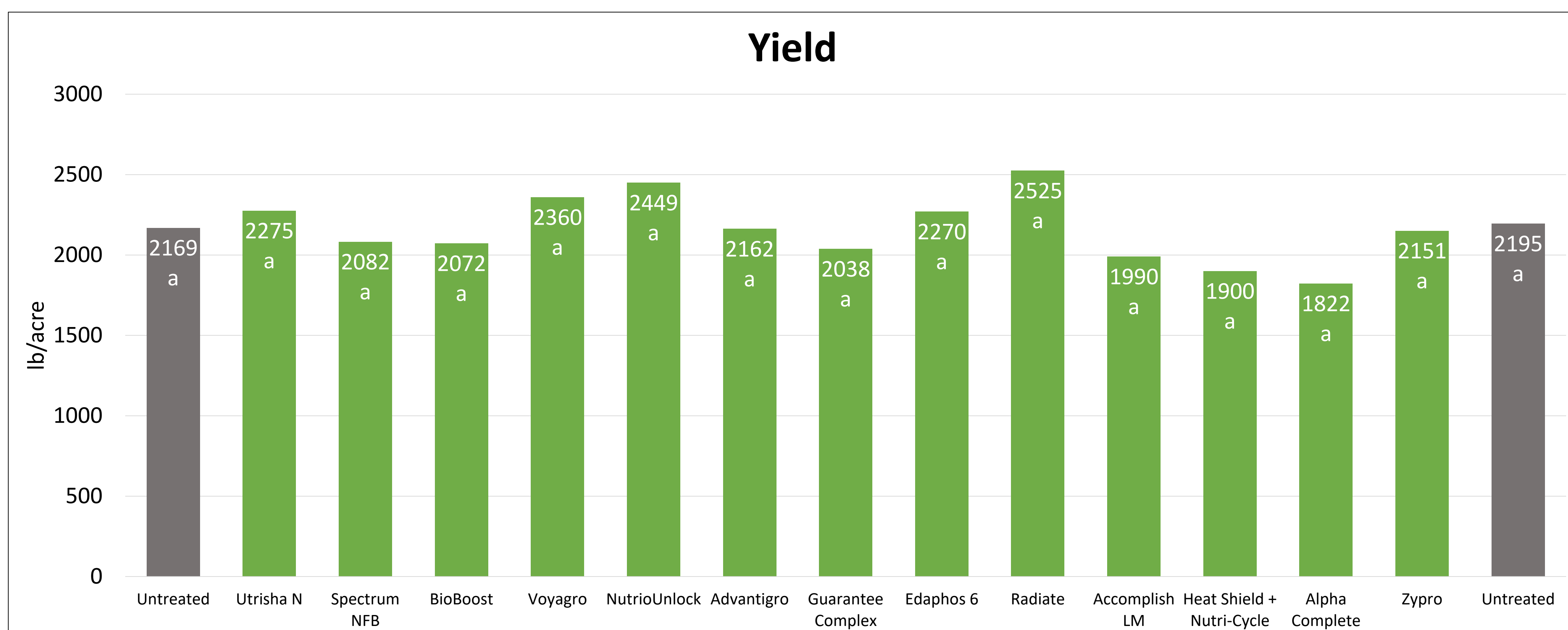


# Specialty Products on 2023 Spring Canola in the Palouse



Trial Treatments			
Product	Application Method/Timing	Rate	Manufacturer and Details
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



Ranked Yield Compared to Untreated	
Treatment	Yield Increase/Decrease Relative to Untreated
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%

- 9978TF at 5 lb/ac was planted May 11 in 5' x 20' plots, maintained with grower standard practices, and harvested September 11.
- Treatments were replicated 6 times in an RBCD and applied with the drill (in furrow starters) or CO<sub>2</sub> backpack sprayer (foliar).
- No clear or consistent visual differences between treatments were evident.
- No treatments caused phytotoxicity.
- No differences in moisture, test weight, yield, or gross return were statistically significant.
- **Additional research in future years can solidify product performance consistency and allow for observation under different climate conditions.**
- This research was funded by the Idaho Oilseed Commission.

