



# 2019 South Dakota 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:45.106938 -97.098725)
<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>	80 lb/acre 30-10-10 starter + 200-0-0-5S-10Z broadcast 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>	32,000/acre
<b>Herbicide:</b>	Pre: 1.2 qt/acre Harness Xtra (acetochlor + atrazine) Post: 1 qt/acre Roundup (glyphosate)
<b>Date seeded:</b>	5/14/2019
<b>Date harvested:</b>	11/8/2019

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

Hybrid Information		Agronomic Performance					
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture	Test Wt. (lbs/bu)	Lodging (%)	Final Stand (plants/A)
Dairyland Seed	DS-3550AM	95	<b>262.5</b>	24.6	50.4	23.8	28500
Renk Seed	RK561DGVT2P	95	<b>258.6</b>	24.5	52.2	4.7	30300
Channel	194-49DGVT2PRIB	94	<b>258.1</b>	25.5	51.3	0.3	32700
LG Seeds	LG44C27VT2RIB	94	<b>256.7</b>	24.4	51.6	1.1	31400
Peterson Farms Seed	79N94	94	<b>255.2</b>	24.8	49.8	0.7	33800
Federal Hybrids	4300 VT2P	93	<b>253.5</b>	24.7	51.2	0.4	32500
Federal Hybrids	4580 VT2P RIB	95	<b>253.4</b>	27.3	50.9	2.2	30100
Thunder Seed	6094 VT2P	94	<b>252.1</b>	23.4	52.3	2.4	32800
LG Seeds	LG44C47VT2RIB	94	247.6	24.8	51.5	0.3	33000
Federal Hybrids	4160 VT2P RIB	91	246.4	23.0	51.9	1.0	32800
Thunder Seed	6993 VT2P	93	246.0	24.7	51.3	4.6	31000
Federal Hybrids	4185 VT2P RIB	91	244.4	23.3	51.6	5.3	33200
Check	CHECK	100	244.2	29.5	51.1	1.3	32700
Federal Hybrids	4190 VT2P RIB	91	241.9	23.5	51.6	1.1	31600
Thunder Seed	6791 VT2P	91	241.5	23.3	51.2	1.1	31700
Thunder Seed	6992 VT2P	92	240.1	23.5	51.7	1.1	29900
Peterson Farms Seed	78G95	95	237.1	28.8	50.5	0.0	29500
Peterson Farms Seed	76S92	92	236.8	24.2	52.6	0.0	30600
Thunder Seed	6595 VT2P	95	233.3	29.1	50.1	2.5	30500
Renk Seed	RK433VT2P	92	225.2	24.3	51.6	0.4	28900
<b>Trial Average</b>			246.7	25.0	51.3	2.7	31400
<b>LSD (0.05)†</b>			9.2	1.0	0.9	2.1	1300
<b>C.V.‡</b>			2.6	2.9	1.3	-	3.0

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

Hybrid Information		Agronomic Performance					
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture	Test Wt. (lbs/bu)	Lodging (%)	Final Stand (plants/A)
Dairyland Seed	DS-3519AM	96	<b>250.2</b>	24.0	54.4	3.6	30600
LG Seeds	LG46C73VT2RIB	96	<b>248.1</b>	27.3	50.7	1.4	30600
Renk Seed	RK579DGV2P	98	<b>244.9</b>	28.2	50.6	1.4	32300
Federal Hyrbids	4770 VT2P RIB	97	<b>244.8</b>	27.9	50.5	0.4	30100
LG Seeds	LG5465VT2RIB	97	<b>244.3</b>	27.4	51.6	0.0	33400
Thunder Seed	6098 VT2P	98	<b>243.1</b>	28.9	51.3	0.4	31700
Dairyland Seed	DS-3715AM	97	<b>242.7</b>	24.5	51.1	3.1	31700
Channel	197-90VT2PRIB	97	<b>242.2</b>	24.8	50.8	0.0	31700
Thunder Seed	6996 VT2P	96	<b>241.5</b>	28.1	51.1	0.7	33000
Renk Seed	RK593VT2P	96	237.6	24.5	51.6	0.0	32300
Thunder Seed	6999 VT2P	99	237.4	25.2	51.9	1.0	32100
Federal Hyrbids	4680 VT2P RIB	96	237.3	28.5	49.9	0.4	31000
Federal Hyrbids	5280 SS RIB	102	236.7	32.1	51.4	0.3	33500
Peterson Farms Seed	76Y96	96	236.5	27.8	50.8	0.4	32000
Federal Hyrbids	4800 VT2P RIB	98	234.5	26.0	51.3	0.4	32000
Check	CHECK	100	234.5	28.8	50.6	1.0	33400
Federal Hyrbids	4780 VT2P RIB	97	234.4	29.4	51.3	0.0	33400
Thunder Seed	EXC 19-97	97	231.6	29.2	50.6	1.1	31300
Federal Hyrbids	4990 VT2P RIB	99	228.0	32.6	51.3	1.0	33000
Channel	201-67STXRIB	101	227.5	35.4	51.5	1.0	32900
Peterson Farms Seed	78B98	98	226.0	27.8	50.3	0.8	28100
Federal Hyrbids	4999 SS RIB	99	219.2	26.7	50.8	0.3	33300
Dairyland Seed	DS-4018AM	101	216.5	31.9	49.5	3.5	30900
Federal Hyrbids	4805 SS	98	214.9	36.5	49.4	0.7	31500
<b>Trial Average</b>			235.6	28.5	51.0	0.9	31900
<b>LSD (0.05)†</b>			9.8	1.4	1.1	1.4	1300
<b>C.V.‡</b>			2.9	3.4	1.5	-	2.8

\* 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.