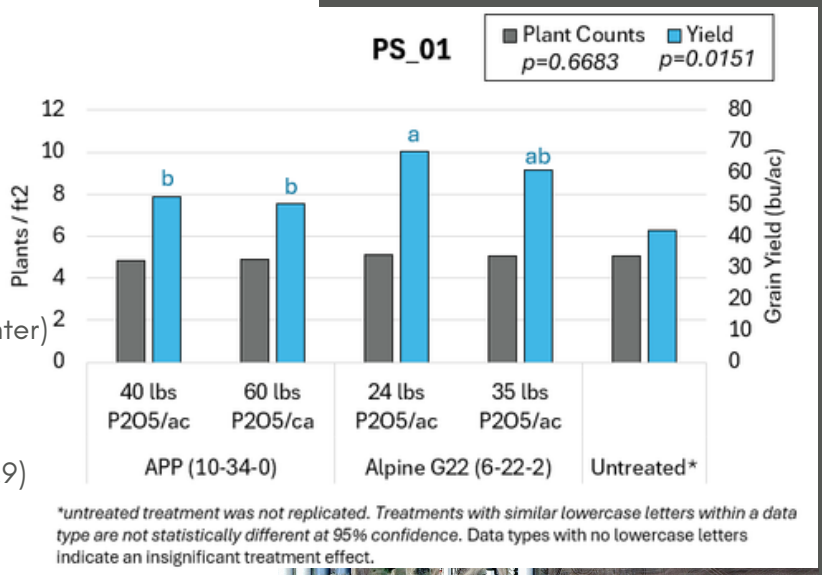
Phosphorus Source Trial

PS_01

Site Info

Trial ID: PS_01
Rural Municipality: North Norfolk
Seeding Date: May 11, 2024
Soil Residual P(0-6in): 7ppm
Seeding Equipment: John Deere 1790 (Planter)
Opener Type: Disc
Row Spacing: 15 in
Seedbed Utilization: 5%
Seeding Rate: 275,000 seeds/ac (TKW 5.9)
Variety: L345PC
Harvest Date: Aug 21, 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	Total P @ Rosette	Grain Moisture
		(lbs. P_2O_5/ac)	(%)	(%)
1	10-34-0	40	0.56	9.8 a
2	10-34-0	60	0.57	9.5 ab
3	ALPINE G22	24	0.52	9.2 ab
4	ALPINE G22	35	0.59	8.9 b
p-value			0.6246	0.0299

Results Summary

Plant Establishment: There was no significant effect of P source treatments or rates on plant establishment in this trial.
P Tissue: There was no significant effect of P source on P tissue concentration at rosette stage in this trial.
Grain Yield: The standard rate of Alpine G22 has a significant increase in grain yield compared to both rates of 10-34-0 (APP). Grain moisture was reduced with high rates of Alpine G22 compared to similar rates of APP.
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)	44.1	120.1	122.4	24.4	53	56.4	420.4
Avg Daily Temp (C)	5.65	11.11	15.78	20.75	17.09	17.09	

Agronomic Support for this Trial Provided by:

TONE AG CONSULTING LTD.