TOPZinc MAX

Foliar Fertilizer

spraytec

Use it once, trust it always

TECHNOTE

Designed as a nutritional complex that complements early in-crop foliar applications to promote plant health and productivity. Zinc (Zn) accelerates root and shoot growth, improving total photosynthate accumulation to allow plants to maximise their genetic potential.

TOPZinc Max is a unique phytostimulant that is suitable for application on all crops. Exhibiting a comprehensive formulation allows the product to perform without the addition of a pesticide additive. Ideally suited as a spray tank partner for post-emergent herbicides, the recommended application timing is during the early vegetative phase.

Figure 1: Visual canopy differences following an early-season application.

Table 1: Critical information for TOPZinc Max.

Product Type	Phytostimulant
Use Rate	200-400 mL/ha
Timing	Vegetative
Compatibility	All pesticides
Crop Suitability	All crops
Nutrient Composition (% w/v)	Nitrogen 6,00% Phosphorus (P_2O_5)17,00% Boron 0,05% Zinc 1,50% Molybdenum 2,00% Cobalt 0,50%
Pack Sizes Available	1 L, 5 L & 10L

How does TOPZinc Max work?

Following the patented **Spraytec** formula, product composition consists of chelated nutrients, plant health and application assistance technology. **TOPZinc Max** incorporates nutrients in a chelated form to ensure rapid and safe plant uptake. The addition of multiple nutrients is tailored to complement the early timing of application.

Zn specifically, is an important driver of multiple plant enzymes responsible for metabolic reactions that facilitate growth and development. Without Zn, these reactions would be significantly reduced. Refined application assistance technology increases overall spray efficacy to improve economic return and guarantee quality of performance.

Ongoing research and development

Spraytec has committed to conducting extensive trial work with independent research organisations to guarantee confidence of product performance in the world.

Significant trial results

Australia

Figure 2 illustrates a yield response in barley following a post-emergent herbicide application. No treatment adversely affected the crop, with no biomass reduction or phytotoxicity observed. However, yield results were conclusive, showing a +460 kg/ha difference. This signicant yield increase is respective of the essential Zn provided at an important growth stage, and is complemented by the application technology within the formulation.

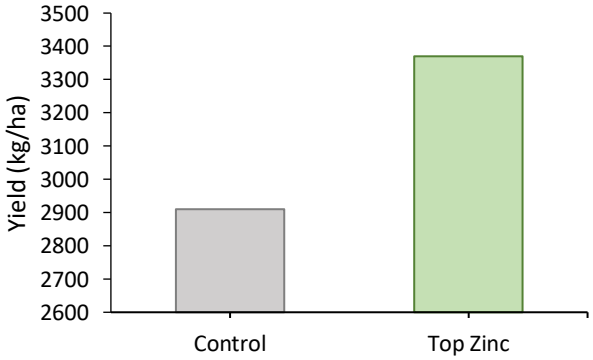

Figure 2: Barley yield (kg/ha) following an early-season herbicide application. Trial conducted in Quairading, WA by Living Farm (2020).

ARGENTINA

Figure 3 details an average of 5 trials conducted on wheat, and reflects the yield trend observed when **TOPZinc Max** is included.

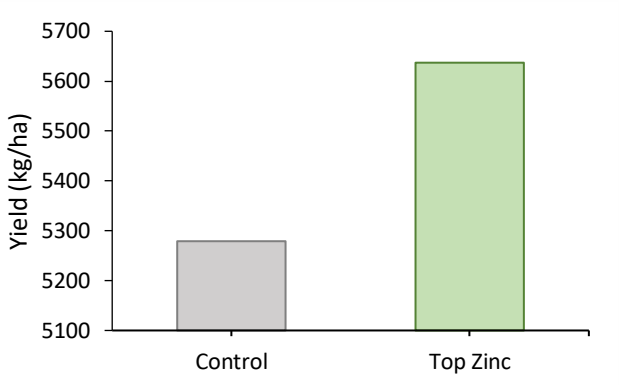

Figure 3: Wheat yield (kg/ha). Trials were conducted in San Cayetano, Ameghino, La Dolores (Buenos Aires); Los Surgentes (Córdoba) by Okandu, CREA, Consultora Oeste, Ing. Damian Gopar (2020/21).

Figure 4 show the effect of phyto-stimulant when a soybean was treated with Lactofen herbicide. Lactofen cause phytotoxicity to Soybean, but when is applied together with **TOPZinc Max** we can observe how the plants are not affected bringing this an increase of yield at harvest.

Figure 4: Soybean phytotoxicity with herbicide Lactofen on the left. No phytotoxicity observed on the right with when Lactofen is applied with TOPZinc MAX (2022).

Key messages and conclusions

TOPZinc Max is formulated according to a proprietary blend of ingredients that ensures product performance is consistent and to a high quality in varying conditions.

Incorporating chelated nutrition, plant healt and application assistance technology differentiates **TOPZinc Max** from competitors.

Spraytec has trialled **TOPZinc Max** exhaustively at a global level, to advocate producer confidence in guaranteeing quality. Upholding the demands of producers is at the forefront of our product development, as we seek to maximise crop productivity, whilst incentivising simplicity and practicality from an operational perspective. Use it once, trust it always.