

# Summerina mandarin

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Figure 1. A Summerina mandarin tree.



Figure 2. Summerina mandarins.

## Estimated maturity period

Region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Sunraysia												

## Origin

The Summerina mandarin is a selection from the Riverland region of South Australia. It is a late-maturing mandarin that is managed in Australia by Advanced Production Methods (APM).

## Fruit quality

Table 1. Summerina mandarin fruit quality\* characteristics.

Skin	Easy peel, coarse and lumpy, some fruit with a distinct 'nipple' at the base of the fruit, yellow rind colour.
Average rind thickness (mm)	5.1
Internal quality	Sweet, slightly 'chewy' with low acid content.
Average number of seeds	0
Juice per cent (%)	35–40%
°Brix	13.0
Acid per cent (%)	0.64
Brix:acid ratio	20.3
Average fruit weight (g)	143
Average fruit diameter (mm)	67

\*Juice quality levels considered adequate for harvest and developed by sequential analysis of fruit from top-worked evaluation trees.

## Comments

- The first Summerina mandarin fruit was produced in 2015 from top-worked Valencia on Trifoliata rootstock at the Sunraysia evaluation site.
- Fruit quality results were not typical for Summerina fruit from mature age trees. Summerina fruit was collected from a mother tree in South Australia on 11 September 2015 and tested at Dareton. Juice% was 50, °Brix was 14.4, Acid was 0.70%, Brix:acid was 20.5 and BrimA was 191.
- Sequential fruit quality testing occurred in 2016 as results in 2015 were affected by the low crop load and the young age of the top-worked trees.
- Top-worked trees were slow to come into production due to an upright growth habit and high vigour. Trees top-worked to Valencia orange on trifoliata rootstock were the most productive.

Table 2. Fruit quality of Summerina mandarin top-worked to Valencia orange on Poncirus trifoliata rootstock, Dareton Primary Industries Institute, NSW. 2015 and 2016. See 'Estimated maturity period' to interpret this data.

Date	% Juice	°Brix	% Acid	Brix:acid ratio	BrimA
6.7.2015	35	12.0	0.84	14.2	142
17.7.2015	35	12.4	0.83	14.9	150
10.8.2015	30	13.1	0.81	16.1	163
21.6.2016	40	11.5	0.75	15.4	140
4.7.2016	39	11.3	0.82	13.8	132
18.7.2016	37	11.7	0.68	17.2	148
29.7.2016	35	12.4	0.63	19.6	163
11.8.2016	35	12.5	0.64	19.5	164
29.8.2016	39	13.1	0.56	23.3	179
12.9.2016	35	13.1	0.54	24.4	181
22.9.2016	33	13.1	0.49	26.6	184
13.10.2016	40	12.9	0.49	26.5	181
Mandarin minimum standard	35	–	–	–	110

**The variable fruit shape and coarse rind will require a good marketing campaign to develop consumer acceptance and knowledge of Summerina mandarin. Nursery orders for trees and commercial plantings are occurring in Australia after a marketing and promotion campaign begun in 2018. Initial market success for Summerina has been reported in 2018 and 2019.**

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The information contained in this publication is based on knowledge and understanding at the time of writing (December 2019) and was generated from field and nursery trees at Dareton Primary Industry Institute, Sunraysia, NSW, unless otherwise stated. Where quantitative data are presented (e.g. % Juice or rind thickness) they are based on measured properties. Where qualitative data are presented (e.g. thorniness or tendency to split), they are based on observations or brief notes recorded in the field.

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