



# 2018 South Dakota Conventional Corn Hybrid Trial Results Volga

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<b>Location:</b>	1.5 miles south of Volga (57101) in Brookings County, SD GPS: 44.298788°, -96.925979°
<b>Cooperator:</b>	SDSU Volga Research Farm - Jack Ingemansen, manager
<b>Soil Type:</b>	Brandt silty clay loam, 0-2% slope
<b>Fertilizer:</b>	30-10-10 starter + 180-40-40-8S 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 Staunch II (acetochlor + flumetsulam + clopyralid) Post: 1 pt Buctril (bromoxynil)
<b>Date seeded:</b>	5/14/2018
<b>Date harvested:</b>	11/1/2018

Table 1. Conventional corn hybrid performance results (average of 4 replications - **Early Season Trial** (100 day maturity or less) at Volga, 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>273.5</b>	16.4	58.2	0.0	29800
Federal Hybrids	4780 CONV	97	<b>270.2</b>	16.3	58.8	0.0	28700
Miller Hybrids	M00-49	100	<b>269.9</b>	18.9	60.7	0.0	28500
Hoegemeyer	HPT 6618	96	<b>269.6</b>	15.8	57.5	0.0	29400
Check	CHECK	101	<b>269.5</b>	16.7	58.7	0.0	29700
Federal Hybrids	4770 CONV	97	<b>265.0</b>	15.8	58.6	0.0	29500
Viking Seed	44-98	98	<b>264.2</b>	15.4	58.5	0.0	28400
Federal Hybrids	5060 CONV	100	260.8	16.5	59.6	0.0	27800
Miller Hybrids	M98-70	98	260.3	16.1	60.8	0.0	28900
Proseed	1797	97	259.9	15.9	59.0	0.0	29300
Thunder Seed	2893	93	255.3	15.2	58.6	0.4	29700
Federal Hybrids	4440 CONV	94	254.1	15.5	58.6	0.4	29000
Proseed	1694	94	253.4	15.1	59.2	0.0	27400
Proseed	1395	95	249.0	15.5	58.4	0.0	28400
Thunder Seed	3595	95	243.7	15.3	60.3	0.0	27300
<b>Trial Average</b>			261.0	16.0	59.0	0.1	28800
<b>LSD (0.05)†</b>			10.6	0.5	0.9	0.4	800
<b>C.V.‡</b>			2.9	2.2	1.1	-	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.

Table 2. Conventional corn hybrid performance results (average of 4 replications - **Late Season Trial** (101 day maturity or more) at Volga, 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	5550 CONV	105	<b>273.8</b>	18.8	59.2	0.0	28900
Miller Hybrids	M03-33	103	<b>271.9</b>	17.3	57.6	0.0	29400
Miller Hybrids	M05-54	105	<b>269.2</b>	17.7	58.3	0.0	29000
Viking Seed	55-02	102	<b>266.6</b>	18.9	60.7	0.0	29100
Check	CHECK	101	<b>265.5</b>	16.7	59.7	0.0	29400
Viking Seed	42-05	105	<b>265.3</b>	19.4	58.6	0.0	28900
Hoegemeyer	HPT 7165	101	256.5	16.4	60.9	0.0	28300
Masters Choice	MC5790	107	254.1	21.9	57.0	0.0	27200
<b>Trial Average</b>			265.3	18.4	59.0	0.0	28800
<b>LSD (0.05)†</b>			10.8	0.8	0.9	-	800
<b>C.V.‡</b>			2.8	2.9	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.