

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