



Australia's National Science Agency

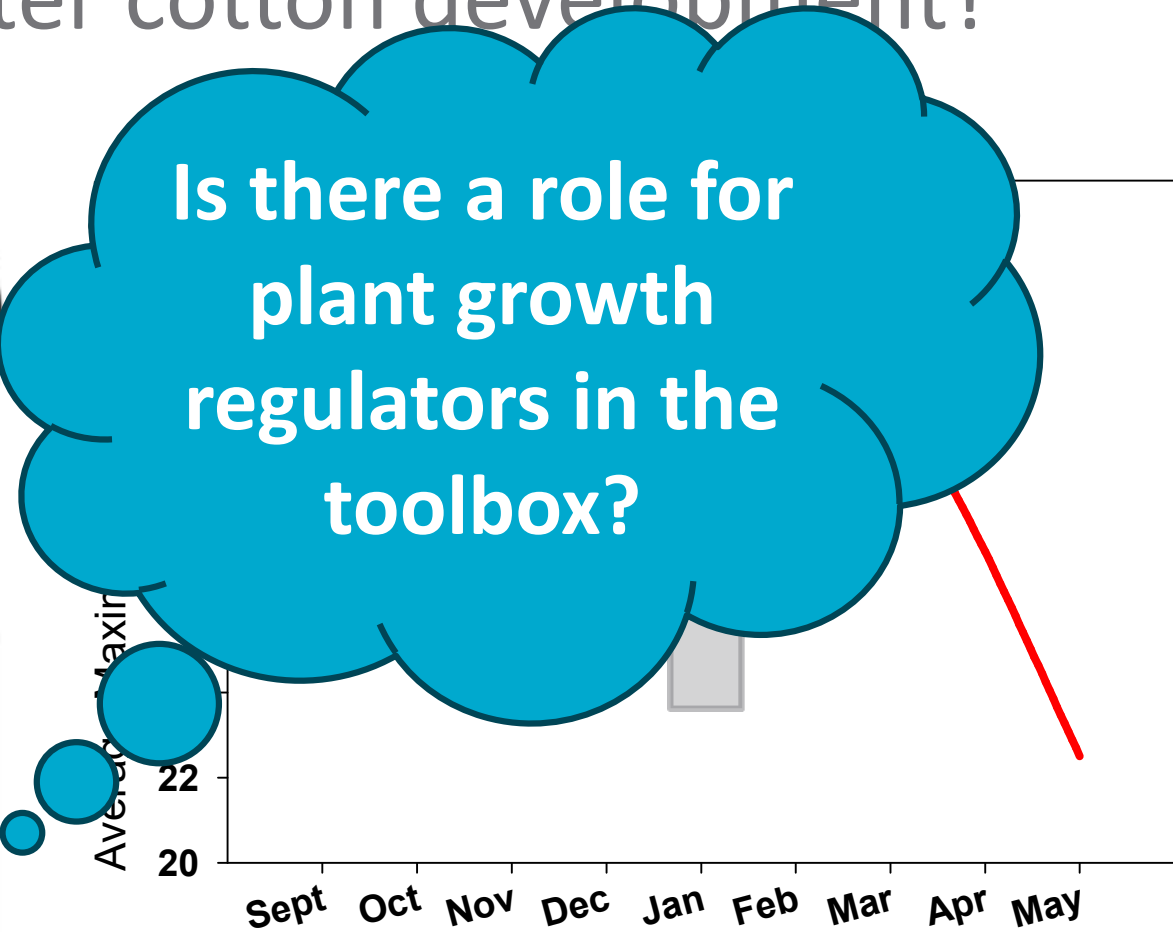
# Can we alter cotton development using novel plant growth regulators?



**Katie Broughton, Sandra Williams, Jane Caton, Bernadette Melton**  
Australian Agronomy Conference, 23<sup>rd</sup> October 2024



