

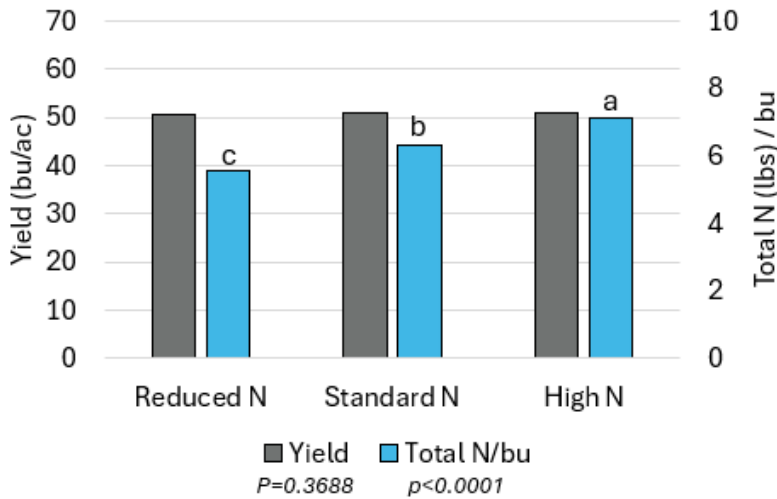
Nitrogen Rate Trial NR_13

Treatment	Fertilizer N Applied	Total N (Soil + Fert)
	Lbs. N/ac	Lbs. N/ac
Reduced N	149	281
Standard N	190	322
High N	231	363

Site Info

Trial ID: NR_13
Rural Municipality: Brokenhead
Residual N (0-24"): 132 lbs. N/ac
Seeding Date: May 23, 2024
Seeding Equipment: Bourgault 3820 (Air Planter)
Variety: L356PC
Harvest Date: Sept 9, 2024

Grain Yield and N Efficiency



Nitrogen Application

Source: Urea (46-0-0)
Placement: Mid-Row Banded
Timing: Seeding

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 5.5 to 7.2 with increasing N rates in this trial due to the lack of yield response as N applications rates increased.

	Plant Counts at 4-leaf (ft ²)	N Tissue at Bolting (%)	Grain Moisture (%)
Reduced N	6.6	5.6	8.5
Standard N	6.8	5.6	8.6
High N	6.7	5.8	8.6
<i>p-value</i>	0.6495	0.5173	0.7900

	Apr	May	June	July	Aug	Sept	Total
Rainfall (mm)	33	110.2	95.4	99.2	58.6	74.3	470.7
Avg Daily Temp (C)	6.16	12.34	16.57	21.04	17.97	17.97	



Agronomic Support for this Trial
Provided by:

