Department of Primary Industries
and Regional Department

Primefact

Gusocora Valencia evaluation

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Dr Dave Monks, Research Horticulturist, NSW DPIRD, Dareton, NSW
Kevin Lacey, Senior Technical Officer, WA DPIRD, Perth, WA

A mid-season, seedless, Valencia from the Malelane area of Mpumalanga, South Africa. It is believed to have been found in an old clone Valencia orchard.

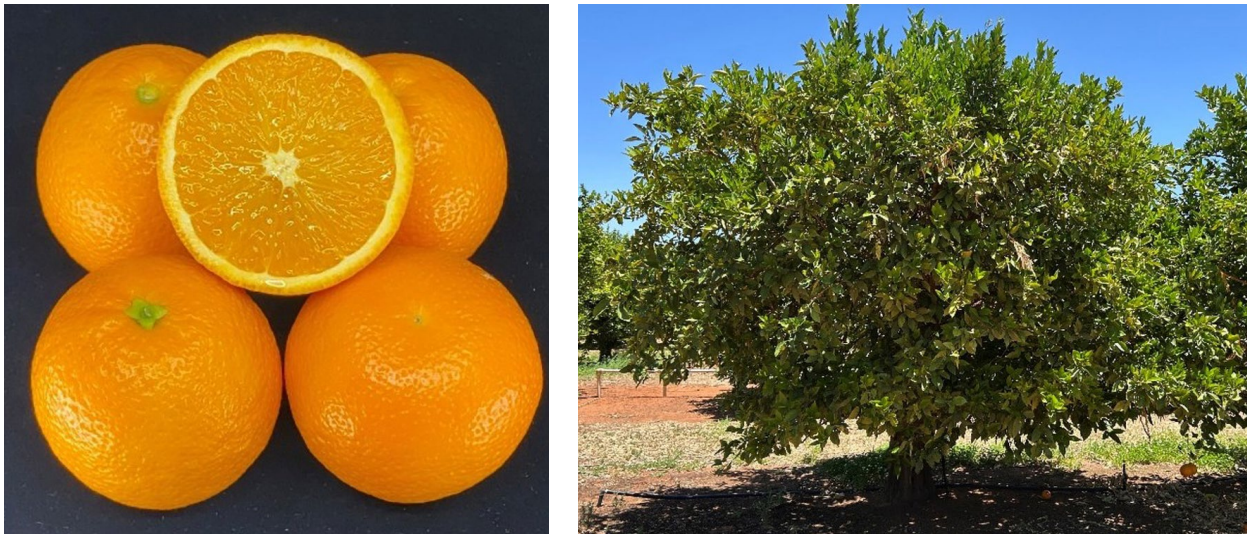

Figure 1. Gusocora Valencia oranges (left) and a Gusocora Valencia orange tree (right).

Estimated maturity window (BrimA ≥90)

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

Gusocora Valencia

Gusocora is a medium-sized, mid-season, seedless, Valencia that matures at a similar time to Midknight. Literature states that Gusocora Valencia was a natural mutation found in an old clone Valencia orchard in the Malelane area of Mpumalanga, South Africa. It was selected for its seedlessness, good production and fruit size compared with other Valencia types. Gusocora has produced a consistent crop over several years, and the fruit has good eating qualities.

