

3rd party Potato Trial 2025 Whitewater, WI Objective: This trial evaluated the effectiveness of a broad-spectrum biological program (LiquiLife+) under reduced fertility conditions in potato production.

Potatoes are nutrient-demanding crops that perform best in loose, well-drained soils with balanced fertility. Nitrogen supports early canopy growth, phosphorus drives root development, and potassium is essential for tuber bulking. The nutritional inputs are required at multiple stages of growth starting from pre-planting, at planting to hilling. In this trial BioActive-Purple Cow Organics collaborated with TriYield to measure the efficacy of BioLife as a potential carbon-based food source for LL+.

Fertility input in the trial:

Fertility	Rate	Timing
Urea (46-0-0)	100 lbs/ac	Pre-plant and sidedress
MAP (11-52-0)	100 lbs/ac	Pre-plant only
Muriate of Potash (0-0-62)	200 lbs/ac	Pre-plant and sidedress
AMS (21-0-0-24S)		Pre-plant only

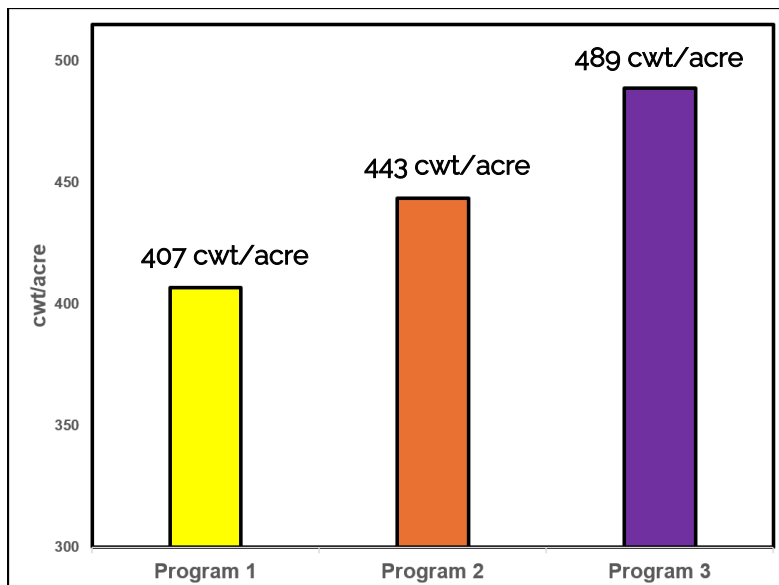
Description of fertility reduction programs:

Program	Description	Yield Gain (cwt/ac)	ROI/ac
Program 1 (P1)	100% Grower's Standard Program (GSP)	-	-
Program 2 (P2)	90% of GSP with LL+ and LSC*	36	\$182
Program 3 (P3)	90% of GSP with LL+ and BioLife**	82	\$596

*LSC; Liquid Super Charger with a carbon-based food source for LL+

**BioLife is a high energy carbon-based food source for LL+ from

TriYield



Key agronomic takeaways from the trial:

- A 10% reduction in fertility saves \$26/ac
- +36 cwt/ac increase in potato yield with LL+ and LSC with a ROI of \$182
- +82 cwt/ac increase in potato yield with LL+ and BioLife with a ROI of \$596