



2022 – 2025

## 53 Potato Field Trials

- ✓ Proven in the field by UK growers
- ✓ Consistent increases in yield
- ✓ Improved skin finish



The data shows there is a **99.98% certainty** that Maxstim treatments are effective.  
 (Chi Square Value of 13.44. p = 0.000246)

**3.7 t/ha** | Average 4 yr yield increase

**6.5%** | Average 4 yr yield increase

**£360 per hectare** | Average 4 yr margin increase  
After Maxstim costs

Average control yield **57.4 t/ha** | Maxstim treated yield **61.1 t/ha**

### Trial layout and methodology

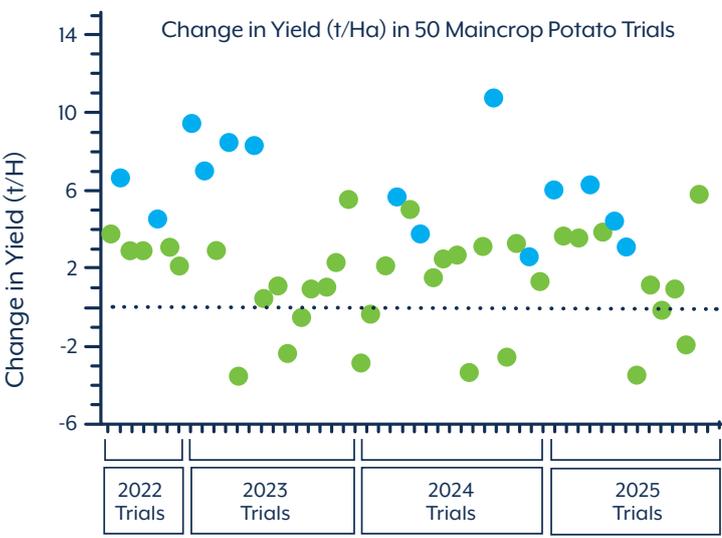
**Comparisons:** Maxstim Agriculture+ vs Farmers standard farm practice

### 3 Treatment Protocols were used:

1. Maxstim sprayed into the furrow at planting plus 7 post emergent applications
2. Maxstim injected with clear liquid starter fertiliser at planting plus 7 post emergent applications
3. Maxstim not applied in the furrow at planting but applied as 7 post emergent applications

**Yield Plot Assessments:** 6 pairs of 5.5m<sup>2</sup> plots for treated and control

### 50 Maincrop Trials



● Treated yield statistically different from untreated (p<0.05: CEN/TS 17700-1:2022)



## Marketable yields and margin results from 50 maincrop potato trials

### Margins based on:

1. Price per tonne received from each individual grower and the variety grown.
2. Any increase in margin from an increased pack-out is conservative, and based on the improvement in skin finish achieved, agreed with the grower and their abilities to use the improvement within the markets available with each variety.

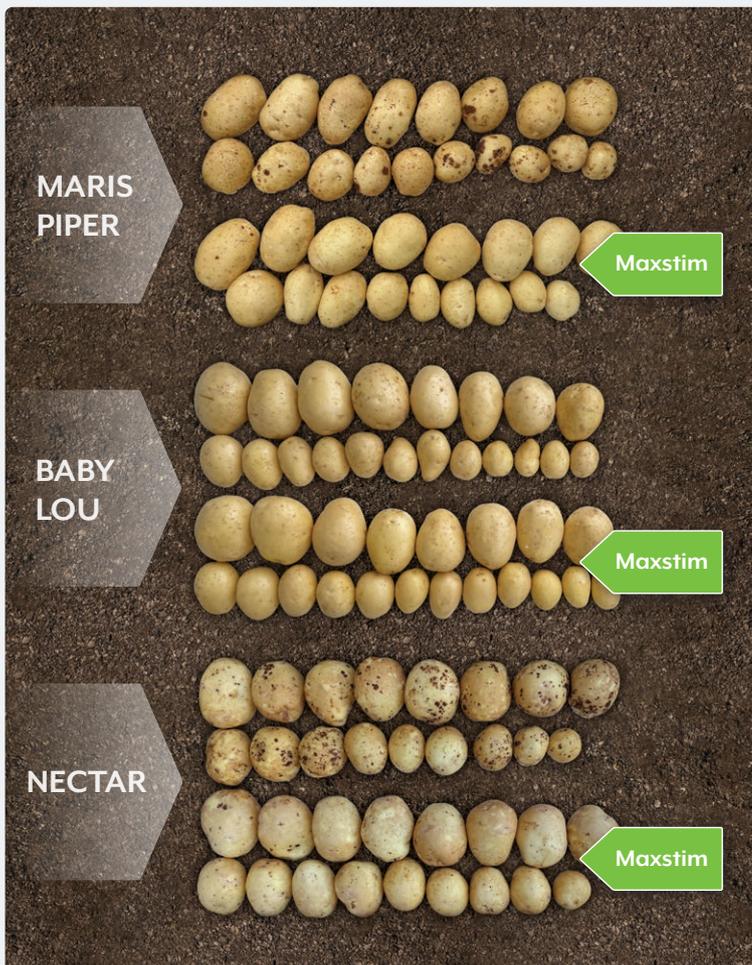
### Data Recorded:

