



# 2018 South Dakota Conventional Corn Hybrid Trial Results South Shore

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<b>Location:</b>	8.5 miles west of South Shore (57263) in Codington County, SD GPS: 45.105915°, -97.100187°
<b>Cooperator:</b>	SDSU Northeast Research Farm - Allen Heuer, manager
<b>Soil Type:</b>	Kranzburg-Brookings silty clay loams, 0-2% slope
<b>Fertilizer:</b>	30-10-10 starter + 200-0-0-5S-10Z preplant
<b>Yield Goal:</b>	200 bu/acre
<b>Previous crop:</b>	Soybeans
<b>Tillage:</b>	Conventional
<b>Row spacing:</b>	30 inches
<b>Seeding Rate:</b>	31,400/acre
<b>Herbicide:</b>	Pre: 1.8 pt Dual II Magnum (s-metolachlor) Post: 1 pt Buctril (bromoxynil)
<b>Date seeded:</b>	5/14/2018
<b>Date harvested:</b>	10/31/2018

Table 1. Conventional corn hybrid performance results (average of 4 replications - **Early Season Trial** (95 day maturity or less) at South Shore, SD.

Variety Information		Agronomic Performance					
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture	Test Wt. (lbs/bu)	Lodging (%)	Final Stand (plants/A)
Federal Hybrids	4440 CONV	94	<b>283.5</b>	18.9	59.2	0.0	29600
Check	CHECK	101	<b>276.6</b>	19.5	57.2	0.0	29900
Thunder Seed	2893	93	258.4	17.6	57.8	0.0	29900
Proseed	1694	94	258.3	18.0	57.1	0.0	29700
Miller Hybrids	M92-42	92	251.8	18.2	58.1	0.0	29600
Proseed	1395	95	251.8	18.9	59.2	0.0	28000
Thunder Seed	3595	95	249.2	19.2	59.5	0.0	27100
Viking Seed	74-93	93	246.1	17.4	59.2	0.0	28900
Proseed	1689	89	244.9	17.1	59.6	0.0	29500
Miller Hybrids	M93-85A	93	236.0	17.5	59.1	0.4	28000
Proseed	1191	91	226.8	16.2	58.6	0.0	29400
<b>Trial Average</b>			253.0	18.0	58.6	0.0	29100
<b>LSD (0.05)†</b>			14.2	1.1	0.9	0.3	1000
<b>C.V.‡</b>			3.9	4.2	1.0	-	2.5

\* 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** (96 day maturity or more) at South Shore, SD.

Variety Information		Agronomic Performance					
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture	Test Wt. (lbs/bu)	Lodging (%)	Final Stand (plants/A)
Hoegemeyer	HPT 7086	100	<b>284.8</b>	19.9	58.3	0.0	28500
Hoegemeyer	HPT 7165	101	<b>280.2</b>	19.3	58.1	0.0	29400
Check	CHECK	101	<b>278.6</b>	21.0	58.0	0.0	30200
Viking Seed	46-96	96	<b>277.9</b>	19.5	56.7	0.0	29200
Viking Seed	44-98	98	<b>277.2</b>	20.4	56.3	0.0	29100
Proseed	1797	97	<b>275.6</b>	20.6	56.2	0.0	29100
Federal Hybrids	4770 CONV	97	<b>275.5</b>	20.2	56.8	0.4	30100
Miller Hybrids	M98-70	98	<b>272.7</b>	20.1	56.8	0.0	29600
Federal Hybrids	4780 CONV	97	<b>271.4</b>	19.1	57.4	0.0	29500
Miller Hybrids	RX0961	96	269.9	19.6	58.1	0.0	29000
Federal Hybrids	5060 CONV	100	269.2	20.3	58.4	0.0	28600
Hoegemeyer	HPT 6618	96	262.5	18.8	57.2	0.0	29100
<b>Trial Average</b>			274.6	19.9	57.4	0.0	29300
<b>LSD (0.05)†</b>			13.4	0.9	0.9	0.3	800
<b>C.V.‡</b>			3.4	3.0	1.0	-	1.9

\* 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.