

Nitrogen Rate Trial NR_15

Site Info

Trial ID: NR_15

Rural Municipality: Minitonas-Bowsman

Residual N (0-24"): 31lbs N/ac

Seeding Date: May 28, 2024

Seeding Equipment: Bourgault 5710

Variety: L356PC

Harvest Date: Sept 15, 2024

Nitrogen Application

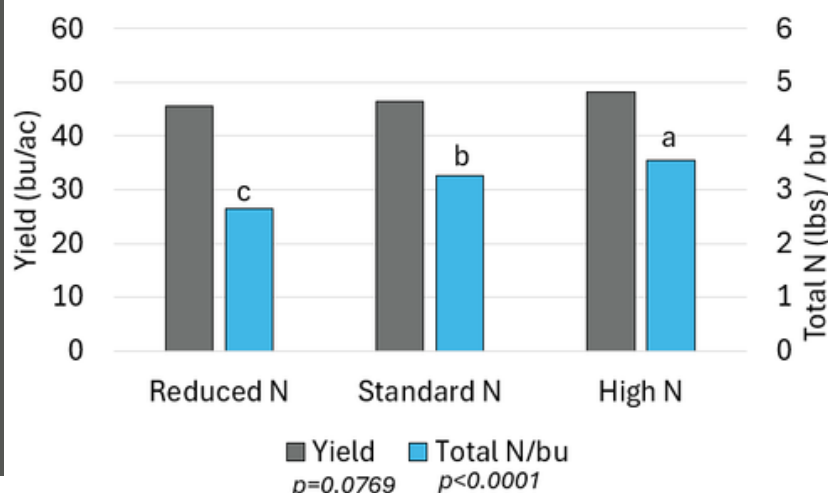
Source: Anhydrous Ammonia

Placement: Banded

Timing: Fall 2023

Treatment	Fertilizer N Applied	Total N (Soil + Fert)
	Lbs. N/ac	Lbs. N/ac
Reduced N	90	121
Standard N	120	151
High N	140	171

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 2.7 to 3.6 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	7.4	5.7	5.8
Standard N	8.1	6.1	5.8
High N	7.5	6.2	5.8

p-value 0.3533 0.0563 0.6141

	Apr	May	June	July	Aug	Sept	Total
Rainfall (mm)	36.8	65.3	63.0	32.3	33.9	27.8	259.1
Avg Daily Temp (C)	5.72	10.52	13.98	19.85	16.62	16.62	



Agronomic Support for this Trial
Provided by: