

2017 SOUTHEAST NEBRASKA CORN GROWERS ASSOCIATION

IRRIGATED CORN HYBRID PLOT DESCRIPTION

COOPERATOR: John Niemeyer, Cortland, NE

PLOT LOCATION: From U.S. Highway 77 and Pickrell, NE intersection, go 4 1/8 mile west, plot on north side of the road or 1/8 mile west of the West Pickrell Road and Southwest 72nd intersection, north side of the road.

PLOT SIZE: 4 Row Plots, 6 Check Plots, 15 Corn Hybrids

SOIL TYPE: Wymore Silty Clay Loam (0-2% Slope)

SOIL TEST:

Soil Ph	6.2
Organic Matter	3.1%
Residual Nitrate	20 lbs N; 0-36 inches
Phosphorous (P1)	26 ppm
Potassium (K)	373 ppm
Sulfate (S)	15 ppm
Zinc (DTPA)	2.0 ppm

CROP ROTATION: Corn After Corn, Grazed in the Fall

FERTILIZER: Pre-plant Application: 128 lbs N as NH₃ plus 11 Gallon 10-34-0 Plus 4 Gallon Thiosol
At Planting: 8 Gallon of 32% UAN as a Top Dribble Over Row
Sidedress at Tassel Stage: 10 Gallon of 32% UAN via Ground Application

TILLAGE: No-Till

HERBICIDE APPLICATION: Pre-plant: 1.4 Qt Tizmet II plus 4 Oz 2,4-D LV6 plus 24 Oz PowerMax
Post Applied: 32 Oz PowerMax plus 1/4 lb Atrazine plus 3 Oz Collisto

PLANTING DATE: April 25, 2017

PLANTING POPULATION: 34,000

PLANTING EQUIPMENT: Kinzie 12 Row 3660 Planter

INSECTICIDE/FUNGICIDE: 13.6 Oz Trivapro + 6 Oz Brigade as a Foliar Application by Airplane

IRRIGATION: Gross Water Application, 8 Inches

HARVEST INFORMATION: Harvested on September 20, 2017 along with stand counts and lodging scores. JD 680 combine with a 12 row head, moisture and test weight samples taken to area elevator.

2017 SOUTHEAST NEBRASKA CORN GROWERS VARIETY TEST PLOT - IRRIGATED

IRRIGATED CORN PLOT

Cooperator: John Niemeyer

Check Variety: Channel 215-52 VT3 PRIB

20-Sep-17

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

Plot	Hybrid	Plant	Stalk	Test		Plot Len (ft)	Yield Bu/Ac	*Adj Yield	Rank
		Pop (plants/ac)	Rot (%)	H2O (%)	Wt (lbs/bu)				
	Check 1 Channel 215-52	---	4.0%	24.8	54.4	2520	737.0	236.7	
1	AgriGold A6499 STX RIB	36,000	5.0%	26.9	55.4	2860	737.0	261.1	256.5 10
2	Producers 7353 VT2 RIB	34,000	6.0%	23.3	55.0	2760	737.0	264.4	259.8 6
3	Pioneer P1366 AM	28,500	2.0%	25.5	53.0	2860	737.0	266.1	261.5 4
	Check 2 Channel 215-52	---	3.0%	24.0	54.6	2480	739.0	234.8	
4	Champion 66A18 VT2 Pro	29,500	2.0%	31.2	53.7	2880	739.0	246.8	248.7 12
5	Golden Harvest G15Q98 3000GT	32,500	7.0%	29.8	52.6	2800	739.0	244.8	246.7 14
6	Fontanelle 11D637 VT Double Pro RIB	33,500	4.0%	31.2	53.1	3100	739.0	265.7	267.5 2
	Check 3 Channel 215-52	---	6.0%	26.4	54.6	2440	739.0	223.7	
7	DeKalb 64-34 RIB SmartStax	32,500	1.0%	28.5	54.4	2960	741.0	262.9	269.7 1
8	Prairie Brand 1123 SX RA	30,000	2.0%	27.9	49.0	2700	741.0	241.8	248.6 13
9	Channel 21844 STX RIB	27,000	0.0%	29.3	54.7	2860	741.0	251.2	258.0 9
	Check 4 Channel 215-52	---	5.0%	26.0	54.0	2440	739.0	224.9	
10	AgVenture AV6805Y HB	32,000	33.0%	21.4	55.3	2600	737.0	255.3	259.1 7
11	Golden Harvest G12W66 3000GT	30,500	3.0%	26.8	54.0	2680	737.0	245.0	248.9 11
12	Pioneer P1751 AM	33,000	0.0%	30.4	53.5	2980	737.0	259.1	262.9 3
	Check 5 Channel 215-52	26,500	4.0%	26.1	54.3	2480	735.0	229.5	
13	DeKalb 62-52 RIB SmartStax	31,500	21.0%	28.1	53.3	2900	735.0	261.1	259.0 8
14	Prairie Brand 6247 SXRA	32,000	1.0%	30.1	52.6	2660	735.0	232.9	230.7 15
15	Fontanelle 14D796 VT Double Pro	28,000	6.0%	25.5	54.2	2820	735.0	263.1	261.0 5
	Check 6 Channel 215-52	27,000	6.0%	26.1	54.6	2560	735.0	236.9	

ALL PLOTS INCLUDING CHECKS

Averages 30,824 5.8% 27.1 53.8 248.0 bu/ac

CHECK PLOTS ONLY

Averages 30,824 5.8% 27.1 53.8 231.1 bu/ac

*Adjusted yield formula = average of the two nearby checks compared to the total average of all the check hybrids (231.1 bu in this trial), then adjust the corn hybrid yield accordingly.

Plot Hybrid Yield Spread = 232.9 bu/ac to 266.1 bu/ac = 33.2 bu/ac (last year - 57.7 bu)

Check Hybrid Yield Spread = 229.5 bu/ac to 236.9 bu/ac = 7.4 bu/ac (last year - 23.6 bu)

Stalk rot and plant population counts taken on 9-20-2017; plant populations not reported on all check plots but were very consistent.