

A793-21

North Dakota Corn Hybrid

Variety Trial Results for 2021 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 2021

In 2021, the area of corn planted in North Dakota was 4.1 million acres, up substantially from the 1.95 million acres planted in 2020. The average yield for the state in 2021 was estimated at 108 bushels per acre, down from the 145 bushels per acre recorded in 2020.

Corn was planted earlier than normal in many areas in 2021 due to the early spring warm up and lack of snow cover. While March and April were warm, May was cool, and June and July were unusually hot. Growing degree days accumulated quickly and a widespread and severe drought negatively impacted corn across the state. Many corn fields in central and south central North Dakota were baled for silage or abandoned. Fields in the eastern portion of the state that caught timely rains during pollination and grain fill produced surprisingly good yields given the severity of the drought. Fall was generally warm and dry, facilitating crop dry down and an early harvest for most corn producers. The first killing frost was later than normal, occurring between October 15 and 20 in most locations. Unlike the past two years, neither early frost nor wet conditions impacted corn harvest.

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 2021 NDSU Corn Hybrid Trials.

Company	Abbreviated	Website
AgriGold	AgriGold	www.agrigold.com
Biogene Seeds	Biogene	www.biogeneseeds.com
Champion	Champion	www.plantchampion.com
Channel/Bayer	Channel/Bayer	www.channel.com
Dahlman Seed	Dahlman	www.dahlmanseed.com
Dairyland Seed	Dairyland	www.dairylandseed.com
DenBesten Seed	DenBesten	www.dakotasbestseedllc.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
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. 2021 Corn - Average of Southern Locations (Ransom and Richland Counties), Early Maturing Hybrids (≤94).

Authors, C. Keene and D. Eisinger.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield			
			Moisture ²	Weight ²	Ransom	Richland	Average ³	2-yr. Avg.
			(%)	(lb/bu)	------(bu/a)-----			
Peterson	72Q94	94	18.3	58.0	132	229	182	--
Dairyland	3727AM	95	17.7	57.8	124	241	181	--
Z3 CHECK 1	Hefty H4402	94	17.4	56.8	138	223	181	--
AgriGold	A620-82VT2RIB	90	16.1	57.6	125	218	179	--
REA	4B958	95	17.4	57.7	126	231	178	--
Z3 CHECK 3	DKC 45-66 SS	95	19.1	56.7	135	226	177	--
Z3 CHECK 2	DKC 42-04 SS	92	18.7	57.3	144	208	177	--
Dairyland	3550AM	95	18.2	55.6	128	233	174	209
REA	4A944	94	17.9	57.5	132	214	174	--
Proseed	1794 VT2P	94	17.7	56.9	124	221	174	--
AgriGold	A625-78VT2RIB	95	16.5	57.7	129	221	173	204
Legacy	LC413-20	91	16.9	59.1	127	215	171	--
Hefty	H4132	91	15.8	58.3	121	219	169	--
REA	4B933	93	15.5	58.3	111	222	165	--
Legacy	LC-3517	95	18.2	58.1	119	206	164	199
Hefty	H3632	86	14.4	58.6	126	205	162	188
Hefty	H4032	90	15.6	57.1	104	203	153	185
Mean			17.1	57.6	126	220	173	197
CV (%)			6.8	2.0	8	5	7	--
LSD 0.05			2.5	1.5	16	18	16	--
LSD 0.10			2.1	1.2	13	15	14	--

Planted: Ransom Apr. 29, Richland May 3. Harvested: Oct. 4.

¹Relative maturity as given by industry.²Grain moisture and test weight are an average of Ransom, and Richland county data.³Combined yield means are calculated using statistical means that are adjusted based on location variability and may not reflect the numerical average.

**Table 3. 2021 Corn - Average of Southern Locations (Ransom and Richland Counties), Late Maturing Hybrids (≥95).
Authors, C. Keene and D. Eisinger.**

