

# The interaction between rootstocks and cider apple varieties on carbohydrate dynamics and fruit composition

Project ID: NWGICH03

Cider production is predicted to expand considerably in the future; this work will further develop our research on beverages and support the projected development. The interaction between cider apple scion and rootstock impacts on nutrient uptake and carbohydrate dynamics, therefore the root- shoot interaction is crucial for apple development and fruit composition. The proposed project will examine the influence of apple rootstocks on carbohydrate partitioning and juice attributes of the different cider apple types. The research will consist of studies under controlled conditions to gain an enhanced understanding of the relationship between the rootstock and scion on tree balance and fruit composition.

We seek a highly motivated PhD candidate with a high level Honours or Masters qualification in biochemistry or plant physiology. The project will be based at the Wagga Wagga campus of Charles Sturt University with some work undertaken at the Orange Agriculture Institute (NSW DPI). The candidate will develop further skills/techniques in plant physiology biochemistry and the research will be linked to other institutions in Australia and overseas that undertake research on cider production.

[For additional information please contact:](#)

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