



ON POTATOES

# Turn on your spud production!



## BENEFITS TO POTATOES

- Increases tuber set
- Improves nutrient uptake
- Mitigates environmental stresses
- Improves overall yield

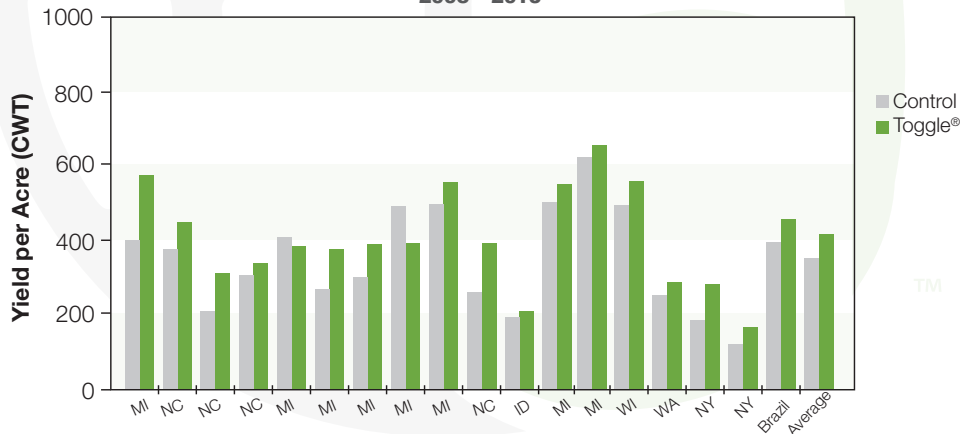
Specially developed for row crops, Toggle® is an innovative technology that is scientifically proven to boost yields. It works at the cellular level to improve plant growth and development. Through its complex array of specific active compounds, Toggle® enhances root development and nutrient uptake while increasing stress resistance, allowing crops to reach their full yield potential.

## TOGGLE® IMPROVES YIELD AND QUALITY

Increase your potato yields by driving maximum growth, nutrition and stress management with Toggle®. You will harvest more high-quality tubers!

## SUMMARY OF POTATO TRIALS

2008 - 2015



Varieties included red, russet, chippers and seed potatoes.  
Average increase in these trials was 60 CWT, or 16%.

# HOW DOES TOGGLE® BENEFIT POTATOES?

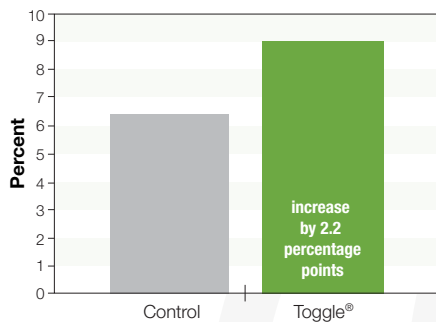
**INCREASES TUBER SET** Toggle® influences a key metabolic pathway associated with tuber set. Applications at early tuber initiation assure a strong first set for robust #1 yields. Toggle® contains unique bioactive compounds that stimulate the jasmonic acid pathway. Jasmonic acid induces potato tuberization – this compound's key role in strong, healthy yields.



Jasmonic acid induces pathways responsible for tuber set.

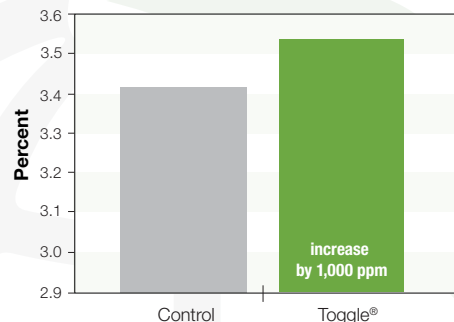
**IMPROVES NUTRIENT UPTAKE** Toggle® allows your crop to make the most of your fertility program. Treated potatoes have shown higher levels of nitrogen and calcium compared to untreated. Good nutrition enhances growth, leading to higher yield and improved storability.

## CALCIUM LEVEL IN THE TUBERS OF SUPERIOR POTATOES



Potatoes treated with Toggle® had higher levels of calcium in the tubers.

## NITRATES LEVEL IN THE LEAVES OF RUSSET POTATOES



Sample was the youngest mature compound leaf (leaflet and petiole) from 30 plants. This corresponds to the fourth or fifth leaf from the top of the plant.

Plants with stronger root systems absorb more water and nutrients from the soil, resulting in a stronger, more productive crop. In addition, Toggle® contains natural complexing sugars which bind to micronutrients, thereby improving their translocation and bioavailability within the plant.

**MITIGATES ENVIRONMENTAL STRESSES** Potatoes are subject to many environmental stresses. Toggle® prepares them to better handle these stresses, so your crop can reach its full yield potential! With its numerous bioactive compounds such as mannitol, unique polysaccharides and betaines, Toggle® improves plants' tolerance to a variety of stressful growing conditions including drought, heat, chill and salinity stress.

## IMPROVES OVERALL YIELD

Toggle® gives your crop strong early growth, outstanding first crop tuber set, good nutrition and the ability to tolerate even the toughest growing conditions. In addition, it works at a cellular level by improving the nutritional status of your crop, leading to increased yields.

## RATES AND TIMINGS

- 1st application:** 8 ounces per acre in-furrow or banded at planting - OR - with row starter
- 2nd application:** 40 to 48 ounces per acre at tuber initiation and two weeks after tuber initiation treatment
- 3rd application:** 40 to 48 ounces per acre through late tuber set (if more potatoes are desired) Additional applications can be made 3 to 5 days prior to an anticipated plant stress.

Toggle® mixes well with nutrients and other agricultural products.

**Acadian Plant Health**  
Sustainably Empowering Plants.

Toll Free: 1 800 575 9100  
Tel: +1 902 468 2840 • [info@acadian.ca](mailto:info@acadian.ca)  
[www.acadianplanthealth.com](http://www.acadianplanthealth.com)  
[www.youtube.com/acadianplanthealth](http://www.youtube.com/acadianplanthealth)

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