

## **WATER-RELATED RESEARCH STUDIES BY HORTGRO**

### **Completed water-related research studies**

1. [Water use of high performing apple orchards \(Co-funded by the WRC\)](#)
2. [Investigating the potential of fixed and draped netting technologies](#)
3. [Crop water use knowledge status: pome and stone fruit](#)
4. [Characterization of groundwater within the main Hortgro production areas](#)
5. [Tree water relations and sunburn in pome fruit](#)
6. [Rootstock sensitivity to water stress](#)
7. [Evapotranspiration of apple tree orchards](#)
8. [Crop load, growth and water use productivity in apples](#)
9. [Development and evaluation of a model for water use in deciduous fruit orchards and scheduling of irrigation with the aid of meteorological data](#)
10. [Irrigation of young apple trees](#)
11. [The effect of drought stress on deciduous trees and fruit quality of various apple cultivars](#)
12. [The effect of deficit irrigation on pear tree performance](#)
13. [The effect of deficit irrigation on apple tree performance](#)
14. [Climate Change Response Strategy](#)
15. [Heat damage in plums](#)
16. [Tree water relations and sunburn in pome fruit](#)
17. [Quantifying the effect of inorganic and organic mulches of 2 soil types on nutrient uptake and fruit quality of Cripps' Pink apples](#)
18. [Apple root study](#)
19. [Crop water use knowledge status: pome and stone fruit](#)
20. [Spatial Fruit Look data: Benefits to the fruit industry](#)
21. [Characterization of groundwater within the main Hortgro production areas](#)

**Completed Projects** see page 38 of Dec 2023 Fresh Quarterly Publication:

<https://www.freshquarterly.co.za/publication/fresh-quarterly-issue-23-dec-2023/#flipbook-fresh-quarterly-issue-23-dec-2023/38/>

### **2025 projects**

1. Pear water use (co-funded with the WRC)
2. Low-flow rate drip irrigation

Additional: The WRC is also funding a project on apricot water use, and Hortgro is involved in finding suitable sites and serving on the reference group. Not Hortgro funded.