Take Off PGA

Phosphite-based Seed treatment

Key Benefits

+ Based on a specially formulated blend of:

  + Stabilised phosphite bio-stimulant
  + Patented plant metabolite pyro-glutamic acid (PGA)

+ Improves emergence, establishment, root mass and early crop vigour

+ In some cases, this has been translated into yield benefits up to 1.2t/ha.

+ Crops are more drought tolerant and have better winter hardiness

+ The more robust root system is better able to withstand root disease such as take-all

What Does Take Off PGA Do?

Stabilised phosphite is a proven bio-stimulant that is active during germination and early crop establishment. It is proven to increase seedling vigour across a range of crops including winter and spring wheat and barley, oats, beans, maize and oilseed rape.

The pyro-glutamic acid it is a natural plant metabolite which is involved in two metabolic process in plants. It can be applied to seed and is routinely used as a foliar application to stimulate crop growth. PGA has been shown to:

1. Increase carbon fixation due to up-regulating photosynthesis

2. Increase nitrate utilization by increasing N-reduction rates

Together they work in a complementary way to improve early crop growth, vigour and yield.

Take Off PGA | Control

Where Should Take Off PGA be Used?

- Dry soils during establishment
- High Ca and Mg soils
- High pH soils that limit nutrient availability
- Less vigorous varieties
- Root disease issues

- Later drilled crops
- 2nd/3rd cereal crops
- Poor establishment conditions
- Frost pockets

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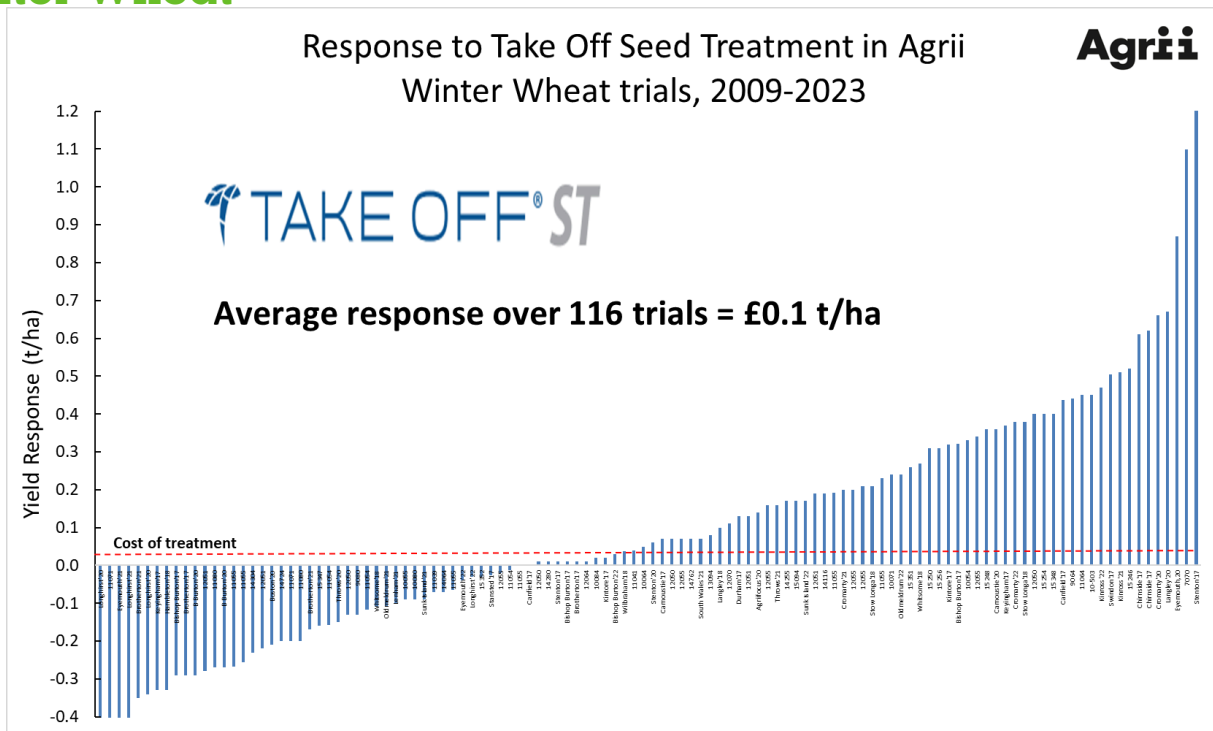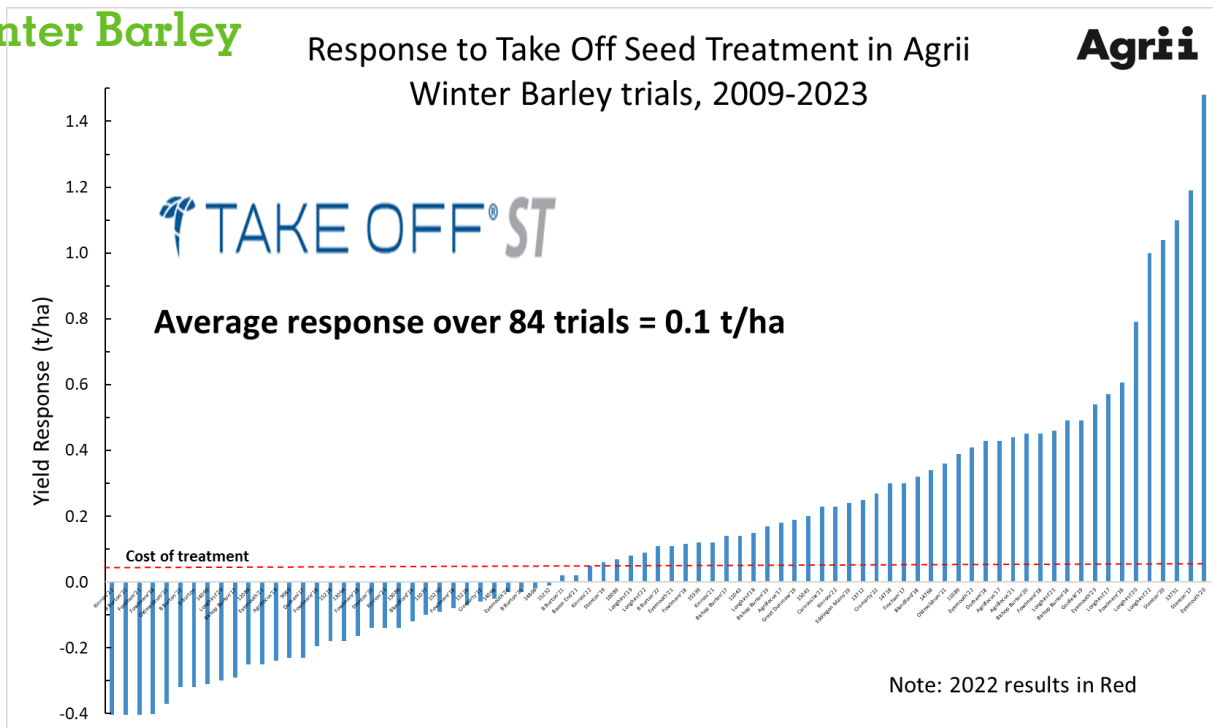
Crop Responses to Take Off PGA

