

2017 Corn Hybrid Trials — Marshall County

Cooperators: Chad Anvinson and WJS Farms

Planting Date: May 9

Harvest Date: October 24

Soil Temp @ planting: 60o

Seeding Rate (final stand count): 34,000 (none taken)

Row Spacing: 30"

Herbicide treatments: Roundup 32 fl oz and Laudis 3 fl oz (6/5/17)

Fertilizer applications: Fall applied: 103-52-12

Soil units: I123A—Bearden-Colvin silty clay loams, 0 to 2 percent slopes

Location: 48°11'19.03"N, 97° 2'28.13"W

Cooperators: Chad Anvinson & WJ Nelson

of Entries: 60 + 5 check varieties

Trial average yield: 205 bu/ac

Experimental Design: Alpha lattice w/ 4 replications

Notes: Marshall County performed exceptionally well this year. The cooperator and extension agent in the county did a great job of assisting us with scouting the trial, as it was quite a drive to bring equipment there. Weed pressure was tackled early and never a problem in the trial. The only issue was the wind during harvest week that caused some lodging throughout the trial Purpose of

Study:

Evaluate the performance of commercially available corn hybrids in Northwest MN

Results:

Yield and moisture data from 4 replications is summarized in the tables below. Yields are adjusted to 15.5% moisture. There were significant differences in moisture and yield between corn hybrids at all locations.

Brand	2017 Entry	RM (days)
Channel	181-11VT2PRIB	81
Channel	182-62VT2PRIB	82
Channel	185-15VT2PRIB	85
Croplan	2330VT2P/RIB	83
DAHLMAN	R41-22VT2PRIB	82
DAHLMAN	R43-26VT2PRIB	85
DAIRYLAND SEED	DS-7185	85
DAIRYLAND SEED	DS-9686	86
Delalb	DKC33-78	83
Integra Seed	2803 VT2PRIB	78
Integra Seed	3537 VT2PRIB	85
Latham	LH 2937 VT2P	79
Latham	LH 3117 VT2P	81
Latham	LH 3397 VT2P	83
Latham	LH 3487 VT2P	84
Latham	LH 3547 VT2P	85
Legacy Seeds	L-1746 VT2PRO	78
Legacy Seeds	L-1814 VT2PRO	79
Legacy Seeds	L-1943 VT2PRO	80
Legacy Seeds	L-2213 VT2PRO	80
Legacy Seeds	L-2245 VT2PRO	82
Legacy Seeds	L-2314 VT2PRO	83
Legacy Seeds	L-2436 3220	84
Legacy Seeds	L-2516 VT2PRO	84
Legend Seeds	LR 9774	74
Legend Seeds	LR 9778	78
Legend Seeds	LR 9882	82
NuTech	5GN-8484	84
NuTech	5N-183	83
NuTech	X5GN-8105	81
NuTech G2 Genetics	5F-379	79
NuTech G2 Genetics	5F-775	75
NuTech G2 Genetics	X5FN-8504	85
Partners Brand Seed	PB4833RR	78
Partners Brand Seed	PB5030GT	80
Partners Brand Seed	PB5203-3000GT	82
Partners Brand Seed-c	CL520	82
Peterson Farms Seed	71C80	80
Peterson Farms Seed	71D83	81
Peterson Farms Seed	78A82	82
Pioneer	7332R	82
Proseed	1278 GT	78

