



2018 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
Cooperator:	SDSU Southeast Research Farm - Peter Sexton, manager
Soil Type:	Egan-Trent silty clay loams, 0-2% slope, non-irrigated
Fertilizer:	30-10-10 starter + 160-0-0 as UAN broadcast preemerge
Yield Goal:	200 bu/acre
Previous crop:	Soybeans
Tillage:	No-till
Row spacing:	30 inches
Seeding Rate:	31,400/acre
Herbicide:	Pre: 32 oz Roundup (glyphosate) + 1.33 pt Dual (metolachlor) + 4 oz Sencor (metribuzin) + 1 oz Sharpen (saflufenacil) Post: 12 oz Atrazine + 3 oz Callisto (mesotrione) + 1% COC + UAN 2.5% V/V
Date seeded:	5/10/2018
Date harvested:	11/2/2018
Notes:	Trial location was extremely wet during the 2018 growing season. Please pay attention to final stand when evaluating hybrid performance.

Table 1. Glyphosate-resistant corn hybrid 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	243.3	16.3	59.2	0.0	28600
Nutech/G2 Genetics	5VN-4707	107	237.0	15.4	59.9	5.1	27400
Heine Seeds	7500VT2PRO	105	232.6	14.2	59.9	2.4	26900
Heine Seeds	752VT2PRORIB	105	229.9	14.0	58.7	1.9	28700
LG Seeds	LG5525VT2RIB	105	229.6	15.6	59.2	0.5	24000
Check	CHECK	101	229.1	14.1	59.6	6.9	28200
Hoegemeyer	HPT 7434 AM	104	226.7	14.8	58.9	4.7	27800
Hoegemeyer	HPT 7607 AMX	106	226.3	16.0	59.2	9.1	28500
Nutech/G2 Genetics	E5FN-A604	104	219.9	15.5	58.5	1.2	27900
Hoegemeyer	HPT 7557 AM	105	219.4	15.7	60.7	1.5	28100
Heine Seeds	7600VT2PRO	106	219.4	15.4	59.4	2.5	27300
Channel	206-11STXRIB	106	214.5	14.0	58.4	0.8	26500
Masters Choice	MCT5371	103	213.6	15.0	59.4	0.5	24900
Heine Seeds	739VT2PRORIB	102	213.4	14.9	59.8	1.7	27100
Dairyland Seed	DS-7603PE	103	209.4	16.2	57.5	6.7	26400
LG Seeds	LG53C50STXRIB	103	199.6	14.8	59.7	7.8	24800
Channel	204-74VT2PRIB	104	195.0	14.0	60.1	2.5	23600
Heine Seeds	740VT2PRORIB	103	194.3	13.9	59.4	1.9	20700
Dairyland Seed	DS-9804RA	104	191.4	14.2	57.8	9.2	26900
Hoegemeyer	HPT 7480 AM	104	191.3	15.9	60.1	3.9	24400
Masters Choice	MCT5454	104	158.1	15.4	59.0	0.5	16200
Trial Average			215.5	14.9	59.3	3.4	26100
LSD (0.05)†			35.8	0.8	0.9	4.6	3300
C.V.‡			10.1	3.9	1.1	-	8.9

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

† Yield or moisture value required (\geq 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.

Table 2. Glyphosate-resistant corn hybrid 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)
Heine Seeds	823VT2PRORIB	111	229.3	18.3	58.3	0.5	26700
Hoegemeyer	HPT 7900 AM	108	219.3	17.0	58.1	0.5	23900
Hoegemeyer	HPT 8217 AM	112	218.3	17.6	58.8	1.7	26500
Hoegemeyer	HPT 7886 AM	108	213.4	16.8	57.8	1.3	24000
LG Seeds	LG5565STXRIB	108	211.9	16.5	61.5	0.4	23400
Check	CHECK	101	209.9	14.7	58.1	2.8	24300
Dairyland Seed	DS-9508RA	108	209.5	16.4	57.8	0.9	26700
Hoegemeyer	HPT 8326 AM	113	208.7	18.0	57.8	2.1	22700
Channel	210-79STXRIB	110	205.8	16.9	60.7	0.4	25900
Heine Seeds	831VT2PRO	112	204.6	16.9	59.6	1.1	26800
Channel	208-23VT2PRIB	108	197.7	16.6	57.9	1.7	22400
Channel	209-15STXRIB	109	195.7	16.5	58.9	1.3	23700
Hoegemeyer	HPT 7946 AM	109	187.3	18.0	59.0	0.5	24500
Hoegemeyer	HPT 8066 AM	109	174.9	17.3	60.0	1.0	23300
Trial Average			206.2	16.6	58.9	1.1	24800
LSD (0.05)†			25.0	1.0	1.1	3.2	5000
C.V.‡			7.3	4.2	1.3		11.6

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

† Yield or moisture value required (\geq 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.