

Nitrogen Rate Trial

NR_14

Site Info

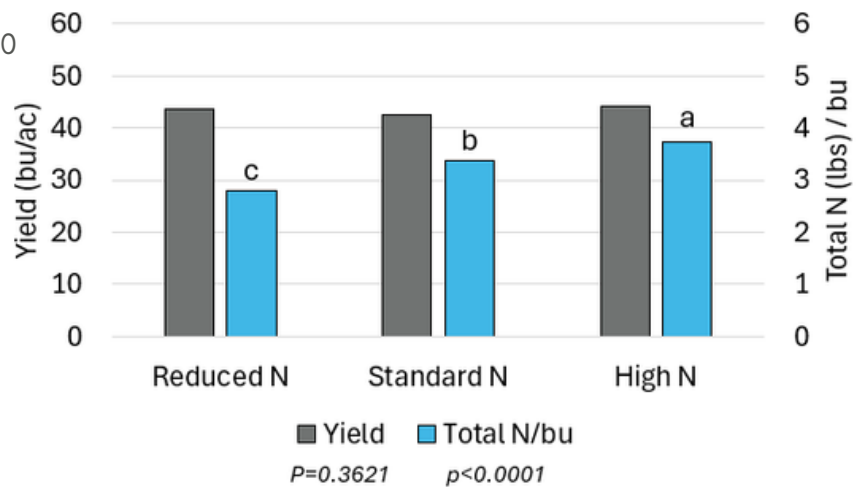
Trial ID: NR_14
Rural Municipality: Macdonald
Residual N (0-24"): 56 lbs. N/ac
Seeding Date: June 10, 2024
Seeding Equipment: Case IH Drill PD500
Variety: L340PC
Harvest Date: Sept 24, 2024

Nitrogen Application

Source: UAN (28-0-0)
Placement: Mid-Row Banded
Timing: Spring

Treatment	Fertilizer N Applied	Total N (Soil + Fert)
	<i>Lbs. N/ac</i>	<i>Lbs. N/ac</i>
Reduced N	65	121
Standard N	87	143
High N	109	165

Grain Yield and N Efficiency



Results Summary

Plant Establishment: N rate treatments did not influence plant establishment in this trial.

Tissue N: N rate treatments did not influence Tissue N at bolting in this trial.

Grain Yield: N rate treatments did not significantly influence grain yield in this trial.

Nitrogen Efficiency: The amount of N (soil + fert) used to produce a single bushel of grain yield was significantly increased from 2.8 to 3.7 with increasing N rates in this trial due to the lack of yield response as N application rates increased.

	Plant Counts at 4-leaf (ft ²)	N Tissue at Bolting (%)	Grain Moisture (%)
Reduced N	7.8	6.4	10
Standard N	7.6	6.8	10.1
High N	7.6	6.7	10

p-value 0.8119 0.0965 0.6806

	Apr	May	June	July	Aug	Sept	Total
Rainfall (mm)	29.5	51.5	132.8	69.4	74.4	55.6	413.2
Avg Daily Temp (C)	5.64	12.34	16.66	21.03	17.47	17.47	

Agronomic Support for this Trial Provided by:

