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# Zinc and Molybdenum on Dryland Spring Canola

Genesee, ID

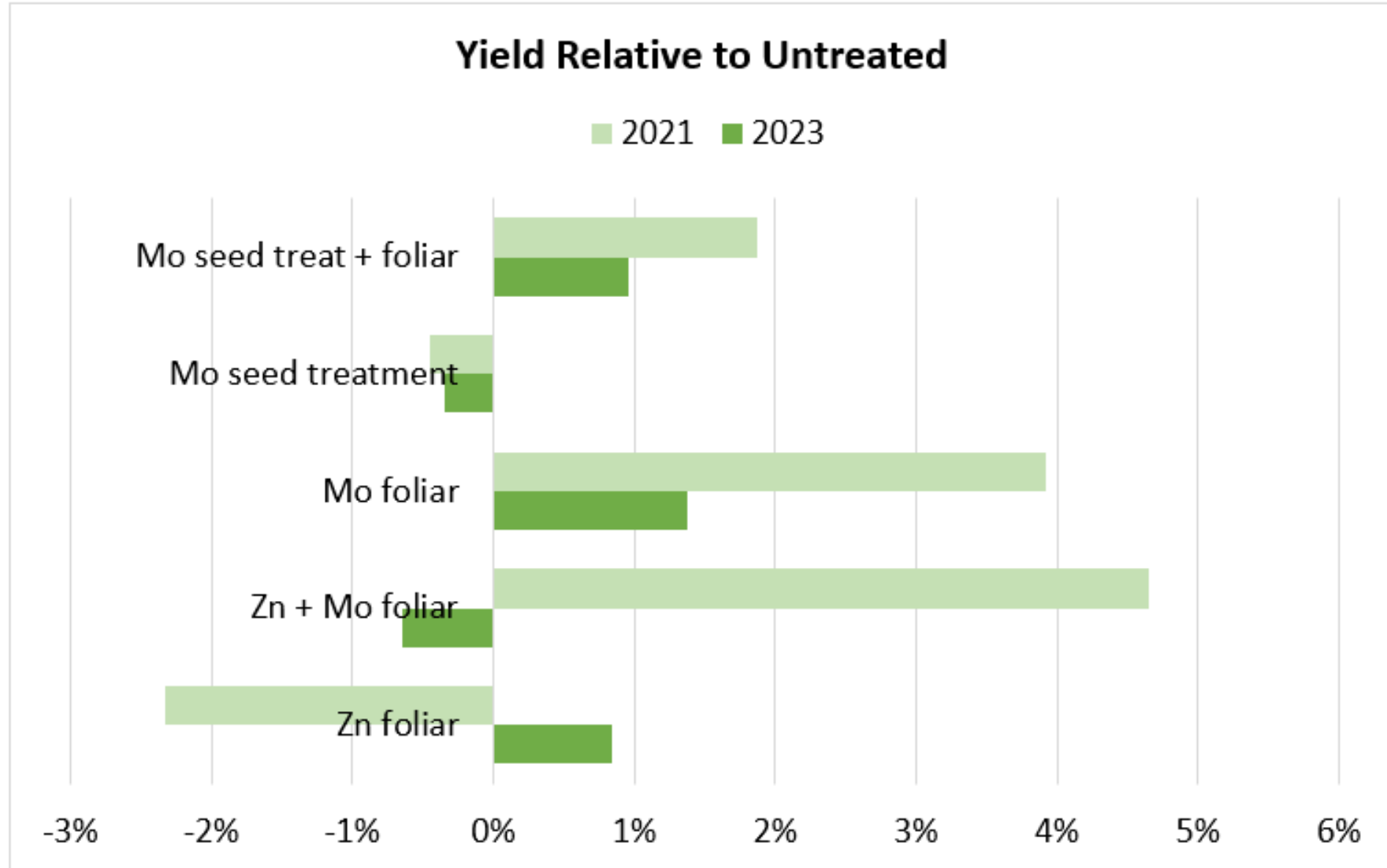
Funded by Idaho Oilseed Commission



# Zinc and Molybdenum on Dryland Spring Canola

Trial Treatments			
<i>Treatment</i>	<i>Product</i>	<i>Product Rate</i>	<i>Element Rate</i>
Zinc foliar	Zinc EDTA 9%	16 fl oz/ac	1.4 oz/ac
Zinc + Molybdenum	Zinc EDTA 9% Sodium molybdate 39%	16 fl oz/ac 8 fl oz/ac	1.4 oz/ac 3 oz/ac
Molybdenum foliar	Sodium molybdate 39%	8 fl oz/ac	3 oz/ac
Molybdenum seed treatment	Sodium molybdate 39%	1.3 oz/bu	0.5 oz/bu
Molybdenum seed treatment + foliar	Sodium molybdate 39% Sodium molybdate 39%	1.3 oz/bu 8 fl oz/ac	0.5 oz/bu 3 oz/ac
Untreated	n/a		

