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2017 South Dakota

Corn Hybrid Trial Results - Bancroft

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Location: 2.5 miles north of Bancroft (57353) in Kingsbury County
(GPS: N 44°31.091' W 097°45.244)

Cooperator: Weerts Farm, Inc.

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

Fertilizer: 140-80-0-10S preplant; 30-10-10 starter

Yield Goal: 200 bu/ac

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: 1.5 pt Harness (acetochlor), applied with fertilizer
Post: 1 qt Roundup PowerMax (glyphosate) + 1.75 pt TripleFlex (acetochlor + flumetsulam + clopyralid) + 3 oz Status (dicamba + diflufenzopyr)

Date seeded: 5/4/2017

Date harvested: 11/9/2017

Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Bancroft, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Hoegemeyer	HPT 6620 AM	96	240.7	16.9	59.0	0.0	27700
Nutech/G2 Genetics	5F-196	96	239.1	16.4	58.4	0.0	27900
Heine Seeds	6250VT2PRO	96	232.6	17.4	58.6	0.0	28300
Peterson Farms Seed	72D00	100	232.1	17.0	60.0	0.0	27000
Federal Hybrids	4880 VT2P RIB	98	230.5	16.6	59.5	0.4	28100
Wensman	W80993VT2RIB	99	230.3	17.3	58.9	0.0	28500
Check	CHECK	97	230.0	16.9	59.2	0.0	29500
Nutech/G2 Genetics	5F-198	98	227.9	16.1	57.0	0.9	26100
Renk	RK608DGV2P	100	227.4	17.2	58.3	0.0	26100
Wensman	W81007VT2RIB	100	226.2	17.5	60.1	0.4	27000
Federal Hybrids	4760 VT2P RIB	97	226.1	16.7	59.2	0.0	29100
Peterson Farms Seed	78B98	98	226.1	17.1	60.0	0.0	28500
Federal Hybrids	4680 VT2P	96	226.1	16.3	60.7	0.0	28600
Rob-See-Co	IC4688-3120	96	225.9	17.1	59.6	2.7	28300
Heine Seeds	632VT2PRORIB	95	225.0	16.5	58.9	0.4	28500
Hoegemeyer	HPT 7088 AM	100	224.7	17.3	59.5	0.8	28000
Dairyland Seed	DS-9599	99	224.5	17.5	58.9	3.8	28500
Wensman	W80972VT2RIB	97	224.5	16.3	59.4	0.4	29200
Channel	197-50STXRIB	97	223.6	17.1	58.4	0.0	28500
Thunder Seed	4695 RR	95	223.3	16.5	60.3	0.0	28500
Nutech/G2 Genetics	5FN-7099	99	223.0	17.1	57.5	0.4	24900
Heine Seeds	637STX	99	222.8	16.3	59.1	0.0	28400
Wensman	W8184VT2RIB	95	222.7	16.9	60.0	0.0	28100
Heine Seeds	712STXRIB	100	221.8	17.9	59.2	0.4	28100
Federal Hybrids	4185 VT2P RIB	91	221.1	16.2	60.3	0.0	28300
Federal Hybrids	5060 SSTAX RIB	100	220.5	17.7	59.3	0.4	27000
Rob-See-Co	RC4915-3120	99	220.5	15.9	55.6	0.0	27700
Federal Hybrids	4470 VT2P RIB	94	220.3	16.9	59.8	0.8	27000
Thunder Seed	6794 VT2P	94	220.2	16.7	59.7	2.3	28600
Federal Hybrids	4770 VT2P RIB	97	219.7	16.6	59.4	0.0	28400
Trial Average			219.5	16.8	59.4	0.4	27800
LSD (0.05)†			15.4	0.6	1.0	1.2	1000
C.V.‡			5.0	3.0	1.2	-	2.6

* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† 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.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Bancroft, 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	4880 SSTAX RIB	98	218.1	17.0	59.7	0.4	26600
Federal Hybrids	4580 VT2P RIB	95	217.0	16.2	61.3	0.0	29100
Nutech/G2 Genetics	5FN-5096	96	215.5	17.1	59.7	0.0	27100
Channel	195-18VT2PRIB	95	215.3	17.2	61.3	2.4	27400
Thunder Seed	6798 VT2P	98	214.7	16.4	59.7	0.0	26400
Federal Hybrids	4160 VT2P RIB	91	214.4	15.6	59.8	0.0	29200
Rob-See-Co	IC4521-3110	95	213.7	16.7	60.5	0.0	27100
Hoegemeyer	HPT 6813 AM	98	213.5	17.0	57.7	0.4	25700
Federal Hybrids	4560 VT2P RIB	95	213.4	16.8	61.0	0.4	27400
Federal Hybrids	4760 SSTAX RIB	96	210.6	16.8	59.2	0.0	27000
Thunder Seed	4600 RR	100	210.1	17.1	59.5	0.0	27100
Thunder Seed	7793 SS	93	209.9	16.4	59.4	1.2	27700
Renk	RK595SSTX	99	209.2	16.4	60.6	0.0	28200
Federal Hybrids	4180 VT2P	91	207.4	16.4	60.4	1.2	28100
Thunder Seed	7396 VT2P	96	206.8	15.8	58.7	0.0	28300
Federal Hybrids	4558 SSTAX RIB	95	206.6	16.3	59.1	0.0	27800
Heine Seeds	732DGV2PRORIB	100	204.4	17.1	59.4	0.8	27000
Thunder Seed	7993 VT2P	93	204.1	16.1	59.8	0.0	28400
Heine Seeds	723VT2PRORIB	100	203.9	17.3	60.0	0.0	28400
Federal Hybrids	4560 SSTAX RIB	95	203.1	16.5	59.8	0.0	27300
Wensman	W90979STXRIB	97	196.6	16.8	59.7	0.0	26800
Trial Average			219.5	16.8	59.4	0.4	27800
LSD (0.05)†			15.4	0.6	1.0	1.2	1000
C.V.‡			5.0	3.0	1.2	-	2.6

* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† 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.

Table 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (101 day maturity or more)** at Bancroft, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Heine Seeds	740VT2PRO	102	261.0	17.4	59.8	0.4	28000
Nutech/G2 Genetics	X5FN-0306	103	246.1	17.7	60.1	2.3	28200
Heine Seeds	739VT2PRO	102	240.6	18.0	59.0	0.8	26600
Channel	201-28VT2PRIB	101	238.7	16.8	58.7	0.0	27600
Heine Seeds	752VT2PRO	105	238.4	18.1	59.3	0.4	27900
Dairyland Seed	DS-9804SSX	104	236.8	18.3	56.9	0.4	26800
Channel	204-74VT2PRIB	104	234.5	17.9	58.2	0.8	25700
Thunder Seed	7603 SS	103	234.5	17.4	58.9	0.0	28500
Nutech/G2 Genetics	5F-601	101	233.7	17.4	58.8	0.8	28400
Rob-See-Co	IC5296-3120	102	233.3	16.8	58.0	2.3	28100
Heine Seeds	754STXRIB	105	233.3	17.5	59.8	0.4	28400
Nutech/G2 Genetics	5F-504	104	232.9	18.3	57.1	5.0	28200
Wensman	W9325STXRIB	102	230.6	18.0	59.7	0.8	25800
Channel	201-05VT2PRIB	101	230.5	17.2	58.2	1.6	27300
Rob-See-Co	RC5112-3122A	101	230.0	18.4	58.2	0.0	28100
Channel	205-19STXRIB	105	230.0	17.7	56.4	0.8	26500
Check	CHECK	97	229.8	16.8	59.3	0.4	28600
Nutech/G2 Genetics	5F-701	101	227.9	17.1	60.3	0.0	25400
Dairyland Seed	DS-9802RA	102	226.4	18.2	58.3	2.1	26600
Heine Seeds	7410STX	104	226.2	17.1	56.9	1.3	24900
Renk	RK642SSTX	103	224.8	17.6	59.0	0.8	27700
Channel	203-01STXRIB	103	224.5	17.7	58.0	0.0	27600
Renk	RK680SSTX	103	221.6	17.3	58.9	0.4	27800
Wensman	W91018STXRIB	101	220.2	16.6	56.4	0.8	26800
Federal Hybrids	5180 SSTAX RIB	101	218.2	16.7	59.2	0.8	27700
Hoegemeyer	7166 AM	101	217.5	17.3	59.8	0.0	27000
Wensman	W91025STXRIB	102	217.2	16.6	59.9	2.8	27600
Nutech/G2 Genetics	X5LN-0308	103	215.4	17.2	59.9	0.5	24000
Renk	RK675DGVT2P	103	205.1	17.2	57.7	3.8	25800
Rob-See-Co	IC5203-3120	102	204.9	18.4	58.6	1.6	27600
Peterson Farms Seed	81W01	101	203.2	16.6	58.5	0.4	24300
Trial Average			228.0	17.5	58.6	1.0	27070
LSD (0.05)†			15.1	0.6	0.9	1.7	1084
C.V.‡			4.7	2.3	1.2	-	2.8

* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† 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.