyland	DS-3366Q	93	17.6	57.6	259	--
Dairyland	DS-3550AM	95	19.9	55.3	254	242
Dairyland	DS-3162Q	91	18.6	56.4	250	--
Legacy	L-3017 VT2P	90	17.1	56.7	250	231
REA	3B903	90	15.9	57.0	250	--
Dairyland	DS-3345AM	93	17.7	56.8	248	--
Legacy	L-3048 VT2P	90	17.8	56.7	248	--
Renegade	R2-1695	95	20.0	56.3	244	--
Proseed	2091VT2P	91	17.4	57.0	243	--
Peterson	73K90	90	17.9	56.9	243	--
Legend	40J9192 VIP3110A	92	20.2	56.4	242	--
Legend	LR 9995 VIP3220EZR	95	20.3	56.6	241	--
Legacy	L-2918 VT2P	89	16.3	57.4	239	227
Dairyland	DS-3193AM	91	17.3	56.9	239	--
Legend	EXP 20-9267	92	18.8	56.5	237	--
Peterson	74J89	89	15.7	56.7	236	227
AgriGold	A622-65	92	18.8	57.0	235	--
REA	3B891	89	15.6	57.0	234	--
Renegade	R1-1592	92	17.9	56.8	233	225
Integra	4041	90	16.5	56.9	218	--
Legend	47J988 3120EZR	88	20.9	56.2	206	205
Mean			16.6	56.7	233	226
CV (%)			5.9	2.2	5	--
LSD 0.05			1.3	1.8	18	--
LSD 0.10			1.1	1.5	15	--

Planted: May 12. Harvested: Oct. 7

¹Conventional hybrids are indicated in bold.

Table 8. 2020 Corn - Average of Northern Locations (Grand Forks and Ramsey Counties), Early Maturing Hybrids (≤82).

Authors, J. Ransom and D. Eisinger.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield			
			Moisture ² (%)	Weight ² (lb/bu)	G. F.	Ramsey	Average	2-yr. Avg.
Biogene	BG512V2	81	14.3	57.3	220	169	194	--
Legacy	LC 311-20	81	14.4	57.2	216	160	188	--
REA	1B780	78	14.4	57.0	219	157	188	212
Biogene	BG510AT	81	15.6	57.9	225	146	185	--
Legend	EXP 20-8080	80	14.9	57.0	215	151	183	--
Peterson	71V81	81	14.3	58.3	218	142	180	209
Legacy	L-1818 VT2P	78	13.7	58.2	210	145	177	196
Integra	3009	80	13.6	58.4	207	146	176	199
Biogene	BG490V2	79	13.6	58.2	201	148	175	--
Legacy	L-2019 VT2P	80	13.6	57.6	200	145	173	192
REA	1B821	82	13.7	57.7	213	131	172	203
Stine	9140-G	82	15.6	57.3	215	124	170	197
Proseed	1980VT2P	80	13.7	57.3	192	145	169	197
Pioneer	P7940AM	79	14.0	58.8	184	151	167	--
Proseed	1974RR	74	13.5	59.1	190	141	165	--
Pioneer	P7417AM	74	13.4	57.9	181	142	162	--
Biogene	BG520V2	82	13.8	58.0	199	121	161	--
Proseed	2078GT	78	13.6	57.0	193	124	159	--
Integra	3282	82	13.8	57.2	195	121	158	191
Proseed	1882VT2P	82	14.0	58.3	200	112	156	179
Legend	LR 9176 GT	76	14.1	57.1	178	120	149	--
Mean			14.1	57.8	203	140	172	198
CV (%)			4.2	6.6	5	7	6	--
LSD 0.05			1.4	4.4	14	13	19	--
LSD 0.10			1.2	3.7	12	11	16	--

Planted: Grand Forks May 12, Ramsey May 16. Harvested: Grand Forks Oct. 13, Ramsey Oct. 9.

¹Relative maturity as given by industry.²Grain moisture and test weight are an average of Grand Forks and Ramsey county data.

Table 9. 2020 Corn - Average of Northern Locations (Grand Forks and Ramsey Counties), Late Maturing Hybrids (≥83).

