

## Cotoneasters Crib

Version 4, October 2016, compiled by John Norton & Phil Pullen

The table below provides notes on the more commonly cultivated species which readily escape into the wild. Taxa are arranged in order of increasing maximum leaf length (measurements taken from the typically larger leaves on sterile shoots). Hair type and indumentum should be assessed from fully expanded leaves only. Filament and anther colour are best noted while in bud or in the newly opened flower. Descriptions and measurements are summarised from Jeanette Fryer's Cotoneasters book, but where possible these have been checked and updated against fresh specimens. Species marked with an asterisk (\*) are included on the Wildlife and Countryside Act Schedule 9 list of invasive non-native species, as updated April 2010.

### Glossary

*chartaceous* = thin and stiff like cartridge paper

*coriaceous* = thick and leathery

*distichous* = arranged in two rows along the stem, one opposite to the other

*pilose* = covered with short, weak, thin hairs

*strigose* = covered with sharp, adpressed, rigid hairs

*sub* (used as prefix) = 'almost' or 'not quite'

*tomentose* = thickly and evenly covered (cannot see surface) with matted hairs

*villous* = covered with long, weak (shaggy) hairs

Taxon / Series	Habit, height	Leaf type, shape (on sterile shoots)	Lf size (mm) (l x w)	Leaf above	Leaf below	Fruit shape, length, colour	Nutlets	Flowers
<b>horizontalis*</b> Horizontales	Shrub, 0.5-1m.	Deciduous, subcoriaceous, suborbicular, orbicular or broadly obovate.	5-12 x 5-9	Dark green, shiny, glabrescent, 2-4 veins.	Sparsely long-haired strigose.	Subglobose, 5-6mm, orange-red, shiny, subglabrous.	(2)3	1-3 flowered. Corolla closed; petals erect-incurved, dark-red with blackish red base and pale crimson border. Stamens 10(-13); filaments dark-red, anthers white.
<b>microphyllus*</b> Microphylli	Shrub, 0.6-1m, often mound-forming.	Evergreen, coriaceous, spiralled (rarely distichous), (broadly) elliptic to (broadly) obovate.	7-13 x 4-9	Mid to dark green, shiny, sparsely strigose, 2-4 veins.	Grey-green, initially strigose.	Depressed globose, 6-8mm, crimson, subglabrous; calyx lobes erect or suberect, pilose.	2(-3)	1(-3) flowered. Buds pink. Corolla width 7-11mm, petals spreading, white. Stamens 20; filaments white; anthers violet-black.
<b>atropurpureus</b> Horizontales	Shrub, 0.5-1m.	Deciduous, chartaceous, obovate-orbicular.	9-14 x 8-12	Mid to dark green, shiny, glabrous, 2-3 veins.	Very sparse shiny golden-yellow pilose.	Obovoid, 7-8mm, orange-red, subglabrous; calyx lobes erect.	2(-3)	(1-)3(-2) flowered. Corolla closed or small opening; petals erect-incurved, dark red with purple-black base and narrow white border. Stamens 10; filaments dark purple-red with white apex; anthers white, tinged pink.
<b>integrifolius*</b> Microphylli	Shrub 0.5-1.5m.	Evergreen, coriaceous, spiralled, oblanceolate, oblong or rarely lanceolate.	8-17 x 3-8	Dark green (sometimes blue-green), shiny, initially strigose, 2-4 veins.	Greyish white, faintly reticulate, densely strigose to pilose.	Depressed globose, 7-9mm, dark rich red with crimson, dull or slightly shiny, sparsely villous; calyx lobes erect or suberect.	2(-3)	1 (rarely 2) subsessile flower(s). Buds pink. Corolla width 7-15mm, petals spreading, white, glabrous. Stamens 20, erect; filaments narrowly subulate, white, anthers red-purple. Styles 2(-3).
<b>hjelmqvistii</b> Horizontales	Shrub, 0.5-1m.	Deciduous, chartaceous, orbicular or broadly obovate.	13-25 x 10-25	Vivid light green, shiny, glabrous, 3-4(5) veins lightly impressed.	Yellowish pilose-strigose.	Globose to obovoid, 8mm, orange-red, glabrous; calyx lobes obliquely erect.	2(3)	(1-)3(-4) flowered. Corolla open; petals erect-incurved, dark pink with red base and pink border. Stamens 10-16; filaments red and pale-crimson; anthers white.