- Take Off PGA has been tested extensively in Agrii's trials since 2009
- The results from winter wheat and barley and spring barley trials are presented in the tables below

Winter Wheat

Response to Take Off Seed Treatment in Agrii Winter Wheat trials, 2009-2023

TAKE OFF® ST

Average response over 116 trials = £0.1 t/ha

Cost of treatment

Winter Barley

Response to Take Off Seed Treatment in Agrii Winter Barley trials, 2009-2023

TAKE OFF® ST

Average response over 84 trials = 0.1 t/ha

Cost of treatment

Note: 2022 results in Red

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Spring Barley

Response to Take Off Seed Treatment in Agrii Spring Barley trials, 2009-2023

TAKE OFF® ST

Average response in spring barley = 0.1 t/ha

Yield Response (t/ha)

Yield to cover the cost of treatment
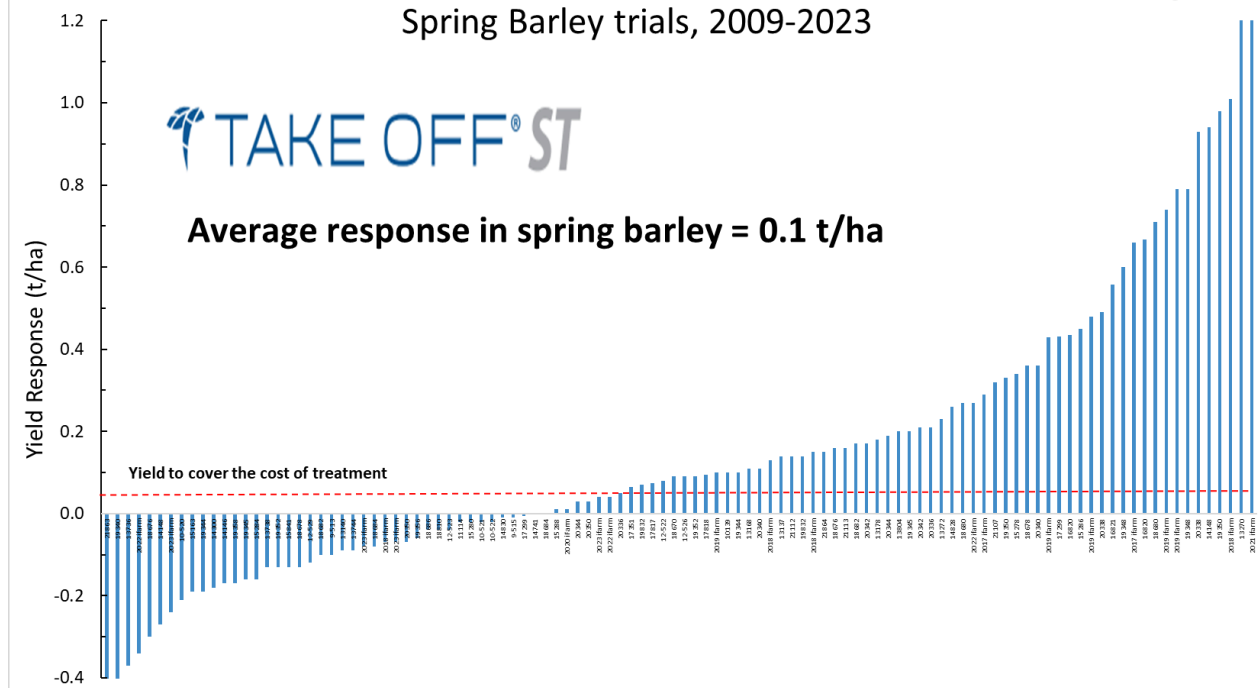
More information

- Further information can be found on the Verdesian Life Sciences website
- https://eu.vlsci.com/products/take-off-eu

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