

2016 SOUTHEAST NEBRASKA CORN GROWERS ASSOCIATION

IRRIGATED CORN HYBRID PLOT DESCRIPTION

COOPERATOR: Matt Frew, Crete, NE

PLOT LOCATION: From the intersection of Highway 33 and Road 1900 (2 miles west of Crete or 4 miles east of Dorchester), turn south on Road 1900 for 3 miles, then turn west on I Road for ½ mile.

PLOT SIZE: 4 Row Plots, 5 Check Plots, 8 Corn Hybrids

SOIL TYPE: Crete Silt Loam 0-1% Slope

SOIL TEST: Grid Sampled in 2014

Soil Ph	5.8-6.7
Organic Matter %	2.7-2.9
Phosphorus (MP3)	8-44 ppm
Potassium (K)	175-195 ppm
Zinc (Zn)	1.79-2.57ppm
Sulfur (S)	7-9 ppm

CROP ROTATION: Corn After Soybeans

FERTILIZER: 180 Lbs Fall Applied as NH₃
120 Lbs of 11-52-0 Applied Over Winter
No Starter with Planter

TILLAGE: No-Till Slot Planted on the Ridge

HERBICIDE APPLICATIONS: Preplant - 3 Oz Corvus + ½ Lb Atrazine/Ac + ¾ Pt (6 Lb) 2,4-D + Roundup PowerMAX Spot Treat on Borders 30 Oz Rate
Postplant - 2 Oz Rate Laudis + Roundup PowerMAX 36 Oz

PLANTING DATE: May 4, 2016

PLANTING POPULATION TARGET: 34,000 Seeds per Acre

PLANTING EQUIPMENT: JD 1790 Planter, 16 Row

INSECTICIDE: None

FUNGICIDE: None

IRRIGATION: Furrow Irrigated 3 Times (Estimated 10" with Reuse Pond)

HARVEST INFORMATION: Harvested October 17, 2016 with JD S660, 8 Row Head

ADDITIONAL COMMENTS: Some greensnap noted but was not significant.

2016 SOUTHEAST NEBRASKA CORN GROWERS VARIETY TEST PLOT - IRRIGATED

IRRIGATED CORN PLOT

Cooperator: Matt Frew

Check Variety: Channel 217-41 DG VTZ PRIB A250

Row Spacing 30
 Std. Moisture 15.5
 Std. Bu. Wt. 56
 Harvested Rows 4

17-Oct-16

Plot Hybrid	Plant Pop (plants/ac)	Stalk Rot (%)	H2O (%)	Test Wt (lbs/bu)	Lbs	Plot Len (ft)	Yield Bu/Ac	*Adj Yield	Rank
Check 1 Channel 217-41 DG VTZ PRIB A250	35,000	2.0%	18.6	56.8	2320	704.0	246.9		
1 Channel 216-36 VTZ PRIB Votivo 500	34,500	1.5%	17.8	58.2	2100	704.0	225.7	223.7	6
Check 2 Channel 217-41 DG VTZ PRIB A250	34,000	0.0%	18.6	55.9	2300	704.0	244.8		
2 Prairie Brand R7443 RR2 HxLL Cruiser Max	31,750	0.5%	20.8	54.1	2100	704.0	217.5	214.8	8
3 Champion 65A17 VTZ	32,750	0.0%	18.2	56.6	2220	704.0	237.5	234.7	5
4 Golden Harvest G11 F16-311A Agrisure Viptera A500	31,250	0.5%	18.3	54.0	2080	704.0	222.2	219.5	7
Check 3 Channel 217-41 DG VTZ PRIB A250	35,000	1.0%	18.6	56.0	2360	712.0	248.4		
5 AgVenture AV8714YHB P500V	32,750	0.5%	18.7	58.2	2220	687.0	241.8	244.2	3
6 Fontenelle 13V843 A250	31,500	2.0%	18.2	57.3	2160	687.0	236.8	239.1	4
7 Pioneer P1751A MT LL Raxil AcreMax Poncho/Votivo 1250	31,250	0.5%	19.9	56.9	2400	687.0	257.6	259.9	2
Check 4 Channel 217-41 DG VTZ PRIB A250	33,000	4.0%	18.5	55.9	2140	684.0	234.7		
8 DeKalb DKC 68-26 RIB GEN VT2 P500 HD	32,250	1.0%	19.7	58.1	2440	681.0	264.9	269.1	1
Check 5 Channel 217-41 DG VTZ PRIB A250	32,500	0.0%	18.5	57.4	2220	681.0	244.6		
Plot Averages including the checks	32,885	1.0%	18.8	56.6			240.3	bu/ac	
Check Plot Averages	33,900	1.4%	18.6	56.4			243.9	bu/ac	

*Adjusted yield formula; average of the two nearby checks compared to the total average of all the check hybrids (243.9 bu/ac in this trial), then adjust the corn hybrid yield accordingly.

Actual Yield spread between corn hybrids - 217.5 to 264.9 bu/ac = 47.4 bu/ac (last year = 22.8 bu)

Yield spread between the check hybrids - 234.7 to 248.4 bu/ac = 13.7 bu (last year = 24.8 bu)