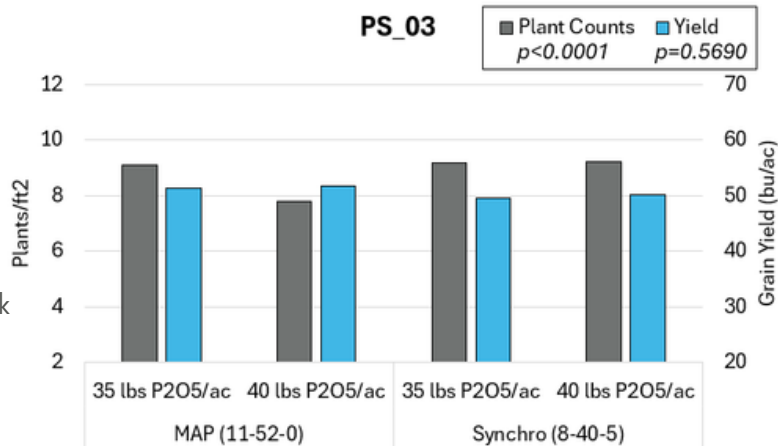


Phosphorus Source Trial

PS_03

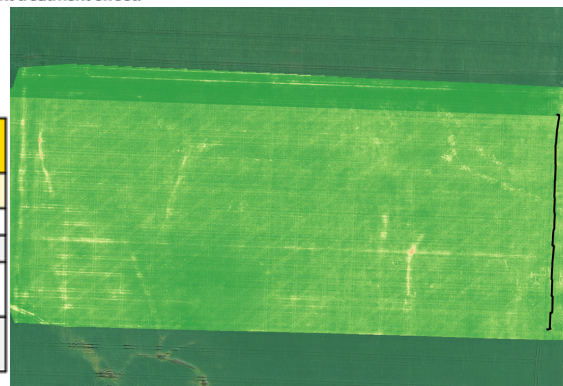
Site Info

Trial ID: PS_03
Rural Municipality: Swan Valley West
Seeding Date: May 14, 2024
Soil Residual P (0-6in): 4 ppm
Seeding Equipment: Bourgault 3320 Paralink
Opener Type: Knife
Row Spacing: 10 in
Seedbed Utilization: 20%
Seeding Rate: 4.2 lbs/ac (TKW 4.5)
Variety: L340PC
Harvest Date: Sept 9, 2024



*untreated treatment was not replicated. Treatments with similar lowercase letters within a data type are not statistically different at 95% confidence. Data types with no lowercase letters indicate an insignificant treatment effect.

Treatment	Phosphorus Source	Rate (lbs. P ₂ O ₅ /ac)	Total P @ Rosette (%)	Biomass (g/m ²)
1	MAP 11-52-0	35.2	0.62	1643
2	MAP 11-52-0	40	0.62	1456
3	Synchro Crystal Green	35.2	0.52	1223
4	Synchro Crystal Green	40	0.49	1233
<i>p-value</i>			0.0837	0.4442



Results Summary

Plant Establishment: When Crystal Green Synchro was compared to 11-52-0 (MAP) there was a significant increase in emergence and plant stand with Synchro when high rates of product were applied.

P Tissue and Biomass: There was no significant effect of P source on P tissue concentration or crop biomass at rosette stage in this trial.

Grain Yield: There was no significant of P source treatments on grain yield in this trial. P availability for canola uptake is highly dependent on environmental conditions, these results are all from a single location in a single year. Caution should be used when interpreting results and making management decisions from data with limited replication.

	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:

