

Seeding and Nitrogen Rate Effects on Wheat Yield

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Objective

To demonstrate possible effects of two seeding rates combined with two fertilizer rates on wheat yield.

Background

Crop Year:	1997	Soil Test:	pH 6.6; P 56ppm; K 284ppm
Cooperator:	Dennis Baker	Fertilizer Applied:	100# 18-46-0 & 100# 0-0-60 fall
County/Town:	Darke/ Greenville		Topdress on 4/11/1997 46-0-0
Drainage:	Subsurface	Herbicide:	2 qt. Hi-Dep on 5/16/1997
Major Soil Type:	Miami	Variety:	Freedom
Previous Crop:	Soybean	Planting Date:	October 15, 1996
Tillage:	None	Harvest Date:	July 16, 1997

Materials and Methods

Two replications were planted using 60 lb/A and 120 lb/A seeding rates in combination with 75 lb/A and 125 lb/A nitrogen top-dress rates. Plots were harvested with like replications together.

Results

Seeding Rate	Nitrogen Rate	Yield
60 lb/A	75 lb/A	47.7 bu./A
60 lb/A	125 lb/A	56.4 bu./A
120 lb/A	125 lb/A	63.8 bu./A
120 lb/A	75 lb/A	52.9 bu./A

Summary and Notes

Nitrogen was applied in the form of urea in early April. It appears that some of the nitrogen was lost, since the lower yields were on those plots where a "normal" rate of topdress N was applied.

For additional information, contact:

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