

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. IonFx™:	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:	26-8-16 w/micros

Figure 1. FurrowJet® Placement



Figure 2. Conceal® Dual Band Placement



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.