# Why do we want to alter cotton development?



Gibberellic acids are important for floral development

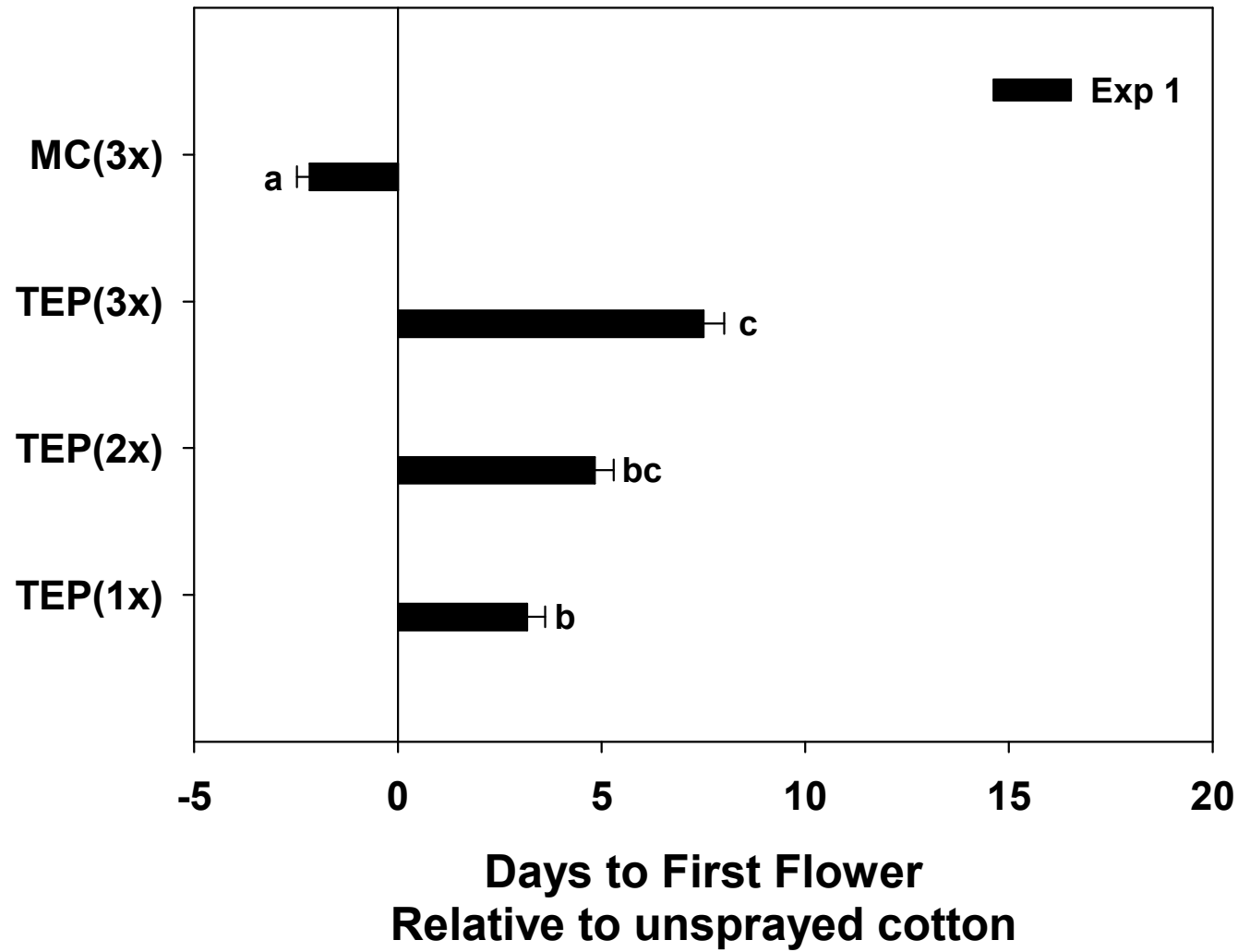


Does the application of gibberellin inhibitors delay development in dryland cotton?