Grand Forks County			Marshall County, MN			Combined			2-year
Yield	Moisture	Lodging	Yield	Moisture	Lodging	Yield	Moisture	Lodging	Yield
206.6	16.6	0.1%	201.3	15.5	8.4%	204.0	16.0	4.3%	
197.2	17.5	0.3%	192.3	17.0	4.7%	194.8	17.3	2.5%	193.5
232.3	18.1	0.1%	227.2	18.8	0.1%	229.8	18.5	0.1%	217.0
204.0	17.9	2.5%	214.7	17.0	6.8%	209.4	17.4	4.7%	
207.9	17.2	2.6%	215.3	17.1	0.0%	211.6	17.1	1.3%	205.4
213.6	17.2	0.0%	227.4	16.9	0.0%	220.5	17.1	0.0%	211.1
194.8	17.1	0.2%	195.8	17.1	0.4%	195.3	17.1	0.3%	
215.7	19.2	0.0%	210.3	18.3	1.0%	213.0	18.7	0.5%	219.2
203.8	17.1	0.0%	213.4	17.4	0.0%	208.6	17.3	0.0%	
185.7	17.1	0.0%	178.0	17.1	0.4%	181.9	17.1	0.2%	
210.3	18.7	0.0%	215.6	18.0	1.4%	212.9	18.4	0.7%	
203.0	16.8	0.0%	196.5	16.2	9.4%	199.8	16.5	4.7%	
203.1	17.8	0.0%	205.7	18.2	1.1%	204.4	18.0	0.5%	
195.7	17.2	1.1%	213.3	17.1	0.0%	204.5	17.2	0.6%	
224.2	16.9	0.1%	221.9	17.4	3.7%	223.1	17.2	1.9%	
211.4	18.3	0.0%	215.6	17.6	0.8%	213.5	17.9	0.4%	
199.0	16.9	0.0%	198.2	15.6	2.0%	198.6	16.3	1.0%	
203.8	17.0	0.0%	204.0	16.6	0.4%	203.9	16.8	0.2%	195.4
200.8	16.6	0.0%	213.1	16.8	0.0%	206.9	16.7	0.0%	
200.0	16.9	0.0%	209.8	16.9	0.3%	204.9	16.9	0.1%	193.9
207.7	17.2	0.0%	215.5	16.6	2.3%	211.6	16.9	1.2%	206.8
213.4	18.0	1.4%	217.0	17.4	2.4%	215.2	17.7	1.9%	
204.5	17.0	0.2%	207.7	16.5	0.0%	206.1	16.7	0.1%	
206.6	17.7	0.0%	217.8	17.8	2.1%	212.2	17.8	1.1%	
192.1	15.5	0.0%	193.9	15.2	0.0%	193.0	15.4	0.0%	
210.4	16.6	0.1%	201.7	16.2	0.0%	206.0	16.4	0.0%	
217.3	17.1	0.1%	216.6	16.5	0.0%	216.9	16.8	0.0%	
210.1	17.1	0.1%	201.4	16.9	0.3%	205.7	17.0	0.2%	
231.9	17.6	0.0%	184.3	16.3	10.4%	208.1	16.9	5.2%	
206.4	17.3	0.1%	206.2	16.9	0.9%	206.3	17.1	0.5%	
217.2	16.9	0.1%	218.8	16.4	0.7%	218.0	16.6	0.4%	194.2
189.2	16.8	0.1%	186.6	16.8	0.7%	187.9	16.8	0.4%	178.0
238.2	19.2	0.2%	229.1	18.4	1.8%	233.7	18.8	1.0%	
190.7	17.9	0.1%	176.4	17.7	0.3%	183.6	17.8	0.2%	180.7
197.7	16.9	0.0%	199.7	17.1	0.2%	198.7	17.0	0.1%	196.0
210.1	18.7	0.0%	196.2	18.8	3.8%	203.1	18.7	1.9%	205.6
195.7	19.1	0.2%							211.9
210.4	16.6	0.0%	207.6	17.1	0.4%	209.0	16.9	0.2%	186.2
188.4	17.5	0.2%	205.8	17.8	0.2%	197.1	17.7	0.2%	196.8
214.3	17.4	0.0%	217.5	16.9	1.4%	215.9	17.1	0.7%	
185.9	16.6	0.0%	200.8	16.5	0.0%	193.3	16.5	0.0%	
177.5	16.7	1.2%	168.1	16.9	9.7%	172.8	16.8	5.4%	



