

Stoller Solution to improve crop resilience to adverse situations*

BioForge® is a product that **promotes plant resistance and optimizes its development in unfavorable conditions**, such as adverse weather conditions: droughts, heat waves, frosts, hail and floods.

What effect does stress have on our crops?

Stress is a state in which the plant develops in non-ideal conditions. This situation results in a **physiological imbalance that causes deficiencies in growth and yield, permanent damage or death of the crop.**

It is estimated that, in general, crops express **30% less of their genetic potential** due to losses caused by stress. With **BioForge®**, thanks to the microelements included in its formulation, we maintain physiological balance, making plants **more resistant to stress and facilitating the expression of their genetic potential in terms of quantity and quality of production.**



- ✓ **Recovers the plant from the effects of stress after an unfavorable situation.**
- ✓ **Avoids the effects of vegetative stop and senescence of the plants** due to the excess of ethylene produced by abiotic stress.
- ✓ **Increases respiration and metabolism of the plant** and reactivates its growth.
- ✓ Its **antioxidant action** prevents unnecessary production losses.

Stoller's Formulation Technology

Nutrients	N	K	Co	Mo
Content	10.5%	5%	0.002%	0.002%
Physiological properties	Protein formation. Cytokinin formation.	Osmoregulation. Stress tolerance. Protein and starch synthesis.	Blockade of ethylene synthesis. Delay of senescence.	Antioxidant effect (cofactor MoCo). Assimilation of N.

Density (kg/L): 1.15 ± 0.02

pH: 3.0 - 5.0

Conductivity (ms): 70 - 90

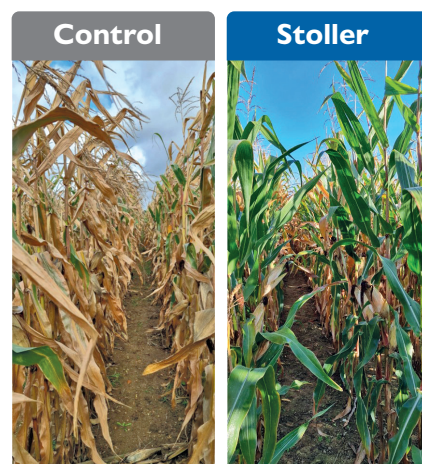
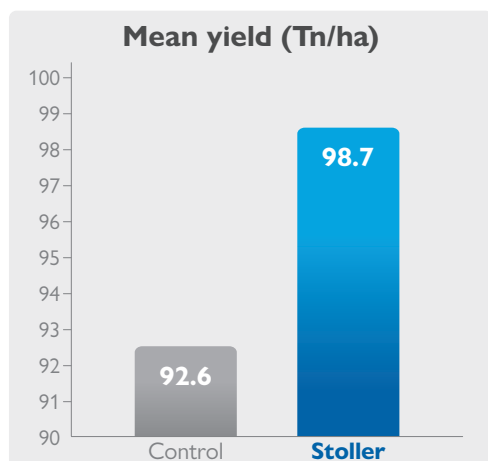


*Thanks to Stoller Formulation Technology, we provide the appropriate nutrition that naturally intervenes in the physiological processes of the plants.

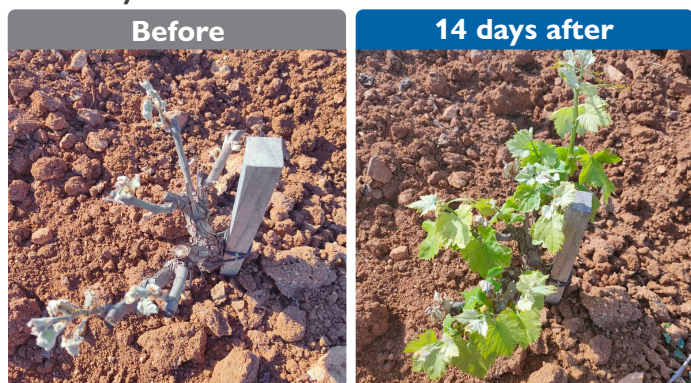
Evidences:

• Corn

Treatments with **BioForge®** significantly increased yields compared to the control after a period of hot wave and severe drought conditions. We can see how leaves remain green, higher level of photosynthesis and therefore an adequate filling of the grains and a bigger corn cob.



• Vineyard

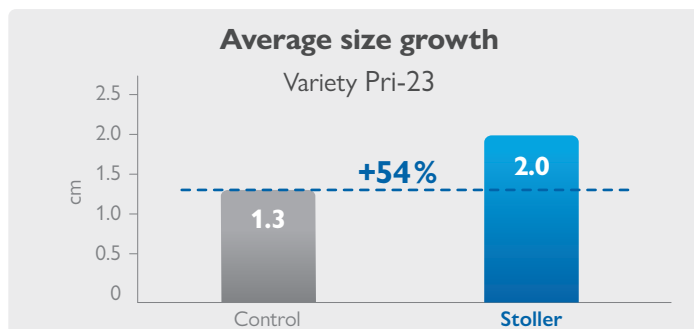
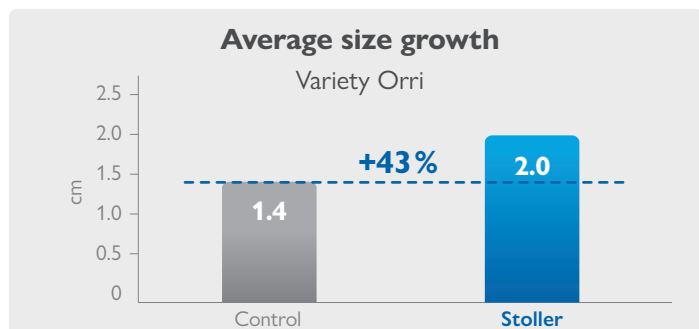


• Tomato



BioForge® treatments can restore crop activity after damage caused by heavy frost (vine images) or hail damage (tomato images), keeping the crop more active and fresher because the crop has not stopped growing. New shoots have emerged and the pale colour has changed to deep green, as chlorophyll levels have recovered by reducing the strong stress caused by the ethylene surge.

• Citrics



With **BioForge®** we improve the average weekly size growth during the summer months. A low dose but continuous treatment during the summer avoids vegetative and production stoppage caused by high temperatures.