Authors, J. Ransom and D. Eisinger.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield			
			Moisture ²	Weight ²	G. F.	Ramsey	Average	2-yr. Avg.
			(%)	(lb/bu)	------(bu/a)-----			
Legacy	LC 351-20	85	15.0	56.3	243	159	201	--
REA	2B862	86	15.5	57.1	232	158	195	210
Dairyland	DS-2350 RR	83	13.9	55.8	227	163	195	--
REA	2B851	85	14.4	57.5	231	158	194	--
Legacy	L-2347 VT2P	83	14.1	58.2	232	157	194	222
Legacy	L-2817 VT2P	85	14.9	57.5	224	161	193	212
Proseed	1984VT2P	84	14.6	58.1	225	152	189	214
Peterson	22T83	83	14.3	57.8	227	147	187	--
REA	2B861	86	15.6	57.2	225	147	186	216
Proseed	1787VT2P	87	14.9	57.6	214	159	186	--
Dairyland	DS-2505AM	85	15.0	57.9	222	138	180	--
Legacy	L-2314 VT2P	83	13.6	57.1	217	143	180	202
Legend	47J086 VIP3220EZR	86	17.8	57.8	208	148	178	--
Legend	47J9185 VIP3110	85	16.6	60.3	212	138	175	--
Mean			15.0	57.6	224	152	188	213
CV (%)			4.2	6.6	5	7	6	--
LSD 0.05			1.4	4.4	14	13	19	--
LSD 0.10			1.2	3.7	12	11	16	--

Planted: Grand Forks May 12, Ramsey May 16. Harvested: Grand Forks Oct. 13, Ramsey Oct. 9.

¹Relative maturity as given by industry.²Grain moisture and test weight are an average of Grand Forks and Ramsey county data.

Table 10. 2020 Corn - Dryland - Carrington - Authors, M. Ostlie, B. Schatz, T. Indergaard, M. Hafner and H. Burgard.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield
			Moisture	Weight	2020
			(%)	(lb/bu)	(bu/a)
Legacy	L-3048	90	14.8	52.6	134
REA	3B903	90	14.5	53.8	129
Dairyland	DS-3366AM	93	16.7	54.0	128
Dairyland	DS-3162Q	91	15.8	50.4	124
Dairyland	DS-3193AM	91	15.1	51.6	123
Latham	LH 4242	92	15.5	53.0	123
Peterson	22T83	83	14.5	54.4	120
Legacy	L-2817	85	14.4	54.2	116
Latham	LH 3937	89	13.8	52.2	116
Thunder	T6983	83	15.0	55.5	116
Proseed	1984VT2P	84	14.4	54.1	116
Legacy	L-2918	89	15.2	53.5	114
Thunder	T6888	88	14.1	51.8	113
REA	2B851	85	14.2	53.6	112
Integra	3431	84	14.8	55.0	112
Integra	3718	87	15.1	53.6	111
Latham	LH 3325	83	14.5	54.0	111
Dyna-Gro	D27VC87	87	14.6	54.2	110
Proseed	1787VT2P	87	14.4	54.4	110
Peterson	74Z87	87	14.1	53.4	106
Integra	3537	85	14.3	52.8	106
Latham	LH 3695	86	14.3	53.9	105
Peterson	73S84	84	14.5	54.6	104
Thunder	T6185	85	14.2	53.0	103
Thunder	T6085	85	14.4	54.4	102
Legacy	LC 351-20	85	13.9	52.5	102
Dyna-Gro	D26VC72	86	13.9	53.0	101
Dairyland	DS-3345AM	93	16.3	54.8	101
Thunder	T6987	87	14.5	54.4	98
Dyna-Gro	D22QZ42	82	15.9	55.5	95
Dyna-Gro	D21VC81	81	14.4	53.7	91
REA	1B821	82	14.1	52.9	91
Peterson	76Q86	86	13.3	53.1	84
Proseed	1882VT2P	82	14.9	55.3	82
Integra	3282	82	14.4	54.0	80
Dyna-Gro	D22VC62	82	15.4	54.0	76
Mean			14.6	53.7	107
CV %			4.3	1.7	10
LSD 0.05			0.9	1.3	16
LSD 0.10			0.7	1.1	13

Planted: May 12. Harvested: Oct. 12. Previous crop: barley.

¹Relative maturity as given by industry.

