

AgroLiquid® High Management Corn Nutritional Study: Irrigated

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

Treatments and Placement:

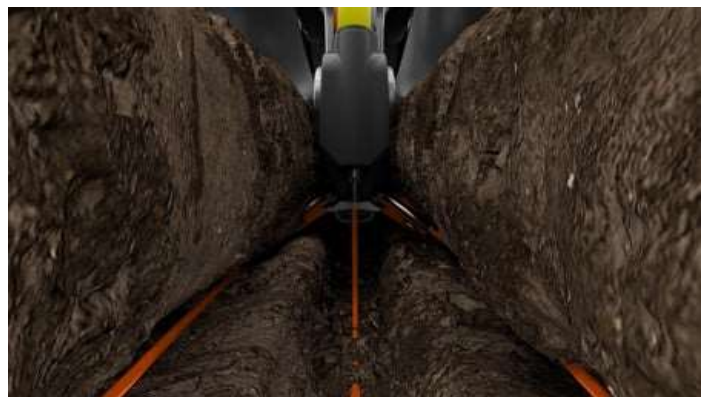
#1. Control:	200# DAP, 200# 0-0-60, Less R3 Fungicide, Less 40# N
#2 At-Plant Fertility:	
Conceal® Dual Band: (Figure 1.)	3 Gal/A. accesS™, 27 Gal/A. 32% UAN
FurrowJet® Center: (Figure 2.)	2 Gal/A. SpringUp®, 0.75 Gal/A. Micro500™ 0.25 Gal/A. LiberateCa™
FurrowJet® Wings: (Figure 2.)	2 Gal/A. ProGerm®, 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: Irrigated 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.

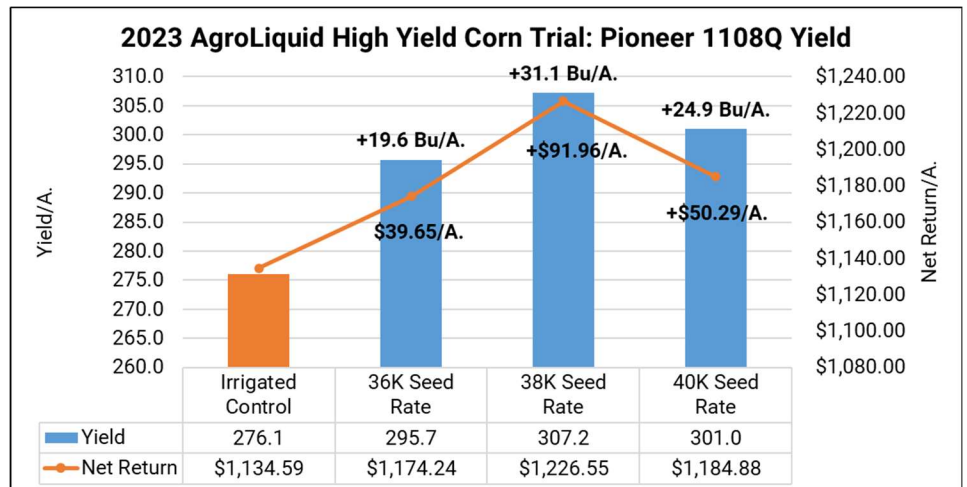
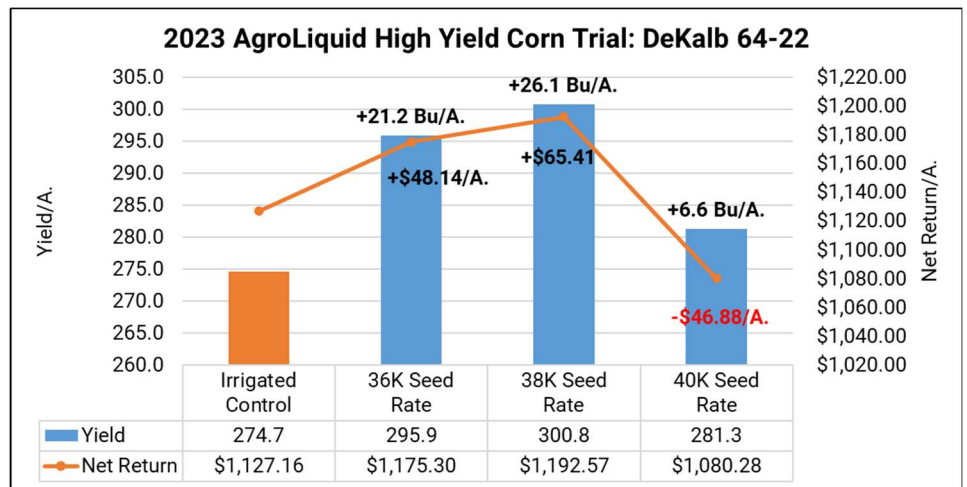
Irrigation on all treatments received 6" water throughout the growing season. High yield treatments received 13.7oz/A. of Miravis® Neo at VT and 13.7oz/A. of TrivaPro® at R3 growth stage, +40 additional N units and water conditioner.

Results: DeKalb 64-22 offered yield gains +21.2 to +26.1 Bu/A. increases at 36K and 38K seeding rates, however 40K rates diminished gains to only +6.6 Bu/A.

38K seeding rates proved economic optimum with a 300.8 Bu/A. yield, with an ROI at +\$65.41/A. 40K seeding rates resulted in losses of **-\$46.88/A.**

Pioneer 1108Q achieved economic optimum at 38K pops, with yield of 307.2 Bu/A. and an ROI at +\$91.96/A. The lower 36K pops resulted in -11.5 Bu/A. yield with **-\$52.31/A.** losses.

40K seeding rates proved too costly with yield deficit of **-6.2 Bu/A.** with losses of **-\$41.67/A.,** compared to economic optimum.



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