

..... Ocean  Organics®

Guarantee®

Seaweed Extract

Increases POTATO Yields

Application of Guarantee® Seaweed Extract increases yields and size of potatoes in two recent trials.

TRIAL 1

CROP

Russet Norkotah Potatoes

STUDY OBJECTIVES

To assess the overall production enhancement provided by application of **Guarantee®** compared to a grower standard fertility program.

LOCATION/SCIENTISTS

Michigan State University

Investigators: Robert Schafer & William Kirk (Mid Michigan Agronomy)

STUDY DESIGN:

Replicated trial with Ocean Organics' **Guarantee®** seaweed extract applied at 2 quarts/acre in the furrow at planting, then

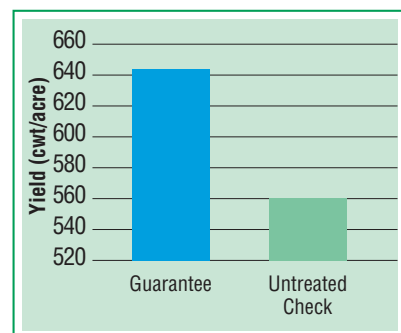


again three times via foliar application (at hook stage, followed by applications roughly 14 days apart). Applications made on 5/29/14, 6/16/14, 6/30/14, 7/14/14. Randomized complete block design.

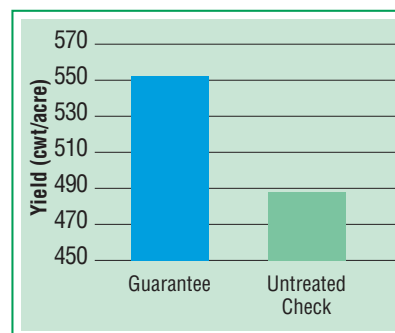
RESULTS:

Application of **Guarantee®** seaweed extract increased total yield. **Guarantee®** applications also increased yield of large potatoes (US-1). This is significant because growers get more income for larger potatoes. We estimate that **Guarantee®** gave an advantage of \$985 per acre yield increase (based on an estimate of \$12/cwt).

Trial 1 Total Yield Per Acre



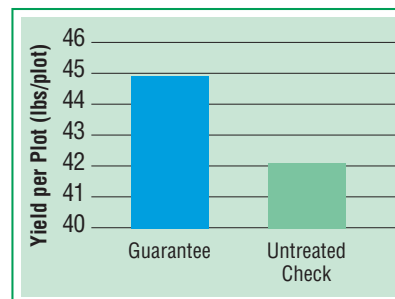
Yield of Large (US-1) Potatoes



Trial 2 Yield and Sizing

	Untreated Check (lbs)	Guarantee Organic (lbs)
Gross weight	45.04	48.6
Less than 2" (subtract)	2.93	3.65
Net Weight	42.11	44.95
Greater than 10 oz.	9.11	12.3

Yield of Mid-Grade and Large Potatoes



This study showed a \$336 per acre increase; having more 10 oz. potatoes delivered an *additional* \$7.00 per acre.

TRIAL 2

CROP

Yukon Gold Table Potatoes

STUDY OBJECTIVES

To assess the overall production enhancement provided by application of Ocean Organics' **Guarantee® Organic** seaweed extract compared to a grower standard fertility program.

LOCATION/SCIENTISTS

St. Agatha, Maine

Grower cooperative trial coordinated by Northeast Agriculture

STUDY DESIGN:

Guarantee® Organic was applied three times at 1 pint/acre to plots. Averages were based on data from plots that were 1/1000th of an acre. The first application went on during the third week of July; following applications were 2 weeks apart.

RESULTS:

From Northeast Agriculture report:

*In this trial of table stock potatoes, **Guarantee® Organic** gave an advantage of 28 hundred weight (cwt). We deducted the potatoes smaller than 2" in diameter, and applied a premium to potatoes heavier than 10 oz. Local price for mid-grade potatoes was \$12.00 per cwt. For the 10 oz. premium, we applied the locally accepted \$2.00 extra per cwt.*

*Using these metrics, **Guarantee® Organic** gave an advantage of \$336 per acre yield increase; having more 10 oz. potatoes delivered an additional \$7.00 per acre.*

The grower's investment in **Guarantee®** was under \$20.00 per acre.



Ocean Organics®

Manufacturing

Waldoboro, Maine • 888-312-0106

Administration

Ann Arbor, Michigan • 800-628-GROW (4769)
oceanorganics.com