Table 11. 2020 Corn - Irrigated - Carrington - Authors, M. Ostlie, B. Schatz and T. Indergaard.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield
			Moisture	Weight	2020
			(%)	(lb/bu)	(bu/a)
Legacy	L-3048	90	14.9	53.8	162
Latham	LH 4375	93	14.5	55.9	158
Latham	LH 3937	89	14.5	54.3	155
REA	2B851	85	14.4	53.9	150
Thunder	T6888	88	14.5	53.9	150
Proseed	1984VT2P	84	14.6	55.8	148
REA	3B903	90	14.8	54.5	147
Dairyland	DS-3366AM	93	15.7	55.6	146
Dairyland	DS-3345AM	93	15.6	55.7	144
Thunder	T6190	90	14.9	54.2	144
Renk	RK278VT2P	87	14.7	55.9	143
Dairyland	DS-3193AM	91	14.5	53.9	142
Legacy	L-2817	85	14.5	55.9	141
REA	1B821	82	14.8	55.7	140
Dyna-Gro	D27VC87	87	15.0	55.8	140
Legacy	LC 351-20	85	14.1	53.6	139
Dairyland	DS-3162Q	91	14.9	52.7	138
Renk	RK287VT2P	87	14.2	53.4	137
Latham	LH 4242	92	16.4	54.2	136
Legacy	L-2918	89	15.5	54.6	136
Latham	LH 3695	86	14.8	56.1	134
Proseed	1787VT2P	87	14.8	55.8	134
Thunder	T6987	87	14.9	56.0	134
Dyna-Gro	D21VC81	81	14.5	55.3	131
REA	1B780	79	14.1	54.5	130
Thunder	T6085	85	14.3	56.2	127
Dyna-Gro	D26VC72	86	14.2	53.6	125
Dyna-Gro	D22QZ42	82	16.0	56.1	123
Renk	RK227VT2P	82	14.8	56.6	112
Dyna-Gro	D22VC62	82	14.7	54.9	108
Proseed	1882VT2P	82	14.8	56.7	106
Mean			14.8	55.0	138
CV %			3.2	1.4	10
LSD 0.05			0.7	1.1	19
LSD 0.10			0.6	0.9	16

Planted: May 12. Harvested: Oct. 14. Previous crop: field pea

¹Relative maturity as given by industry.

Table 12. 2020 Corn - Dryland - Conventional - Carrington - Authors, M. Ostlie, B. Schatz, T. Indergaard, M. Hafner and H. Burgard.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield	
			Moisture	Weight	2020	2-yr. Avg.
			(%)	(lb/bu)	------(bu/a)-----	
Proseed	1787 CONV	87	14.1	55.9	102	--
GM Check II ²		86	13.7	54.6	94	--
Proseed	1787VT2P	87	14.0	54.8	85	--
GM Check III ²		82	13.7	54.9	81	--
GM Check I ²		84	14.1	55.3	72	--
Proseed	1684 CONV	84	14.1	53.8	70	120
Peterson	13A85	85	13.7	56.1	68	--
Mean			13.9	55.1	82	120
CV %			4.0	1.1	15	--
LSD 0.05			NS	1.0	22	--
LSD 0.10			NS	0.9	18	--

Planted: May 12. Harvested: Oct. 12. Previous crop: barley.

¹Relative maturity as given by industry.

²Non-conventional checks with one or more biotech traits included for reference purposes.

Table 13. 2020 Corn - Hettinger - Authors, J. Rickertsen and M. Wells.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield	
			Moisture	Weight	2020	2-yr. Avg.
			(%)	(lb/bu)	------(bu/a)-----	
Proseed	1980	80	14.3	52.7	65	--
Proseed	1974	74	16.6	58.6	62	--
Proseed	1984	84	14.8	50.6	59	--
Integra	3431	84	15.5	49.7	54	--
Integra	3282	82	14.7	50.4	52	90
Proseed	1882	82	15.1	52.4	52	82
Integra	3537	85	16.1	48.3	48	91
Proseed	2078	78	12.8	48.3	46	--
Mean			15.4	51.1	54	88
CV %			10.0	2.8	11	--
LSD 0.05			1.5	1.4	5	--
LSD 0.10			1.3	1.2	4	--

Planted: May 18. Harvested: Oct. 7. Previous crop: wheat.

¹Relative maturity as given by industry.

