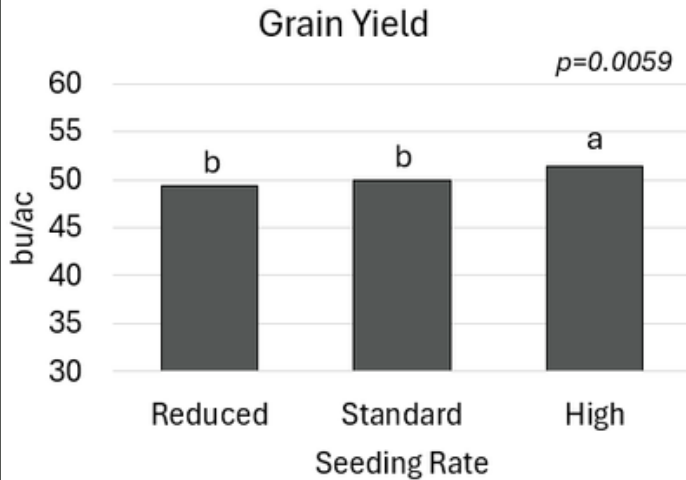


Seeding Rate Trial SR_16

Site Info

Trial ID: SR_16
Rural Municipality: Brokenhead
Seeding Date: May 23, 2024
Seeding Equipment: Bourgault 3820 (Air Planter)
Variety: L356PC
Seed Treatment: Lumiderm / Helix Vibrance / BUTEO Start
TKW: 4.7g/1000 seeds
Row Spacing: 10 in
Seed-placed Fertilizer: 38 Lbs/ac (11-52-0)
Harvest Date: Sept 9, 2024



Treatment	Seeding Rate		Plant Counts (ft ²)	
	Lbs./ac	Seeds/ac	4 Leaf	Maturity
Reduced Seeding Rate (75%)	1.5	135,000	2.7 c	4.3 b
Standard Seeding Rate (100%)	2	180,000	3.4 b	4.3 b
High Seeding Rate (150%)	2.5	225,000	4.4 a	4.7 a

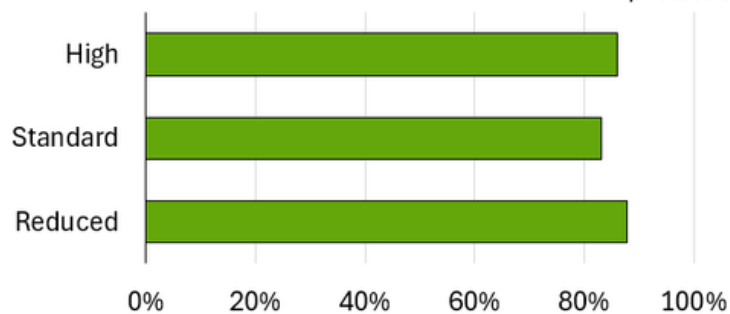
Results Summary *p-value*

0.0006 0.0005

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 at 4-Leaf Stage

p=0.6976



Emergence % was not significantly influenced by the seeding rate treatments in this trial.

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)	33.5	72.3	102	87.6	40.4	50.2	386
Avg Daily Temp (C)	5.39	11.93	16.57	20.64	17.87	17.87	

T·A·C



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**Agronomic Support for this Trial
Provided by:**