South Dakota State University
College of Agriculture, Food and Environmental Sciences

South Dakota State University Extension
South Dakota Agricultural Experiment Station at SDSU

2021 South Dakota Corn Hybrid Trial Results Mount Vernon

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Location:	1 mile north and 5 miles west of Mount Vernon (57363) in Aurora County, SD. 43.734634°, -98.366202°
Cooperator:	Edinger Bros.
Soil Type:	Houdek-Prosper loams, 0-2% slopes
Fertilizer:	100 lb/acre 30-10-10 starter + 140-25-0-10S
Yield Goal:	200 bu/acre
Previous crop:	winter wheat
Tillage:	no-till
Row spacing:	30 inches
Seeding Rate:	32,000/acre
Herbicide:	Pre: none Post: 24 oz/acre glyphosate + 28 oz/acre metolachlor +3 oz/acre mesotrione + 28 oz/acre atrazine
Date seeded:	4/28/21
Date harvested:	10/18/21
Notes:	This location had higher than normal variability due to lodging caused by stalk cannibalization. Please note the lodging scores when interpreting the trial results.

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Table 1a. Glyphosate-resistant corn hybrid performance results (average of four replications - **Early Season Trial** (102 day maturity or less) at Mount Vernon, South Dakota.

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-3959AM	99	**179.0**	13.2	57.5	10.4	28800
Hoegemeyer	HPT 7209 AM	102	**168.2**	12.6	58.0	25.7	31200
Hoegemeyer	HPT 7027 AM	100	**160.1**	12.8	57.4	16.3	29600
Dairyland Seed	DS-3727AM	97	**159.1**	13.2	59.3	23.9	28400
Farmer Check	LG5465	97	152.4	13.3	57.7	25.4	29700
Farmer Check	P0075	100	150.7	13.6	57.3	13.1	30300
Thunder Seed	T6902 VT2P	102	150.6	13.3	57.6	5.1	28300
Dairyland Seed	DS-4014Q	100	148.4	13.1	56.4	11.5	29900
Check	DKC48-95RIB	98	144.9	12.7	59.4	20.6	30100
Thunder Seed	T6100 VT2P	100	144.4	13.0	57.8	34.6	31900
Dairyland Seed	DS-3550AM	95	136.2	13.1	56.3	37.7	29900
BH Genetics	BH 6218VT2PRIB	92	123.8	12.3	57.0	18.2	30400
Peterson Farms Seed	73P01	101	121.6	13.4	57.4	27.9	29700
	Trial Average		149.2	13.0	57.6	20.8	29900
	LSD (0.05)†		22.9	0.3	1.0	-	1800
	C.V.‡		10.7	3.4	1.2	-	-

***** Lodging percentage - stalks broken below the ear as a percentage of the final stand.
† Yield or moisture value required (≥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.

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Table 2. Glyphosate-resistant corn hybrid performance results (average of four replications - **Late Season Trial** (103 day maturity or more) at Mount Vernon, South Dakota.

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-4917AM	109	**164.9**	14.7	59.5	11.0	26300
Dairyland Seed	DS-4310AM	103	**156.8**	14.0	59.1	22.6	30400
Renk	RK782VT2P	109	**153.1**	16.6	58.2	22.5	29300
Farmer Check	LG5525	105	**149.6**	13.4	59.2	8.8	30800
Renk	RK710DGVT2P	107	**148.8**	13.9	57.6	11.7	30200
Dairyland Seed	DS-4910AML	109	**148.4**	13.9	60.0	44.5	31200
Dairyland Seed	DS-4329AM	105	**146.4**	14.2	57.7	20.2	29300
Hoegemeyer	HPT 7322 AML	103	**144.6**	12.9	58.0	32.5	30300
Dairyland Seed	DS-4510Q	105	**143.2**	13.2	58.6	26.7	30600
Check	DKC48-95RIB	98	**140.2**	12.7	59.3	14.4	29100
Thunder Seed	T6204 VT2P	104	133.0	13.4	56.1	38.5	29700
Thunder Seed	T6004 VT2P	104	132.1	12.9	56.5	32.2	28900
Farmer Check	P0421Q	104	129.7	13.3	57.5	64.3	30300
Peterson Farms Seed	74H04	104	123.4	13.2	57.2	24.3	29600
Renk	RK625DGVT2P	104	114.6	13.3	56.2	76.5	31200
	Trial Average		141.9	13.7	58.0	30.0	29800
	LSD (0.05)†		30.7	1.3	1.4	-	1900
	C.V.‡		15.2	6.8	1.7	-	-

* Lodging percentage - stalks broken below the ear as a percentage of the final stand.
† Yield or moisture value required (≥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.