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield			
			Moisture ²	Weight ²	Ransom	Richland	Average ³	2-yr. Avg.
			(%)	(lb/bu)	------(bu/a)-----			
Dairyland	4014Q	100	20.6	55.7	148	245	197	218
Proseed	2196 VT2P	96	20.1	56.3	138	239	189	--
Dairyland	3959Q	99	20.3	55.9	147	230	189	--
Peterson	78P98	98	22.6	56.1	141	234	186	--
REA	4B965	96	17.6	58.1	137	238	186	207
Dahlman	R49-23VT2PRIB	98	17.7	56.5	134	230	181	203
REA	4B975	97	16.4	58.0	139	224	181	--
Dahlman	R49-25VT2PRIB	98	18.4	57.5	124	236	179	199
Hefty	H4732	97	19.5	57.9	125	231	179	205
Peterson	75T99	99	21.3	57.5	122	238	178	--
Legacy	LC461-21	96	18.3	59.3	141	213	178	--
Proseed	1998 VT2P	98	17.9	57.3	136	220	178	197
REA	4B976	97	18.6	57.3	129	228	177	--
Legacy	LC-3718	97	19.5	57.5	130	224	175	198
Legacy	LC-3617	96	16.7	57.9	127	222	174	196
AgriGold	A627-83VT2RIB	97	18.7	57.4	125	214	170	--
Proseed	1996 VT2P	96	17.7	58.0	120	220	170	199
Mean			18.9	57.3	133	229	180	201
CV (%)			6.8	2.0	8	5	7	--
LSD 0.05			2.5	1.5	16	18	16	--
LSD 0.10			2.1	1.2	13	15	14	--

Planted: Ransom Apr. 29, Richland May 3. Harvested: Oct. 4.

¹Relative maturity as given by industry.

²Grain moisture and test weight are an average of Ransom and Richland county data.

³Combined yield means are calculated using statistical means that are adjusted based on location variability and may not reflect the numerical average.

Table 4. 2021 Corn - Average of Central Locations (Cass, Steele and Traill Counties), Early Maturing Hybrids (≤87).

Authors, C. Keene and D. Eisinger.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield				
			Moisture ²	Weight ²	Cass	Steele	Traill	Average ³	2-yr. Avg.
			(%)	(lb/bu)	------(bu/a)-----				
Proseed	1787 VT2P	87	19.7	57.2	227	174	196	217	200
Legacy	LC-2817	86	20.1	57.6	239	160	209	212	197
REA	2B862	86	18.5	57.0	244	160	204	205	198
REA	2B863	86	18.7	57.0	239	157	204	204	--
REA	2B851	85	17.4	56.4	239	131	202	203	206
Peterson	73S84	84	17.9	58.2	244	173	192	203	193
Legacy	LC351-20	85	17.6	57.1	212	165	193	199	196
Peterson	75G85	85	17.4	56.8	215	156	208	198	--
Z2 CHECK 2	Thunder 6983	83	17.9	58.0	--	153	192	192	--
Mean			18.3	57.3	232	159	200	204	198
CV (%)			8.7	1.2	8	11	6	8	--
LSD 0.05			3.2	1.7	27	26	18	28	--
LSD 0.10			2.7	1.4	23	21	15	24	--

See footnotes below table 5.

Table 5. 2021 Corn - Average of Central Locations (Cass, Steele and Traill Counties), Late Maturing Hybrids (≥88).

Authors, C. Keene and D. Eisinger.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield				
			Moisture ²	Weight ²	Cass	Steele	Traill	Average ³	2-yr. Avg.
			(%)	(lb/bu)	------(bu/a)-----				
REA	3B912	91	19.4	56.4	248	184	221	227	--
Dairyland	3366AM	93	19.4	57.9	229	183	228	223	217
Legacy	LC-3017	90	20.1	57.1	270	177	237	221	203
Legacy	LC-3517	95	22.7	56.5	252	188	217	218	--
Dairyland	3550AM	95	21.0	55.2	270	177	232	218	213
Dairyland	3162Q	91	19.8	56.0	251	192	215	218	202
Dairyland	3193AM	91	18.8	56.8	255	188	225	216	209
Z2 CHECK 1	Croplan 2845	89	17.3	57.8	--	185	207	213	--
Dairyland	3022AM	90	18.8	57.0	276	187	212	213	--
Legacy	LC413-20	91	21.5	56.2	247	180	207	211	--
Peterson	72Q94	94	22.6	56.1	271	182	210	210	--
Proseed	1591 VT2P	91	19.9	57.0	239	178	208	210	--
REA	3B903	90	18.0	57.3	251	185	221	209	207
Legacy	LC-3048	90	18.9	57.1	252	179	211	201	196
Stine	9319-10	93	23.1	57.4	236	152	203	199	--
Peterson	73K90	90	20.4	56.5	238	180	190	194	195
Mean			20.3	56.7	252	181	215	212	203
CV (%)			8.7	1.2	8	11	6	8	--
LSD 0.05			3.2	1.7	27	26	18	28	--
LSD 0.10			2.7	1.4	23	21	15	24	--

Planted: Cass May 6, Steele Apr. 29, Traill Apr. 30. Harvested: Cass Sept. 30, Steele Oct. 12 and Traill Oct. 20.

¹Relative maturity as given by industry.²Grain moisture and test weight are an average of Cass, Steele and Traill county data.³Combined yield means are calculated using statistical means that are adjusted based on location variability and may not reflect the numerical average.

