



2018 South Dakota Corn Hybrid Trial Results Bath

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Location:	7.55 miles south and 2 miles east of Bath (57427) in Brown County, SD GPS: 45.356835°, -98.289376°
Cooperator:	Gordon and Roger Locken Farms
Soil Type:	Great Bend-Beotia silt loams, 0-2% slopes, non-irrigated
Fertilizer:	100-96-36-24S-2.5Z preplant; 30-10-10 starter
Yield Goal:	200 bu/acre
Previous crop:	Soybeans
Tillage:	No-till
Row spacing:	30 inches
Seeding Rate:	31,400/acre
Herbicide:	Pre: none Post: 1 qt Powermax (glyphosate) + 6 oz Status (dicamba + diflufenzopyr) + 1 pt NIS
Date seeded:	5/9/2018
Date harvested:	11/7/2018

Table 1. Glyphosate-resistant corn hybrid performance results (average of 4 replications - **Early Season Trial** (95 day maturity or less) at Bath, SD.

Variety Information		Agronomic Performance					
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture	Test Wt. (lbs/bu)	Lodging (%)	Final Stand (plants/A)
Channel	194-49DGV2PRIB	94	251.8	17.5	60.7	0.0	28400
Thunder Seed	6992 VT2P	92	245.1	16.6	61.2	0.0	29900
Check	CHECK	101	244.0	18.0	59.0	0.0	29100
Federal Hybrids	4560 VT2P RIB	95	241.8	16.7	59.8	0.4	29000
LG Seeds	LG44C27VT2RIB	94	238.7	16.6	58.8	0.0	29800
Thunder Seed	6794 VT2P	94	237.5	16.9	59.3	0.0	29000
Federal Hybrids	4185 VT2P RIB	91	237.0	16.9	60.6	0.0	30200
Peterson Farms Seed	79N94	94	236.4	16.8	58.6	0.0	28500
Proseed	1794 VT2P	94	236.2	17.0	60.0	0.8	28400
Thunder Seed	6993 VT2P	93	235.2	16.8	60.0	0.0	29800
Federal Hybrids	4470 VT2P RIB	94	234.4	16.6	59.2	0.0	28900
Dahlman Seed	R47-24VT2PRIB	94	232.8	16.7	58.9	0.0	27600
Federal Hybrids	4180 VT2P RIB	91	232.8	16.0	60.3	0.0	28300
Proseed	1395 VT2P	95	232.1	17.4	60.0	0.0	29500
Federal Hybrids	4580 VT2P RIB	95	231.8	16.9	60.0	0.0	29600
LG Seeds	LG44C47VT2RIB	94	228.1	16.2	59.5	0.0	29500
Dahlman Seed	R48-28VT2PRIB	95	228.0	17.0	60.3	0.0	27200
Federal Hybrids	4160 VT2P RIB	91	223.7	16.4	60.1	0.0	29200
LG Seeds	LG5410VT2RIB	91	222.3	16.4	59.4	0.0	29500
Heogemeyer	HPT 6072 AM	90	219.8	16.5	58.2	0.8	26800
Thunder Seed	6791 VT2P	91	218.1	16.9	59.7	0.0	25700
Federal Hybrids	4190 VT2P	91	206.5	16.2	59.9	0.0	28700
Trial Average			232.4	16.8	59.7	0.1	28800
LSD (0.05)†			13.4	0.6	0.9	0.4	800
C.V.‡			4.1	2.3	1.1	-	2.0

* 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 2a. Glyphosate-resistant corn hybrid performance results (average of 4 replications - **Late Season Trial** (96 day maturity or more) at Bath, SD.

