

The NDSU corn breeding program planted 36 experiments across >20 state locations in 2012. Of those experiments 25 were for breeding purposes and 9, specifically, to aid North Dakota farmers select their hybrids for planting in 2013. These are the Eastern ND Hybrid Corn Performance Trials and evaluate commercial hybrids available in the market. Colfax, Milnor, and Barney were used for the South Eastern ND trials, **Casselton, Prosper and Fargo for the Central East ND trials**, and Larimore, Thompson, and Lakota for the northern ND trials.

The NDSU corn breeding program conducts most state hybrid corn performance trials annually to provide unbiased information and assist farmers in the selection of stable high-yielding lodging resistant and fast-drying corn hybrids. In 2012 (as in previous years) we have commercial hybrid trials including the same hybrids at 9 locations northern, central, and southern ND. **Below are the central east ND trials combined across locations.** It is important to include all traits across locations provided combined data for not only yield but also other traits (e.g., dry down, lodging, and TW)

CENTRAL EAST ND (DATA COMBINED ACROSS THREE LOCATIONS). SENT FOR POSTING ON OCTOBER 9, 2012

COMPANY	HYBRID NAME	Grain	Grain	Test	Stalk	Root	Dropped
		Yield	Moisture	Weight	Lodging	Lodging	Ears
		bu/A	%	lb/bu	%	%	%
Seeds2000	2903 GTCBLL	119.66	17.74	50.94	5.75	0.48	2.20
NuTech	5B-290™	117.18	18.92	51.09	11.59	0.96	0.01
G2 Genetics	5H-890™	106.12	16.43	53.94	1.06	0.08	0.00
Peterson Farms	PFS 98L90	105.73	18.94	52.79	6.14	0.01	0.00
NuTech	5B-9102	103.24	17.61	54.43	0.00	0.12	0.00
Monsanto	DKC38-03	101.75	19.09	54.10	0.00	0.04	0.00
Gold Country	85-39VT3P	101.63	14.95	56.69	0.19	0.51	0.00
Syngenta	N29T-3000GT Brand	100.32	18.80	51.03	2.05	0.02	0.00
Dyna-Gro	CX23VP35	99.80	15.46	55.40	0.00	0.54	0.03
Renk Seed	RK302GTCBLLRW	98.84	17.77	51.18	5.64	0.44	0.00
Dyna-Gro	D26VP56	98.75	16.93	56.95	0.44	0.12	0.00
Integra	9390VT2 Pro	98.52	18.61	53.55	0.08	0.07	0.00
Proseed	990 3000GT	95.91	18.70	50.74	2.30	0.03	0.00
Proseed	1189 3000GT	95.53	18.63	53.20	1.14	0.87	0.00
G2 Genetics	5X-193™	95.34	18.28	53.28	0.43	0.81	0.00
Proseed	1191 VT3P	95.21	19.54	53.25	0.00	0.33	0.00
Wensman	W 7110VT3PRO	94.78	19.50	52.84	0.24	0.85	0.00
Dyna-Gro	D31VP31	91.85	18.95	53.54	0.00	1.16	0.00
Seeds2000	2852 GTCBLL	91.67	16.50	55.17	5.41	0.06	0.00
Northstar Genetics	90-101	91.62	17.77	51.83	2.42	0.43	0.00
Seeds2000	9202 VT2P	90.95	18.04	51.95	0.94	0.26	0.00
Northstar Genetics	90-590	89.33	18.74	53.04	0.00	0.00	0.00

Hyland	8180	88.87	15.90	54.89	2.31	0.05	0.00
Dairyland	DS9487SSX	88.16	18.28	52.09	0.42	0.06	0.00
Dahlman	Dahlman R43-20VT2P	88.06	15.19	54.92	0.42	0.31	0.01
Stine Seeds	Ex87A 3111GT	87.67	17.32	52.06	1.29	0.47	0.00
Pioneer Hi-Bred	P8640HR	87.59	15.21	54.37	0.00	0.06	0.00
G2 Genetics	5H-587™	87.22	15.27	55.23	0.67	0.42	0.00
Dahlman	Dahlman R44-66	86.18	17.72	52.50	0.00	0.58	0.00
Dyna-Gro	52V01	84.87	14.98	53.93	0.76	0.93	0.00
NuTech	3A-8801™	84.49	19.52	53.93	1.40	0.00	0.00
Syngenta	N21J-3000GT Brand	84.41	17.56	56.06	1.88	0.08	0.43
Proseed	1288 3111GT	84.21	16.99	51.69	3.58	0.02	0.01
Wensman	W 8120VT2RIB	82.54	18.75	52.36	0.40	0.41	0.03
Integra	9361VT3	82.15	15.32	53.14	0.79	2.25	0.00
G2 Genetics	5X-9402™	80.55	17.85	45.97	3.49	0.00	0.00
Hyland	8234	80.27	15.10	53.65	0.59	0.04	0.00
Peterson Farms	PFS 57H87	79.57	16.68	54.29	0.02	0.03	0.00
Seeds2000	8801 VT2P	77.19	15.01	55.59	2.15	0.43	0.00
CHECK 3		76.71	18.04	55.29	2.08	0.05	0.00
NuTech	5N-186™	76.70	16.23	54.49	1.46	0.73	0.00
G2 Genetics	5X-795™	75.18	18.79	51.40	0.16	0.45	0.06
Pioneer Hi-Bred	39N99	75.00	18.07	54.75	0.79	0.00	0.00
Dairyland	DS9992	74.77	17.63	53.30	1.19	0.05	0.04
CHECK 6		73.96	17.12	54.29	5.97	0.65	1.25
G2 Genetics	5H-289™	73.22	17.20	52.47	0.00	0.50	0.00
Pioneer Hi-Bred	P8906HR	73.17	18.55	51.99	0.00	0.04	0.03
CHECK 4		73.00	17.15	53.28	6.66	4.47	0.47
Peterson Farms	PFS 74K89	72.40	17.12	54.11	0.28	0.00	0.03
Dairyland	DS9291SSX	70.18	19.04	50.80	3.04	1.40	0.00
CHECK 5		69.61	16.88	53.05	9.96	9.26	0.03
CHECK 7		67.43	16.94	54.85	10.42	1.06	0.03
Hyland	8295	67.19	16.89	52.29	4.11	0.05	0.00
Hyland	8166	64.20	16.00	52.39	0.97	0.00	0.00
CHECK 1		54.35	16.33	55.33	0.41	0.86	0.00
CHECK 2		49.73	16.37	50.95	6.46	0.06	0.00

	Mean	85.80	17.37	53.26	2.14	0.61	0.08
	LSD(0.05)	21.65	2.54	4.42	9.48	4.10	0.69
	CV	15.10	7.38	5.12	223.45	341.33	412.03

Check Relative Efficiencies out to see how LATTICES compared with RCBD for reducing experiment errors significantly and increasing the accuracy and efficiency for selecting the best hybrids! Largest Efficiencies ranged from 127 % to 156 % making LATTICES up to 56 % more accurate than RCBD for yield alone! This clearly show that for North Dakota, RCBDs should not be used.

Information on the genetic variability of hybrids for their accurate selection is worth millions of dollars!

The NDSU corn breeding program is known for being the most northern public research program in North America moving corn north to cooler areas and west to drier regions. It is strategically located to develop corn under extreme environmental conditions.