Table 6. 2021 Corn - Central Zone, Conventional and GMO Early Maturing Hybrids (≤ 87), Cass County.

Authors, C. Keene and D. Eisinger.

Company/Brand	Hybrid ¹	RM	Grain	Test	Grain Yield	
			Moisture	Weight	2021	2-yr. Avg.
					------(bu/a)-----	
			(%)	(lb/bu)		
REA	2B862	86	16.3	57.2	244	198
Peterson	73S84	84	15.5	59.1	244	193
REA	2B863	86	15.8	58.1	239	--
Legacy	LC-2817	86	15.1	58.0	239	196
REA	2B851	85	14.8	59.1	239	206
Peterson	16S86	86	15.5	58.5	238	--
Proseed	1787 VT2P	87	15.1	57.9	227	200
AgriGold	A615-35	85	16.2	58.1	220	225
Peterson	75G85	85	15.1	58.3	215	--
Legacy	LC351-20	85	16.4	58.2	212	197
DenBesten	31-80	80	15.1	62.0	197	---
DenBesten	31-83	83	18.5	59.8	190	--
DenBesten	41-87-OR	87	18.7	57.7	181	--
DenBesten	41-83-OR	83	14.0	60.5	175	--
Mean			15.9	58.6	220	202
CV (%)			7.6	1.8	8	--
LSD 0.05			1.8	1.4	27	--
LSD 0.10			1.5	1.2	23	--

Planted: May 6. Harvested: Sept. 30.

¹Conventional hybrids are indicated in bold.

Table 7. 2021 Corn - Central Zone, Conventional and GMO Late Maturing Hybrids (≥ 88), Cass County.

Authors, C. Keene and D. Eisinger.

Company/Brand	Hybrid ¹	RM	Grain	Test	Grain Yield	
			Moisture	Weight	2021	2-yr. Avg.
			(%)	(lb/bu)	------(bu/a)-----	
Dairyland	3022AM	90	17.9	57.5	276	--
Peterson	72Q94	94	20.2	56.6	271	--
Legacy	LC-3017	90	18.7	57.9	270	203
Dairyland	3550AM	95	18.0	55.3	270	213
Renegade	R1-2197	97	20.4	55.7	269	--
AgriGold	A622-65	92	19.0	56.4	263	249
Peterson	19L95	95	18.2	57.0	258	--
Dairyland	3193AM	91	16.2	58.2	255	209
Renegade	R1-1592	92	17.8	56.4	255	244
Legacy	LC-3517	95	21.7	57.0	252	--
Legacy	LC-3048	90	16.4	58.1	252	196
Dairyland	3162Q	91	18.3	56.5	251	202
REA	3B903	90	15.2	58.9	251	207
REA	3B912	91	15.6	57.5	248	--
Legacy	LC413-20	91	19.5	55.6	247	--
Proseed	1591 VT2P	91	17.9	57.0	239	--
Peterson	73K90	90	16.8	57.9	238	195
Stine	9319-10	93	21.0	57.5	236	--
Dairyland	3366AM	93	16.9	58.9	229	217
Mean			18.2	57.1	253	213
CV (%)			7.6	1.8	8	--
LSD 0.05			1.8	1.4	27	--
LSD 0.10			1.5	1.2	23	--

Planted: May 6. Harvested: Sept. 30.

¹Conventional hybrids are indicated in bold.

**Table 8. 2021 Corn - Average of Northern Locations (Grand Forks, Marshall and Ramsey Counties), Early Maturing Hybrids (≤82).
Authors, C. Keene and D. Eisinger.**

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield				
			Moisture ² (%)	Weight ² (lb/bu)	G. F.	Marshall	Ramsey	Average ³	2-yr. Avg.
REA	1B821	82	20.5	57.1	227	215	233	226	199
Dahlman	R41-23VT2PRIB	82	20.6	57.1	223	211	231	224	--
Biogene	BG512V2	81	20.6	57.1	230	200	220	218	206
Peterson	70D80	80	21.6	56.6	222	202	231	217	--
Legacy	LC304-21	80	22.6	56.0	223	218	200	216	--
Legacy	LC311-20	81	20.9	56.8	225	208	215	216	202
Peterson	71V81	81	21.3	57.4	233	213	196	214	197
Biogene	BG520V2	82	22.1	58.0	224	217	192	210	185
Peterson	77P79	79	18.9	57.7	219	201	207	210	--
REA	1B771	77	19.0	56.9	214	202	214	210	--
Stine	EX81-20	81	24.0	55.6	217	209	203	209	--
Biogene	BG510AT	81	24.6	55.2	201	210	210	207	196
Dahlman	R41-22VT2PRIB	82	21.9	58.2	219	208	196	206	--
Proseed	1882 VT2P	82	22.1	58.1	219	207	182	202	179
Pioneer	P7861AM	78	18.3	58.2	189	201	200	196	--
Legacy	LC295-21	77	19.5	60.9	199	189	194	194	--
Integra	3009VT2	80	20.6	58.3	176	178	196	181	--
Biogene	BG490V2	79	20.2	58.2	177	177	184	180	177
Stine	9003-G	77	19.3	60.6	177	179	164	174	--
Mean			21.0	57.6	211	202	204	206	192
CV (%)			5.2	0.9	5	6	10	7	--
LSD 0.05			12.5	0.7	17	18	28	19	--
LSD 0.10			10.5	0.6	14	15	24	16	--

