

Variety fact sheet

Bintangcheng Renbin No 5 orange



Estimated Maturity Period

Region	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec
Sunraysia												

Origin: China, early maturing processing orange. Introduced into Australia by Auscitus as two selections – Bintangcheng No 2 (first PEQ release) and Bintangcheng Renbin No 5 (second PEQ release). (Public)

Fruit quality

Skin	Achieves full orange skin colour late in the maturity period. Fruit with a 'green tinge' is often internally mature and suitable for harvest. Colour development appeared superior to Bintangcheng No 2 in the 2012 and 2013 season.
Average Rind Thickness (mm)	4.3
Internal Quality	Fruit quality testing in 2012 was on fruit top worked to Valencia on trifoliata rootstock. Bintangcheng Renbin No 5 has proven to be later maturing than Bintangcheng No 2 due to higher juice acid content. Top-worked trees of Renbin No 5 had an average of 0.88% acid at harvest (4/6/2013). Bintangcheng No 2 had a much lower average of 0.55%. Similar °Brix levels range 10.0 – 11.7.
Average Seed Number per Fruit	1.5
Juice Percent (%)	50
°Brix	10.4
Acid Percent (%)	0.9
Brix/Acid Ratio	11.5
Average Fruit Weight (gm)	160
Average Fruit Diameter (mm)	68

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Comments: Bintangcheng processing orange was initially imported into Australia as seed. After germination and selection of seedlings, trees were propagated on trifoliata rootstock and planted at Dareton Research Station and in the Riverina region of NSW during 1997.

Bintangcheng was re-introduced as budwood by Auscitrus with China providing two selections: Bintangcheng No2 and Bintangcheng Renbin No5. Bintangcheng No 2 has been confirmed as an early maturing selection, but the second selection required sequential fruit quality testing in 2013 to confirm its characteristics and maturity period. Bintangcheng Renbin No 5 spent two additional years in PEQ to 'clean up' and guarantee its plant health status prior to release.

The first field fruit was produced in 2012 but only a small number of fruit was available to carry out limited quality testing.

Average yield per tree (2013) with top-worked trees

Rootstock	Average yield per tree (kg)
Citrance	26
Trifoliata	35
Cleopatra	40

The later maturity of Bintangcheng Renbin No 5 is an advantage for juice processing as it can extend the harvest period for Bintangcheng orange.

The role for the two Bintangcheng orange selections (No. 2 and Renbin No. 5) would be as a blend into late season Valencia juice to impart sweetness and fresh juice characteristics.