



# 2018 South Dakota Corn Hybrid Trial Results Volga

Jonathan Kleinjan | SDSU Extension Crop Production Associate

Kevin Kirby | Agricultural Research Manager

Shawn Hawks | Agricultural Research Manager

<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: 32 oz Roundup PowerMax (glyphosate)
<b>Date seeded:</b>	5/14/2018
<b>Date harvested:</b>	11/1/2018

Table 1a. Glyphosate-resistant 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)
Federal Hybrids	4990 VT2P	99	<b>280.5</b>	16.0	59.7	0.0	29700
Hoegemeyer	HPT 6620 AM	96	<b>277.0</b>	15.4	58.8	0.4	29700
Thunder Seed	6999 VT2P	99	<b>274.5</b>	15.8	60.0	0.7	29800
Heine Seeds	638DGV2PRORIB	98	<b>273.8</b>	15.9	57.8	0.0	29500
Dairyland Seed	RPM-3715AM	96	<b>272.6</b>	15.6	56.3	0.4	28200
Heine Seeds	7000VT2PRO	100	<b>272.0</b>	16.2	60.4	0.0	29900
Dairyland Seed	EXP-090804	98	<b>271.6</b>	13.8	56.1	0.8	29600
Heine Seeds	6360VT2PRO	97	<b>270.3</b>	15.7	59.6	0.0	29300
Check	CHECK	101	269.0	16.2	59.2	0.0	29700
Thunder Seed	6996 VT2P	96	266.9	16.1	59.2	0.0	29700
Heine Seeds	6200VT2PRORIB	95	266.8	16.1	59.6	0.0	29800
Hoegemeyer	HPT 6813 AM	98	266.3	15.6	57.3	0.8	29100
Peterson Farms Seed	72D00	100	265.7	15.3	58.9	0.0	29000
Thunder Seed	7800 DGV2P	100	265.6	15.5	58.9	0.0	28900
Federal Hybrids	4780 VT2P	97	265.5	16.4	58.5	0.0	29000
Federal Hybrids	4580 VT2P RIB	95	265.4	15.8	59.1	0.0	29000
LG Seeds	LG5465VT2RIB	97	265.2	15.8	60.0	0.0	30600
Federal Hybrids	4880 VT2P RIB	98	264.6	15.2	58.6	0.0	28300
Federal Hybrids	4680 VT2P RIB	96	263.1	15.9	60.3	0.4	29700
Hoegemeyer	HPT 7088 AM	100	263.1	16.5	59.3	0.4	28500
Federal Hybrids	5060 SS RIB	100	262.7	16.5	59.5	0.0	27600
Channel	197-90VT2PRIB	97	262.7	15.6	59.5	0.0	28900
Dairyland Seed	DS-9599	99	262.3	15.6	57.5	1.2	28300
Dairyland Seed	RPM-4019AM	99	262.1	15.4	57.6	0.4	28700
LG Seeds	LG5505STXRIB	100	260.9	16.2	60.0	0.0	29300
Channel	194-49DGV2PRIB	94	260.5	16.0	59.1	0.0	28400
LG Seeds	LG5494VT2RIB	99	258.8	15.6	59.2	0.0	28300
Federal Hybrids	4990 SS	99	256.9	16.1	60.7	0.0	28600
Dairyland Seed	RPM-3519AM	96	256.8	16.2	61.3	0.8	28400
Sun Prairie	SP1927	95	255.2	15.0	57.4	0.0	29200
<b>Trial Average</b>			261.3	15.8	58.9	0.2	28900
<b>LSD (0.05)†</b>			10.8	0.6	0.9	0.6	800
<b>C.V.‡</b>			3.0	2.7	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.