- ✓ Potato plant numbers
- ✓ Number of potatoes in grade sizes 20mm to 85+mm (In 5mm increments)
- ✓ Potato Dry Matter in all grades
- ✓ Skin finish analysis by random selection of potatoes
- ✓ Potato stem numbers
- ✓ Potato weight in grade sizes 20mm to 85+mm (In 5mm increments)
- ✓ Potato Starch% in all grades

### 22 varieties were used in the trials:

- ✓ 777
- ✓ Markies
- ✓ Arsenal
- ✓ Agria
- ✓ Melody
- ✓ Brooke
- ✓ Corinna
- ✓ Rooster
- ✓ Lady Claire
- ✓ Cabaret
- ✓ Amanda
- ✓ Nectar
- ✓ King Eward
- ✓ Babylon
- ✓ Taurus
- ✓ Eurostar
- ✓ Royal
- ✓ Opal
- ✓ Innovator
- ✓ Tyson
- ✓ Manhattan
- ✓ Maris Piper

## Award Winning Skin Finish Improvements From in Furrow Treatments



**91%**  
Success Rate

33 trials treated in Furrow  
31 showed a significant skin finish improvement  
a 91% success rate

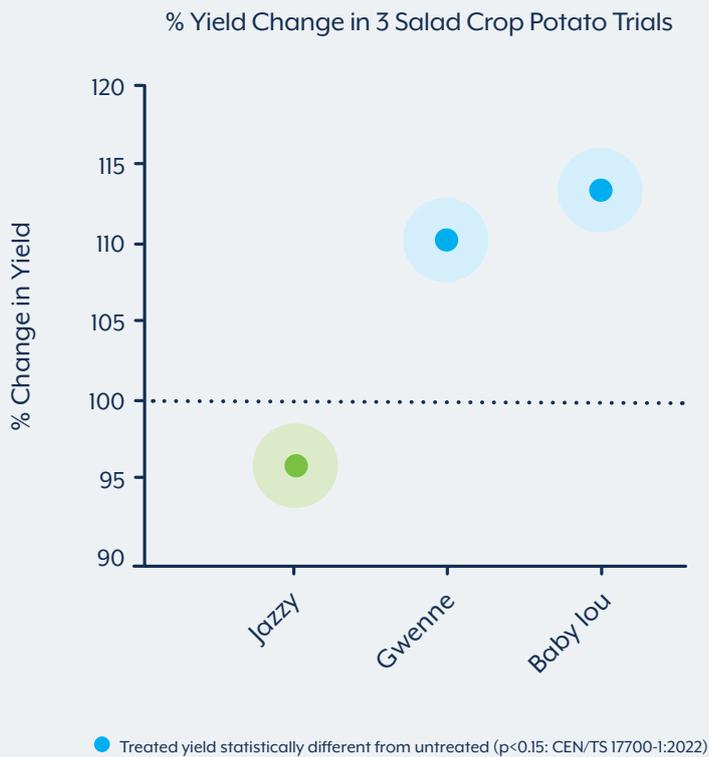
**£827**  
Margin Increase

Maincrop: where maincrop varieties are grown for packing margin increases up to £827/ha