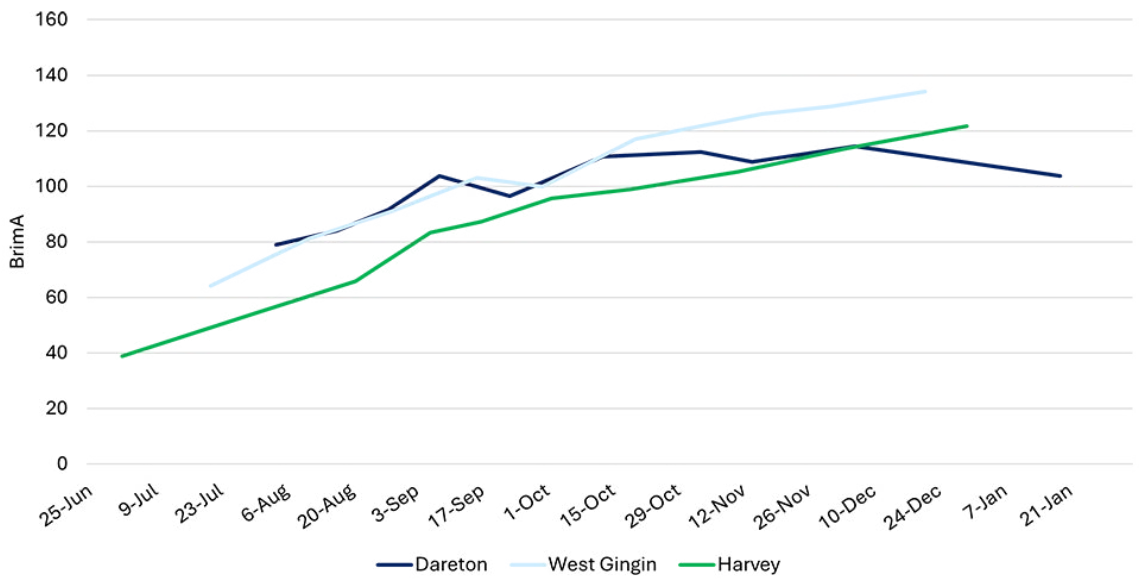

Figure 2. BrimA (Brix-(% acid × 4)) × 16.5) for Gusocora Valencia orange at Dareton, Sunraysia, NSW (dark blue), West Gingin, WA (light blue) and Harvey, WA (green). Data are averaged over 4 growing seasons. The Australian Citrus Standard for oranges is 90.

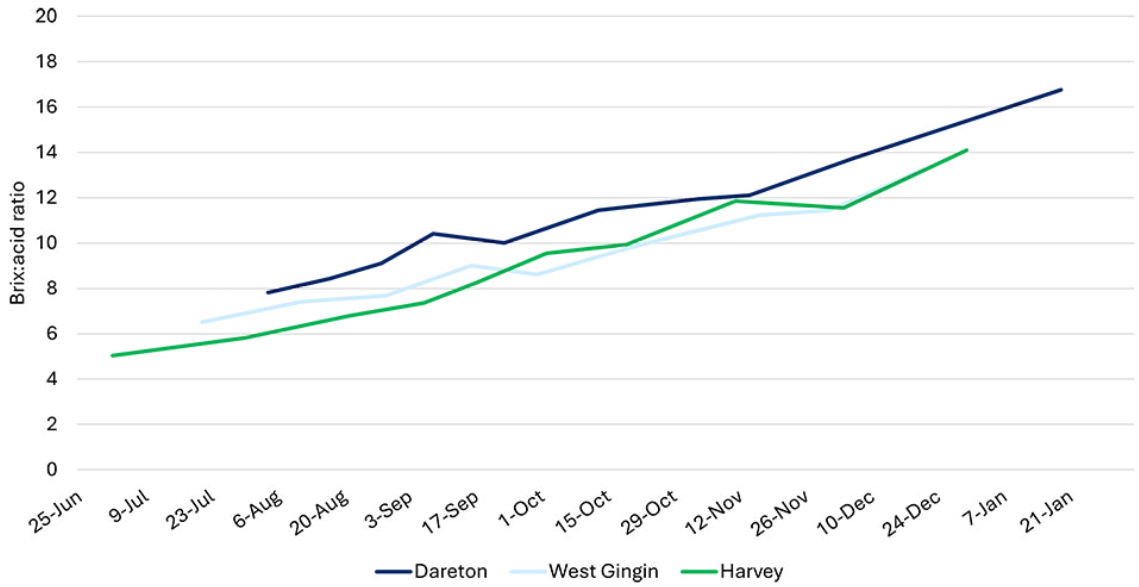

Figure 3. Brix:acid ratio for Gusocora Valencia orange recorded at Dareton, Sunraysia, NSW (dark blue), West Gingin, WA (light blue) and Harvey, WA (green). Data are averaged over 4 growing seasons.

Gusocora Valencia traits

Trait	Result
Skin	Pebbled
Average rind thickness (mm)	5.8
Internal quality	Very good eating quality through December, strong colour and pleasant smell.
Average number of seeds per fruit	0.0
Juice per cent (%)	50
°Brix	10.5
Acid per cent (%)	0.9
Brix:acid ratio	11.7
Average fruit weight (g)	250
Average fruit diameter (mm)	73.0

Representative sequential juice quality data

Date	Brix °	Acid %	Juice %	Brix:acid ratio	BrimA
4.08.2020	9.8	1.25	49	7.8	79
17.08.2020	9.7	1.15	44	8.4	84
28.08.2020	9.9	1.09	52	9.1	92
8.09.2020	10.2	0.98	50	10.4	104
6.10.2020	9.7	0.83	47	11.7	105
20.10.2020	10.0	0.79	48	12.7	113
2.11.2020	9.7	0.78	51	12.4	109
16.11.2020	9.7	0.68	48	14.3	115
Orange minimum standard					90

Grown in Sunraysia on citrange rootstock with Valencia interstock.

Acknowledgement

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