Table 1b. Glyphosate-resistant corn hybrid performance results, continued (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 6782 AM	97	253.1	16.1	60.9	0.0	28100
Masters Choice	MCT4572	95	253.0	16.2	58.4	0.0	27100
Sun Prairie	SP1970	94	252.6	15.9	59.0	0.0	29500
Federal Hybrids	4560 VT2P RIB	95	250.5	15.2	59.3	0.0	29200
Heine Seeds	6250VT2PRO	96	250.4	16.5	58.6	0.0	26400
Federal Hybrids	4770 VT2P RIB	97	250.2	15.7	58.9	0.0	29200
Masters Choice	MCT4632	96	244.8	16.3	58.9	1.5	28700
Federal Hybrids	4760 VT2P RIB	97	243.7	15.1	58.4	0.4	28600
Masters Choice	MCT4934	99	240.4	15.9	58.0	0.0	25600
Thunder Seed	6798 VT2P	98	233.7	15.3	57.6	0.4	28900
<b>Trial Average</b>			261.3	15.8	58.9	0.2	28900
<b>LSD (0.05)†</b>			10.8	0.6	0.9	0.6	800
<b>C.V.‡</b>			3.0	2.7	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.

Table 2. Glyphosate-resistant 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)
Hoegemeyer	HPT 7434 AM	104	<b>286.0</b>	17.8	56.7	0.0	29000
Dairyland Seed	RPM-4329AM	104	<b>278.9</b>	18.4	57.4	0.4	29000
Dairyland Seed	DS-7603PE	103	<b>278.5</b>	18.7	56.9	0.4	28600
Heine Seeds	7500VT2PRO	105	<b>277.8</b>	17.1	59.1	0.0	29200
Channel	204-74VT2PRIB	104	<b>276.1</b>	16.0	59.0	0.0	28600
Dairyland Seed	DS-9804RA	104	<b>274.4</b>	17.5	57.3	0.0	28500
Heine Seeds	752VT2PRORIB	105	273.3	17.0	59.4	0.0	28300
Check	CHECK	101	270.6	16.1	58.7	0.8	29300
Dairyland Seed	RPM-4318AM	104	266.6	17.0	59.4	0.0	28200
Dairyland Seed	DS-7101	101	264.1	16.6	59.2	0.0	28700
Proseed	18105 SS	105	263.8	18.0	60.4	0.4	28100
Channel	201-28VT2PRIB	101	263.6	15.2	59.5	0.0	28400
Thunder Seed	8905 SS	105	263.6	17.9	59.7	0.0	29400
Channel	201-05DGV2PRIB	101	263.2	15.8	56.6	0.0	28300
Dairyland Seed	RPM-4018AM	101	261.6	16.7	59.3	0.4	27300
Dairyland Seed	RPM-4319AM	104	260.9	16.7	58.8	0.0	24900
Dairyland Seed	DS-7802PE	102	260.0	17.1	58.6	0.0	28500
Proseed	17102 SS	102	259.5	16.6	59.5	0.0	28200
Hoegemeyer	HPT 7166 AM	101	259.1	16.7	59.7	0.0	28100
LG Seeds	LG52C18STXRIB	102	258.1	15.9	58.2	1.2	29200
Peterson Farms Seed	88B03	103	256.8	17.1	58.5	0.0	27400
Federal Hybrids	5280 SS RIB	102	256.5	17.5	59.0	0.0	28600
Proseed	16101 SS	101	255.3	16.1	58.9	0.0	29600
Heine Seeds	739VT2PRORIB	102	253.5	16.1	58.6	0.0	26700
Heine Seeds	740VT2PRORIB	103	252.5	16.6	57.9	0.0	24000
Thunder Seed	8902 SS	102	247.3	17.0	60.4	0.0	27200
LG Seeds	LG5502VT2RIB	103	246.7	16.2	57.5	0.4	28200
Proseed	17103 SS	103	245.6	17.7	59.4	0.0	26200
Sun Prairie	SP2272	101	242.3	16.8	61.2	0.0	28700
Masters Choice	MCT5371	103	241.7	16.7	59.1	0.4	26400
Peterson Farms Seed	81W01	101	235.7	16.3	59.0	0.0	26700
Masters Choice	MCT5454	104	229.1	18.0	58.4	0.9	26200
<b>Trial Average</b>			260.3	16.9	58.8	0.2	28000
<b>LSD (0.05)†</b>			12.4	0.5	1.0	0.8	1600
<b>C.V.‡</b>			3.4	2.4	1.2	-	4.1

\* 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.