EXP 6 FARGO (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.

North Dakota farmers had the advantage to witness how unstable were corn hybrids in 2011 and 2012 for these traits. While green snap susceptibility was highly present in 2011 hybrids, drought and lodging susceptibility was largely present for 2012 hybrids in farmer fields, especially in southeastern and central east North Dakota.

COMPANY	HYBRID NAME	Grain Yield	Grain Moisture	Test Weight	Stalk Lodging	Root Lodging	Dropped Ears
		bu/A	%	lb/bu	%	%	%
NuTech	5B-290™	116.21	18.07	51.53	34.76	1.62	2.20
Seeds2000	2903 GTCBLL	86.98	16.07	51.23	17.25	0.05	0.01
G2 Genetics	5X-193™	85.61	14.72	55.45	1.30	1.23	0.00
NuTech	5B-9102	85.56	14.33	55.04	0.00	0.36	0.00
Dairyland	DS9487SSX	85.41	15.19	54.49	1.26	0.18	0.00
Proseed	1288 3111GT	84.84	13.27	53.71	9.34	0.00	0.00
NuTech	5N-186™	84.47	11.66	55.95	2.45	0.28	0.00
Seeds2000	2852 GTCBLL	83.83	12.78	56.20	16.24	0.17	0.00
Dyna-Gro	CX23VP35	83.82	13.28	55.88	0.00	1.61	0.03
Stine Seeds	Ex87A 3111GT	83.13	14.33	55.91	3.88	1.42	0.00
Monsanto	DKC38-03	82.30	16.74	56.02	0.00	0.02	0.00
Dyna-Gro	D26VP56	80.89	12.79	58.04	0.00	0.35	0.00
Seeds2000	9202 VT2P	78.24	15.29	53.23	2.81	0.77	0.00
Wensman	W 7110VT3PRO	78.12	16.78	54.97	0.71	2.54	0.00
G2 Genetics	5X-795™	77.67	15.96	52.98	0.49	1.36	0.00
Integra	9390VT2 Pro	77.60	16.86	54.57	0.25	0.21	0.00
Gold Country	85-39VT3P	77.25	12.79	56.56	0.57	1.53	0.00
Proseed	1191 VT3P	76.80	16.52	53.34	0.00	0.90	0.00
Northstar Genetics	90-590	76.63	16.36	53.31	0.00	0.00	0.00
G2 Genetics	5H-890™	76.61	14.06	53.95	3.17	0.24	0.00
Integra	9361VT3	75.46	12.67	54.20	2.36	1.62	0.00

Dyna-Gro	D31VP31	73.47	17.45	53.87	0.00	3.48	0.00
G2 Genetics	5H-587™	72.88	13.66	55.48	2.01	0.00	0.00
Syngenta	N29T-3000GT Brand	72.48	16.11	52.70	6.16	0.07	0.00
Wensman	W 8120VT2RIB	71.97	15.98	53.13	0.00	0.05	0.01
G2 Genetics	5X-9402™	71.28	15.67	52.78	10.46	0.00	0.00
NuTech	3A-8801™	70.21	17.83	55.48	1.97	0.00	0.00
Proseed	990 3000GT	69.50	16.01	51.34	6.90	0.00	0.00
Dyna-Gro	52V01	69.18	12.60	53.54	2.27	1.60	0.00
Renk Seed	RK302GTCBLLRW	68.46	14.85	54.25	16.93	0.00	0.00
Dairyland	DS9291SSX	68.39	17.54	47.87	9.11	4.19	0.00
Dahlman	Dahlman R44-66	68.07	15.19	52.37	0.00	1.73	0.43
Dairyland	DS9992	66.72	14.67	54.12	3.57	0.16	0.01
G2 Genetics	5H-289™	65.99	15.04	55.63	0.00	1.50	0.03
Peterson Farms	PFS 98L90	62.91	17.32	55.25	15.80	0.02	0.00
Peterson Farms	PFS 57H87	62.88	12.23	52.38	0.06	0.08	0.00
Northstar Genetics	90-101	62.48	14.86	51.93	7.26	0.09	0.00
Pioneer Hi-Bred	P8640HR	62.45	11.99	54.88	0.00	0.19	0.00
Proseed	1189 3000GT	62.11	15.83	54.09	0.00	2.52	0.00
Dahlman	Dahlman R43-20VT2P	61.19	11.95	54.78	1.27	0.92	0.00
Seeds2000	8801 VT2P	57.13	13.07	55.87	3.89	0.10	0.00
CHECK 5		57.06	14.17	54.08	29.89	24.74	0.06
Hyland	8180	55.66	13.70	57.62	6.93	0.16	0.00
Hyland	8234	54.70	13.21	53.93	1.77	0.00	0.04
CHECK 4		53.90	10.53	56.68	19.99	11.70	1.25
Syngenta	N21J-3000GT Brand	53.79	16.24	55.80	5.64	0.24	0.00
CHECK 3		52.29	16.95	54.77	5.19	0.00	0.03
CHECK 1		49.64	15.35	59.75	0.00	1.36	0.47
Hyland	8295	48.55	13.96	54.70	12.32	0.00	0.03
Pioneer Hi-Bred	P8906HR	46.52	16.08	49.10	0.00	0.12	0.00
CHECK 7		44.61	15.04	57.05	28.70	0.00	0.03
CHECK 6		42.62	14.53	50.75	17.92	1.82	0.03
Peterson Farms	PFS 74K89	42.48	13.92	51.45	0.85	0.00	0.00
Pioneer Hi-Bred	39N99	40.87	14.60	56.01	1.21	0.00	0.00
Hyland	8166	35.14	13.06	46.65	2.91	0.00	0.00

CHECK 2		31.92	14.06	47.06	15.22	0.10	0.00

	EXPERIMENT MEAN	**67.62**	**14.75**	**54.02**	**5.95**	**1.31**	**0.08**
	LSD (0.05)	**29.47**	**3.25**	**6.44**	**16.23**	**11.25**	**0.69**
	CV	**21.88**	**6.36**	**6.48**	**135.06**	**424.69**	**412.03**
	EFFICIENCY OF LATTICE RELATIVE TO						
	RCBD DESIGN	**YES**	**YES**	**YES**	**YES**	**YES**	
EXP 6 OF THE NDSU CORN BREEDING PROGRAM (FARGO)							
A LATTICE EXPERIMENTAL DESIGN SHOWED MORE EFFICIENCY THAN USING A RCBD FOR ALL TRAITS							
THE EFFICIENCY FOR YIELD WITH LATTICE WAS 156 % OVER RCBD							
Yield losses and barrenness due to extreme drought were present. Lodging and dropped ears were important for certain hybrids.							
Lodging may not have reduced yield in other hybrids as combine harvested what it could collect.							