

Nitrogen Rate Trial NR_12

Site Info

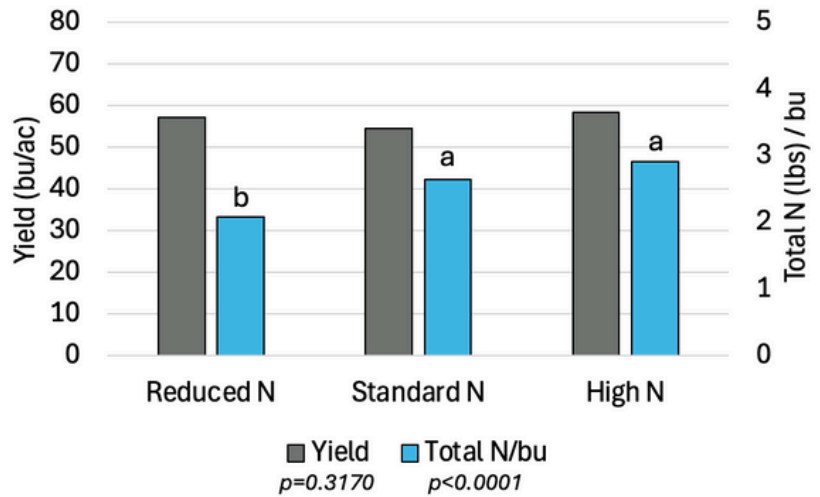
Trial ID: NR_12
Rural Municipality: Rhineland
Residual N (0-24"): 44 lbs./ac
Seeding Date: May 11, 2024
Seeding Equipment: John Deere Max Emerge 3 (Disc Drill)
Variety: L340PC
Harvest Date: Sept 6, 2024

Nitrogen Application

Source: UAN (28-0-0)
Placement: Stream
Timing: Pre-seed

Treatment	Fertilizer N Applied Lbs. N/ac	Total N (Soil + Fert) Lbs. N/ac
Reduced N	75	119
Standard N	100	144
High N	125	169

Grain Yield and N Efficiency



Results Summary

Plant Establishment: N Rate had no effect on plant establishment in this trial

Tissue N: N Rate had no effect on N Tissue content at bolting in this trial

Grain Yield: Yield was not significantly influenced by N rate treatments in this trial.

Nitrogen Efficiency: The amount of N used to produce a single bushel of grain yield was reduced with the low N rate treatment in this trial.

	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	

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