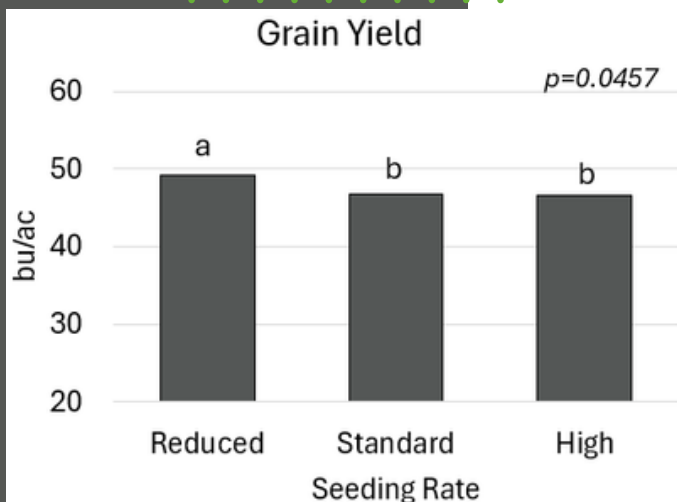




Seeding Rate Trial SR_18

Site Info

Trial ID: SR_18

Rural Municipality: Swan Valley West

Seeding Date: May 16, 2024

Seeding Equipment: Bourgault 3320 XTC

Variety: L358HPC

Seed Treatment: Helix Vibrance & Buteo

TKW: 4.1g/1000 seeds

Row Spacing: 10 in

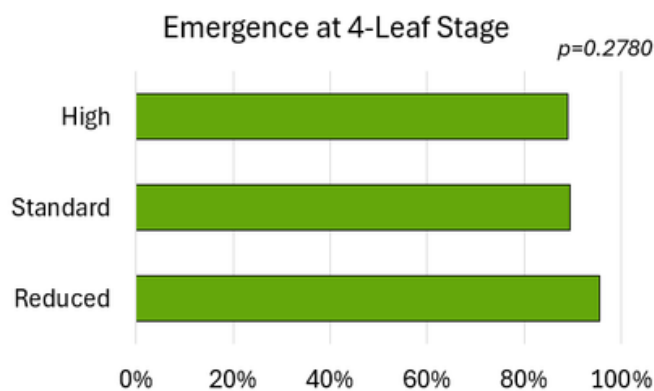
Seed-placed Fertilizer: 89 lbs/ac MES15 (12-29-0-14)

Harvest Date: Sept 24, 2024

Treatment	Seeding Rate		Plant Counts (ft ²)	
	Lbs./ac	Seeds/ac	4 Leaf	Maturity
Reduced Seeding Rate (75%)	3.4	376,488	8.3 b	7.2
Standard Seeding Rate (100%)	4.2	465,073	9.6 b	7.8
High Seeding Rate (150%)	5.1	564,732	11.5 a	8.1
<i>p-value</i>			0.0011	0.0643

Results Summary

Plant Establishment: Overall, plant populations were high across this trial, with populations from 8 – 12 plants/ft². Plant populations did increase as seeding rates increased at 4 leaf and maturity; however survival was reduced due to plant competition in the high seeding rate treatments. Emergence was similar for all treatments.



Grain Yield: The reduced seeding rate treatment did result in a significant 2.4 bu/ac yield advantage over the standard seeding rate in this trial. This was likely due to competitive stress imposed on the crop in the standard and high seeding rates.

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)	36.8	65.3	63	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:**

