

2019 SOUTHEAST NEBRASKA CORN GROWERS ASSOCIATION

DRYLAND CORN HYBRID PLOT DESCRIPTION

COOPERATOR: Matt Helmke, Pickrell, NE

PLOT LOCATION: From the intersection of Highway 41 and 77, east of Clatonia, go 2 miles south on Highway 77 to West Buckeye Road, then 1/8 mile east (south side of road). GPS 40.436260, -96.735543

PLOT SIZE: 3 Row Plots, 7 Check Plots, 18 Corn Hybrids

SOIL TYPE: Wymore Silty Clay Loam 2-3% Slopes

SOIL TEST:

| | |
|--------------------|---------|
| Soil Ph | 5.6 |
| Organic Matter | 2.8% |
| Phosphorous (M-P3) | 17 ppm |
| Potassium (K) | 250 ppm |
| Sulfate (S) | 8 ppm |
| Zinc (DTPA) | 0.9 ppm |

CROP ROTATION: Corn After Soybeans

FERTILIZER: At Planting: 10 gallons 28% UAN top dribble at planting plus 4 gallons 10-34-0 and 1 gallon ammonium thiosulfate.
Sidedress: 20 gallons 28% UAN and 1 gallon ammonium thiosulfate at V10.

TILLAGE: No-Till

HERBICIDE APPLICATION: Preplant: April 19 - 15 gallon 28% UAN plus 6 oz Dicamba plus 16 oz Roundup plus 32 oz Atrazine PowerMAX.
Post Spray: 3 pts Lexar plus 16 oz Roundup PowerMAX plus 10 lbs AMS per 100 gallons of solution.

PLANTING DATE: May 16, 2019

PLANTING POPULATION: 27,000

PLANTING EQUIPMENT: Kinzie 3600, 12 row planter

INSECTICIDE/FUNGICIDE: None

HARVEST INFORMATION: Harvested on November 5, 2019 with JD 9600 6 row header.

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 - DRYLAND

DRYLAND CORN PLOT

Cooperator: Matt Helmke

Check Variety: Golden Harvest 09Y24 Agrisure 3220 A.0-EZ1 A500

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) | | | | |
| | * Check 1 Golden Harvest 09Y24 | 20,000 | 36.0% | 15.8 | 59.7 | 1272 | 658.0 | 199.8 | |
| 1 | Channel 217-76 VT2P RIB VT Double PRO Acceleron B300 | 25,500 | 7.5% | 15.7 | 58.7 | 1300 | 658.0 | 204.4 | 202.7 11 |
| 2 | Channel 218-44 VT2P RIB VT Double PRO Acceleron B300 | 25,250 | 10.5% | 17.3 | 59.3 | 1480 | 658.0 | 228.3 | 226.6 1 |
| 3 | Champion 66A18 VT2 PRO (DNS1715A) | 25,000 | 2.0% | 15.9 | 60.2 | 1355 | 659.0 | 212.2 | 210.5 5 |
| | Check 2 Golden Harvest 09Y24 | 22,500 | 38.0% | 15.6 | 60.1 | 1295 | 660.0 | 203.3 | |
| 4 | Champion 64A15 DG VT2 (BQA 1805A) | 24,750 | 4.0% | 15.0 | 58.1 | 1205 | 661.0 | 190.2 | 189.2 16 |
| 5 | Mycogen MY13C17SS LL RR2 Smartstax Lumigen | 25,250 | 2.5% | 16.0 | 58.7 | 1405 | 662.0 | 218.8 | 217.8 2 |
| 6 | Mycogen 2410 AM | 24,500 | 7.5% | 15.6 | 56.0 | 1145 | 663.0 | 178.9 | 177.9 18 |
| | Check 3 Golden Harvest 09Y24 | 24,000 | 30.0% | 15.8 | 59.6 | 1275 | 664.0 | 198.4 | |
| 7 | Midland Genetics 656 PR RIB | 24,750 | 6.0% | 15.2 | 58.4 | 1195 | 665.0 | 187.0 | 189.5 14 |
| 8 | Midland Genetics 429 PR RIB | 27,250 | 4.5% | 16.3 | 60.1 | 1310 | 666.0 | 202.1 | 204.5 10 |
| 9 | Pioneer P1244 AM LL RR2 | 25,500 | 4.5% | 15.6 | 60.0 | 1335 | 667.0 | 207.3 | 209.8 6 |
| | Check 4 Golden Harvest 09Y24 | 23,500 | 31.0% | 15.0 | 59.7 | 1255 | 667.0 | 196.3 | |
| 10 | Pioneer P1138 AML LL RR2 HX Agrisure YG AcreMax Lumigen | 24,750 | 7.0% | 14.8 | 58.5 | 1185 | 668.0 | 185.5 | 182.6 17 |
| 11 | DeKalb DKC63-57 RIB VT Double PRO Acceleron B300 | 25,500 | 3.0% | 14.8 | 60.3 | 1265 | 668.0 | 198.0 | 195.1 12 |
| 12 | DeKalb DKC65-95 RIB VT Double PRO Acceleron B300 | 26,250 | 2.0% | 15.1 | 60.5 | 1340 | 669.0 | 208.7 | 205.8 8 |
| | Check 5 Golden Harvest 09Y24 | 26,000 | 32.0% | 15.7 | 61.0 | 1355 | 670.0 | 209.3 | |
| 13 | Fontanelle 14G498 Drought Guard VT Double PRO Acceleron B300 | 25,500 | 2.0% | 15.4 | 58.2 | 1210 | 671.0 | 187.2 | 189.2 15 |
| 14 | Fontanelle 16D719 VT Double PRO Acceleron B300 | 26,250 | 3.5% | 15.9 | 61.8 | 1335 | 672.0 | 205.1 | 207.0 7 |
| 15 | Golden Harvest G11B63-3010A.0 Agrisure Artesian A500 | 25,250 | 2.0% | 15.7 | 60.6 | 1365 | 673.0 | 209.9 | 211.8 4 |
| | Check 6 Golden Harvest 09Y24 | 25,000 | 27.0% | 15.7 | 58.2 | 1215 | 674.0 | 186.5 | |
| 16 | Golden Harvest G10L16-3330A.0-EZ1 A500 | 26,000 | 6.5% | 15.0 | 58.7 | 1195 | 655.0 | 190.3 | 194.3 13 |
| 17 | Renk RK 842 SSTX | 26,750 | 2.0% | 15.3 | 58.4 | 1335 | 655.0 | 211.9 | 215.9 3 |
| 18 | Renk RK 945 DG VT2P DroughtGard | 26,250 | 2.0% | 15.8 | 60.2 | 1320 | 676.0 | 201.8 | 205.8 9 |
| | Check 7 Golden Harvest 09Y24 | 24,500 | 28.0% | 16.9 | 59.6 | 1360 | 676.0 | 205.2 | |

ALL PLOTS INCLUDING CHECKS

Averages 25,030 12.0% 15.8 59.0 201.1 bu/ac

CHECK PLOTS ONLY

Averages 22,167 34.7% 15.8 59.7 199.8 bu/ac

* The first check plot is an average of all other checks as it was harvested at a different date.

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 = 178.9 to 228.3 bu/ac = 49.4 bu/ac

Check Hybrid Yield Spread = 186.5 to 205.2 bu/ac = 18.7 bu/ac