# Zinc and Molybdenum on Dryland Spring Canola



# Herbicides on Conventional Dryland Spring Canola

Genesee, ID

Funded by Idaho Oilseed Commission & Caldbeck Consulting



# Herbicides on Conventional Dryland Spring Canola

<i>Product</i>	<i>Active Ingredient</i>	<i>Herbicide Group</i>	<i>Manufacturer</i>
Dual Magnum II*	S-metolachlor	15	Syngenta
Outlook*	Dimethenamid-P	15	BASF
Command	Clomazone	13	FMC
Devrinol*	Napropamide	15	UPL
Poast	Sethoxydim	1	BASF
Clethodim	Clethodim	1	Generic (Albaugh)

\*product not currently registered for use in canola

# Herbicides on Conventional Dryland Spring Canola

- Heavy ryegrass pressure
- Many pre-plant and pre-emerge treatments resulted in possible rye stunting and some led to rye injury, but little true control
- Post-emerge treatments not effective
- No phytotoxicity from any program
- No yield differences between treatments

# Specialty Products on Dryland Spring Canola

Genesee, ID

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Trial Treatments			
<i>Product</i>	<i>Application Method/Timing</i>	<i>Rate</i>	<i>Manufacturer and Details</i>
Utrisha N	Foliar, at herbicide timing	5 oz/ac	Corteva N-fixing bacteria
Spectrum NFB	Soil, in-furrow at plant	75 g/ac	Tainio N-fixing bacteria
BioBoost	Streamed, at herbicide timing	8.8 fl oz/ac	Lallemand PGPR
Voyagro	Foliar, at bloom	8 fl oz/ac	Winfield biostimulant fertilizer
NutrioUnlock	Soil, in-furrow at plant	3 pt/ac	Wilbur Ellis soil microbiology and catalysts
Advantigro	Foliar, at herbicide timing	6 fl oz/ac	Wilbur Ellis plant growth regulators
Guarantee Complex	Foliar, at herbicide timing	1 qt/ac	Ocean Organics seaweed extract
Edaphos 6	Soil, in-furrow at plant	1 gal/ac	Soil Basics humic acid
Radiate	Foliar, at herbicide timing	2 fl oz/ac	Loveland plant growth regulators
Accomplish LM	Soil, in-furrow at plant	2 pt/ac	Loveland soil microbiology and catalysts
Heat Shield + Nutri-Cycle	Seed treatment		Hefty soil microbiology
Alpha Complete	Foliar, at herbicide timing	10 fl oz/ac	Hefty amino acids
Zypro	Soil, in-furrow at plant	8 fl oz/ac	Helena soil enzymes
Untreated	n/a	n/a	n/a

# Specialty Products on Dryland Spring Canola

Ranked Yield Compared to Untreated	
<i>Treatment</i>	<i>Yield Increase/Decrease Relative to Untreated (%)</i>
Radiate	15.7%
NutrioUnlock	12.2%
Voyagro	8.1%
Utrisha N	4.3%
Edaphos 6	4.0%
Advantigro	-0.9%
Zypro	-1.4%
Spectrum NFB	-4.6%
BioBoost	-5.0%
Guarantee Complex	-6.6%
Accomplish LM	-8.8%
Heat Shield + Nutri-Cycle	-12.9%
Alpha Complete	-16.5%



# 10-34-0 Starter Safety on Dryland Spring Canola

Genesee, ID

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# 10-34-0 Starter on Dryland Spring Canola

Trial Treatments			
<i>Treatment (lb of P<sub>2</sub>O<sub>5</sub>/10-34-0 rate)</i>	<i>10-34-0 Concentration at 7.5" Row Spacing</i>	<i>10-34-0 Concentration at 10" Row Spacing</i>	<i>10-34-0 Concentration at 12" Row Spacing</i>
10 lb (2.6 gal/ac)	1X	1.33X	1.6X
20 lb (5.1 gal/ac)			
30 lb (7.7 gal/ac)			
40 lb (10.3 gal/ac)			
50 lb (12.8 gal/ac)			
Untreated	N/A		



0 lb P<sub>2</sub>O<sub>5</sub>  
(0 gal/ac 10-34-0)



