

Boron in Cotton



Study Details

Research institution: Mato Grosso Foundation, Brazil

Date: 2021/22 growing season

Location: Sapezal, MT, Brazil

Soil: Dystrophic Oxisol (clay texture); 0.3 mg.dm^{-3} : B; pH 0-20 cm (CaCl_2): 5.1; organic matter: 37.8 g.dm^{-3}

Fertilizers: *Granubor*[®], acidulated ulexite

Crop variety: TMG 44 B2RF

Trial design: Randomized complete block with four repetitions. Treatments consisted of different B rates and sources.

Results

We can see the superiority *Granubor* when compared to acidulated ulexite.

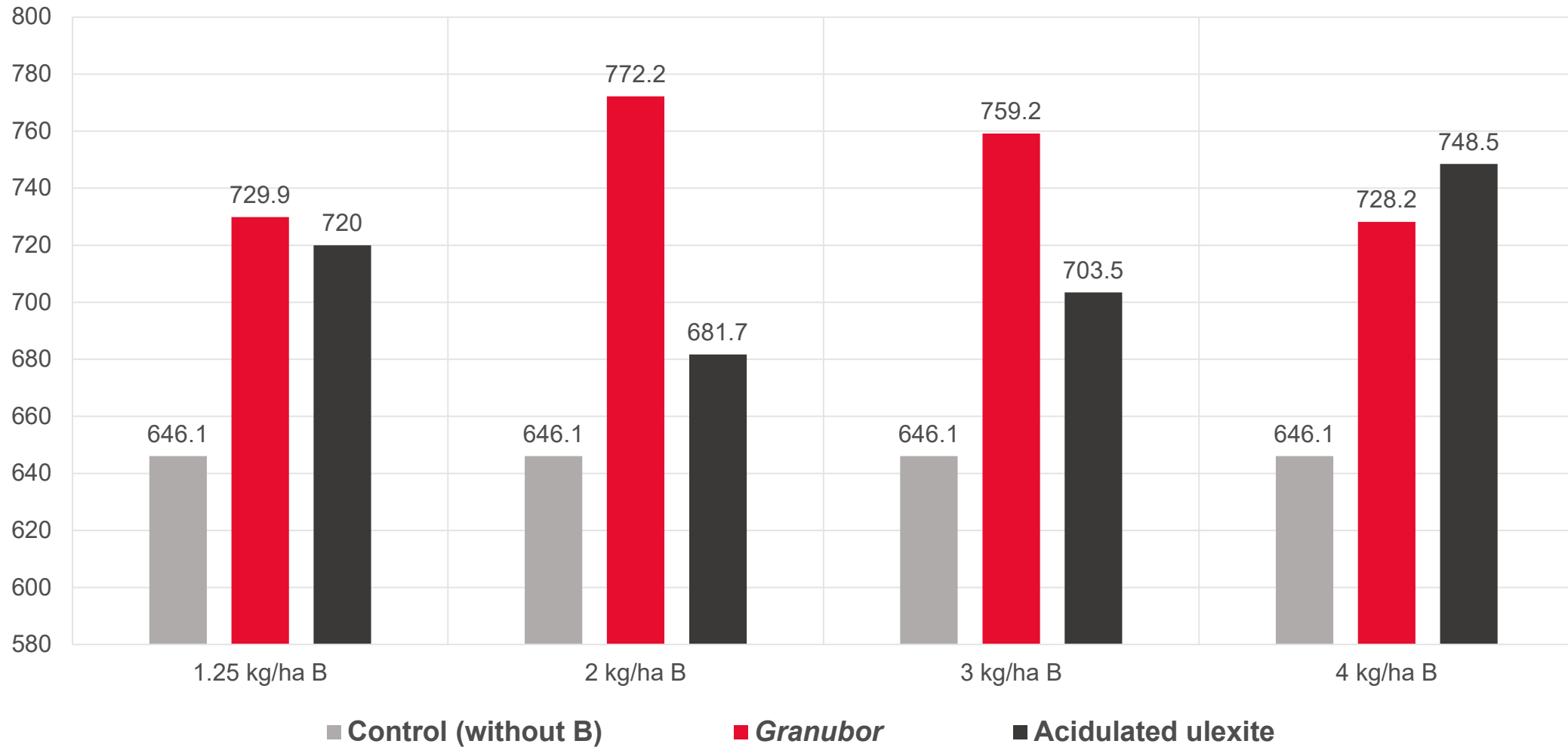
Boron in Cotton: Soil fertilizer application