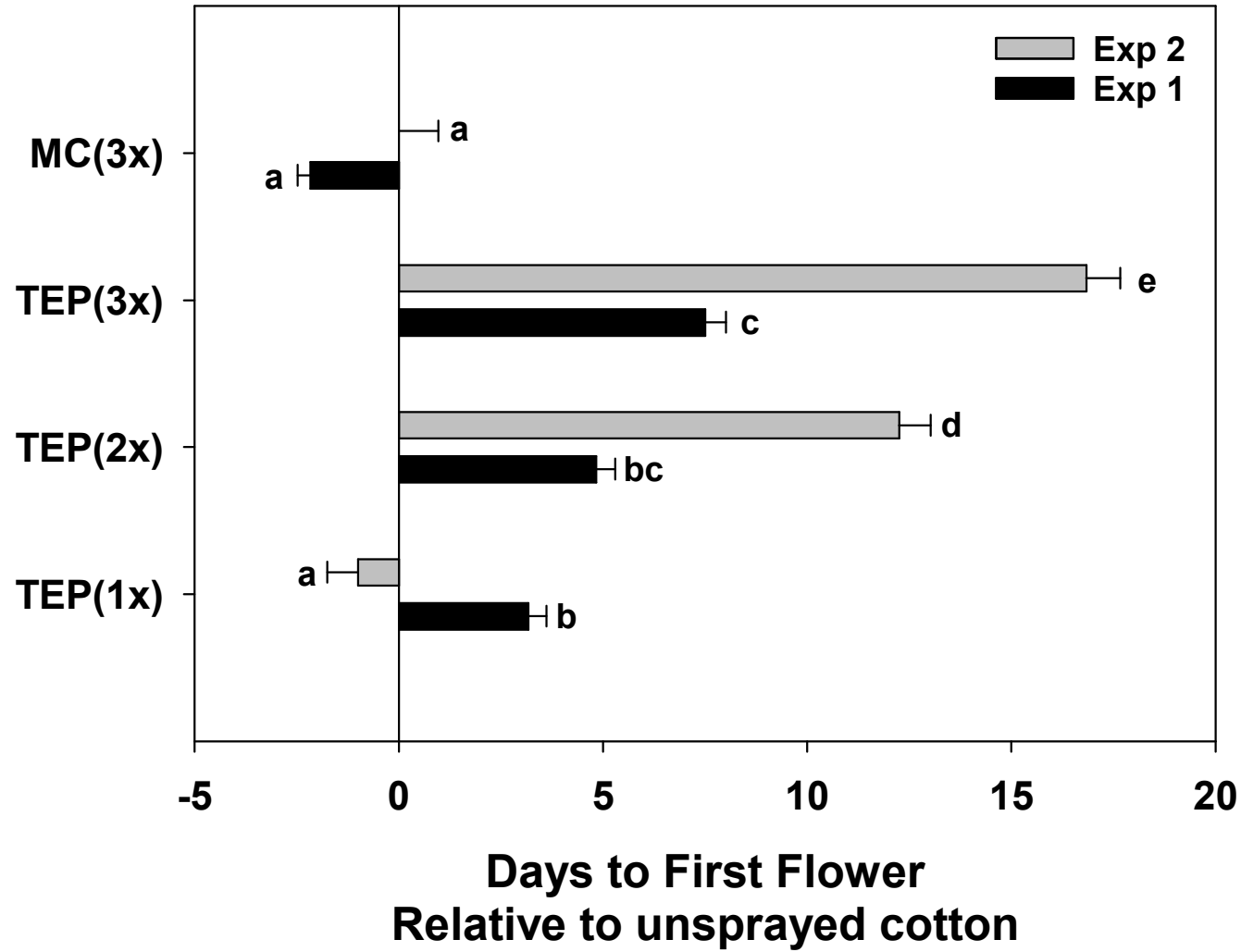
## Australian Cotton Research Institute, Narrabri, NSW

- 2 field experiments
- **Mepiquat chloride (MC)**
- **Trinexapac-ethyl (TEP)**
  - Up to three applications
    - 7 days apart
  - Foliar applied to seedlings

Flowering later than unsprayed cotton

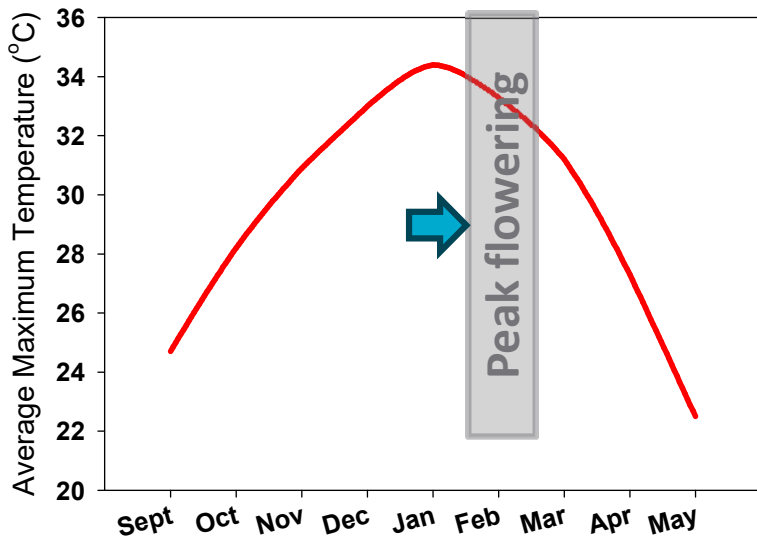


Flowering later than unsprayed cotton





# Can we alter cotton development using novel plant growth regulators? **YES**



## Acknowledgements



Tim Weaver, Kellie Gordon,  
Darin Hodgson, Torie Smith,  
Simone Heimoana, Tianne Parker,  
Ammie Foster, NSW DPI Farm Staff

