

cotton



- Improves rooting
- Improves drought resistance
- Better plant vigour
- Improves flowering
- More first position fruit (better size boll)
- Increases total boll count
- Increases yield



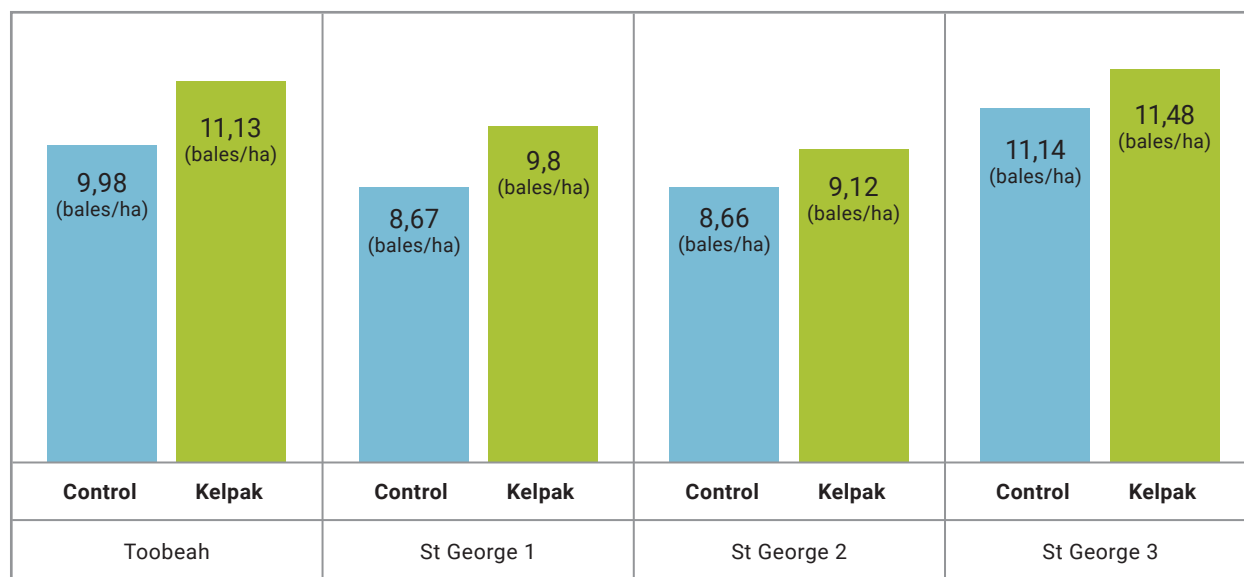
Kelpak is a natural biostimulant manufactured from the brown kelp *Ecklonia maxima*, found on the west coast of South Africa. Produced using a cold cellular burst extraction method that preserves its delicate compounds, Kelpak significantly improves marketable yield and quality in cotton.

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Response to Kelpak in Irrigated Cotton 2010-2011 and 2011-2012 | Yield (bales/ha)



Kelpak on cotton

Initial investigation into the use of Kelpak was performed at Toobeah in the 2010/11 cotton season as a side by side trial under flood irrigation. Kelpak was applied at 2 L/ha at 12 nodes and again two weeks later. The control plot had no application of Kelpak.

The key impact on plant health was the significantly improved boll retention of the Kelpak over the untreated plot which resulted in an increased yield of 1.13 bales/ha. This exceptional trial result led to more trial work in the 2011/12 season via replicated trials, predominantly in the St George irrigation areas along with one trial on the Darling Downs.

The overall average across two seasons, three irrigation valleys and two cotton varieties was 0.6 bales/ha increase in yield using two applications of Kelpak on irrigated cotton. The key benefit of Kelpak on cotton is that it increases the crop's ability to explore a larger soil volume due to increased root density. This in turn allows the cotton, when at full boll load, to access more soil resources resulting in reduced boll shedding.

In a number of the trials, when there was an impediment to root growth (i.e. compaction layers, subsoil constraints such as sodicity), Kelpak has proven to be extremely beneficial. Similarly, with potassium and phosphorus responsive sites (low K and P levels at depth), Kelpak has also produced a significant yield response.

Recommended application rate

Planting 500 ml (1:200)
Water injection at planting

Foliar spray 2 L/ha (1:300)
Apply at 12 node stage.
Spray at first flower visible on first fruiting branch [flower at candle]
and
Apply second spray 14 days later.
Spray at approximately 15-16 nodes
[flowers visible on the first 4-5 flowering branches]



plant growth in harmony with nature



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