Variety Information		Agronomic Performance					
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture	Test Wt. (lbs/bu)	Lodging (%)	Final Stand (plants/A)
Dairyland Seed	RPM-3715AM	96	263.5	16.9	58.4	0.0	30500
Dairyland Seed	RPM-4018AM	101	258.1	18.2	60.2	0.0	29400
Hoegemeyer	HPT 6620 AM	96	257.6	17.0	58.1	0.0	29000
Dairyland Seed	RPM-4019AM	99	255.5	18.0	58.4	0.0	28300
Hoegemeyer	HPT 6813 AM	98	255.1	17.9	57.4	0.0	28500
Hoegemeyer	HPT 7088 AM	100	255.0	17.8	60.3	0.0	26800
Thunder Seed	7800 DGVT2P	100	252.9	17.4	57.9	0.0	29000
Dahlman Seed	R48-21VT2PRIB	98	252.4	16.6	60.3	0.0	29400
Channel	201-05DGVT2PRIB	101	251.3	17.7	59.4	0.4	29000
Check	CHECK	101	250.8	17.9	59.5	0.0	29800
Thunder Seed	6999 VT2P	99	250.4	17.1	61.0	0.0	29700
Federal Hybrids	4990 VT2P	99	250.3	17.5	58.8	0.4	29700
Channel	201-28VT2PRIB	101	249.7	17.0	59.2	0.0	30500
Dahlman Seed	R51-22VT2PRIB	101	249.2	16.9	60.8	0.0	29300
Federal Hybrids	4880 VT2P RIB	98	248.6	17.0	60.5	0.0	29000
Dairyland Seed	RPM-3518AM	96	248.3	17.8	62.3	0.0	30100
Proseed	1399 3000GT	99	247.8	17.8	60.9	0.0	29900
LG Seeds	LG5494VT2RIB	99	247.5	16.7	59.3	0.0	28400
Dairyland Seed	DS-9599	99	245.1	17.6	58.9	0.0	29600
Federal Hybrids	4770 VT2P RIB	97	243.1	17.3	59.7	0.0	29200
Proseed	17102 SS	102	242.7	17.8	59.4	0.0	29300
Thunder Seed	6996 VT2P	96	242.3	17.0	59.5	0.0	29900
Federal Hybrids	5280 SS RIB	102	240.7	18.0	59.6	0.0	28900
Dairyland Seed	DS-7101	101	240.6	19.0	60.0	0.4	28900
Federal Hybrids	4680 VT2P RIB	96	238.8	16.9	60.2	0.0	29400
LG Seeds	LG46C73VT2RIB	96	238.2	17.4	60.2	0.0	29100
Federal Hybrids	4780 VT2P	97	237.6	17.6	58.8	0.0	28400
Channel	197-50STXRIB	97	237.5	17.2	59.8	0.0	29400
Thunder Seed	6798 VT2P	98	236.8	17.3	59.2	0.0	28200
Dahlman Seed	R49-23VT2PRIB	98	235.7	17.3	59.9	0.0	29000
Trial Average			243.0	17.4	59.7	0.1	29100
LSD (0.05)†			10.9	0.4	1.2	0.3	800
C.V.‡			3.2	1.7	1.3	-	1.9

* 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.

Table 2b. Glyphosate-resistant corn hybrid performance results, continued (average of 4 replications - **Late Season Trial** (96 day maturity or more) at Bath, SD.

Variety Information		Agronomic Performance					
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture	Test Wt. (lbs/bu)	Lodging (%)	Final Stand (plants/A)
Federal Hybrids	5060 SS RIB	100	235.3	17.7	60.0	0.0	29700
Federal Hybrids	4990 SS	99	234.6	17.3	60.1	0.0	29000
Peterson Farms Seed	78B98	98	233.6	16.9	58.9	0.0	27400
Peterson Farms Seed	76S92	96	232.7	17.2	60.1	0.0	29800
Federal Hybrids	4760 VT2P RIB	97	232.4	17.2	58.8	0.0	29000
Hoegemeyer	HPT 6782 AM	97	230.3	17.4	61.8	0.4	27300
Dairyland Seed	RPM-3519AM	96	230.1	17.7	61.3	0.4	29000
Proseed	1898 SS	98	229.8	16.9	59.2	0.0	29600
Peterson Farms Seed	76Y96	96	229.7	17.3	60.7	0.0	28000
LG Seeds	LG5465VT2RIB	97	228.7	16.9	60.2	0.0	29000
Proseed	16101 SS	101	227.8	17.6	59.2	0.0	28900
Trial Average			243.0	17.4	59.7	0.1	29100
LSD (0.05)†			10.9	0.4	1.2	0.3	800
C.V.‡			3.2	1.7	1.3	-	1.9

* 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.