

**EXP 4 PROSPER (THIS IS ONLY ONE LOCATION, CHECK FOR COMBINED DATA OF THE SAME HYBRIDS IN CENTRAL EAST ND)
SENT FOR WEB POSTING ON OCTOBER 9, 2012**

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.

Compared to other corn producing U.S. states farmers in North Dakota are especially challenged by the weather. North Dakota farmers also know that the yield a hybrid can express is as important as lodging resistance, green snap resistance, cold and drought tolerance, and fast dry down.

COMPANY	HYBRID NAME	Grain Yield bu/A	Grain Moisture %	Test Weight lb/bu	Stalk Lodging %	Root Lodging %	Dropped Ears %
Seeds2000	2903 GTCBLL	176.69	19.00	52.39	0.00	0.01	0
Peterson Farms	PFS 98L90	171.89	19.30	53.15	0.00	0.00	0
NuTech	5B-9102	161.46	20.75	54.66	0.00	0.00	0
Renk Seed	RK302GTCBLLRW	157.07	19.05	50.07	0.00	0.00	0
G2 Genetics	5H-890™	155.49	19.00	54.54	0.00	0.00	0
Proseed	990 3000GT	151.84	20.95	50.02	0.00	0.09	0
Syngenta	N29T-3000GT Brand	151.59	19.95	50.17	0.00	0.00	0
Gold Country	85-39VT3P	149.29	16.00	59.13	0.00	0.00	0
NuTech	5B-290™	148.97	19.15	51.92	0.00	0.00	0
Monsanto	DKC38-03	148.68	21.70	51.92	0.00	0.09	0
Dyna-Gro	D26VP56	148.32	18.70	56.75	0.00	0.00	0
Proseed	1189 3000GT	147.00	19.80	52.60	3.41	0.09	0
Northstar Genetics	90-101	143.44	20.10	51.84	0.00	0.00	0
Proseed	1191 VT3P	140.38	21.10	52.62	0.00	0.08	0
G2 Genetics	5X-193™	140.31	21.15	51.46	0.00	0.00	0
Hyland	8180	138.63	17.95	52.95	0.00	0.00	0
NuTech	3A-8801™	133.66	20.30	53.64	2.22	0.00	0
Dyna-Gro	CX23VP35	133.56	17.40	55.90	0.00	0.00	0
Dyna-Gro	D31VP31	132.44	19.25	53.57	0.00	0.00	0
Integra	9390VT2 Pro	131.82	20.15	52.70	0.00	0.00	0
Dahlman	Dahlman R43-20VT2P	131.46	16.00	54.13	0.00	0.00	0

Peterson Farms	PFS 57H87	129.72	19.55	55.72	0.00	0.00	0
Syngenta	N21J-3000GT Brand	129.56	19.10	56.91	0.00	0.01	0
Seeds2000	9202 VT2P	127.84	21.00	50.23	0.00	0.01	0
Dahlman	Dahlman R44-66	125.79	18.45	52.95	0.00	0.00	0
Pioneer Hi-Bred	P8640HR	124.74	18.60	53.99	0.00	0.00	0
ND09-116xTR3622	09WNNNDNZ0782	122.28	20.25	53.72	0.00	0.14	0
Pioneer Hi-Bred	39N99	121.69	19.75	54.89	1.16	0.00	0
Dyna-Gro	52V01	121.16	16.30	54.07	0.00	0.00	0
Northstar Genetics	90-590	121.08	19.65	53.49	0.00	0.00	0
Wensman	W 7110VT3PRO	121.01	20.50	52.55	0.00	0.00	0
Pioneer Hi-Bred	P8906HR	120.74	20.00	53.17	0.00	0.00	0
Wensman	W 8120VT2RIB	120.03	19.95	52.58	0.00	0.00	0
Dairyland	DS9487SSX	119.99	18.20	51.28	0.00	0.00	0
Integra	9361VT3	119.94	18.10	54.87	0.00	0.00	0
Proseed	1288 3111GT	118.52	19.20	52.17	1.39	0.05	0
Seeds2000	2852 GTCBLL	118.39	18.85	55.43	0.00	0.01	0
CHECK 3		117.77	19.15	55.20	1.06	0.14	0
G2 Genetics	5H-587™	117.53	16.05	55.62	0.00	0.00	0
G2 Genetics	5X-9402™	117.40	21.45	50.12	0.00	0.00	0
Peterson Farms	PFS 74K89	115.09	18.65	55.48	0.00	0.00	0
CHECK 6		114.69	19.20	56.20	0.00	0.14	0
Hyland	8234	113.44	18.00	53.33	0.00	0.13	0
Dairyland	DS9992	112.80	18.90	53.73	0.00	0.00	0
CHECK 5		109.46	17.00	57.85	0.00	1.51	0
Hyland	8295	109.28	19.30	52.32	0.00	0.14	0
Stine Seeds	Ex87A 3111GT	104.90	18.50	51.60	0.00	0.00	0
CHECK 7		103.77	19.15	53.42	2.56	3.17	0
G2 Genetics	5H-289™	103.25	18.15	57.00	0.00	0.00	0
Hyland	8166	102.19	16.75	56.32	0.00	0.00	0
Seeds2000	8801 VT2P	99.08	18.40	55.06	2.56	0.01	0
Dairyland	DS9291SSX	97.23	19.85	51.63	0.00	0.00	0
CHECK 1		83.35	17.10	58.41	1.22	1.21	0
NuTech	5N-186™	81.91	18.60	53.49	0.00	0.00	0
G2 Genetics	5X-795™	79.47	19.95	51.49	0.00	0.00	0

CHECK 2		75.24	17.80	54.30	4.17	0.09	0
---------	--	-------	-------	-------	------	------	---

	EXPERIMENT MEAN	125.26	19.04	53.69	0.35	0.13	0
	LSD (0.05)	27.73	3.33	3.44	2.65	0.72	0
	CV	14.90	6.65	3.17	372.12	278.64	0
	EFFICIENCY OF LATTICE RELATIVE TO						
	RCBD DESIGN	YES	YES	YES	YES	YES	
EXP 4 OF THE NDSU CORN BREEDING PROGRAM (PROSPER)							
A LATTICE EXPERIMENTAL DESIGN SHOWED MORE EFFICIENCY THAN USING A RCBD FOR ALL TRAITS							
THE EFFICIENCY FOR YIELD WITH LATTICE WAS 127 % OVER RCBD							
Yield losses and barrenness due to drought were present for specific hybrids							