10 lb P<sub>2</sub>O<sub>5</sub>  
(2.6 gal/ac 10-34-0)



20 lb P<sub>2</sub>O<sub>5</sub>  
(5.1 gal/ac 10-34-0)



30 lb P<sub>2</sub>O<sub>5</sub>  
(7.7 gal/ac 10-34-0)



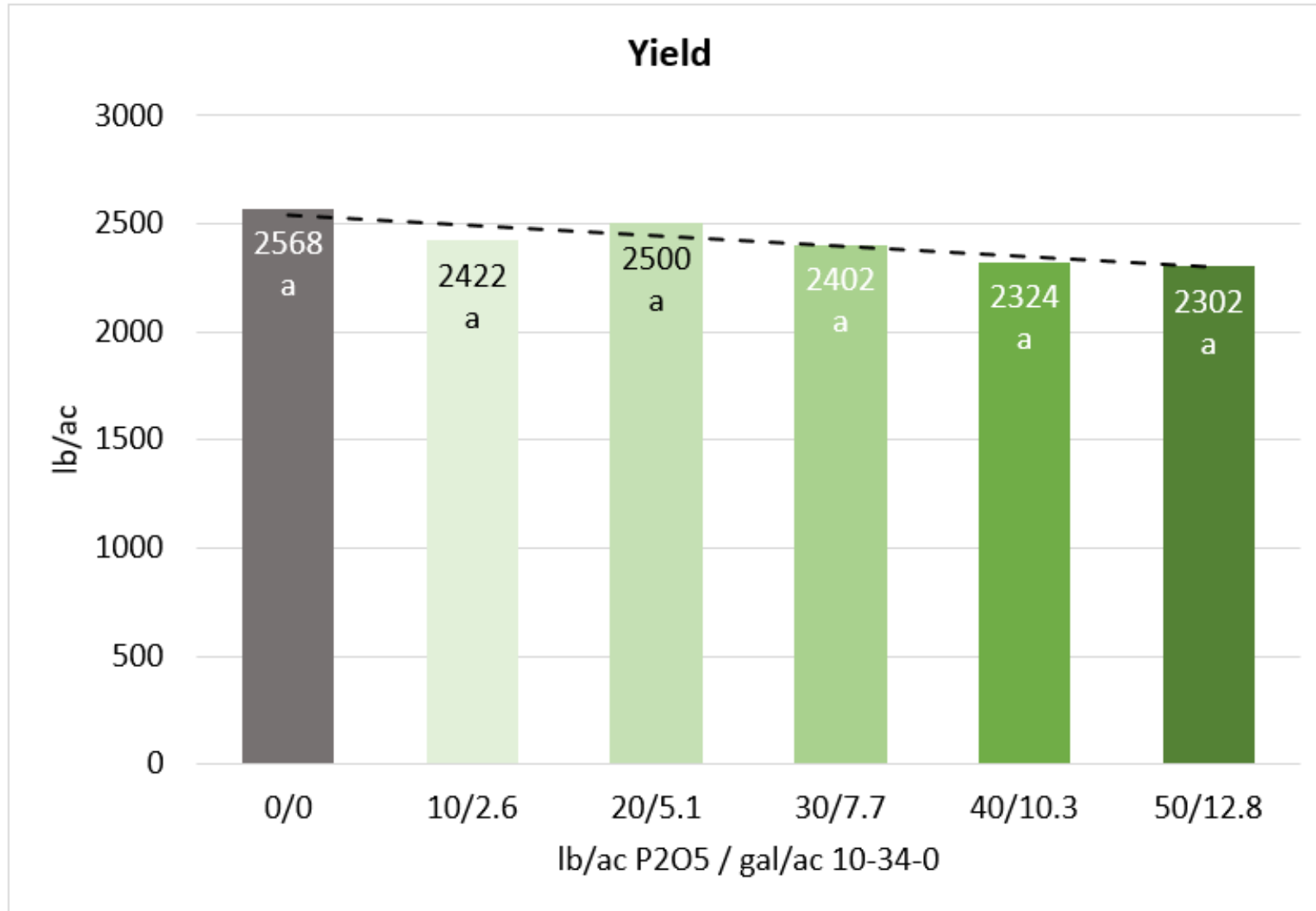
40 lb P<sub>2</sub>O<sub>5</sub>  
(10.3 gal/ac 10-34-0)



50 lb P<sub>2</sub>O<sub>5</sub>  
(12.8 gal/ac 10-34-0)



# 10-34-0 Starter on Dryland Spring Canola



# Thank you!

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