

2023 PTI Results

NewFields Ag™/NMS High Management Corn Study: Dryland

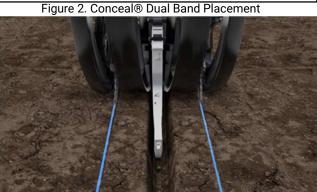
Objective: To evaluate the yield and economic impact of a corn liquid starter fertilizer and foliar/biological nutritional program from NewFields Ag[™] and Nutrient Management Specialists (NMS) in a high management irrigated environment. This trial consisted of the following:

Treatments and Placement:

| #1. Control: | 200# DAP, 200# 0-0-60, Less R3 Fungicide, Less 40# N | | |
|---------------------------------|--|--------------------------------------|--|
| #2 At-Plant Fertility: | Terrasym Dust 450: | Hopper Box Treatment | |
| FurrowJet® Center: (Figure 1.) | 16oz/A. Rizosphere: | Microbial Fermentation Manure/Kelp | |
| | 16oz/A. Phenom®: | Endophyte bacterial N efficiency | |
| | 16oz/A. lonFx™: | Bacteria, Archaea, and Fungi | |
| | NMS Mix: | Fish,Kelp,Sea Crop, + Fulvic Acid | |
| | | | |
| FurrowJet® Wings: (Figure 1.) | 16oz/A. Frenzy™: | Antioxidant Enzyme | |
| | | Stress Mitigation | |
| | NMS Mix: | Seeder Heater, Moly,Yucca, Zn/Mn SO4 | |
| | | | |
| Conceal® Dual Band: (Figure 2.) | NMS Mix: | 9-45-15 w/micros | |
| | | | |
| | | | |

| #3 Foliar Applications: | V4: | NewFields | 16oz/A. Frenzy™ |
|-------------------------|-----|-------------|--------------------|
| | VT: | NMS Mix: | 26-8-16 w/micros |
| | R3: | NMS Mix: | 26-8-16 w/microR3: |
| | NMS | Mix: 26-8-1 | 16 w/micros |







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NewFields Ag™/NMS High Yield Study: Dryland Continued

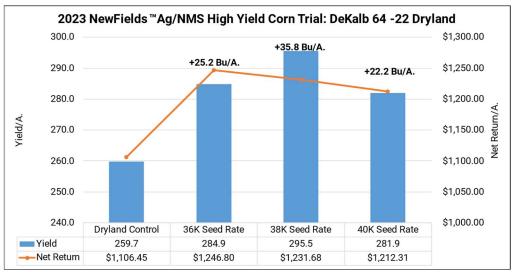
All controls were planted at 36K seeding rates, while NewFields Ag[™]/ NMS treatments were evaluated at 36K, 38, and 40K seeding rates using both Golden Harvest 15J91 and DeKalb 64-22.

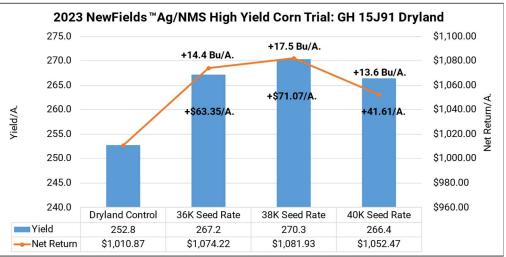
All treatments received 13.7oz/A. of Miravis® Neo at VT and 13.7oz/A. of TrivaPro® at R3 growth stage.

Results: DeKalb 64-22 achieved stellar yields in this dryland study with yields just under 300 Bu/A. Both agronomic and economic optimum were achieved at the 38K seeding rate with yield at 295.5 and return of +\$168.24/A.

Driving seeding rate from 36K to 38K, resulted in yield gains of +10.6 Bu/A., while pushing to 40K decreased -13.6 Bu/A.

Golden Harvest 15J91 offered both agronomic and economic return at the lowest 36K seeding rate with a yield of 270.3 Bu/A.





and returns of +\$71.07/A. Yields only varied by 3.9 Bu/A. from high to low pops.

Planting Date: April 25th

Hybrids: DeKalb 64-22VT2Pro, GH 15J91

High Yield Program: \$121.51/A. DAP/Potash: \$870/\$770

Population: 36K,38K,40K

Row Width: 30"

Rotation: CAC

Corn Price: \$5.31

N Price: \$0.88/# (\$35.20/A.)

Fungicide+Water Conditioner: \$30.40/A.