



**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 Bancroft

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Location: 2.5 miles north of Bancroft (57353) in Kingsbury County, SD
44.518097°, -97.753989°

Cooperator: Weerts Farm, Inc.

Soil Type: Houdek-Stickney-Tetonka loam, 0-2% slope, non-irrigated

Fertilizer: 100 lb/acre 30-10-10 starter + 140-100-0 preplant

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 Roundup PowerMax (glyphosate) + 3.5 oz/acre Balance Flex (isoxaflutole) + 16 oz/acre atrazine + 8 oz/acre dicamba
Post: 32 oz/acre Roundup PowerMax (glyphosate) + 8 oz/acre Diflexx (dicamba)

Date seeded: 5/4/21

Date harvested: 10/19/21

Notes: This trial was negatively impacted by lodging. Note the higher than normal CV value in the early trial (Table 1).



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Table 1. Glyphosate-resistant corn hybrid performance results (average of four replications - **Early Season Trial** (100 day maturity or less) at Bancroft, 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-3727AM	97	216.0	13.4	59.1	26.5	30900
Renk	RK579DGVT2P	99	215.8	13.6	58.2	5.8	31100
Federal Hybrids	4990 VT2P RIB	99	212.1	13.5	58.7	46.1	31100
Dairyland Seed	DS-3959AM	99	209.9	13.5	57.7	9.9	31100
Federal Hybrids	4999 VT2P RIB	99	205.6	13.3	59.2	40.9	31300
Channel	199-60TRERIB	99	198.3	13.6	57.6	47.7	30100
Thunder Seed	T6999 VT2P	99	198.2	13.3	59.2	26.1	31800
Channel	195-85DGVT2PRIB	95	194.7	13.5	58.0	38.5	30200
Check	DKC48-95RIB	98	194.6	13.4	59.9	42.5	31000
Federal Hybrids	4720 VT2P	97	193.7	13.5	57.1	49.3	31400
Federal Hybrids	4820 VT2P	98	193.6	13.4	58.0	71.5	31600
Wyffels Hybrids	W2016	98	191.7	13.7	57.2	60.6	31300
Thunder Seed	T6996 VT2P	96	188.2	13.4	59.1	37.3	31400
Farmer Check	DKC51-20RIB	101	184.6	13.5	57.8	30.6	31400
Farmer Check	DKC51-25RIB	101	182.9	13.8	59.2	53.8	30700
Wyffels Hybrids	W1466	94	182.8	13.3	57.1	48.9	31000
BH Genetics	BH6218VT2PRIB	92	181.5	13.8	58.6	9.6	31100
Thunder Seed	T6100 VT2P	100	180.8	14.0	58.7	80.2	32200
Peterson Farms Seed	78P98	98	176.4	13.5	57.8	52.3	30900
Federal Hybrids	5000 VT2P RIB	100	174.5	13.4	59.0	51.2	31100
Renk	RK600VT2P	100	172.4	14.0	58.8	55.9	32300
Thunder Seed	T6298 VT2P	98	170.0	13.2	58.1	74.9	30800
Peterson Farms Seed	72D00	100	155.1	13.8	57.3	45.0	30600
Trial Average			190.1	13.5	58.3	43.7	31200
LSD (0.05)†			32.5	0.5	0.6	-	1300
C.V.‡			12.1	2.7	0.7	-	-

* 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.



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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 Bancroft, 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-4310AM	103	236.8	14.3	59.4	11.0	30700
Wyffels Hybrids	W4196RIB	105	220.0	13.9	59.4	7.7	30100
Farmer Check	DKC54-38RIB	104	219.0	14.0	59.2	18.6	30800
Dairyland Seed	DS-4329AM	103	217.0	13.7	57.3	38.9	29100
Check	DKC48-95RIB	98	214.4	13.4	59.6	28.4	31700
Wyffels Hybrids	W2506RIB	101	214.3	13.1	57.0	18.4	32000
Thunder Seed	T6902 VT2P	102	205.9	13.7	58.0	5.4	29500
Renk	RK625DGVT2P	104	205.8	14.0	56.6	47.7	31600
Thunder Seed	T6004 VT2P	104	196.4	14.1	58.3	13.4	28300
Farmer Check	P0421Q	104	194.7	13.1	58.8	44.8	30200
Peterson Farms Seed	73P01	101	192.6	13.3	58.3	44.7	30400
Peterson Farms Seed	74H04	104	190.4	14.2	57.6	28.2	28800
Thunder Seed	T6204 VT2P	104	179.5	13.5	56.6	67.3	31000
Trial Average			206.7	13.7	58.1	28.8	30300
LSD (0.05)†			20.1	0.7	0.8	-	1200
C.V.‡			6.8	3.7	0.9	-	-

* 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.