



Science in the Paddock with ICT International

Tree Monitoring for optimal water use & species selection

Wednesday 26th July, 9am-3pm @ Mike O'Keefe Woodland Centre, 80 Mann St, Armidale

RSVPs by 21st July to www.sticktickets.com.au/54885 or contact 02 6772 9123.

9.00 Welcome and introductions

9.10 **Trees Right Now**

- inspection of Armidale Tree Group monitoring site and irrigation impacts on [potted] trees
 - graphing tree 'condition' from cloud-based data
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9.40 **Plant Function, Water Response and Growth**

- Why do some trees grow bigger than others, or have more fruit than others? Cell expansion and reproduction.
 - How do trees use water?
 - What happens as drought or competition sets in?
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10:40 **Morning Tea**

11.00 **Impacts of Soil Condition on Plant Establishment**

- What is the root zone and how do you measure it?
 - What is the impact of the soil's physical condition/soil preparation on tree water use?
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11.30 **Sap Flow Monitoring and Psychrometry**

- Global examples of the application of relevant to New England & neighbouring regions
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12.10 **Question & Answer**

12.30 **Lunch**

1.00 **Tree Monitoring in Practice**

- tree selection
 - sensor installation
 - real-time data observation and interpretation.
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2.50 **Closing remarks**

3.00 **Finish**

This event is part of the \$25 million of National Landcare Programme investment to boost farm gate productivity and improve environmental health across NSW.