<b>dielsianus</b> Dielsiani	Shrub, 2-4m.	Deciduous, coriaceous or subcoriaceous, ovate or broadly ovate.	21-26 x 11-26	Slightly rugose, grey-green, shiny, pilose, 2-3 veins lightly impressed.	Greyish tomentose.	Globose, depressed-glob. or obovoid, 6-9mm, rich red, slightly shiny, pilose; calyx lobes flat, navel open.	(3)4(5)	3-7(-10) flowered. Corolla closed; petals erect-incurved, red with dark red, border off-white. Stamens 20; filaments dark red or pink; anthers white.
<b>divaricatus</b> Horizontales	Shrub, 1.5-2m.	Deciduous, chartaceous, broadly elliptic or suborbicular.	10-30 x 7-19	Dark green, shiny, initially sparsely strigose, 3-4 veins, lightly impressed.	Initially strigose.	Cylindrical, 10-11mm, dark red to ruby, shiny, sparsely pilose; calyx lobes suberect.	(1)2(3)	(1-)2(-4) flowered. Corolla with small opening; petals erect-incurved, pale- crimson with dark red base and white border. Stamens 10-15; filaments pale rose-pink or white; anthers white.
<b>simonsii*</b> Distichi	Shrub, 3-4m.	Deciduous, chartaceous or subcoriaceous, broadly elliptic or suborbicular.	19-33 x 13-24	Mid to dark green, shiny, sparsely strigose, 4-5 veins.	Light green, initially strigose.	Cylindrical or obovoid, 10- 12mm, bright orange to orange-red, shiny, glabrous; calyx lobes erect.	[2]3(4) [5]	2-6 flowered. Corolla open; petals erect- incurved, dark red with white border. Stamens 20; filaments pink; anthers white.
<b>franchetii</b> Franchetioides	Shrub, 2-3m.	Evergreen, widely spaced, coriaceous, ovate or elliptic	25-37 x 13-19	Slightly rugose, grey-green, slightly shiny, pilose, 4-5 veins impressed.	Silvery tomentose.	Obovoid, 8-10mm, orange- red, shiny, sparsely pilose; calyx lobes erect to semi- spreading, tomentose.	(2)3	5-15(-25) flowered. Corolla with small opening; petals erect-incurved, pink with dark red, border off-white. Stamens 20; filaments purplish-pink; anthers pink to purple.
<b>sternianus</b> Sterniani	Shrub, 3-4m.	Evergreen, coriaceous, elliptic to broadly ovate.	37-49 x 20-28	Very rugose, dark green, slightly shiny, pilose, 4-5 veins deeply impressed.	Whitish tomentose (often tinged yellow?).	Globose or depressed- globose, 9-10mm, orange- red, pilose; calyx lobes flat, tomentose.	(2)3- 4(5)	7-20 flowered. Corolla with small opening; petals erect-incurved, dark red with minute black dots with pink or white border. Stamens 20, filaments red with pink and white apex; anthers white with pink-tinged border.
<b>salicifolius</b> Salicifolii	Shrub or small tree, 6-8m.	Evergreen, coriaceous.	40-90 x 13-23	rugose, dark green, shiny, initially sparsely pilose, 7-12 veins deeply impressed.	Greyish green, initially densely villous.	Globose, 5-7mm, bright red with hint of crimson, sparsely pilose; calyx lobes depressed or flat, navel slightly open.	2(3) [4- 5]	10-50 flowered. Buds white. Corolla width 5-6mm., petals white, glabrous. Stamens 20; filaments white; anthers purple.
<b>bullatus*</b> Bullati	Shrub, 3-5m.	Deciduous, subcoriaceous, elliptic or ovate.	55-90 x 26-46	Bullate, dark green, shiny, 6-9 veins impressed.	Villous.	Globose or obovoid, 7- 8mm, rich red to red, slightly shiny, calyx lobes depressed, subglabrous.	[4]5	12-30 flowered, lax. Corolla closed or with small opening; petals erect-incurved, red and pale pink, border greenish-pink and off-white. Stamens 20; filaments pale pink; anthers white.
<b>x watereri</b> Frigidi (hybrids between <i>frigidus</i> and <i>salicifolius</i> )	Large shrub or small tree.	Dull green, slightly rugose.	70-100 x 25-50 ('John Waterer' cultivar)	Similar to <i>frigidus</i> .	Initially villous.	Heavy-cropping red or orange-red fruit which are often large (9+mm).	usually 2	Flowers abundant.

<b>lacteus</b> Pannosi	Shrub or small tree, 4-8m.	Evergreen, coriaceous, obovate or broadly elliptic.	42-120 x 20-60	Slightly rugose, dark green, dull, initially sparsely pilose, 7-9 veins deeply impressed.	Yellowish tomentose-villous.	Globose, 6-7mm, crimson, sparsely villous; calyx lobes depressed, tomentose.	2	20-150 flowered, lax. Buds creamy-white, sometimes slightly pinkish. Corolla width 6-8mm, petals spreading, creamy-white, sometimes with hair-tuft at base of upper surface. Stamens 20; filaments white; anthers purple.
<b>frigidus</b> Frigidi	Tree, 15-18m.	Deciduous, chartaceous or sub coriaceous, elliptic, obovate or lanceolate.	105-177 x 37-56	Dark green, slightly shiny, glabrescent, 8-12 veins lightly impressed.	greyish-green, tomentose-villous	Globose, 4-7mm, red, shiny, sparsely villous, calyx lobes depressed, densely villous, navel slightly open.	2(3)	50-200 flowered, lax. Buds white. Corolla width 6-7mm., petals spreading, white, glabrous. Stamens 20; filaments white; anthers black.
<b>reheri</b> Bullati	Shrub, 2-5m.	Deciduous, subcoriaceous, elliptic or obovate.	70-210 x 45-90	Strongly bullate, mid-green, shiny, initially sparsely pilose, 8-11 veins deeply impressed.	light green, initially yellowish strigose	Globose or depressed-globose, 8-11mm, cardinal red, shiny, calyx lobes flat, glabrous.	4-5	10-30 flowered Corolla closed; petals erect-incurved, red or maroon with pink border. Stamens 20; filaments pink; anthers white.