



2021 South Dakota Corn Hybrid Trial Results Miller

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Location:	7 miles south and 2 miles east of Miller (57362) in Hand County, SD 44.413381°, -98.944758°
Cooperator:	Paul Fulton
Soil Type:	Houdek-Dudley complex, 0-2% slopes
Fertilizer:	100 lb/acre 30-10-10 starter + 134-52-30-15S-1.4Z preplant + 28-0-0 UAN
Yield Goal:	200 bu/acre
Previous crop:	soybeans
Tillage:	no-till
Row spacing:	30 inches
Seeding Rate:	32,000/acre
Herbicide:	Pre: 32 oz acre RT3 (glyphosate) + 12 oz/acre 2,4-D LV6 + 32 oz/acre Acuron (s-metolachlor + atrazine + mesotrione + bicyclopyrone) + 16 oz/acre Bicep Lite II Magnum (s-metolachlor + atrazine) + 8 oz/acre Efficax (adjuvant) Post: 32 oz/acre Roundup Powermax (glyphosate) + 2.5 oz/acre status (dicamba + diflufenzopyr) + 1 qt/100 gal Cynder (adjuvant) + 1 oz/acre Diligence-EA (adjuvant)
Date seeded:	4/28/21
Date harvested:	10/19/21



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Table 1a. Glyphosate-resistant corn hybrid performance results (average of four replications - **Early Season Trial** (100 day maturity or less) at Miller, 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)
Federal Hybrids	4720 VT2P	97	254.6	16.0	57.6	0.0	29700
Peterson Farms Seed	78P98	98	252.1	15.5	58.0	0.0	29600
Renk	RK579DGVT2P	99	251.3	15.9	58.9	0.4	30600
Farmer Check	4702 VT2P	97	250.5	15.2	58.4	1.1	29100
Thunder Seed	T6100 VT2P	100	249.6	16.3	58.9	3.1	30700
Federal Hybrids	4990 VT2P RIB	99	245.3	15.2	59.5	0.8	27800
Dairyland Seed	DS-3959AM	99	243.1	16.5	56.9	1.1	28300
Renk	RK600VT2P	100	242.4	15.8	59.1	1.4	29400
Federal Hybrids	5000 VT2P RIB	100	242.3	15.7	59.7	1.1	30200
Thunder Seed	T6298 VT2P	98	242.0	15.8	58.4	1.5	28200
Federal Hybrids	4999 VT2P RIB	99	237.3	14.8	59.6	0.7	27600
Thunder Seed	T6996 VT2P	96	235.1	15.0	59.4	0.7	30900
Check	DKC48-95RIB	98	233.3	15.7	60.2	1.1	28200
BH Genetics	BH6218VT2PRIB	92	233.2	13.7	59.9	0.4	29600
Federal Hybrids	4820 VT2P	98	232.8	16.0	58.7	1.1	28300
Dairyland Seed	DS-3727AM	97	230.6	16.6	58.9	0.4	27600
Peterson Farms Seed	72D00	100	230.2	15.7	58.1	0.8	27400
Dairyland Seed	DS-4000AMXT	100	229.9	16.6	58.1	0.0	27200
Peterson Farms Seed	78G95	95	229.0	15.9	57.7	1.4	30400
Thunder Seed	T6999 VT2P	99	224.9	15.2	59.5	0.3	31000
Farmer Check	DKC44-97RIB	94	219.3	15.4	60.0	0.4	27900
Trial Average			238.5	15.6	58.8	0.9	29000
LSD (0.05)†			14.8	1.0	0.7	-	1000
C.V.‡			4.4	4.4	0.8	-	-

* 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** (101 day maturity or more) at Miller, 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)
Renk	RK625DGVT2P	104	243.4	19.4	56.2	8.3	27800
Peterson Farms Seed	74H04	104	235.7	18.7	56.1	0.8	25800
Thunder Seed	T6902 VT2P	102	231.9	17.5	58.0	0.4	28400
Dairyland Seed	DS-4018AM	101	227.1	16.8	58.1	5.4	29500
Check	DKC48-95RIB	98	225.0	16.3	59.7	0.0	29300
Famer Check	DKC50-88RIB	100	223.9	17.0	58.2	4.0	28900
Farmer Check	5351	103	221.7	17.4	59.2	1.1	30300
Peterson Farms Seed	73P01	101	209.7	17.3	58.5	5.0	30100
Trial Average			227.3	17.5	58.0	3.1	28800
LSD (0.05)†			14.8	1.3	1.0	-	1200
C.V.‡			4.4	4.9	1.2	-	-

* 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.