Planted: May 1. Harvested: Grand Forks Oct. 5, Marshall Oct. 12 and Ramsey Oct. 18.

¹Relative maturity as given by industry.

²Grain moisture and test weight are an average of Grand Forks, Marshall and Ramsey county data.

³Combined yield means are calculated using statistical means that are adjusted based on location variability and may not reflect the numerical average.

**Table 9. 2021 Corn - Average of Northern Locations (Grand Forks, Marshall and Ramsey Counties), Late Maturing Hybrids (≥83).
Authors, C. Keene and D. Eisinger.**

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield				2-yr. Avg.
			Moisture ²	Weight ²	G. F.	Marshall	Ramsey	Average ³	
			(%)	(lb/bu)	------(bu/a)-----				
REA	2B862	86	23.0	56.6	231	222	235	232	214
Dairyland	2828AM	88	23.3	56.5	238	232	217	230	--
Pioneer	P8588AM	85	21.6	56.5	236	222	226	230	--
REA	2B851	85	21.1	56.9	232	219	228	227	211
Integra	3431VT2	84	21.3	57.1	237	217	223	226	--
Legacy	LC-2817	86	23.8	56.6	236	227	216	224	209
REA	2B863	86	23.3	56.3	228	202	236	223	--
Dahlman	R42-28VT2PRIB	84	22.0	56.9	234	227	210	221	--
Dairyland	2350RR	83	20.2	54.6	220	213	210	219	207
Pioneer	P8352AM	83	21.8	56.2	218	206	221	217	--
Peterson	73S84	84	22.4	56.9	232	218	201	216	--
Peterson	75G85	85	21.7	56.9	222	206	220	216	--
Legacy	LC-2347	83	22.1	56.8	212	224	221	216	205
Peterson	22T83	83	22.2	56.8	223	213	193	206	196
Legacy	LC351-20	85	22.1	56.4	199	222	216	201	--
Mean			22.1	56.5	227	216	218	220	205
CV (%)			5.2	0.9	5	6	10	7	--
LSD 0.05			12.5	0.7	17	18	28	19	--
LSD 0.10			10.5	0.6	14	15	24	16	--

Planted: May 1. Harvested: Grand Forks Oct. 5, Marshall Oct. 12 and Ramsey Oct. 18.

¹Relative maturity as given by industry.

²Grain moisture and test weight are an average of Grand Forks, Marshall and Ramsey county data.

³Combined yield means are calculated using statistical means that are adjusted based on location variability and may not reflect the numerical average.

