

AgroLiquid® High Management Corn Nutritional Study: Dryland

Objective: To evaluate the yield and economic impact of a corn liquid starter fertilizer and foliar nutritional program from AgroLiquid in a high management dryland environment. This trial consisted of the following:

Treatments and Placement:

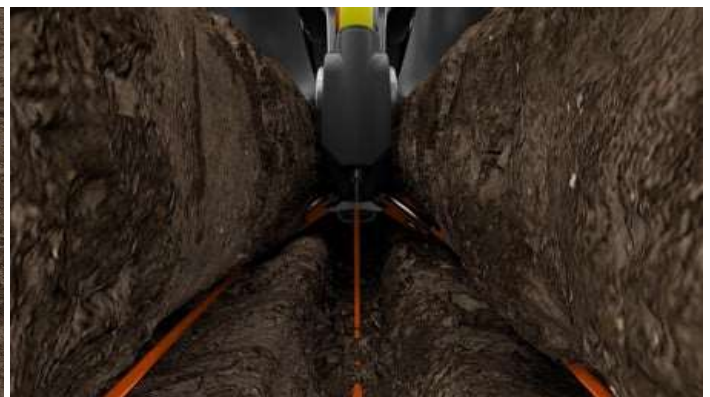
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|------------------------------------|---|
| #1. Control: | 200# DAP, 200# 0-0-60, Less R3 Fungicide, Less 40# N |
| #2 At-Plant Fertility: | |
| Conceal® Dual Band: (Figure 1.) | 3 Gal/A. accesS™, 27 Gal/A. 32% UAN |
| FurrowJet® Center: (Figure 2.) | 2 Gal/A. SpringUp®, 0.75 Gal/A. Micro500™ 0.25 Gal/A. LiberateCa™ |
| FurrowJet® Wings: (Figure 2.) | 2 Gal/A. ProGerm®, 2 Gal/A. Kalibrate™ 0.25 Gal/A. Boron, .25 Gal/A. LiberateCa™, 0.125 Gal/A. Manganese |
| #3 Post-Plant Applications: | |
| | V4: SideDress: 2 Gal/A. AccesS™, 2 Gal/A. Kalibrate™, 0.25 Gal/A. Boron |
| | VT: 1 Gal FertiRain™, 0.125 Gal/A. Boron, 0.125 Gal/A. Manganese, 1 Gal/A. Nresponse® |



Figure 1. Conceal Placement



Figure 2. FurrowJet® Placement



AgroLiquid® Corn Nutritional Study: Dryland Continued

All controls were planted at 36K seeding rates, while AgroLiquid treatments were evaluated at 36K, 38, and 40K seeding rates using both DeKalb 64-22 and Pioneer 1108Q. Control received -40# N (180# total N) and only one (VT) foliar fungicide pass, and 200# each of 18-46-0 and 0-0-60.

Irrigation on all treatments received 6" water throughout the growing season. High yield treatments received 13.7oz/A. of Miravis® Neo at VT and 13.7oz/A. of TrivaPro® at R3 growth stage, +40 additional N units and water conditioner.

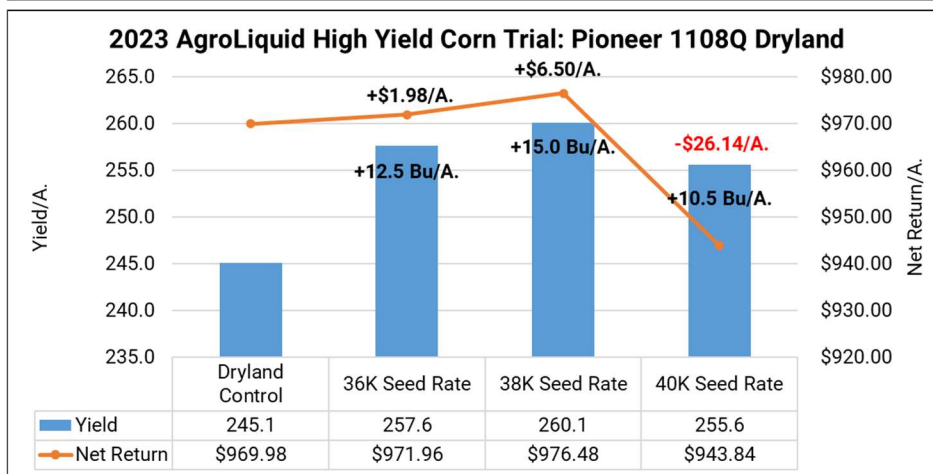
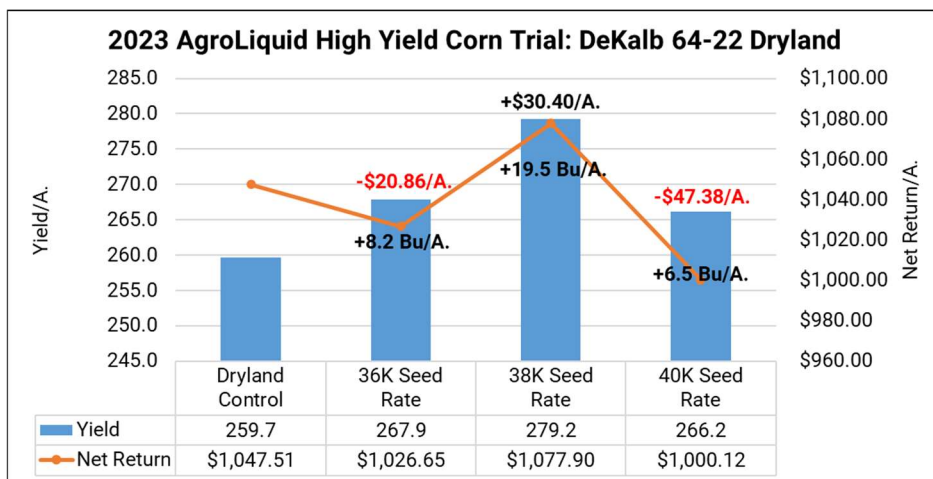
Results: DeKalb 64-22
achieved economic optimum at 38K seeding rates with +19.5 Bu/A. yield gain along with return of +\$30.40/A.

36K and 40K diminished yield gains by -11.3 to -13.0 Bu/A., and resulted in losses of -\$20.86/A. to -\$47.38/A. respectively.

Pioneer 1108Q offered economic optimum at 38K seeding rates with +15.0 Bu/A. yield gains and positive returns of +\$6.50/A.

Higher 40K seeding rates proved costly and tallied yield deficit of -4.5 Bu/A. with losses of -\$32.64/A. compared to optimum.

Dryland average yields were -30.2 Bu/A. compared to irrigated environments.



Planting Date: April 27th DKCC 64-22RIB, Pioneer 1108Q@ Population: 36K Row Width: 30" Rotation: CAB Corn Price: \$5.31
 Conceal® Program: \$21.09/A. FurrowJet® Program: \$101.87 (C:\$51.66) (W: \$50.21) SideDress Program: \$26.10/A. Foliar Program: \$23.77/A.
 DAP/Potash: \$870/\$770 (\$174) N Price: \$0.88/# (\$35.20/A.) Fungicide + Water Conditioner: \$30.40/A. Seed Cost: \$350/Bag