



STOLLER'S BIO-FORGE

ENHANCE RECOVERY FROM STRESS
AND IMPROVE YIELD.



Stoller®

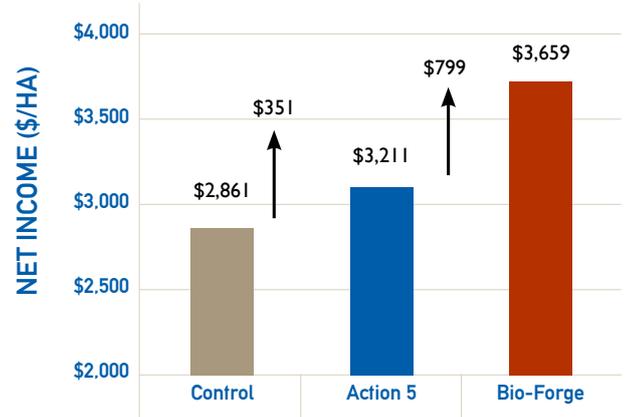
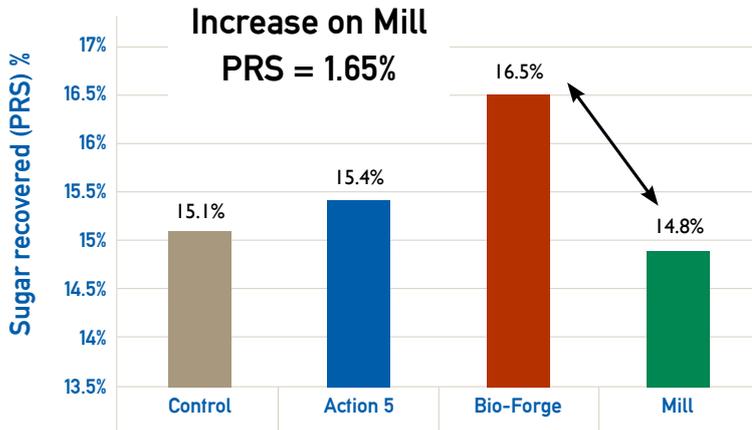
Unleashing The Power Of Plants

Healthy growth is essential to maximise the yield potential of a crop. Stoller's Bio-Forge helps plants to recover faster from stress events like extreme weather (frost, wind and hail) or man-made stresses (transplanting, mechanical damage and herbicides). Stoller's Bio-Forge contains a unique form of nitrogen combined with potassium, cobalt and molybdenum – all the necessary elements to help reduce the effects of ethylene, the plant hormone that is released in response to stress.

Stoller's Bio-Forge has traditionally been used with great success in other Broadacre and Horticultural crops, but Stoller Australia thought that these benefits could translate to sugarcane as well. The team began trials in 2013 with Stoller's ClearStart 15KZ+N and Bio-Forge in place of Stoller's Action 5. The trials at a commercial property in Mackay, Queensland showed that Stoller's Bio-Forge increased cane and sugar yields and outperformed the farmer's current practice (control).

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Stoller's-Bio-Forge increased cane production by 24 t/ha and sugar by 5.3 t/ha against the control. The percentage of recovered sugar (PRS) increased by 1.65 units against the mill daily average. This translated to an almost \$800 per hectare increase in net income for the grower.

KEY APPLICATION TIMES

CROP STAGE	PRODUCT	BENEFIT
Planting - directly to the billet in furrow	ClearStart 15KZ+N or ClearStart22KZ at 10-50 L/ha Bio- Forge at 1.2 L/ha Trace elements as determined by soil tests	Encourages vigorous and even budburst
Canes 45-50 cm high	Side dress with nitrogen/potassium blend as per normal practice	Tops up nitrogen levels
Ratoons - 0-30 days post-harvest	ClearStart 15KZ + N or ClearStart 22KZ at 10-50 L/ha Bio-Forge at 1.2 L/ha Trace elements as determined by soil tests	Encourages natural vigour after harvest with the more available liquid nutrients
Canes 45-50 cm high	Side dress with nitrogen/potassium blend as per normal practice	Tops up nitrogen levels

BENEFITS OF STOLLER'S BIO-FORGE

- Restores nutrient status and normal plant growth
- Hastens recovery from plant stresses
- Helps resist negative impacts of stress
- Helps plants grow during dry periods
- Increases the growth of young plants
- Specially formulated with Stoller's patented Di-Formyl Urea which is a form of nitrogen that allows the plant to manage stress ethylene and with the added cobalt and molybdenum upregulates anti-oxidants to maximise yield.

BIO-FORGE

ANALYSIS	w/v
NITROGEN	2.5%
POTASSIUM	3%
COBALT	0.25%
MOLYBDENUM	0.35%



Trial harvesting at Mackay in 2014.

For more information contact:

Stoller Australia Pty Ltd
5 Pambula Street Regency
Park SA 5010

PO Box 2534
Regency Park SA 5942

Ph: 1800 FERTILISER
Fax: 08 8244 9222

www.stoller.com.au