**£1300/ha**  
Margin Increase

Salads:  
Margin increases up to £1300/ha

### 3 Salad Trials



**3.0**  
t/ha

Average  
2 yr yield  
increase

**6.0%**

Average  
2 yr yield  
increase

**£660**  
per hectare  
After Maxstim costs

Average  
2 yr margin  
increase

Average  
control yield  
**51.7**  
t/ha

Maxstim  
treated yield  
**54.8**  
t/ha

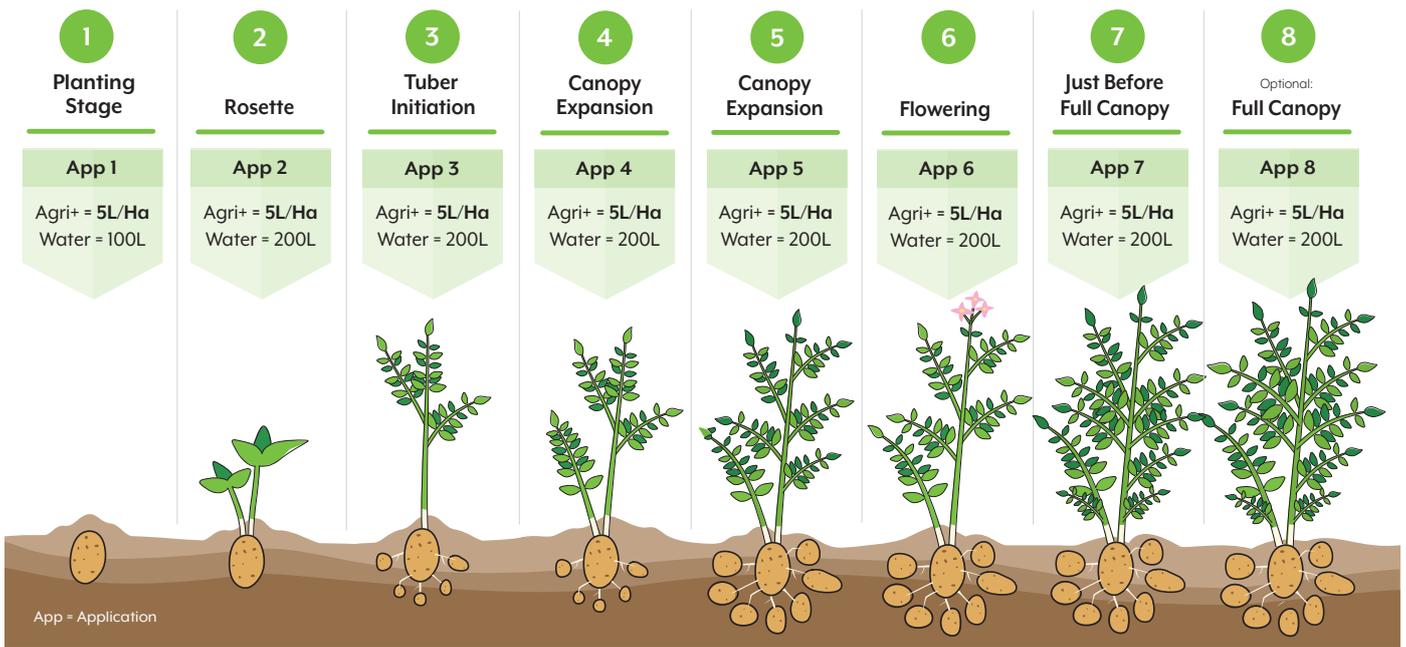
#### Summary:

- ✓ 53 field trials with farmer growers with 25 varieties in 4 years
- ✓ Detailed scientific data recorded from 6 large, replicated plots per treatment

#### Benefits:

- ✓ Reliable yield increases of 6-8%, 3-4 t/ha
- ✓ In furrow treatments showing a 91% assurance of skin finish improvement
- ✓ Increased margins after the deduction of Maxstim costs
- ✓ Increased pack out improving margins for varieties offering fresh packed opportunities

## Potatoes growth cycle diagram with recommended rates and timings



For more information on how you can incorporate Maxstim complex biostimulants into your crop maintenance program please call one of our experts:

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