



2020 South Dakota Corn Hybrid Trial Results Bath

Jonathan Kleinjan | SDSU Extension Crop Production Associate

Kevin Kirby | Agricultural Research Manager

Shawn Hawks | Agricultural Research Manager

Location:	5 miles south and 2 miles east of Bath (57427) in Brown County, SD (GPS: 45.386980°, -98.284304°)
Cooperator:	Gordon and Roger Locken Farms
Soil Type:	Great Bend-Beotia silt loams, 0-2% slopes
Fertilizer:	148-64-0-14S preplant; 100 lbs/acre 30-10-10 starter
Yield Goal:	200 bu/acre
Previous crop:	soybeans
Tillage:	no-till
Row spacing:	30 inches
Seeding Rate:	33,000/acre
Herbicide:	Pre: none Post: 5 oz/acre Sterling Blue (dicamba) + 32.2 oz/acre Cornerstone 5 Plus (glyphosate) + 1.5 qt/acre Volley ATZ Lite NXT (acetochlor) + 13 oz/acre Atrazine 4L (atrazine)
Date seeded:	5/15/2020
Date harvested:	11/5/2020

Table 1. Glyphosate-resistant corn hybrid performance results (average of 4 replications - **Early Season Trial** (95 day maturity or less) at Bath, 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	256.8	15.7	59.1	0.7	32100
Dairyland Seed	DS-3162Q	91	254.0	12.8	57.9	0.0	31900
Farmer Check 2	DKC44-80RIB	94	250.4	13.3	58.8	0.3	31700
Channel	195-85DGVT2PRIB	95	247.9	14.5	59.1	2.3	32400
Dairyland Seed	DS-3366AM	93	246.8	14.4	60.0	0.7	32800
Channel	194-49DGVT2PRIB	94	246.1	14.9	59.6	0.0	32500
Renk Seed	RK561DGVT2P	95	244.6	14.0	59.0	0.3	31200
Dahlman Seed	R47-24VT2PRIB	94	242.8	13.7	57.5	2.3	32100
Federal Hybrids	4470 VT2P RIB	94	241.8	13.0	57.9	0.7	31100
Federal Hybrids	4400 VT2P RIB	94	240.4	13.3	59.4	0.0	30600
Federal Hybrids	4190 VT2P RIB	91	239.0	13.3	59.4	0.6	32600
Renk Seed	RK499VT2P	94	238.9	12.6	57.1	0.0	31400
Peterson Farms Seed	78G95	95	238.7	14.6	58.3	0.0	31700
Check	DKC49-44RIB	99	238.0	15.2	59.9	0.3	32100
Dairyland Seed	DS-3345AM	93	237.5	14.8	61.1	0.0	31200
Dahlman Seed	R48-28VT2PRIB	95	236.9	14.4	60.2	0.3	32100
Thunder Seed	T6094 VT2P	94	236.8	13.4	60.2	1.0	30500
Federal Hybrids	4580 VT2P RIB	95	236.8	14.4	59.9	0.3	31900
Renk Seed	RK312VT2P	90	236.3	14.2	59.5	0.0	32200
Federal Hybrids	4185 VT2P RIB	91	235.6	13.4	58.9	0.0	31400
Renk Seed	RK315VT2P	90	234.5	13.6	59.4	0.7	29900
Peterson Farms Seed	73K90	90	234.4	13.5	59.5	0.0	30700
Peterson Farms Seed	76S92	92	234.1	13.8	59.7	0.0	32500
Dahlman Seed	R47-26VT2PRIB	94	233.4	13.7	59.4	1.4	29900
Thunder Seed	T6993 VT2P	93	232.6	13.7	60.6	0.3	31600
Federal Hybrids	4160 VT2P RIB	91	232.5	12.8	58.2	0.0	31700
Federal Hybrids	4440 VT2P RIB	94	232.3	14.4	60.0	0.0	31000
Dairyland Seed	DS3193AM	91	229.1	15.1	60.3	0.3	31600
Farmer Check 1	P9188	91	228.6	14.0	58.6	1.4	31800
Thunder Seed	T6791 VT2P	91	226.0	13.1	58.8	0.7	31000
Renk Seed	RK433VT2P	92	225.9	13.1	59.9	0.0	31800
Thunder Seed	T6190 VT2P	90	223.7	14.0	58.7	0.0	29500
Federal Hybrids	4130 VT2P RIB	91	223.4	13.5	58.8	0.7	31800
Peterson Farms Seed	79N94	94	212.0	13.1	57.4	0.3	31400
Trial Average			236.7	13.9	59.2	0.5	31500.0
LSD (0.05)†			10.2	0.6	0.7	1.1	700.0
C.V.‡			3.1	3.2	0.8	-	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** (96 day maturity or more) at Bath, SD.

Hybrid Information		Agronomic Performance					
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture	Test Wt. (lbs/bu)	Lodging (%)	Final Stand (plants/A)
Thunder Seed	T6100 VT2P	100	265.7	15.4	59.2	0.7	32600
Dairyland Seed	DS-4014Q	100	255.4	16.0	57.9	0.7	32200
Channel	197-90VT2PRIB	97	254.0	15.0	60.0	1.3	31800
AgriGold	A627-83VT2RIB	97	253.6	14.3	60.0	1.0	32300
Farmer Check 2	P9998Q	99	253.0	17.0	59.9	0.0	31300
AgriGold	A629-12VT2RIB	99	252.4	16.2	59.4	0.0	31900
AgriGold	A626-08VT2PRO	96	247.2	14.2	60.0	0.0	31600
Dairyland Seed	DS-3519AM	96	246.9	16.0	62.4	1.0	31300
Peterson Farms Seed	78B98	98	243.2	15.2	60.0	0.0	31600
Dahlman Seed	R49-23VT2PRIB	98	242.5	15.1	59.6	0.3	31700
Thunder Seed	T6996 VT2P	96	242.3	14.6	61.3	0.3	32600
Thunder Seed	T6999 VT2P	99	241.5	14.9	60.1	0.7	32000
Renk Seed	RK593VT2P	97	241.0	14.9	59.5	0.0	31000
Thunder Seed	T6098 VT2P	98	240.9	15.3	59.3	0.0	31300
Dahlman Seed	R49-25VT2PRIB	98	238.2	14.3	59.4	0.0	31800
Farmer Check 1	LH4657 VT2 PRO RIB	96	237.8	14.5	60.4	0.3	31000
Peterson Farms Seed	76Y96	96	237.7	14.7	59.4	0.0	30900
Check	DKC49-44RIB	99	235.1	15.1	60.2	0.3	31100
Trial Average			246.0	15.1	59.9	0.4	31700
LSD (0.05)†			9.8	0.5	0.8	1.0	800
C.V.‡			2.8	2.5	1.0	-	1.8

* 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.