

Cicer

Annual herb with pinnate leaves, with 3-8 pairs of leaflets and a terminal leaflet, lacking stipels. Flowers small, pink to purple, lacking bracteoles. Stamens 10, 9 filaments joined, 1 free. Style hairless. Pod inflated, 1- or 2-seeded.

Cicer arietinum

Chickpea

Erect to semi-erect annual herb to c. 1m tall, much-branched from the base, the stems arising from a deep taproot. Stems densely covered with spreading glandular hairs. Stipules usually 3-5mm long, 2-4mm wide, 2-5 toothed, not attached to the petiole, persistent. Leaves with 7-17 leaflets. Petiole short, rachis 25-75mm long. Leaflets bluish green, opposite or slightly alternate, 3-15mm long, 2-12mm wide, broadest at or a little above the mid-point, the margins distinctly saw-toothed and curving to the angled or rounded tip and base, more or less densely covered with spreading glandular hairs on both surfaces.

Flowers usually single in leaf axils, the peduncle 6-30mm long, the pedicel 6-13mm long, with a c. 1.5mm bract at the base. Calyx c. 8mm long, covered with spreading hairs, the tube 3-4mm long, the 5 teeth similar, narrow-based and tapering to fine points. Corolla pink to purple, fading to blue, the standard c. 10mm tall and wide, the wings c. 8mm long.

Pod oval, 14-20mm long, 8-10mm wide, greatly inflated, ending in a pointed tip, covered with short spreading glandular hairs, sandy brown when ripe, containing 1-2 seeds. Seeds c. 7mm

Cilianthus

Herb with pinnate leaves with terminal leaflets, lacking stipels. Flowers large, red and black. Stamens 10, 9 filaments joined for almost their entire length, 1 free. Style prominently bearded on the upper side below the stigma. Pods very inflated, many-seeded.

Cilianthus formosus

Sturt pea

Annual or biennial, with trailing or ascending stems. Stems thick, densely covered with spreading 1mm long white hairs. Stipules c. 14mm long, 8mm wide at the base, abruptly narrowing and tapering to a fine point, wide-spreading, densely hairy. Petiole 20-30mm long, rachis to 100mm long, both densely covered with spreading, white hairs. Leaflets 9-17, grey-green, up to 30mm long, 15mm wide, broadest above



Cicer arietinum, Gatton, 27°33'S, 152°20'E, Cult. crop.

the mid-point, rounded towards the tip and slightly tapering towards the base, covered with spreading hairs on the lower surface, hairless on the upper surface, mucronate.

Distribution: Not naturalized but may be found along roadsides in southern districts. Widely cultivated from S.W. Europe through Central Asia to India.

Notes: An increasingly important winter crop in southern Queensland. Cultivars are Tyson, Opal and Amethyst. Nodulates, self-pollinating.

References: 3, 121, 174, 213.

the mid-point, rounded towards the tip and slightly tapering towards the base, covered with spreading hairs on the lower surface, hairless on the upper surface, mucronate.

Inflorescence a very contracted raceme of about 5 showy flowers borne on a c. 200mm erect, axillary peduncle, the axis extending above the flowers as a sterile point. Flowers borne singly within the axils of tapered c. 8mm bracts, each on a c. 15mm pedicel and with a pair of prominent bracteoles below the calyx. Calyx c. 25mm long, covered with short spreading hairs,



Clitorea ternatea, Cult.

the two dorsal sepals joined for about $\frac{1}{2}$ their length, the sepals otherwise joined for less than $\frac{1}{2}$ their length, the teeth narrow and tapering to

Clitorea

Shrubs or vines with pinnate leaves with 3-9 leaflets. Stipels present. Flowers inverted, large and showy, the standard pointing downwards and much longer than the other petals. Stamens 10, 9 filaments joined in a dorsally split tube, 1 free. Style prominently bearded on the upper side below the stigma. Pods 5-10 seeded.

Key to species

Shrubs; leaves pinnate with 3 leaflets
Vines; leaves pinnate with 5-9 leaflets

C. laurifolia
C. ternatea

Clitorea laurifolia

Perennial shrub, the stems usually erect, up to 0.9m tall, densely covered with adpressed hairs. Stipules triangular, 4-6mm long, c. 3mm wide at the base. Leaves pinnate, with three leaflets. Petiole 2-6mm long, rachis 5-25mm long. Stipels 1-2.5mm long, sometimes deciduous. Leaflets 30-100mm long, 15-40mm wide, broadest about the mid-point, tapering to the base, the tip broadly rounded and often indented, hairless on the upper surface, covered with soft adpressed hairs on the paler undersurface.

Inflorescence a 1-2 flowered raceme borne on a 5-50mm axillary peduncle, the flowers borne on c. 4mm pedicels within the axils of c. 2mm bracts. Calyx 20-28mm long, with a pair of broad c. 7mm bracteoles on either side, hairy, the heart-shaped teeth c. $\frac{1}{2}$ the length of the tube. Corolla purple to nearly white, 40-60mm long, the standard minutely hairy on the back.

Pod 25-40mm long, c. 8mm wide, separated from the calyx by a prominent c. 12mm narrow stalk, hairless, containing 5-7 sticky 3mm long plump seeds.

fine points. Standard c. 45mm long, 35mm wide, the sides bending backwards, bright red with a shiny black boss at the base. Wings c. 45mm long from base of calyx, 7mm wide, bright red, shorter than the bright red c. 65mm keel.

Pod 65-80mm long, softly hairy, very inflated, prominently stalked above the calyx, containing numerous seeds.

Distribution: Ma., Mi. Also N.T., W.A., S.A., N.S.W. Endemic to Australia.

Notes: Sparingly eaten by stock. An attractive garden ornamental. Nodulates. Reported to be self-incompatible but sets seed when hand-pollinated (author's unpublished data).

References: 3, 111, 172, 174, 337; as *C. dampieri*, 17, 132.

Distribution: N.K. Native of South America, found only rarely in Queensland around Cardwell. Also introduced to West Africa, South-East Asia and Indonesia.

Notes: Overseas this species is considered to be a valuable cover crop or green manure crop, and is also cut and used for forage. Nodulates.

References: 3, 16, 121, 141.

Clitorea ternatea

Butterfly pea, cordofan pea

Perennial twining vine with stems to 5m long from a woody rootstock. Stems sparsely covered with short adpressed hairs. Stipules 4-5mm long, narrowly triangular and tapering to a point, adpressed, persistent. Leaves pinnate, with 5-9 leaflets. Petiole 15-30mm long, rachis 20-40mm long, both minutely hairy. Stipels 1-2mm long, present at base of all leaflets. Leaflets 20-50mm long, 10-30mm wide, broadest about the mid-point, curving to the base, broadly rounded and often minutely indented at the tip, sparsely