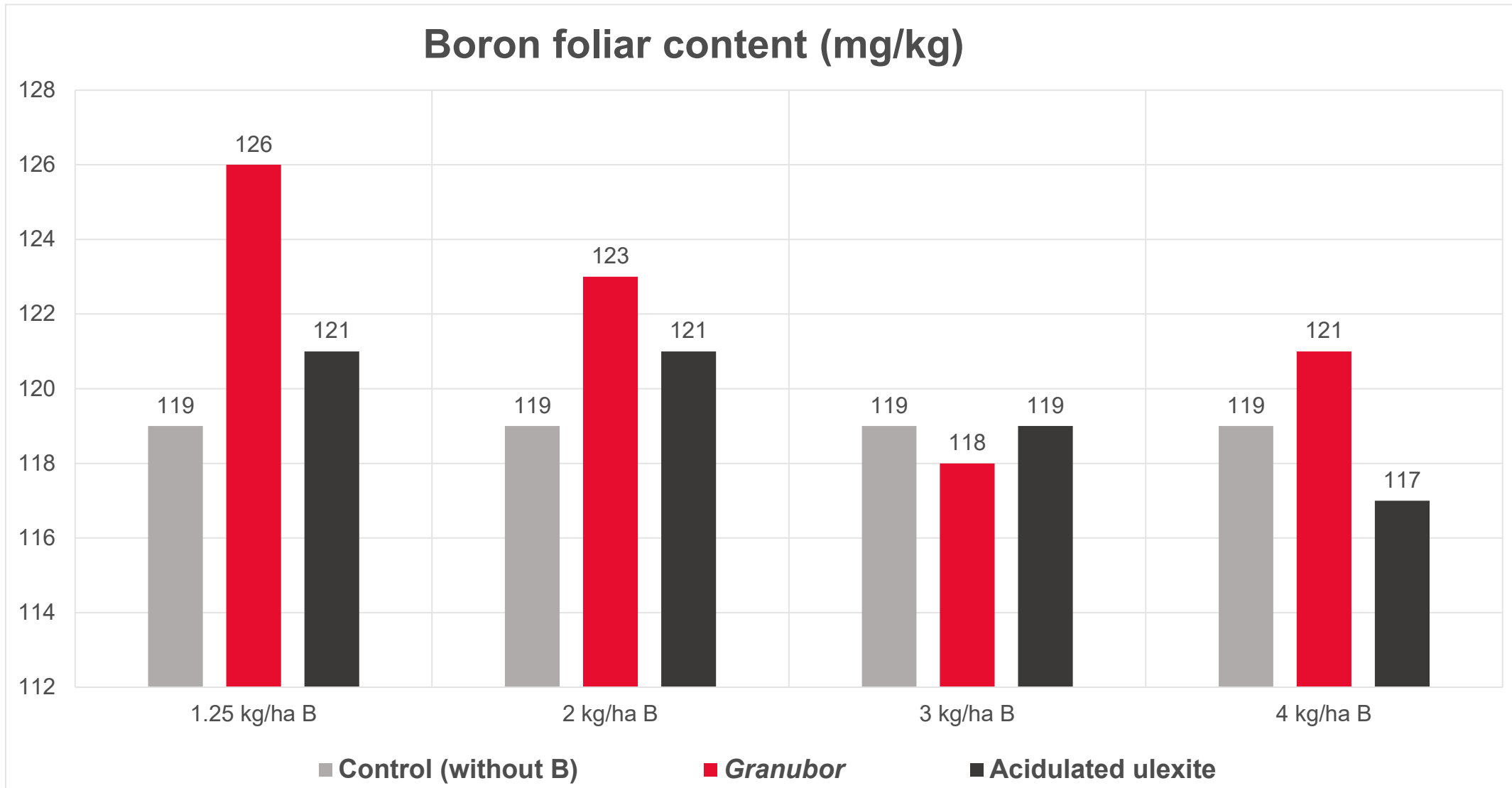
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Average seed cotton yield (kg/ha)



