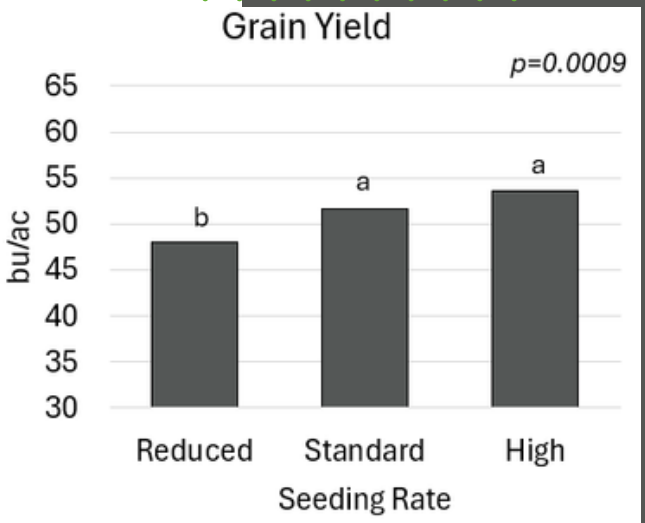
Seeding Rate Trial

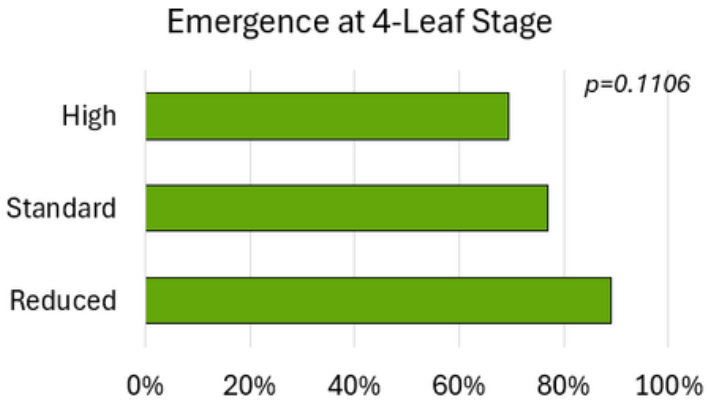
SR_13

Site Info

Trial ID: SR_13
Rural Municipality: Emerson - Franklin
Seeding Date: May 19, 2024
Seeding Equipment: John Deere DB88 (Planter)
Variety: L345PC
Seed Treatment: Lumiderm
TKW: 4.7 g/1000 seeds
Row Spacing: 22 in
Harvest Date: Sept 14,2024



Treatment	Seeding Rate		Plant Counts (ft2)	
	Lbs./ac	Seeds/ac	4 Leaf	Maturity
Reduced Seeding Rate (75%)	1.4	135,113	2.8 b	3.2 b
Standard Seeding Rate (100%)	2	193,018	3.4 b	4.7 a
High Seeding Rate (150%)	2.7	260,575	4.2 a	5.2 a
p-value			*0.0033*	*0.0009*



Results Summary

Plant Establishment: Overall plant population was lower than recommended target populations across this trial as seeding rates used were low. At the 4 leaf stage and maturity growth stages there was an increased plant stand as seeding rates increased. Plant stand was higher at maturity than 4 leaf for all treatments indicating that there was likely delayed germination across this trial. Emergence % was highest with the low seeding rate and lowest with high seeding rate, although this was not significant at the 95% confidence level.

Grain Yield: Due to the low plant populations in the trial there was a significant increase in grain yield as seeding rate increased.

Additional considerations: Risks associated with low plant populations outside the scope of this trial include reduced competitiveness against field pests.

	Apr	May	June	July	Aug	Sept	Total
Rainfall (mm)	33.6	122	90.6	60.4	60.6	115.7	482.9
Avg Daily Temp (C)	5.59	12.06	16.48	20.77	17.85	17.85	

Agronomic Support for this Trial Provided by:

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