Table 14. 2020 Corn - Fingal (Carrington REC) - Authors, M. Ostlie, B. Schatz and T. Indergaard.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield	
			Moisture	Weight	2020	2-yr. Avg.
			(%)	(lb/bu)	----- (bu/a) -----	
Renk	RK433VT2P	92	20.8	58.7	170	--
REA	3B912	91	18.9	58.2	167	--
Dairyland	DS-3519AM	95	20.5	59.8	165	172
Dairyland	DS-3550AM	95	21.8	56.0	165	177
Dyna-Gro	D32VC41	92	18.2	58.5	165	--
Legacy	L-3517	95	20.7	58.3	164	174
Latham	LH 3937	89	19.4	57.8	163	181
Integra	4119	91	17.9	58.3	163	174
Legacy	L-3617	96	24.0	57.2	163	172
Dairyland	DS-3366AM	93	19.0	60.9	161	--
Latham	LH 4242	92	21.2	58.4	160	169
Latham	LH 4517	95	20.3	57.9	160	161
Integra	3718	87	18.7	58.3	160	167
Renk	RK312VT2P	90	18.4	58.2	159	--
Proseed	1996VT2P	96	20.8	58.6	159	--
Latham	LH 4454	94	22.6	57.4	159	--
Proseed	1794VT2P	94	20.7	58.1	158	187
Legacy	L-3419	94	19.2	58.8	158	167
Renk	RK499VT2P	94	19.6	58.4	157	--
Dairyland	DS-3345AM	93	18.6	60.1	156	
Legacy	L-2918	89	18.6	58.9	154	170
Legacy	L-3017	90	18.7	58.0	151	166
Dairyland	DS-3715AM	95	19.7	55.5	149	172
REA	3B903	90	18.8	58.5	148	--
Proseed	1790VT2P	90	19.4	57.9	147	164
Peterson	73K90	90	18.2	58.8	145	--
Latham	LH 4375	93	18.5	59.3	144	157
REA	2B851	85	16.3	58.6	143	--
Peterson	74J89	89	18.0	58.4	143	161
Dyna-Gro	D35VC35	95	18.1	59.0	142	163
Renk	RK315VT2P	90	19.6	58.2	139	--
Dyna-Gro	D26VC72	86	16.4	58.8	137	--
Integra	4041	90	19.8	58.5	137	--
Latham	LH 3695	86	17.1	59.3	135	160
Dyna-Gro	D27VC87	87	17.3	59.5	132	150
Proseed	2091VT2P	91	18.6	58.5	132	--
Peterson	79N94	94	20.0	57.2	126	--
Mean			19.3	58.3	153	168
CV %			4.8	1.3	9	--
LSD 0.05			1.3	1.0	18	--
LSD 0.10			1.1	0.9	15	--

Planted: May 29 Harvested: Nov. 5. Previous crop: soybean.

¹Relative maturity as given by industry.

Table 15. 2020 Corn - Oakes (Carrington REC) - Authors, K. Cooper, H. Eslinger and S. Nelson.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield	
			Moisture	Weight	2020	2-yr. Avg.
			(%)	(lb/bu)	----- (bu/a) -----	
Renk	RK561DGV2P	95	21.7	53.2	238	--
Dairyland	DS-3366AM	93	18.6	56.0	234	--
Dairyland	DS-3715AM	95	21.6	52.1	232	--
Dairyland	DS-3519AM	95	19.6	56.6	228	232
Proseed	1996VT2P	96	22.1	53.4	227	--
REA	4B965	97	21.9	52.7	221	220
Thunder	T6996	96	22.6	53.3	216	--
Legacy	L-3517	95	22.3	53.5	214	212
Peterson	76Y96	96	21.3	54.0	212	--
Integra	4311	93	21.5	53.4	210	--
REA	3B912	91	16.7	55.9	203	212
Proseed	1790VT2P	90	19.9	53.6	202	212
Thunder	T6098	98	22.9	51.7	200	--
Peterson	78G95	95	22.7	51.8	198	197
Integra	4782	97	21.7	52.9	197	--
Proseed	1794VT2P	94	19.6	54.2	197	207
Legacy	L-3718	97	21.7	52.9	196	205
Thunder	T6094	94	19.2	54.9	194	--
REA	3B903	90	16.6	55.1	193	--
Renk	RK433VT2P	92	21.1	53.6	191	--
Legacy	L-4118	98	23.5	51.5	184	203
Peterson	79N94	94	20.2	52.8	182	--
Legacy	L3617	96	22.8	52.6	178	193
Proseed	2091VT2P	91	18.4	54.4	177	--
REA	3B923	92	19.8	53.5	173	198
Mean			20.8	53.6	204	208
CV %			6.5	1.6	11	--
LSD 0.05			1.9	1.2	32	--
LSD 0.10			1.6	1.0	27	--

Planted: May 18. Harvested: Oct. 15. Previous crop: soybean.

¹Relative maturity as given by industry.

