

# *Sarcomelicope simplicifolia* (Endl.) T.G.Hartley subsp. *simplicifolia*

## Family:

Rutaceae

Hartley, T.G. (1982) *Australian Journal of Botany* 30: 370.

## Common name:

Yellow Acronychia; Bauerella; Yellow Aspen; Yellowwood; Hard Aspen

## Stem

Seldom exceeding 30 cm dbh.

## Leaves

Oil dots visible with a lens and leaves aromatic when crushed. Leaf blades about 7.5-14 x 2.5-5.5 cm. Lateral veins forming loops well inside the blade margin with a tendency towards a double series of loops. Leafy twigs and petioles cream or yellowish brown.

## Flowers

Inflorescence not exceeding the leaves, but usually longer than the petioles. Calyx about 2 mm long, petals about 4 mm long. Stamens eight, dimorphic, four long and four short, filaments ciliate on the margins, much broader than the anthers. Stamens inserted outside a cupular disk. Ovary pubescent, about 1-1.5 mm diam.

## Fruit

Fruits globular, about 10-15 mm diam., apex acute to obtuse, base rounded to truncate. Calyx and corolla persistent. Seeds about 5-7 mm long, testa about 0.6-0.9 mm thick.

## Seedlings

Cotyledons elliptic, about 7-10 mm long. Oil dots small, visible with a lens. First pair of leaves trifoliate, lateral leaflets much smaller than the middle leaflet. At the tenth leaf stage: leaflet blades elliptic or obovate, lateral leaflets unequal-sided, teeth inconspicuous occurring mainly on the apical half of the leaflet blade; oil dots small and numerous; petiole winged. Seed germination time 36 to 77 days.

## Distribution and Ecology

Occurs in NEQ, CEQ and southwards as far as south eastern New South Wales. Altitudinal range from 400-1100 m. Grows as an understory tree in well developed rain forest on a variety of sites. Also occurs on Lord Howe Island and Norfolk Island.

## Natural History & Notes

The bark of this species contains a number of alkaloids. One of these alkaloids, viz. acronycine, has a particularly broad spectrum of anti-tumor activity. Collins et al. (1990).

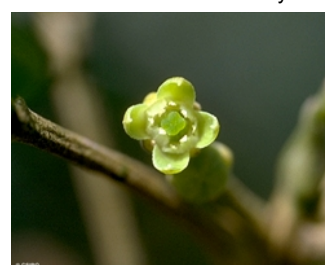
## Synonyms

**Acronychia simplicifolia** (Endl.) Steud., *Nomenclator Botanicus* : 747(1841). **Sarcomelicope simplicifolia** (Endl.) T.G.Hartley, *Australian Journal of Botany* 30: 369(1982). **Bauerella simplicifolia** (Endl.) T.G.Hartley, *Journal of the Arnold Arboretum* 56: 168(1975). **Bauerella simplicifolia** (Endl.) T.G.Hartley subsp. *simplicifolia*, *Journal of the Arnold Arboretum* 56: 168(1975). **Acronychia simplicifolia** (Endl.) Steud. subsp. *simplicifolia*, *Journal of the Arnold Arboretum* 51: 209(1970). **Vepris simplicifolia** Endl., *Prodr. Fl. Norfolk* : 89(1833), Type: Norfolk Island, Bauer, 5 Dec. 1804. **Acronychia endlicheri** Schott, *Fragmenta Botanica Rutaceae* : t. 2(1834), Type: Habitat in insula Norfolk. (Bauer.). **Acronychia baueri** f. *majoriflora* Domin, *Bibliotheca Botanica* 89(4): 848(1928), Type: Queensland: Brisbane River, A.DIETRICH s.n. **Melicope simplicifolia** Domin, *Bibliotheca Botanica* 89(4): 842(1928), Type: Nordost-Queensland: in der regenwaldern bei Harveys Creek verbreitet (DOMIN XII. 1909, I. 1910). **Acronychia baueri** Schott, *Fragmenta Botanica, Rutaceae* : 5(1834), Type: Habitat ... (Bauer). **Jambolifera baueri** (Schott) Kuntze, *Revisio Generum Plantarum* 1: 102(1891). **Acronychia baueri** Schott f. *baueri*, *Bibliotheca Botanica* 89(4): 848(1928).

## RFK Code



Flowers. © G. Sankowsky



Flower. © CSIRO



Flowers. © G. Sankowsky



Leaves and flowers. © G. Sankowsky



Fruit [not vouchered]. © G. Sankowsky



Leaves and fruit [not vouchered].

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Scale bar 10mm. © CSIRO



Cotyledon stage, epigeal germination. © CSIRO



10th leaf stage. © CSIRO