Table 10. 2021 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	2021	2-yr. Avg.
			(%)	(lb/bu)	----- (bu/a) -----	
Integra	3431 VT2PRIB	84	15.7	58.2	71	91
Integra	3537 VT2PRIB	85	16.3	57.7	70	88
Thunder	T6987 VT2P	87	17.6	58.7	69	84
Proseed	1787 VT2P	87	15.9	59.0	69	90
Thunder	T6190 VT2P	90	17.0	54.3	69	--
Thunder	T6185 VT2P	85	16.3	55.9	68	85
Integra	3718 VT2PRIB	87	17.5	56.7	67	89
Champion	40A21 VT2P	90	16.7	54.4	66	--
Peterson	73S84	84	15.4	57.7	65	85
Thunder	T6085 VT2P	85	16.4	58.9	65	84
Dairyland	DS-3366AM	93	17.8	57.0	65	96
Peterson	75G85	85	15.7	56.1	64	--
Stine	9101-G	83	17.1	56.7	64	--
Dairyland	DS-3193AM	91	15.2	54.9	63	93
Stine	9202-11	85	15.7	56.2	63	--
Dairyland	DS-2828AM	88	14.6	55.2	63	--
REA	3B903	90	16.1	57.3	63	96
Peterson	22T83	83	16.8	58.4	62	91
Legacy	LC-2817	86	16.6	58.4	61	88
Peterson	74Z87	87	15.6	58.8	60	83
Proseed	1185 RR2	85	15.5	56.2	59	--
Legacy	LC-3048	90	19.1	54.7	59	97
Proseed	1984 VT2P	84	15.9	58.0	59	87
Champion	36A22 VT2P	86	18.9	55.0	59	--
Dyna-Gro	D23VC83	83	14.7	55.4	59	--
Dyna-Gro	D27VC87	87	16.8	58.2	58	84
Channel / Bayer	194-49DGV2PRIB	94	22.3	56.1	58	--
REA	1B821	82	16.0	57.5	58	75
Stine	9140-G	81	15.1	56.9	57	--
Dyna-Gro	D21VC81	81	15.8	57.3	56	74
REA	2B862	86	15.6	54.5	55	--
Champion	33A20 VT2P	83	15.6	57.9	55	--
Legacy	LC-2918	89	16.5	56.5	54	84
REA	2B851	85	15.6	55.2	54	83
Integra	3282 VT2PRIB	82	16.5	59.7	54	67
Dyna-Gro	D26VC72	86	15.9	56.2	52	77
REA	2B863	86	15.7	56.9	52	--
Stine	9202-G	85	15.6	56.8	51	--
Legacy	LC413-20	91	18.2	56.1	50	--
Mean			16.4	56.8	61	86
CV %			9.0	1.7	17	--
LSD 0.05			2.1	1.4	15	--
LSD 0.10			1.7	1.1	12	--

Planted: April 29. Harvested: Nov. 1. Previous crop: spring wheat.

¹Relative maturity as given by industry.

Table 11. 2021 Corn - Irrigated - Carrington - Authors, M. Ostlie, B. Schatz and T. Indergaard.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield	
			Moisture	Weight	2021	2-yr. Avg.
			(%)	(lb/bu)	----- (bu/a) -----	
Renk	RK300RR	90	16.1	59.8	246	--
Renk	RK312VT2P	90	16.2	59.0	242	--
Legacy	LC431-20	91	15.5	59.4	236	--
Dyna-Gro	D27VC87	87	15.4	59.7	232	186
Renk	RK297VT2P	89	14.5	58.9	227	--
Channel / Bayer	194-49DGVT2PRIB	94	17.8	58.4	225	--
Proseed	1787 VT2P	87	14.4	59.8	224	179
Thunder	T6190 VT2P	90	15.5	58.3	222	183
Dairyland	DS-3193AM	91	15.4	58.5	221	182
REA	3B903	90	14.8	58.4	218	183
Legacy	LC-2817	86	15.0	60.0	218	180
Legacy	LC-2918	89	16.2	58.5	218	177
Dairyland	DS-2828AM	88	15.3	59.1	215	--
Dyna-Gro	D23VC83	83	15.1	58.6	211	--
Stine	9202-11	85	15.3	60.0	210	--
Proseed	1984 VT2P	84	14.4	59.7	210	179
Thunder	T6085 VT2P	85	14.0	59.7	209	168
Legacy	LC-3048	90	15.1	58.6	209	185
REA	2B863	86	14.7	58.7	207	--
Thunder	T6987 VT2P	87	14.4	59.8	207	170
Dyna-Gro	D21VC81	81	14.0	59.5	204	132
Dyna-Gro	D26VC72	86	14.6	59.1	203	131
Dairyland	DS-3366AM	93	14.3	60.7	202	131
REA	2B862	86	14.1	58.9	199	--
Dairyland	DS-3022AM	90	13.7	59.3	199	--
Stine	9202-G	85	14.6	59.8	198	--
REA	1B821	82	13.9	59.0	197	128
REA	2B851	85	13.4	58.7	194	126
Stine	9140-G	81	13.9	59.4	193	--
Thunder	T6185 VT2P	85	14.4	58.7	190	--
Stine	9101-G	83	13.8	59.4	179	--
Proseed	1185 RR2	85	15.4	58.3	121	--
Mean			14.9	59.1	209	164
CV %			5.1	1.1	9	-
LSD 0.05			1.1	0.9	26	--
LSD 0.10			0.9	0.8	22	--

Planted: April 29. Harvested: Nov. 2. Previous crop: field pea.

¹Relative maturity as given by industry.

