



# 2018 South Dakota Conventional Corn Hybrid Trial Results Beresford

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<b>Location:</b>	6 miles west and 3 miles south of Beresford (57432) in Clay county, SD
<b>Cooperator:</b>	SDSU Southeast Research Farm - Peter Sexton, manager
<b>Soil Type:</b>	Egan-Trent silty clay loams, 0-2% slope, non-irrigated
<b>Fertilizer:</b>	30-10-10 starter + 160-0-0 as UAN broadcast preemerge
<b>Yield Goal:</b>	200 bu/acre
<b>Previous crop:</b>	Soybeans
<b>Tillage:</b>	No-till
<b>Row spacing:</b>	30 inches
<b>Seeding Rate:</b>	31,400/acre
<b>Herbicide:</b>	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
<b>Date seeded:</b>	5/10/2018
<b>Date harvested:</b>	11/2/2018

Table 1. Conventional 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)
Viking Seed	42-05	105	<b>244.0</b>	15.4	61.7	2.9	29600
Miller Hybrids	MO6-27	106	<b>243.9</b>	14.8	59.2	5.4	28100
Federal Hybrids	5550 CONV	105	<b>234.2</b>	15.4	61.4	5.4	26800
Check	CHECK	101	<b>234.1</b>	14.6	61.3	2.2	29500
Federal Hybrids	4770 CONV	97	<b>232.3</b>	14.0	60.4	4.5	28900
Federal Hybrids	5060 CONV	100	<b>231.6</b>	14.7	61.7	1.5	29600
Hoegemeyer	HPT 7555	105	<b>231.5</b>	15.6	59.8	1.5	28400
Masters Choice	MC5790	107	<b>227.9</b>	17.2	60.6	1.7	25200
Federal Hybrids	4780 CONV	97	227.0	13.3	59.5	5.3	29000
Miller Hybrids	M06-39	106	220.6	13.8	60.8	4.7	28000
Federal Hybrids	4440 CONV	94	212.5	14.4	61.6	7.8	27900
<b>Trial Average</b>			230.9	14.8	60.7	3.9	28300
<b>LSD (0.05)†</b>			16.7	1.4	0.9	2.7	900
<b>C.V.‡</b>			5.0	4.5	1.0	-	2.3

\* 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. Conventional 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)
Viking Seed	48-08	108	<b>244.4</b>	16.0	59.4	0.7	29200
Miller Hybrids	M66-23	110	<b>240.9</b>	16.1	58.2	7.0	29500
Hoegemeyer	HPT 7945	109	<b>236.6</b>	16.6	60.7	9.9	25500
Check	CHECK	101	<b>233.9</b>	13.9	60.3	2.6	28100
Miller Hybrids	M09-01	110	<b>233.5</b>	16.2	58.0	5.4	26200
Hoegemeyer	HPT 8064	110	<b>227.4</b>	16.6	59.4	1.6	27600
Miller Hybrids	M08-68	108	<b>224.1</b>	16.7	60.0	8.9	25600
<b>Trial Average</b>			234.3	16.0	59.4	5.3	27400
<b>LSD (0.05)†</b>			21.9	0.6	0.9	4.0	1000
<b>C.V.‡</b>			6.1	2.3	1.0	-	2.3

\* 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.