Table 16. 2020 Corn - Irrigated - Oakes (Carrington REC) - Authors, K. Cooper, H. Eslinger and S. Nelson.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield	
			Moisture	Weight	2020	2-yr. Avg.
			(%)	(lb/bu)	------(bu/a)-----	
Dairyland	DS-3550AM	95	15.7	56.4	280	277
Legacy	L-4118	98	15.4	58.4	276	270
Dairyland	DS-3715AM	95	16.2	55.6	267	267
REA	4B976	97	15.7	57.4	265	--
Renk	RK561DGVT2P	95	16.5	57.3	264	--
Legacy	L-3718	97	16.3	57.9	263	260
Proseed	1996VT2P	96	15.7	58.3	261	--
Renk	RK499VT2P	94	14.3	57.5	258	--
REA	4B965	97	15.7	58.0	255	261
Peterson	76Y96	96	16.2	58.3	251	--
Proseed	1790VT2P	90	14.9	57.7	249	248
Integra	4782	97	15.2	57.7	248	--
Integra	4311	93	15.3	58.0	248	--
REA	5B984	98	16.1	56.8	244	255
Dairyland	DS-3366AM	93	14.1	58.2	243	--
Legacy	L-3517	95	15.9	58.1	242	253
Renk	RK433VT2P	92	15.3	57.9	238	--
Proseed	1794VT2P	94	15.7	57.0	238	243
Legacy	L-3617	96	15.7	58.2	238	245
Peterson	78G95	95	15.8	56.8	235	244
REA	4B975	97	15.4	58.0	235	249
Peterson	79N94	94	15.1	57.2	228	237
Proseed	2091VT2P	91	14.4	57.8	225	--
Mean			15.5	57.6	250	253
CV %			2.7	0.6	6	--
LSD 0.05			0.6	0.5	20	--
LSD 0.10			0.5	0.4	16	--

Planted: May 7. Harvested: Oct. 13. Previous crop: dry bean.

¹Relative maturity as given by industry.

Table 17. 2020 Corn - Langdon - Authors, B. Hanson and L. Henry.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield
			Moisture	Weight	2020
			(%)	(lb/bu)	(bu/a)
Pioneer	P7417AM	74	18.4	50.2	101
Legacy	L-1818 VT2P	78	20.7	50.5	99
Proseed	1974RR	74	20.3	53.2	98
REA	1B720	72	18.2	54.4	96
Pioneer	P7940AM	79	24.3	50.5	96
Peterson	22C74	74	20.8	53.2	96
Legacy	L-2019 RR2	78	23.1	49.4	95
Innvictis	A7988VT2P RIB	79	20.4	50.1	93
REA	1B750	75	22.2	52.4	90
Pioneer	P7632AM	76	22.4	48.8	89
Thunder	6181 VT2P	81	26.4	47.1	88
Integra	3009	79	22.9	49.8	88
Thunder	T6074 VT2P	74	21.5	52.6	87
Legacy	L-2019 VT2P	80	23.0	48.4	87
Dyna-Gro	D21VC81	81	26.2	47.5	86
REA	1B710	71	19.9	52.2	85
Proseed	1980VT2P	80	23.8	48.4	84
Legacy	LC311-20 VT2P	81	27.0	46.6	79
Dyna-Gro	D15VC77	77	20.4	52.7	78
Proseed	2078GT	78	19.9	45.8	78
Thunder	6079 VT2P	79	24.2	48.2	78
Pioneer	P7861AM	78	25.8	49.2	75
REA	1B780	79	28.4	45.5	75
Integra	2508	75	21.3	52.7	74
Thunder	T4072 RR	72	19.6	50.8	74
Innvictis	A7837VT2P RIB	78	25.3	48.7	72
Peterson	71V81	81	23.1	48.6	70
Mean			22.2	50.2	86
CV %			7.4	1.6	9
LSD 0.05			2.7	1.4	13
LSD 0.10			2.3	1.1	11

Planted: May 21. Harvested: Oct. 9.

¹Relative maturity as given by industry.

Yield and test weight reported at 15.5% moisture.

Corn was in late milk to early dent on Sept. 8, which recorded a freezing temperature of 28 F.

