

2010 ND Experiments Conducted by NDSU Corn Breeding Program (SOUTHERN NORTH DAKOTA REGION)

Company	Hybrid	RM	Grain Yield bu/A	Grain Moisture %	Test Weight lb/bu
Gold Country	98-90 VT3	Not Provided	202.0	27.0	59.4
Gold Country	96-20 VT3	96	202.0	23.6	55.7
G2 Genetics	5H-696 RR/HX	96	198.8	25.3	53.5
G2 Genetics	5H-999 RR/HX	99	196.3	25.8	55.4
Proseed	990 GTCBLL	90	193.8	20.8	54.1
G2 Genetics	5H-700 RR/HX	100	192.5	26.7	54.7
Wensman Seeds	W 7270VT3PRO	97	192.1	22.6	54.6
G2 Genetics	5H-501 RR/HX	100	190.3	29.2	55.6
Monsanto	DEKALB DKC48-37 (VT3)	98	189.2	24.1	55.9
G2 Genetics	5X-500 RR/HXT	100	189.2	23.6	55.5
Seeds 2000	9602 G3	96	186.0	22.7	54.5
NuTech	3T-294 VT3	94	182.2	23.1	56.0
Monsanto	DEKALB DKC42-72 (VT3)	92	181.0	22.5	55.5
G2 Genetics	5H-696A RR/HX	96	180.9	26.4	55.3
NuTech	3T-401 VT3	100	180.8	30.3	55.1
G2 Genetics	5X-598A RR/HXT	98	180.0	26.7	53.6
G2 Genetics	5H-797 RR/HX	97	179.2	24.1	54.8
Gold Country	95-11 VT3	95	178.3	20.7	56.6
NuTech	5N-197A GT/CB/LL/RW	97	177.1	32.0	54.5
NuTech	5N-197 GT/CB/LL/RW	97	177.0	32.8	55.7
Proseed	794 3000GT	94	176.7	23.5	55.4
Monsanto	DEKALB DKC45-52 (GENVT3P)	95	175.8	23.2	55.6
Hyland Seeds	8454	92	174.4	23.3	55.0
Hyland Seeds	HL CVR68	98	173.6	29.4	54.2
G2 Genetics	5X-598 RR/HXT	98	173.3	26.5	52.1
Wensman Seeds	W 6114GTCBLL	92	172.3	20.7	56.9
Pioneer Hi-Bred	Pioneer 38A57	97	171.9	23.3	57.4
Peterson Farm Seeds	PFS 26R92	92	170.4	21.0	54.9
Pioneer Hi-Bred	Pioneer 38M58	94	170.1	23.5	56.2
Wensman Seeds	W 7268VT3	97	169.7	23.8	53.0
Pioneer Hi-Bred	Pioneer 38H08	92	168.4	20.4	53.8
Integra Seeds	9453VT3	94	165.4	25.4	53.0
Peterson Farm Seeds	PFS 98L90	90	163.4	21.0	55.5

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Proseed	E1095 CVT3P	95	162.2	23.3	54.7
Wensman Seeds	W 8262STX	97	161.8	30.4	55.4
Wensman Seeds	W 7143VT3	93	160.1	22.9	55.1
Wensman Seeds	W 7230VT3	96	159.1	23.6	53.5
Wensman Seeds	W 8180STX	95	158.6	27.2	52.8
Seeds 2000	9501 VT3	95	157.3	25.4	52.5
NuTech	5N-695 GT/CB/LL/RW	95	156.9	23.2	55.6
Peterson Farm Seeds	PFS 27V89	89	156.3	22.0	54.4
Proseed	894 VT3	94	156.3	22.8	55.2
Integra Seeds	9422VT3	92	155.1	21.2	56.1
G2 Genetics	5H-597 RR/HX	97	150.6	36.3	55.4
G2 Genetics	5H-992 RR/HX	93	147.4	21.4	51.5
Seeds 2000	X298G3	98	141.7	32.6	53.0
G2 Genetics	5X-895 RR/HXT	95	141.4	26.5	53.4
MEAN			173.2	25.0	54.8
CV			9.6	6.6	2.7
LSD (0.05)			21.3	3.5	2.4

**The same hybrids were planted across three dryland locations within southeastern ND region (Milnor, Barney, and Colfax)
 Growing the same hybrids across locations expose the real advantages and weaknesses of hybrids for traits
 Experiments conducted by the NDSU Corn Breeding Program**

Planting Dates: May 20 (Milnor, ND), May 21 (Barney, ND), and May 27 (Colfax, ND)

Harvest Dates: October 12 (Barney, ND), October 13 (Milnor, ND), and October 16 (Colfax, ND). High yields in Colfax and Barney.

Statistical Analysis Date: 10/18/10

RM = Relative maturity given by Industry. It may not correspond to moisture at harvest

The Lattice experimental design was 12 to 55% more efficient than a Randomized Complete Block Design (RCBD) for most traits

0% Root and Stalk Lodging

Harvested Stand = 32,500 plants/A (Milnor, ND), 34,700 plants/A (Barney, ND), and 34,200 plants/A (Colfax, ND)

No significant differences across hybrids for stand (CV ranged from 4 to 8% across locations)