

# Potato | Trial Sheet

## Increasing potato yield with Biostart products



### How it works

**Mycorrcin** is a soil biostimulant that activates beneficial microbes in your soil, stimulating healthy root growth and development leading to enhanced nutrient uptake and better crop establishment.

**Foliacin** is a foliar-applied plant health stimulant that helps plants to withstand environmental stress.

### Potato Trials

Trials show that **Mycorrcin**, or a combination of **Foliacin** and **Mycorrcin**:

#### 1. Increased yield

In eight trials, conducted in commercial potato crops, the application of **Mycorrcin**, either as a single application in-furrow at planting (8 L/ha) or split application (5 L/ha at planting and 3 L/ha at mounding) lifted marketable potato yield on average by 7.5 T/ha or 11% (range 6 – 16%).

The trials were conducted over multiple seasons in the major potato growing regions of New Zealand, including Canterbury, Pukekohe, Hawkes Bay or Ohakune. The varieties used in the trials included Agria, Innovator and Russet Burbank.

This demonstrates that **Mycorrcin** is an effective and robust soil biostimulant in multiple geographical locations, soils and for a range of different potato varieties.

#### 2. Reduces Amount of Rejects

a) Pukekohe 2009 Trial: The increase in marketable potato yield was due in part to a decrease in reject weight from 11.3% of total yield to 7.9% of total yield.

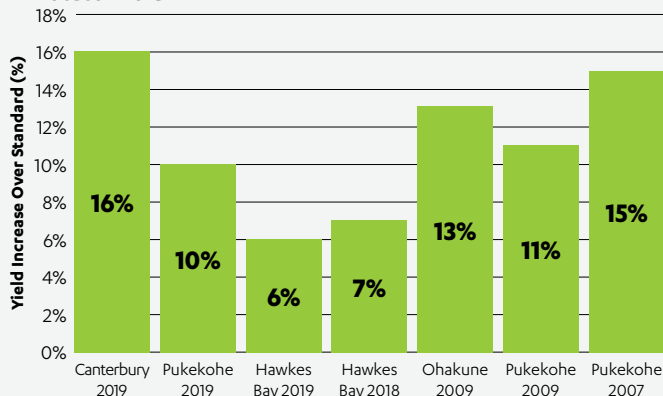
b) Pukekohe 2007 Trial: There were fewer rejected potatoes from the **Mycorrcin** and **Foliacin**-treated crop at 9.1 T/ha, which was 12% of total harvest compared to the untreated crop (9.1 T/ha; 14% of total harvest).

#### 3. Improved Crop Returns

Across the eight trials the application of **Mycorrcin** increased gross profits per hectare by \$2,075/ha (assuming a \$300/T price for marketable potatoes).



**Figure 1. Effect of Mycorrcin on Increasing Marketable Potato Yield**



Variety	Region	Yield Increase (T/ha)	Gross Margin Increase
<b>Russet Burbank</b>	Canterbury	10	\$2,714
<b>Agria</b>	Pukekohe	6	\$1,664
<b>Agria</b>	Hawkes Bay	8	\$2,114
<b>Innovator</b>	Hawkes Bay	4	\$1,184
<b>Agria</b>	Ohakune	9	\$2,444
<b>Agria</b>	Pukekohe	6	\$1,631
<b>Agria</b>	Pukekohe	10	\$2,774