Table 18. 2020 Corn - Minot (North Central REC) - Authors, E. Eriksmoen, D. Howat and A. Kraklau.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield	
			Moisture	Weight	2020	2-yr. Avg.
			(%)	(lb/bu)	----- (bu/a) -----	
Proseed	1980 VT2P	80	14.0	55.2	130	111
Proseed	1984 VT2P	84	17.2	56.6	119	--
REA	1B780	79	15.2	55.1	119	115
Integra	3431 VT2P RIB	84	18.7	57.9	118	--
Dyna-Gro	D21VC81	81	14.9	54.8	115	--
Dyna-Gro	D22QZ42	82	15.3	55.6	114	110
Thunder	T6079 VT2P	79	13.9	54.7	114	107
Thunder	T6181 VT2P	81	15.6	55.6	113	--
Proseed	1882 VT2P	82	15.2	56.9	111	--
Golden H.	G78C29-3220 EZR	78	14.6	56.8	110	--
Thunder	T6074 VT2P	74	14.6	57.2	109	100
Syng NK	NK8005-3220A EZR	80	13.8	55.0	109	--
Syng NK	NK8519-3220 EZR	85	16.7	54.9	108	--
REA	2B851	85	13.7	52.9	107	--
Syng NK	NK8204-3220 EZR	82	18.0	57.3	104	--
Integra	3537 VT2P RIB	85	17.3	56.0	104	103
Peterson	71V81	81	14.3	54.6	103	101
REA	1B821	82	16.9	56.1	102	--
Integra	3009 VT2P RIB	79	13.5	54.7	102	103
Thunder	T6782 VT2P	82	16.3	57.5	100	97
Integra	3282 VT2P RIB	82	15.8	56.6	98	99
Syng NK	NK7837-3220 EZR	78	17.3	57.4	91	--
Thunder	T4072 RR	72	12.5	53.7	89	--
Proseed	2078 GT	78	13.9	54.0	87	--
Peterson	22C74	74	13.9	56.9	84	--
REA	1B750	75	14.2	55.5	83	--
Peterson	21N78	78	12.8	53.2	77	--
Mean			15.2	55.7	104	105
CV %			10.8	2.4	5	--
LSD 0.05			2.7	2.2	9	--
LSD 0.10			2.2	1.8	8	--

Planted: May 19. Harvested: Oct. 12.

¹Relative maturity as given by industry.

Table 19. 2020 Corn - Dryland - Williston - Authors, J. Bergman, G. Pradhan, C. Wahlstrom and M. Miller.

Company/Brand	Hybrid	RM ¹	Test Weight (lb/bu)	Grain Yield	
				2020	2-yr. Avg.
Proseed	1974	74	57.3	72	89
Integra	3009 VT2P RIB	79	54.5	59	77
Integra	3431 VT2P RIB	84	51.8	58	--
Proseed	1980 VT2P	80	53.2	56	76
REA	2B851	85	49.3	54	--
REA	1B750	75	54.8	48	--
REA	1B821	82	51.4	44	--
Proseed	2078 GT	78	51.4	43	--
Integra	3282 VT2P RIB	82	53.3	36	61
Proseed	1882 VT2P	82	54.2	35	--
Mean			53.1	51	76
CV %			1.7	18	--
LSD 0.05			1.3	13	--
LSD 0.10			1.1	11	--

Planted: May 21. Harvested: Oct. 7. Previous crop: soybean.

¹Relative maturity as given by industry.**Table 20. 2020 Corn - Irrigated - Williston - Authors, T. Tjelde, J. Jacobs and A. Turnquist.**

Company/Brand	Hybrid	RM ¹	Grain Moisture (%)	Test Weight (lb/bu)	Grain Yield	
					2020	2-yr. Avg.
REA	1B780	79	12.6	53.3	183	172
Integra	3718 VT2P RIB	87	14.1	53.7	183	169
Proseed	1974	74	12.9	56.9	143	152
Integra	3537 VT2P RIB	85	13.0	53.7	154	145
Integra	3282 VT2P RIB	82	12.7	54.0	137	135
Proseed	1980 VT2P	80	13.3	56.3	193	--
REA	2B851	85	12.8	53.8	182	--
REA	1B821	82	12.7	53.8	179	--
Integra	3431 VT2P RIB	84	13.0	54.5	172	--
Dyna-Gro	CX20181 VC / D21VC81	81	12.8	54.4	160	--
Dyna-Gro	D22QZ42	82	14.5	54.3	156	--
Dyna-Gro	D27VC87RIB	87	13.1	53.8	151	--
Proseed	1882 VT2P	82	12.7	55.2	138	--
Proseed	2078 GT	78	12.2	52.0	138	--
REA	1B750	75	12.5	56.4	127	--
Mean			13.0	54.4	160	155
CV %			3.2	1.4	13	--
LSD 0.05			0.6	1.1	33	--
LSD 0.10			0.5	0.9	28	--

Planted: May 14. Harvested: Nov. 4. Previous crop: winter wheat.

¹Relative maturity as given by industry.

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