Table 12. 2021 Corn - Fingal (Carrington REC) - Authors, M. Ostlie, B. Schatz and T. Indergaard.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield	
			Moisture	Weight	2021	2-yr. Avg.
			(%)	(lb/bu)	----- (bu/a) -----	
Dairyland	DS-3519AM	95	15.2	61.1	246	205
Legacy	LC461-21	96	14.5	61.4	245	--
Dairyland	DS-3727AM	95	15.0	59.8	242	--
Proseed	1996 VT2P	96	15.1	60.2	241	200
Dairyland	DS-3550AM	95	15.2	57.1	239	202
Renk	RK561DGVT2P	96	15.3	59.4	231	--
Legacy	LC-3419	94	14.4	59.5	230	194
Channel / Bayer	194-49DGVT2PRIB	94	15.3	59.1	217	--
Legacy	LC-3617	96	14.9	59.7	216	189
Champion	38A20 VT2P	88	13.7	58.9	215	--
Legacy	LC413-20	91	14.7	58.1	213	--
Thunder	T6791 VT2P	91	13.9	59.2	213	--
Proseed	1794 VT2P	94	14.9	57.4	213	185
Renk	RK429-3220A	93	14.2	59.2	211	--
Renk	RK485DGVT2P	94	14.6	61.2	210	--
Peterson	72Q94	94	15.3	57.8	209	--
Legacy	LC-3048	90	14.3	58.9	208	--
Champion	45A22 DG2P	95	14.3	61.2	206	--
REA	2B863	86	13.8	59.4	206	--
Dairyland	DS-3366AM	93	14.9	59.6	205	183
REA	4B958	95	14.7	59.5	205	--
Thunder	T6294 VT2P	94	15.1	60.7	204	--
Renk	RK433VT2P	92	14.4	58.9	204	187
REA	4B933	93	13.7	60.2	204	--
REA	3B903	90	13.8	58.6	202	175
Peterson	78G95	95	15.1	57.4	201	--
Proseed	2091 VT2P	91	14.1	58.6	192	162
REA	3B912	91	13.7	59.1	191	179
Dairyland	DS-2828AM	88	14.1	58.9	190	--
Thunder	T6992 VT2P	92	14.3	59.5	189	--
Champion	40A21 VT2P	90	14.3	58.1	188	--
Dyna-Gro	CX19888	88	13.9	58.6	187	--
Proseed	1591 VT2P	91	14.0	58.7	183	--
Thunder	T6190 VT2P	90	14.4	57.8	180	--
Dyna-Gro	D27VC87	87	13.4	59.7	180	156
Peterson	73K90	90	14.3	58.6	179	162
Dyna-Gro	D26VC72	86	13.3	58.7	168	153
Mean			14.4	59.2	207	181
CV %			3.4	1.6	12	--
LSD 0.05			0.7	1.3	35	--
LSD 0.10			0.6	1.1	29	--

Planted: May 6 Harvested: Nov. 3. Previous crop: soybean.

¹Relative maturity as given by industry.

Table 13. 2021 Corn - Oakes (Carrington REC) - Authors, K. Cooper, H. Eslinger and S. Nelson.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield	
			Moisture	Weight	2021	2-yr. Avg.
			(%)	(lb/bu)	----- (bu/a) -----	
Legacy	LC-3617	96	15.9	55.6	165	171
Thunder	T6298 VT2P	98	15.6	56.2	163	--
Peterson	78P98	98	16.8	54.5	163	--
REA	4B958	95	16.1	54.1	159	--
Legacy	LC-3718	97	16.3	55.4	158	177
Dairyland	DS-3519AM	95	15.7	57.1	155	192
REA	4B975	97	15.1	56.2	155	--
Renk	RK429-3220A	93	15.5	53.9	154	--
Peterson	72Q94	94	15.7	54.0	153	--
Thunder	T6294 VT2P	94	15.5	57.2	153	--
Channel	194-49DGVT2PRIB	94	15.6	55.7	152	--
Thunder	T6996 VT2P	96	15.6	55.8	152	184
Renk	RK561DGVT2P	96	15.5	56.0	152	195
Proseed	1996 VT2P	96	15.6	55.6	150	189
Dairyland	DS-3550AM	95	16.0	53.1	150	--
REA	3B912	91	15.5	54.6	149	176
Proseed	1797 VT2P	97	16.6	54.1	145	--
Dairyland	DS-3727AM	95	15.5	56.3	145	--
Legacy	LC461-21	96	15.6	57.2	140	--
REA	3B903	90	15.1	54.4	137	165
Dyna-Gro	D35VC35	95	15.7	53.7	136	--
Legacy	LC-3517	95	16.1	55.3	133	173
Peterson	78G95	95	15.2	54.3	132	165
Renk	RK485DGVT2P	94	15.6	56.7	132	--
Dairyland	DS-3366AM	93	15.8	55.8	129	181
Proseed	1998 VT2P	98	16.1	54.0	121	--
Mean			15.7	55.3	147	179
CV %			3.2	1.0	15	--
LSD 0.05			0.7	0.8	32	--
LSD 0.10			0.6	0.7	26	--

Planted: May 7. Harvested: Oct. 29. Previous crop: soybean.

