

# SEA-90 Foliar with Reduced Nitrogen

Crop: Milo Grain Kansas 2015

## Goal:

Trial production of Milo grain with significantly reduced nitrogen applications combined with SEA-90 Foliar applications.



## Parameters:

**Total Area:** 100 acres (50 acres Test and 50 acres Control). Milo planted into wheat stubble on both 50 acre plots.

**All fertilizer applied as liquid: N = Nitrogen SEA-90 = SEA-90 Foliar Fertilizer**

**Control (Common Practice):** 80 lbs N per acre. Three applications: 50 lbs per acre pre-plant and 20 lbs per acre 3-4 leaf stage and 10 lb per acre 6-7 leaf stage.

**Trial: ( $\frac{1}{3}$  N + SEA-90):** 16 lbs N + 7 lbs SEA-90 per acre . Three applications: 9 lbs N per acre pre-plant. 3.5 lb N plus 3.5 SEA-90 per acre mixed in 9.5 gallons water per acre applied 3-4 leaf and 6-7 leaf stage.

**Cost:** Nitrogen - \$.55 per lb  
SEA-90 - \$.53 per lb (actual cost - product plus freight)

## Total Fertilizer Cost per acre:

**Control:** 80 lbs N = \$44 per acre X 50 acres = \$2,200  
**Trial:** 16 lbs N = \$8.8 per acre X 50 acres = \$440  
7 lbs SEA-90 = \$3.71 per acre X 50 acres = \$185.50  
Total = \$625.50

**Total Saved Test: \$1,574.50**

## Harvest Results:

BPA = Bushels per acre. TW = Test weight

**Market price paid per Bushel = \$6.10**

**Control:** 99 BPA (99 X \$6.10 = \$609.90) Paid: \$603.90 X 50 acres = \$30,195  
60 TW

**Test:** 142 BPA (142 X \$6.10 = \$866.20) Paid: \$866.20 X 50 acres = \$43,310  
60 TW

**Total additional Income plus fertilizer savings: \$14,689.50**

**Income - (Test) \$43,310 - (Control) \$30,195 = \$13,115**

**\$13,115 (additional harvest income) + \$1,574.50 (fertilizer savings) = \$14,689.50**