



2020 South Dakota Corn Hybrid Trial Results Mt. Vernon

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Location:	3 miles north and one mile west of Mt. Vernon (57363) in Davison County, SD. (GPS: 43.799037°, -98.285571°)
Cooperator:	Edinger Bros.
Soil Type:	Houdek-Prosper loams, 0-2% slopes
Fertilizer:	100 lb/acre 30-10-10 + 140-40-0-15S fall-applied + 46-0-0 applied at V10
Yield Goal:	200 bu/acre
Previous crop:	soybeans
Tillage:	minimum-till
Row spacing:	30 inches
Seeding Rate:	33,000/acre
Herbicide:	Pre: 1.6 oz/acre metribuzin + 3 oz/acre Callisto (mesotrione) + 0.9 lb/acre atrazine + Post: 22 oz/acre glyphosate
Date seeded:	5/29/2020
Date harvested:	11/3/2020

Table 1. Glyphosate-resistant corn hybrid performance results (average of 4 replications - **Early Season Trial** (102 day maturity or less) at Mt. Vernon, SD.

Hybrid Information		Agronomic Performance					
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture	Test Wt. (lbs/bu)	Lodging (%)	Final Stand (plants/A)
Farmer Check 1	199-60TRERIB	99	245.5	13.7	60.1	0.0	32200
Channel	199-60TRERIB	99	243.7	13.6	61.0	0.3	32000
Dairyland Seed	DS-4014Q	100	238.9	12.0	58.6	0.0	31700
Dairyland Seed	DS-3550AM	95	238.8	12.1	58.2	0.3	32100
Dairyland Seed	DS-4018AM	100	238.0	14.2	60.1	0.0	31400
Channel	200-67VT2PRIB	100	237.3	14.9	60.9	0.0	30900
Farmer Check 2	P0075AM	100	236.4	14.0	59.8	0.0	29500
Dairyland Seed	DS-3810Q	98	236.3	12.4	58.2	0.0	31300
Hoegemeyer	HPT 7209 AM	102	232.8	14.9	59.7	0.0	29600
Peterson Farms Seed	73P01	101	229.8	13.1	60.6	0.3	32300
Renk Seed	RK695GTCBLLBL	102	229.8	16.3	61.9	0.0	32100
Check	DKC49-44RIB	99	228.6	15.1	61.1	0.3	32000
Trial Average			236.3	13.8	60.0	0.1	31400
LSD (0.05)†			11.5	1.2	0.8	0.5	800
C.V.‡			3.4	6.0	1.0	-	1.7

* 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** (103 day maturity or more) at Mt. Vernon, 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-4840AM	108	259.4	18.2	57.1	0.0	32300
Dairyland Seed	DS-4910AML	109	256.3	19.6	58.5	0.0	32500
Hoegemeyer	HPT 7434 AM	104	254.1	15.6	56.3	0.0	30900
Farmer Check 1	203-01VT2PRIB	103	252.4	18.5	57.8	0.3	32500
Dairyland Seed	DS-4440AM	104	251.8	16.8	60.0	0.0	32500
Renk Seed	RK700SSTX	107	250.2	19.0	57.8	0.0	32000
Renk Seed	RK710DGV2P	106	249.3	18.3	58.1	0.0	31100
Channel	203-01VT2PRIB	103	249.0	18.0	56.4	0.0	31600
Channel	207-87VT2PRIB	107	247.8	17.0	57.1	0.0	31900
Farmer Check 2	P0421 AM	104	245.3	16.9	57.2	0.3	31900
Dairyland Seed	DS-4329AM	103	243.1	15.6	57.1	0.0	32300
Channel	208-38VT2PRIB	108	242.5	19.4	56.8	0.0	28200
Peterson Farms Seed	74H04	104	242.4	17.1	57.2	0.0	30500
Hoegemeyer	HPT 7402 AM	104	241.5	17.1	57.5	0.0	31700
Dairyland Seed	DS-4580Q	105	237.1	16.3	61.2	0.0	31400
Channel	203-60TRERIB	103	231.7	17.4	59.6	0.0	32100
Dairyland Seed	DS-4310AM	103	231.2	16.8	58.3	0.0	29000
Peterson Farms Seed	78B03	103	230.7	16.0	57.4	0.0	31800
Check	DKC49-44RIB	99	227.4	15.5	60.6	0.0	31300
Renk Seed	RK621VT2P	103	226.8	15.7	58.5	0.0	30700
Channel	205-63VT2PRIB	105	226.5	17.8	58.3	0.0	29400
Trial Average			242.7	17.3	58.0	0.0	31300
LSD (0.05)†			11.1	1.9	0.8	-	1000
C.V.‡			3.2	4.5	0.9	-	2.2

* 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.