¹Relative maturity as given by industry.

Table 14. 2021 Corn - Irrigated - Oakes (Carrington REC) - Authors, K. Cooper, H. Eslinger and S. Nelson.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield	
			Moisture	Weight	2021	2-yr. Avg.
			(%)	(lb/bu)	----- (bu/a) -----	
Peterson	78P98	98	17.0	56.8	314	--
Proseed	2196 VT2P	96	17.5	56.3	313	--
Peterson	72Q94	94	17.3	57.4	308	--
Renk	RK561DGVT2P	96	17.3	57.4	305	284
Dairyland	DS-3727AM	95	16.9	58.1	299	--
Renk	RK429-3220A	93	16.3	58.5	299	--
Dairyland	DS-3550AM	95	16.3	56.7	296	288
Legacy	LC-3718	97	17.6	57.1	296	280
REA	4B976	97	17.0	56.6	293	279
Proseed	1998 VT2P	98	17.2	57.4	290	--
Channel	194-49DGVT2PRIB	94	17.8	57.5	286	--
Renk	RK485DGVT2P	94	16.3	59.5	285	--
Dyna-Gro	D35VC35	95	16.0	58.0	285	--
Legacy	LC-3617	96	16.9	57.9	284	261
Legacy	LC461-21	96	16.6	59.3	284	--
Proseed	1996 VT2P	96	17.0	57.7	282	271
Legacy	LC-3517	95	16.9	58.2	282	262
REA	4B958	95	17.2	58.0	279	--
Peterson	78G95	95	17.0	56.3	277	256
Dairyland	DS-3022AM	90	16.5	57.7	275	--
REA	4A944	94	16.8	57.4	269	--
REA	4B933	93	16.1	58.8	263	--
Mean			16.9	57.7	288	273
CV %			2.6	6.0	5	--
LSD 0.05			0.6	0.5	19	--
LSD 0.10			0.5	0.4	16	--

Planted: May 7. Harvested: Oct. 26. Previous crop: soybean.

¹Relative maturity as given by industry.**Table 15. 2021 Corn - Hettinger - Authors, J. Rickertsen and M. Wells.**

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield	
			Moisture	Weight	2021	2-yr. Avg.
			(%)	(lb/bu)	----- (bu/a) -----	
Integra	3009	80	22.6	54.7	38	--
Integra	3282	82	25.1	54.9	35	44
Integra	3431	84	25.7	56.2	35	45
Integra	3537	85	23.9	54.6	38	43
Proseed	1882	82	25.2	58.3	39	45
Proseed	1984	84	24.4	56.5	40	49
Mean			24.5	55.8	37	45
CV %			6.2	4.1	9	--
LSD 0.05			1.5	2.3	5	--
LSD 0.10			1.3	1.9	4	--

Planted: May 12. Harvested: Oct. 18. Previous crop: oats.

¹Relative maturity as given by industry.

Table 16. 2021 Corn - Langdon - Authors, B. Hanson, L. Henry and J. Faul.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield
			Moisture	Weight	2021
			(%)	(lb/bu)	(bu/a)
REA	1B771	77	25.9	55.2	174
Innvictis	A7988VT2PRIB	79	27.8	56.0	174
Peterson	70D80	80	29.6	55.2	170
Legacy	LC-1818	78	27.1	56.0	168
Pioneer	P7844AM	78	27.4	55.8	168
REA	1R710	71	22.5	58.9	164
Peterson	71V81	81	32.1	54.1	163
Pioneer	P7861AM	78	23.2	56.6	161
Thunder	T6278 VT2P	78	26.4	56.0	160
Peterson	22C74	74	26.5	59.0	155
Stine	9140-G	81	37.1	52.5	154
Thunder	T6181 VT2P	81	34.9	54.2	153
Pioneer	P7417AM	74	25.0	55.7	152
Legacy	LC295-21 GT	80	32.3	58.4	152
Peterson	77P79	79	30.3	55.4	150
Legacy	LC311-20	81	35.4	54.0	150
REA	1B750	75	26.4	57.7	147
Innvictis	A7837VT2PRIB	78	30.6	56.0	144
Proseed	1974	74	25.7	58.9	144
Thunder	T6074 VT2P	74	30.8	58.5	139
Proseed	2078	78	34.5	52.2	138
Thunder	T4072 RR	72	29.5	56.7	134
Legacy	LC304-21	80	46.0	53.4	134
Legacy	LC295-21 GTCBLL	79	32.5	57.6	133
Mean			30.3	55.9	153
CV %			7.4	0.8	5
LSD 0.05			2.8	0.6	10
LSD 0.10			2.3	0.5	8

Planted: May 11. Harvested: Oct. 18.

