



2019 South Dakota Conventional Corn Hybrid Trial Results South Shore

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Location:	8.5 miles west of South Shore (57263) in Codington County, SD (GPS:45.106938 -97.098725)
Cooperator:	SDSU Northeast Research Farm - Allen Heuer, manager
Soil Type:	Kranzburg-Brookings silty clay loams, 0-2% slope
Fertilizer:	80 lb/acre 30-10-10 starter + 200-0-0-5S-10Z broadcast preplant
Yield Goal:	200 bu/acre
Previous crop:	Soybeans
Tillage:	Conventional
Row spacing:	30 inches
Seeding Rate:	32,000/acre
Herbicide:	Pre: 1.2 qt/acre Harness Xtra (acetochlor + atrazine) Post: 0.9 oz/acre Accent (nicosulfuron) + 3 oz/acre Callisto (mesotrione)
Date seeded:	5/14/2019
Date harvested:	11/8/2019

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

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	4580 CONV	95	245.1	27.3	52.0	1.3	33300
Federal Hybrids	4440 CONV	94	243.0	26.0	51.4	0.7	31000
Federal Hybrids	4240 CONV	92	242.2	23.2	53.3	1.0	32700
Check	CHECK	100	239.1	29.6	52.1	1.0	33500
Peterson Farms Seed	16G95	95	238.8	26.8	51.7	0.0	33300
Thunder Seed	3595 CONV	95	232.2	27.0	51.5	1.8	31300
Trial Average			239.7	27.0	52.0	1.0	32700
LSD (0.05)†			10.5	2.0	1.2	2.4	1000
C.V.‡			3.0	4.8	1.6	-	2.2

* 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.

Table 2. Conventional corn hybrid performance results (average of 4 replications - **Late Season Trial** (96 day maturity or more) at South Shore, 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	5280 CONV	102	249.0	31.7	50.6	3.3	33000
Thunder Seed	2996 CONV	96	247.5	25.6	50.5	3.0	32800
Federal Hybrids	4800 CONV	98	244.4	26.3	50.6	0.0	32600
Federal Hybrids	4770 CONV	97	243.5	26.6	51.2	0.0	31800
Thunder Seed	2098 CONV	98	241.0	27.4	50.9	0.3	32300
Federal Hybrids	4780 CONV	97	238.1	28.5	51.3	0.3	33500
Check	CHECK	100	233.8	29.1	51.1	0.0	32800
Viking	O.98-98	98	230.5	25.7	49.6	4.3	31100
Viking	46-96	96	230.2	29.6	50.6	1.0	33800
Federal Hybrids	5008 CONV	100	225.5	33.9	51.2	0.0	32200
Trial Average			238.3	28.4	50.7	1.2	32600
LSD (0.05)†			12.0	1.4	1.0	1.8	1100
C.V.‡			3.5	3.5	1.4	-	2.2

* 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.