

Turkey Valencia evaluation

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Turkey is an early, seeded, Valencia selection originally found in Turkey and developed as a commercial variety in South Africa during the 1990s. In Sunraysia, full fruit colour was from early June and maturity from late August. Turkey had consistently high juice content and excellent eating quality.

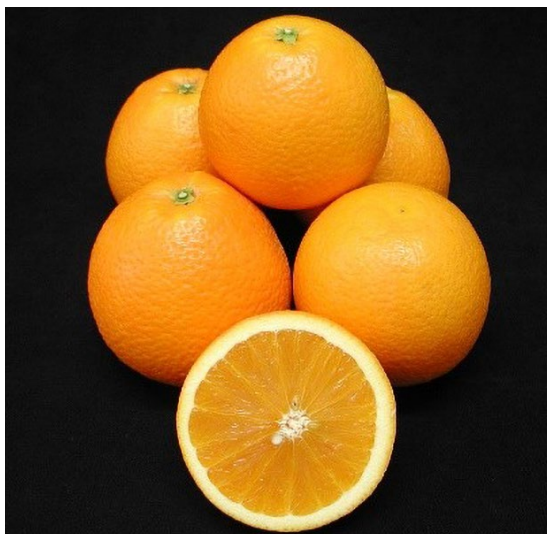


Figure 1. Turkey Valencia oranges (left) and a Turkey Valencia orange tree (right).

Estimated maturity window (BrimA ≥ 90)

[illegible]

Turkey Valencia

Turkey is an early, seeded, Valencia selection found in an orchard near Mersin, Turkey, in 1987 and developed as a commercial variety in South Africa during the 1990s. In Sunraysia, full fruit colour was from early June and maturity from late August. Turkey had consistently high juice content and very good eating quality until mid-October. Turkey trees were of a similar size to standard Valencia. South African experience suggests it is heavy bearing, and in Sunraysia, it was medium to high.

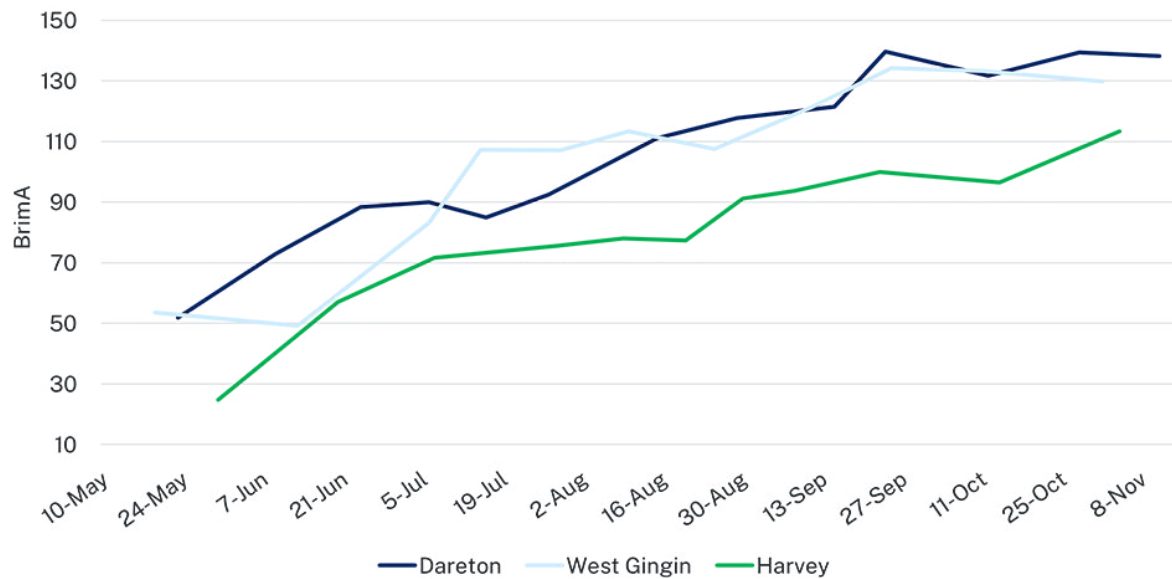


Figure 2. BrimA ($\text{Brix} - (\% \text{ acid} \times 4) \times 16.5$) for Turkey Valencia orange at Dareton, Sunraysia, NSW (blue), Harvey, WA (green) and West Gingin, WA (light blue). Data are averaged over 6 growing seasons. The Australian Citrus Standard for oranges is 90.

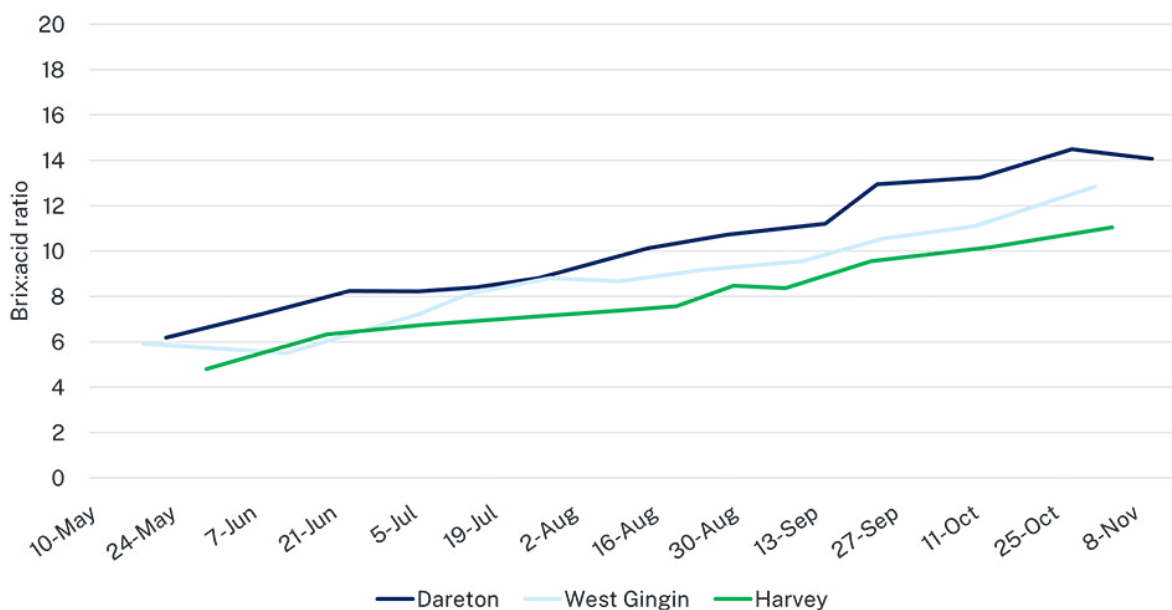


Figure 3. Brix:acid ratio for Turkey Valencia orange recorded at Dareton, Sunraysia, NSW (dark blue), Harvey, WA (green) and West Gingin, WA (light blue). Data are averaged over 6 growing seasons.

Turkey Valencia traits

Trait	Result
Skin	Lightly pebbled, with a noticeable circle surrounding (~1.5 cm) the stylar end.
Average rind thickness (mm)	5.4
Internal quality	A seeded orange with very good eating quality from August to mid-October
Average number of seeds per fruit	1.8
Juice per cent (%)	50
°Brix	11.5
Acid per cent (%)	1.0
Brix:acid ratio	11.5
Average fruit weight (g)	260
Average fruit diameter (mm)	77.3

Representative sequential juice quality data

Date	Brix °	Acid %	Juice %	Brix:acid ratio	BrimA
08.08.2019	11.6	1.24	50	9.3	109
20.08.2019	11.2	1.09	50	10.2	113
02.09.2019	11.2	1.02	47	11.0	118
12.09.2019	11.5	1.06	47	10.9	120
19.09.2019	11.3	0.96	51	11.8	123
17.10.2019	11.4	0.91	47	12.5	128
11.11.2019	11.7	0.83	45	14.1	138
Orange minimum standard					90

Grown in Sunraysia on citrange rootstock with Valencia interstock.

Acknowledgement

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