

2017 SOUTHEAST NEBRASKA CORN GROWERS ASSOCIATION

DRYLAND CORN HYBRID PLOT DESCRIPTION

COOPERATOR: Matt Helmke, Pickrell, NE

PLOT LOCATION: 9438 U.S. Highway 77, Pickrell, NE. From the Farmstead, 1/4 mile to the east. GPS Coordinates: 40.425185, -96.738572

PLOT SIZE: 3 Row Plots, 6 Check Plots, 15 Corn Hybrids

SOIL TYPE: Nodaway Silt Loam (0-2% Slope) Typical Profile: 0 to 7 inches: Silt Loam; 7 to 80 inches: Stratified Silt Loam

SOIL TEST:

Soil Ph	5.8
Organic Matter	3.3%
Phosphorous (M-P3)	109 ppm
Potassium (K)	265 ppm
Sulfate (S)	12 ppm
Zinc (DTPA)	3.46 ppm

CROP ROTATION: Corn After Soybeans

FERTILIZER: At Planting 120 lbs Actual N as a 2 by 2; 31 lbs Actual P205; 1 Qt Zinc Chelate and 1.5 Pts of Thiosol; 60 lbs Actual N as a Sidedress Application Top Dribble, Applied on June 24, 2017

TILLAGE: No-Till

HERBICIDE APPLICATION: Fall - 5 Oz Sencor Plus 1 Pt 2,4-D LV6
Preplant - None
Early Post - .75 Oz Armezon plus 1 Pt Atrazine 4L plus 1 Qt Powermax

PLANTING DATE: April 27, 2017

PLANTING POPULATION: 28,000

PLANTING EQUIPMENT: Kinzie 12 Row 3600

INSECTICIDE/FUNGICIDE: None

HARVEST INFORMATION: Harvested November 6, 2017 with JD 9600 6 row header, all grain measured in same weigh wagon; moisture and test weight samples taken to area elevator.

ADDITIONAL COMMENTS: Heavy rain event in mid-May and cool conditions had some effect on stand but outcome still very good. Growing Season Rainfall: 11.28 inches; May 4.45 in; June 2.76 in; July 1.67 in; August 2.40 in.

2017 SOUTHEAST NEBRASKA CORN GROWERS VARIETY TEST PLOT - DRYLAND

DRYLAND CORN PLOT

Cooperator: Matt Helmke

Check Variety: Producers 7268

6-Nov-17

Row Spacing 30

Std. Moisture 15.5

Std. Bu. Wt. 56

Harvested Rows 3

Plot	Hybrid	Plant	Stalk	Test		*Plot	Yield	**Adj	Rank	
		Pop (plants/ac)	Rot (%)	H2O (%)	Wt (lbs/bu)					Lbs
	Check 1 Producers 7268	24,000	9.0%	15.4	61.0	646	298.0	225.1		
1	Pioneer 1751 AM	25,500	0.5%	14.9	59.9	564	298.0	197.7	190.7	9
2	DeKalb 6088 RIB	20,250	1.5%	14.0	60.1	614	298.0	217.5	210.5	3
3	Golden Harvest G14V04 3000GT	16,000	0.0%	14.9	59.3	494	298.0	173.1	166.2	15
	Check 2	23,500	1.0%	14.5	60.9	631	298.0	222.2		
4	AgriGold A6652 VT2 RIB	24,500	1.5%	14.2	59.1	618	298.0	218.4	210.2	4
5	Prairie Brand R7443 PWRA	22,000	1.5%	15.2	58.7	568	298.0	198.4	190.2	10
6	Channel 21636 DGVT2 PRIB	24,000	0.5%	14.2	61.5	610	298.0	215.6	207.4	5
	Check 3	21,000	1.0%	14.1	60.6	626	290.0	227.6		
7	AgVenture AV8311 AM	19,250	3.0%	14.0	59.2	528	290.0	192.2	187.2	14
8	Fontanelle 15D657	24,250	2.5%	14.0	50.4	532	290.0	193.6	188.6	12
9	Golden Harvest G11B63 3010A	23,500	2.0%	14.2	59.7	578	290.0	209.9	204.9	7
	Check 4	24,000	1.0%	14.1	61.0	602	294.0	215.9		
10	Champion 65A17 BT2 PRIB	25,250	2.5%	14.6	59.1	498	274.0	190.5	195.1	8
11	Channel 217-41 DGVT2 PRIB	22,250	2.5%	14.4	58.9	584	294.0	208.7	213.3	2
12	Prairie Brand 6394 SX	24,750	1.5%	14.7	59.4	526	294.0	187.4	192.0	11
	Check 5	26,000	2.0%	14.3	61.3	590	298.0	208.3		
13	Fontanelle 16A826	25,250	2.0%	15.6	61.1	420	223.0	195.1	207.1	6
14	DeKalb DKC70-27 RIB	23,750	0.5%	15.0	60.9	562	277.0	211.7	223.6	1
15	Pioneer P0805 AM	24,000	4.5%	13.6	61.9	490	298.0	174.4	186.4	13
	Check 6	25,500	0.0%	14.0	61.3	568	298.0	201.2		

ALL PLOTS INCLUDING CHECKS

Averages 23,262 1.9% 14.5 59.8 204.0 bu/ac

CHECK PLOTS ONLY

Averages 24,000 2.3% 14.4 61.0 216.7 bu/ac

* One planted row was blank 60 feet so adjustment was made.

**One planted row was blank 64 feet plus actual plot length shortened due to combine operator adjustment

***Plot length shortened due to combine operator adjustment

Adjusted yield formula = average of the two nearby checks compared to the total average of all the check hybrids (216.7 bu/ac bu in this trial), then adjust the corn hybrid yield accordingly up or down.

Actual Raw Yield Spread = 174.4 to 217.5 bu/ac = 43.1 bu/acre

Check Hybrid Yield Spread = 201.2 to 225.1 bu/ac = 23.6 bu/ac