¹Relative maturity as given by industry.

Yield and test weight reported at 15.5% moisture.

Table 17. 2021 Corn - Minot (North Central REC) - Authors, E. Eriksmoen, J. Hansen and A. Kraklau.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield	
			Moisture	Weight	2021	2-yr. Avg.
			(%)	(lb/bu)	----- (bu/a) -----	
REA	1B821	82	12.3	55.5	109	106
Thunder Seed	T6074 VT2P	74	12.9	58.9	95	102
Thunder Seed	T6278 VT2P	78	16.0	58.1	93	--
Legacy	LC275-21	77	21.5	62.9	89	--
Dairyland	DS-2350RR	83	15.3	54.2	87	--
REA	2B851	85	18.9	58.9	86	97
Stine Seed	9202-G	85	19.9	59.1	86	--
Stine Seed	9101-G	83	22.4	58.7	86	--
Proseed	1980	80	14.0	57.4	84	107
Proseed	2078	78	14.6	56.1	84	85
Dairyland	DS-2080AM	80	14.3	57.1	83	--
Legacy	LC311-20	81	19.2	60.4	83	--
Stine Seed	9140-G	81	22.0	61.4	82	--
Thunder Seed	T6181 VT2P	81	18.6	59.9	81	97
Proseed	2181	81	22.9	61.9	77	--
Legacy	LC304-21	80	22.3	60.1	75	--
Integra	3009	80	18.1	59.4	74	88
NK Seeds	NK7837-3220	78	23.8	62.1	73	82
Proseed	1882	82	18.7	59.3	72	91
Integra	3282	82	20.7	59.9	71	84
Thunder Seed	T4072 RR	72	15.9	58.2	70	79
NK Seeds	NK8519-3220	85	18.7	52.7	69	89
Integra	3431	84	26.5	61.9	69	93
REA	1R710	71	15.5	57.9	68	--
Stine Seed	9003-G	77	16.2	61.2	67	--
NK Seeds	NK8005-3220A	80	22.8	60.2	66	87
Legacy	LC354-20	85	27.4	61.4	65	--
REA	1B771	77	17.1	57.3	65	--
NK Seeds	NK8204-3220	82	19.9	55.5	63	84
REA	1B750	75	17.9	59.2	63	73
Mean			18.9	58.9	78	90
CV %			15.4	3.2	18	--
LSD 0.05			4.8	3.1	22	--
LSD 0.10			4	2.6	19	--

Planted: May 13. Harvested: Sept. 28.

¹Relative maturity as given by industry.

Note: The 2021 trial sustained severe drought. View data with caution.

Table 18. 2021 Corn - Irrigated - Nesson Valley (Williston REC) - Authors, J. Jacobs, A. Turnquist and T. Tjelde.

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield	
			Moisture	Weight	2021	2-yr. Avg.
			(%)	(lb/bu)	----- (bu/a) -----	
REA Hybrids	1B771	77	15.2	58.0	193	--
Integra	3537	85	16.2	58.0	186	--
Integra	3431	84	16.2	59.1	185	--
REA Hybrids	2B851	85	15.2	58.1	184	183
REA Hybrids	1B821	82	16.3	58.3	177	178
Integra	3282	82	16.3	59.5	174	--
Integra	3009	80	15.8	59.4	167	--
Mean			15.9	58.6	181	180
CV %			3.1	0.7	15	--
LSD 0.05			0.7	0.6	NS	--
LSD 0.10			0.6	0.5	NS	--

Planted: May 17. Harvested: Oct. 21. Previous crop: barley.

¹Relative maturity as given by industry.**Table 19. 2021 Corn - Irrigated - Trenton Off-Station (Williston REC) - Authors, A. Turnquist and J. Jacobs.**

Company/Brand	Hybrid	RM ¹	Grain	Test	Grain Yield
			Moisture	Weight	2021
			(%)	(lb/bu)	(bu/a)
REA Hybrids	2B851	85	17.4	57.7	162
REA Hybrids	1B821	82	17.5	57.9	160
Integra	3431	84	18.3	58.0	144
REA Hybrids	1B771	77	16.0	57.4	144
Integra	3009	80	16.4	59.2	123
Integra	3282	82	19.6	58.9	122
Mean			17.5	58.2	142
CV %			7.9	1.0	16
LSD 0.05			2.5	NS	NS
LSD 0.10			2.1	NS	36

Planted: May 11. Harvested: Oct. 19. Previous crop: sugarbeet.

¹Relative maturity as given by industry.

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