

2019 SOUTHEAST NEBRASKA CORN GROWERS ASSOCIATION

IRRIGATED CORN HYBRID PLOT DESCRIPTION

COOPERATOR: Tom Uhlman, Clatonia, NE

PLOT LOCATION: From Clatonia, intersection of Highway 41 and Southwest 100th Road, go ½ mile south on Southwest 100th Road, west side of the road on creek bottom. GPS 40.457836, -96.859881

PLOT SIZE: 4 Row Plots, 7 Check Plots, 16 Corn Hybrids

SOIL TYPE: Judson Silt Loam 0-2% Slopes and Nodaway Silt Loam

SOIL TEST:

Soil Ph	6.3		
Phosphorous (P)	30 ppm	Organic Matter	1.9%
Potassium (K)	225 ppm	Sulfur (S)	12 ppm
Zinc (Zn) (DTPA)	2.1 ppm	Boron (B)	---
Manganese (Mn)	66 ppm	Iron (Fe)	120 ppm
Copper (Cu)	1.8 ppm	CEC	13

TILLAGE / CROP ROTATION: No-till Corn into Soybean Stubble

FERTILIZER: Spring Pre-plant Application: 135 lbs NH₃ in April.
April 21 – 30 lbs MESZ dry 12-42-0-105-1Zn plus 50 lbs cal-sol gypsum plus 10 lbs K₂O as 0-0-60.
Starter: 4 ½ gallons of 6-24-6 plus 7 gallons 28-0-0 dribble behind row.
Sidedress Application at V4 stage: 35 lbs N as Urea.

HERBICIDE APPLICATION: Preplant: May 8, 2019, 1 pt SureStart plus 1 qt generic Lexar plus 24 oz 5 lb glyphosate plus 17 lbs AMS per 100 gallons of solution.
Post Applied: 1 qt Glyphosate (5 lb) plus 3 oz Callisto and 1 pt Atrazine.

PLANTING DATE: May 15, 2019

PLANTING POPULATION: 30,000 plants per acre

PLANTING EQUIPMENT: Kinzie 3600 16 row planter

INSECTICIDE/FUNGICIDE: Headline Amp 1.68SC 10 oz per acre by airplane at brown silk

IRRIGATION: 3 irrigations – 2.30 inches total gross application

HARVEST/PLOT INFORMATION: Harvested on November 6, 2019 with New Holland CR-7090 8 row head.

STALK ROT/STAND COUNTS: All replicated stalk rot and plant population counts were taken by Randy Pryor, Eric Stehlik, Lou Hajek and Nicole Stoner, Gage and Saline County Extension on October 15.

2019 SOUTHEAST NEBRASKA CORN GROWERS VARIETY TEST PLOT - IRRIGATED

IRRIGATED CORN PLOT

Cooperator: Tom Uhlman
 Check Variety: Renk RK 961 VT2P

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

Plot	Hybrid	Plant	Stalk	Test		Plot	Yield	Adj	Rank	
		Pop (plants/ac)	Rot (%)	H2O (%)	Wt (lbs/bu)					Lbs
	Check 1 Renk RK 961 VT2P	29,500	1.0%	16.2	58.8	1925	600.0	247.5		
1	Fontanelle 136519 VT Double PRO RIB DroughtGard Acceleron B	32,250	7.0%	16.7	59.1	1900	600.0	242.8	239.8	8
2	Fontanelle 130843 VT2P RIB VT Acceleron DX309	30,250	7.0%	16.4	59.5	1935	600.0	248.2	245.2	5
3	DKC 66-75 RIB VT2P RIB VT Acceleron B300	31,500	0.0%	16.6	60.1	1975	600.0	252.7	249.7	4
	Check 2 Renk RK 961 VT2P	34,000	11.0%	16.2	58.9	1935	600.0	248.8		
4	Champion 66A18 SS RIB (EHA 1803V)	33,000	2.0%	17.0	60.7	1810	600.0	230.5	226.7	15
5	Champion 65A17 SS RIB (CVC 1704V)	33,250	5.5%	16.1	58.7	1810	600.0	233.0	229.2	13
6	Pioneer P1370Q LL RR2 HX1	32,500	2.0%	16.1	58.7	1815	600.0	233.6	229.9	11
	Check 3 Renk RK 961 VT2P	33,500	9.0%	15.9	58.6	1930	600.0	249.0		
7	Pioneer P1828 AM LL HX1 Y6 Lumigen Acre MAX	34,000	3.5%	17.4	60.6	1910	600.0	242.1	238.0	9
8	Mycogen 2150 AM	33,500	4.5%	15.7	60.2	1790	600.0	231.5	227.4	14
9	Mycogen 2358 AM LLHX Y6 RR2 Lumigen Acre MAX	32,250	0.5%	15.7	59.5	1845	600.0	238.6	234.5	10
	Check 4 Renk RK 961 VT2P	34,500	13.0%	16.2	58.1	1940	600.0	249.4		
10	Golden Harvest G18D87-3111 Agrisure Viptera A500	33,250	8.0%	19.6	59.4	2080	600.0	256.6	251.4	3
11	Golden Harvest G15L32-3330 .0EZ1 Agrisure Viptera A500	33,250	22.5%	15.4	59.5	1705	600.0	221.3	216.1	16
12	DeKalb DKC7027 RIB VT2P RIB VT Disease Shield	34,000	2.0%	17.9	60.2	2100	600.0	264.5	259.3	2
	Check 5 Renk RK 961 VT2P	30,000	8.0%	16.0	58.7	1950	600.0	251.3		
13	Channel 213-19 VT2P RIB VT Double PRO Acceleron B300	30,750	1.5%	16.0	61.5	1930	600.0	248.7	244.2	6
14	Renk RK 965 SS TX	32,250	1.0%	16.6	61.1	1830	600.0	234.2	229.6	12
15	Channel 216-36DG VT2P RIB VT DoublePro Acceleron DroughtGard B300	32,500	4.0%	15.5	62.0	1850	584.0	246.4	241.8	7
	Check 6 Renk RK 961 VT2P	33,000	7.0%	16.2	58.8	1930	600.0	248.1		
16	Renk RK 961 VT2P	29,000	3.5%	15.5	58.3	1920	584.0	255.7	265.9	1
	Check 7 Renk RK 961 VT2P	30,000	3.0%	16.7	60.6	1690	584.0	221.9		

ALL PLOTS INCLUDING CHECKS

Averages 32,261 5.5% 16.4 59.6 243.3 bu/ac

CHECK PLOTS ONLY

Averages 32,333 6.6% 16.2 58.9 245.1 bu/ac

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 = 221.3 to 264.5 bu/ac = 43.2 bu/acre

Check Hybrid Yield Spread = 221.9 to 251.3 bu/ac = 29.4 bu/ac