2016 South Dakota Corn Hybrid Trial Results Beresford

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Location:	6 miles west and 3 miles south of Beresford (57432) in Clay county, SD (GPS: N 43°02.783' W 096°54.125')
Cooperator:	SDSU Southeast Research Farm - Peter Sexton, manager
Soil Type:	Egan-Clarno-Trent silty complex, 0-2% slope, non-irrigated
Fertilizer:	130-0-0 preplant; 30-10-10 starter
Yield Goal:	200 bu/acre
Previous crop:	Soybeans
Tillage:	Conventional
Row spacing:	30 inches
Seeding Rate:	31,400/acre
Herbicide:	Pre: 32 oz Roundup (glyphosate) + 1.33 pt Dual (metolachlor) + 4 oz Metribuzin (metribuzin) + 1 oz Sharpen (saflufenacil) Post: none
Date seeded:	5/6/2016
Date harvested:	10/26/2016

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Table 1. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (107 day maturity or less)** at Beresford, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	**Yield Bu/A (15.5%)**	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Channel	207-27STXRIB	107	**234.7**	17.4	59.5	0.0	28900.0
Nutech/G2 Genetics	5F-504	104	**233.9**	16.9	61.1	0.7	28600.0
Nutech/G2 Genetics	5F-906	106	**230.7**	17.6	60.2	0.0	26300.0
Renk	RK776SSTX	107	**229.6**	17.7	60.0	0.7	28000.0
Heine	790VT2PRORIB	107	**228.1**	17.2	59.2	0.7	27600.0
Hoegemeyer	HPT7606AM	106	**226.6**	17.0	60.6	0.0	26300.0
Great Lakes Hybrids	5470STXRIB	104	**224.9**	15.8	58.9	0.4	28600.0
Nutech/G2 Genetics	5H-806	106	**224.7**	17.0	60.3	0.0	27600.0
Hoegemeyer	HPT7557AM	105	**224.5**	17.2	59.8	0.0	26300.0
Nutech/G2 Genetics	5H-905	105	**224.5**	15.7	56.6	0.3	26300.0
Titan Pro	TP 56-06 3110	106	**224.3**	16.4	58.1	0.0	28200.0
Heine	775STXRIB	107	**223.8**	16.2	59.7	0.0	28200.0
Wensman	W91051STXRIB	105	**223.0**	16.6	59.2	0.0	26700.0
Great Lakes Hybrids	5755STXRIB	107	**222.4**	16.4	60.5	1.1	28000.0
Dyna-Gro Seed	D44VC36RIB	104	**222.1**	17.4	59.6	0.0	27500.0
Great Lakes Hybrids	5029VT2RIB	100	**220.5**	15.9	58.5	0.3	28600.0
Heine	791VT2PRORIB	107	**219.7**	17.9	59.0	1.4	27900.0
Thunder Seed	EXP 6803 VT2P	103	**219.5**	17.7	59.2	0.0	26300.0
Heine	744VT3PRORIB	104	213.5	16.3	59.1	0.3	25500.0
Hoegemeyer	HPT7644AM	106	211.7	16.6	59.6	0.0	26600.0
Heine	755VT2PRO	105	210.8	16.3	58.6	1.1	26700.0
Wensman	W9325STXRIB	102	209.4	15.9	58.7	0.3	27800.0
Masters Choice	MCT 5663	106	209.2	17.5	57.1	0.8	24300.0
Thunder Seed	EXP 7805 SS	105	208.9	15.9	58.9	0.0	27900.0
Wensman	W91073STXRIB	107	207.3	17.2	57.9	0.0	22700.0
Great Lakes Hybrids	4548STXRIB	95	203.9	15.2	60.5	0.0	27600.0
Thunder Seed	7603 SS	103	203.7	15.3	58.4	0.3	28100.0
Masters Choice	MCT 5371	103	201.3	16.1	58.2	0.4	24000.0
Check	Check	99	198.5	15.1	56.4	0.0	25800.0
Masters Choice	MCT 5454	104	198.2	16.3	59.1	1.9	26700.0
Great Lakes Hybrids	4879STXRIB	98	196.2	15.4	58.0	0.0	27600.0
Great Lakes Hybrids	5283STXRIB	102	196.0	15.9	58.0	0.0	27400.0
Stine	9538-20	104	188.3	17.4	60.0	0.8	23000.0
Stine	9529E-20	105	184.9	18.7	60.1	0.0	23100.0
	Trial Average		213.2	16.6	59.2	0.4	26800.0
	LSD (0.05)†		16.2	0.7	1.1	1.1	1100.0
	C.V.‡		5.4	2.7	1.3	-	2.9

* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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Table 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - Late **Season Trial (108 day maturity or more)** at Beresford, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	**Yield Bu/A (15.5%)**	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Nutech/G2 Genetics	5F-308	108	**240.8**	19.8	59.9	0.0	27000
Hoegemeyer	HPT8066AM	110	**236.5**	19.3	60.0	0.0	28000
Channel	209-53STXRIB	109	**230.3**	20.2	59.7	0.4	28200
Heine Seeds	834DGVT2PRO	112	**229.9**	19.9	59.1	0.0	27200
Dyna-Gro Seed	D52SS91RIB	112	**227.7**	22.0	59.1	0.4	26800
Nutech/G2 Genetics	5F-510	110	**226.7**	19.9	60.4	0.0	27200
Renk	RK877DGVT2P	111	225.8	21.7	58.9	0.0	24800
Great Lakes Hybrids	6185STXRIB	111	224.5	18.7	59.1	0.0	26900
Titan Pro	TP 66-10 2P	110	223.9	19.3	58.7	0.0	24700
Renk	RK871VT2P	111	223.7	21.2	59.0	0.0	23800
Nutech/G2 Genetics	5F-709	109	222.3	19.9	58.3	0.4	25300
Titan Pro	TP 59-08 SS	108	222.2	17.9	59.7	0.0	25600
Great Lakes Hybrids	6462STXRIB	114	218.0	21.7	60.3	0.4	26600
Renk	RK810SSTX	110	217.3	19.5	58.9	0.4	28400
Channel	209-44VT2PRIB	109	216.5	19.4	58.4	0.4	25200
Great Lakes Hybrids	5824STXRIB	108	215.1	18.5	61.2	0.4	25900
Dyna-Gro Seed	D49VC39RIB	109	215.1	19.4	59.8	0.0	25000
Titan Pro	TP 55-11 2P	111	212.9	20.2	58.9	0.0	25000
Wensman	W91095STXRIB	109	203.5	18.5	60.5	0.0	27000
Channel	211-35STXRIB	111	202.6	21.8	59.9	0.4	26600
Renk	RK792SSTX	108	198.7	18.0	59.2	0.0	25200
Great Lakes Hybrids	5944STXRIB	109	193.9	19.3	58.2	0.0	21500
Check	Check	99	189.9	15.4	58.6	0.0	25800
Wensman	W91112STXRIB	111	189.8	19.3	59.6	0.0	21500
	Trial Average		215.1	19.3	59.3	0.1	25900
	LSD (0.05)†		14.6	0.8	0.8	0.6	919
	C.V.‡		4.8	2.9	1.0	-	2.5

* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.