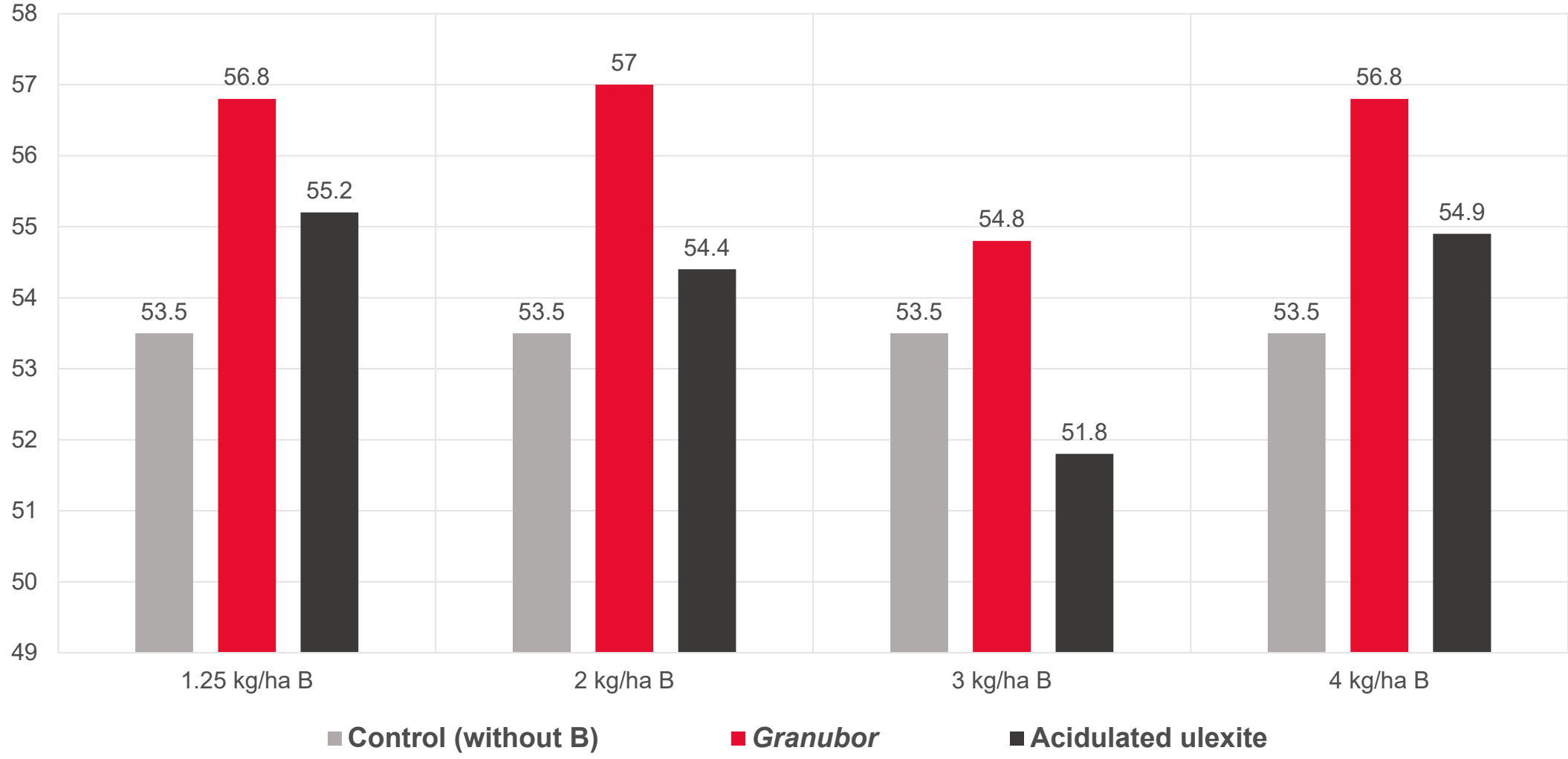
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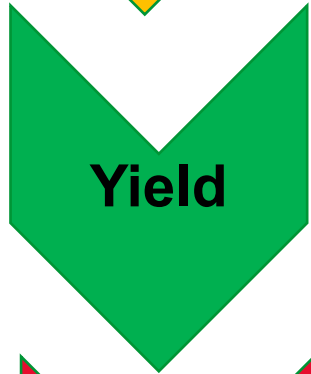
Cotton plant height (cm)



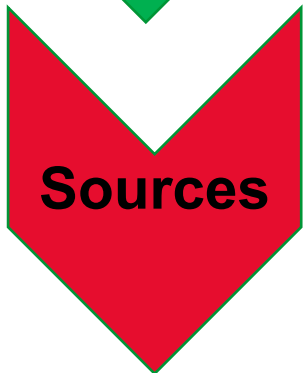
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- There were drought conditions during the 2021/22 cotton field study.
- This field study emphasizes the importance of boron in terms of better water efficiency and drought tolerance.



- The highest yield occurred with the application of 2 kg/ha B (13.3 kg/ha *Granubor*).
- The treatment with 13.3 kg/ha *Granubor* (2 kg/ha B) produced 19.5% more compared to the control (without B).



- We can see the clear superiority that *Granubor* delivers when compared to acidulated ulexite.