

## 2018 SOUTHEAST NEBRASKA CORN GROWERS ASSOCIATION

### IRRIGATED CORN HYBRID PLOT DESCRIPTION

**COOPERATOR:** Darrel Stehlik, Dorchester, NE

**PLOT LOCATION:** From Crete, from the intersection of Highway 33 and 103, go 2 miles west on Highway 33, turn north on County Road 1900, plot located on the west side of the road (north of railroad tracks)

**PLOT SIZE:** 4 Row Plots, 11 Check Plots, 20 Corn Hybrids

**SOIL TYPE:** Majority field Crete Silt Loam 0-1% Slope; tail end Crete Silty Clay 3-7%

**SOIL TEST:**

Soil Ph	5.9		
Phosphorous (P) (Bray 1)	22 ppm	Organic Matter	2.7%
Potassium (K)	353 ppm	Sulfur (S)	22 ppm
Zinc (Zn) (DTPA)	2.4 ppm	Boron (B)	0.6 ppm
Manganese (Mn)	11 ppm	Iron (Fe)	64 ppm
Copper (Cu)	1.1 ppm		

**CROP ROTATION:** Corn after Corn

**FERTILIZER:** Spring Pre-plant Application: 180 lbs N as NH<sub>3</sub>  
Spring Pre-plant Application: 100 lbs 11-52-0 and 10 lbs Sulfur and 3 lbs Zinc Broadcast  
Sidedress Application at V6-7: 100 lbs 46% Urea plus 20 lbs AMS

**TILLAGE:** Two passes - disking and finisher tool. Ditched twice to rebuild ridges.

**HERBICIDE APPLICATION:** At Planting: 2 qt Halex plus 1/2 lb of Atrazine Broadcast  
Post Applied: 24 oz Roundup Powermax and 1 pt Zinc plus 1 pt Boron Foliar Broadcast as per Foliar Sample Results

**PLANTING DATE:** May 2, 2018

**PLANTING POPULATION:** 34,000 plants per acre

**PLANTING EQUIPMENT:** John Deere 1770 24 row planter

**INSECTICIDE/FUNGICIDE:** No Insecticide; 20 oz Headline by Airplane at Tassel

**IRRIGATION:** 2 times over, gravity irrigation from a reuse pit

**HARVEST/PLOT INFORMATION:** Harvested on October 29, 2018 with JD9770 combine 8 row head. A grain cart was used for weighing each plot. The stand counts and lodging scores were taken on September 20. Moisture and test weight samples were taken to area elevator. There was a green snap event on June 30 with an adjacent field adjusted at 18% damage. Some varieties were affected more than others but as a whole not a significant factor in the trial. Some volunteer corn was present in the trial due to a corn ear drop event in the fall of 2017.

**2018 SOUTHEAST NEBRASKA CORN GROWERS VARIETY TEST PLOT - IRRIGATED**

**IRRIGATED CORN PLOT**

Cooperator: Darrel Stehlik

Check Variety: Channel 213-19

Plot Hybrid	Plant	Stalk
	Pop (plants/ac)	Rot (%)
Check 1 Channel 213-19	30,500	8.0%
1 AgriGold A6544 STX RIB SmartStax LL RR2 Acceleron Poncho/Votivc	29,000	24.5%
2 AgriGold A647-90 STX RIB SmartStax LL RR2 Acceleron Poncho/Voti	29,750	8.0%
Check 2 Channel 213-19	31,000	10.0%
3 Golden Harvest G13250-3110 Agrisure Viptera Avicta Complete	31,500	46.0%
4 Golden Harvest G15L32 Agrisure 3000GT LL Avicta Complete	30,500	5.5%
Check 3 Channel 213-19	34,500	0.0%
5 Champion 66 A18 VT2	32,750	2.5%
6 Champion 62 A18 VT2	28,750	14.0%
Check 4 Channel 213-19	32,000	0.0%
7 Producers 7263 VT2 RIB VT Doublepro RR2 Acceleron RIB Complete	30,250	1.0%
8 Producers 7543 VT2 RIB VT Doublepro RR2 Acceleron RIB Complete	31,750	2.0%
Check 5 Channel 213-19 (3 rows channel 1 row Producers)	33,000	0.0%
9 Pioneer P1828AM LL RR2 HX Y6 PPST 250 Raxil Lumivia	30,750	6.5%
10 Pioneer P1197AM LL RR2 HX Y6 PPST 250 Raxil Lumivia	31,250	3.0%
Check 6 Channel 213-19	32,000	2.0%
11 DeKalb DKC64-34 RIB SmartStax Complete Acceleron	31,500	2.0%
12 DeKalb DKC70-27 RIB VT DoublePro RIB Complete Acceleron	31,750	1.0%
Check 7 Channel 213-19	31,500	2.0%
13 Channel 213-19 STX RIB SmartStax Complete Acceleron	32,500	3.5%
14 Channel 215-75 STX RIB SmartStax Complete Acceleron	30,000	2.0%
Check 8 Channel 213-19	31,000	4.0%
15 Hefty H6624	31,000	0.5%
16 Hefty H6524	29,750	0.5%
Check 9 Channel 213-19	33,500	3.0%
17 Fontanelle 11D637 VT2 PRIB VT DoublePro Acceleron	33,250	5.0%
18 Fontanelle 10D308 VT2 PRIB VT DoublePro Acceleron	30,500	2.5%
Check 10 Channel 213-19	31,500	0.0%
19 Rob-See-Co IC6260-3000GT A500	31,250	3.5%
20 Rob-See-Co IC6829-3111 A500	30,750	0.5%
Check 11 Channel 213-19	32,500	0.0%
ALL PLOTS INCLUDING CHECKS		
Averages	31,339	5.3%

**Summary:** The plot was harvested on October 29 by a volunteer. There was a mistake at the beginning of the trial with 5 rows cut instead of 4 rows, therefore, corn yields could not be published and compared.

The plot lengths were 845 feet. All plots, including the check varieties, averaged 236.2 bu/acre.

The average moisture was 14.6% and 59.6 lbs/bu test weight. The range of yields were 203.6 to 256.4 bu/acre

**Stand Counts:** 4 stand counts were taken on each variety, north side of the plot (1/1000 acre counts), then averaged. For check plots, 2 stand counts were taken each time.

**Stalk Rot Counts:** 50 plants are squeezed in 4 locations at the lower node by hand and checked for collapse or a total of 200 plants per variety. 50 plants are squeezed in 2 locations for each check plot or a total of 100 plants.