2017 Corn Hybrid Trials — Marshall County

continued

Brand	2017 Entry	RM (days)
Proseed	1280 RR	80
Proseed	1378 VT2P	78
Proseed	1382 VT2P	82
Proseed	1383 GT	83
Proseed	1384 VT2P	84
Proseed	1385 VT2P	85
Proseed	1480 VT2P	80
Proseed	1483 VT2P	83
Proseed Inc-c	1083	83
Proseed Inc-c	1380	80
Proseed Inc-c	1381	81
Proseed Inc-c	1681	81
Proseed Inc-c	1684	84
REA Hybrids	1B790	79
REA Hybrids	1B811	81
REA Hybrids	1B820	82
REA Hybrids	2B840	84
Renegade Seed-c	R1-1685	85
Stine Seed	9101	83
Stine Seed	9202	85
TCG-c	TCG 225	79-82
TCG-c	TCG 405	89-93
Thunder Seed	4383 VT2P	83
Thunder Seed	4578 RR	78
Thunder Seed	4585 RR	85
Thunder Seed	6785 VT2P	85
Thunder Seed	6880 VT2P	80
Thunder Seed	6882 VT2P	82
Thunder Seed	7578 VT2P	78
Thunder Seed-c	2780	80
Thunder Seed-c	2784	84
Thunder Seed-c	6184	84
		Mean
		LSD (0.05)
		LSD (0.10)
		CV

Grand Forks County			Marshall County, MN			Combined			2-year
Yield	Moisture	Lodging	Yield	Moisture	Lodging	Yield	Moisture	Lodging	Yield
198.8	17.0	0.0%	200.2	16.9	0.0%	199.5	17.0	0.0%	
190.7	17.2	0.0%	198.2	16.7	2.8%	194.5	17.0	1.4%	
193.8	18.4	1.4%	175.7	18.8	8.5%	184.7	18.6	5.0%	186.9
188.8	17.5	0.0%	188.1	17.3	3.0%	188.5	17.4	1.5%	
208.1	17.1	0.3%	205.5	17.4	0.3%	206.8	17.3	0.3%	
210.0	17.8	0.0%	212.6	18.5	0.3%	211.3	18.2	0.2%	206.8
195.3	16.9	0.0%	196.4	16.5	0.0%	195.9	16.7	0.0%	
208.9	17.3	1.2%	206.6	16.1	10.3%	207.7	16.7	5.8%	199.1
233.6	18.4	0.0%							
186.5	17.0	1.2%							
201.9	17.2	0.0%							
207.1	20.7	7.5%							
227.0	17.2	1.1%							
208.4	16.8	0.1%	205.1	15.4	0.3%	206.8	16.1	0.2%	192.4
205.6	16.8	0.0%	210.4	16.2	1.6%	208.0	16.5	0.8%	
208.1	17.2	0.0%	206.5	17.7	0.4%	207.3	17.4	0.2%	196.8
227.7	17.1	0.0%	223.0	16.8	3.3%	225.3	16.9	1.7%	213.1
204.7	18.3	1.3%				204.7	18.3	1.3%	
211.1	18.1	0.0%	197.3	17.2	0.0%	204.2	17.7	0.0%	
225.1	18.7	0.1%	223.7	18.5	0.7%	224.4	18.6	0.4%	
177.1	17.6	0.0%							
181.0	18.7	1.3%							
187.6	17.1	0.0%	209.4	17.0	1.2%	198.5	17.0	0.6%	191.5
184.5	16.8	0.0%	184.5	16.6	5.2%	184.5	16.7	2.6%	
215.5	18.0	3.7%	208.2	17.3	10.6%	211.8	17.6	7.1%	205.1
216.5	17.0	0.0%	216.7	17.2	0.7%	216.6	17.1	0.3%	207.4
198.0	16.5	0.0%	194.3	15.5	0.0%	196.2	16.0	0.0%	
214.5	17.0	0.0%	206.3	17.0	2.5%	210.4	17.0	1.2%	
189.8	17.2	0.0%	188.5	17.2	1.4%	189.2	17.2	0.7%	174.4
214.4	16.1	0.0%							225.9
223.3	18.5	0.1%							234.5
222.9	18.7	0.0%							220.8
205.2	17.3	0.3%	204.8	17.1	2.1%	205.0	17.2	1.2%	
18.6	0.7	2.4%	17.3	0.9	5.8%	14.4	0.7	4.0%	
15.5	0.6	2.0%	14.5	0.8	4.9%				
6.3	3.0	676.6	5.7	3.7	195.7	3.5	2.1	174.0	