

MANUSCRIPT ONLY

Draft Key to Species of *Hemiandra*

(LAMIACEAE)

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7 April 1998

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- 1a. Calyx adaxial lobe entire or occasionally with a one or two short teeth (section *Hemiandra*)
- 2a. Corolla white, less frequently with pale pink or pale mauve tinge
- 3a. Mature leaves 16--30(40 mm) long [length to width ratio (4-)9--30]; fruits recurved downwards, with fruiting calyx \pm ellipsoid; corolla (15-)20--30(-32) mm long; calyx glabrous or glabrescent, if hairs present then usually < 0.5 mm long (> 25 hairs/mm²); flowers distinctly pedicellate with pedicel 5--12 mm long 2. *H. linearis*
- 3b. Mature leaves 12--19(-22) mm long [length to width ratio (3.7-)4--5.3(-6.4)]; fruits held \pm parallel to substrate, with fruiting calyx \pm flattened globose; corolla (12-)15--20 mm long; calyx usually appearing almost hispid, with hairs usually > 1 mm long (< 20 mm hairs/mm²); flowers \pm sessile with pedicel 1--3(-5) mm long 1. *H. pungens*
- [NB presence of hairs on calyces and hair lengths may not always be true, particularly with reference to the Yandin Road populations of *H. linearis*???, these populations may need to be described as intermediates or hybrids or something else]
- 2b. Corolla mauve, pink-mauve, red, orange, yellow (colour may be variable in population)
- 4a. Corolla red, orange or variable. Anthers like *H. linearis* (\pm equal)
- 5a. Leaves mostly obovate (sometimes narrowly ovate), 14--20 mm long. Plants prostrate, forming dense mats (height 10 cm, 50cm - 2 m wide). Corolla dark red or orange red in colour; anthers like *H. linearis* (\pm equal); flowering as early as September, may finish by November
..... 3. *H. gardneri*
- 5b. Leaves ovate to linear, 9--17 mm long. Small erect plants (height to 50 cm). Flowers multi-coloured (red, pink, yellow); flowering November to January
..... 4. *H. hancocksiana* 'Hancocks'
- 4b. Corolla mauve or pink-mauve. Anthers not like *H. linearis* (not equal)
- 6a. Leaves narrow (length:width $> ??$) (keep in mind the quinn's rocks, yanchep populations which will not key out in this key)
- 7a. Abaxial calyx lobe...???. (adaxial lobe length to abaxial lobe length ratio 1.4--2.1)
..... 5. *H. glabra*

- 7b. Abaxial calyx lobe reduced, with adaxial lobe much larger and semi-enclosing abaxial lobe laterally (adaxial lobe length to abaxial lobe length ratio 2–3.2) **6. *H. leiantha***
- 6b. Leaves broad
- 8a. Flowers sessile or nearly so (pedicel c. 1 mm) Leaves ovate. Calyx upper lobe larger [longer or wider or both] than lower lobe (x ??), lower lobe partially overlapped by lateral parts of upper lobe
..... **7. *H. bellarsiana* 'broad-leaved Kalbarri'**
- 8b. Flowers shortly pedicellate (pedicel 2–5??? mm long)
- 9a. Leaves ovate with bases overlapping, prophylls 1–2(2.2) X length of calyx tube
..... **8. *H. eneabba* 'Eneabba'**
- 9b. Leaves ovate, but bases never overlapping, prophylls 2.6–3.2 X length of calyx tube
..... **9. *H. australis* 'Warren Beach'**
- 1b. Calyx adaxial lobe deeply divided into three triangular lobes (whole calyx appears to consist of five ± equal triangular lobes)(section *Intermedia* Benth.)
- 10a. Corolla pink/mauve **10. *H. incana***
- 10b. Corolla red (orange red or crimson red)
- 11a. Corolla tube c. equal in length to calyx, adaxial corolla lobes turned in on themselves, adaxial (?check) stamen very short (c. ? 2 mm)..... **11. *H. rubriflora***
- 11b. Corolla tube longer than calyx, adaxial corolla lobes facing outwards, adaxial (?check) stamen (> ?2 mm long)
- 12a. Upper and lower surface of leaves with short patent hairs (< ?0.5 mm long) so that leaves appear grey green, veins on undersurface not prominent..... **12. *H. rutilans***
- 12b. Leaf hairs mostly on abaxial surface (sometimes with occasional hairs on adaxial surface and along margin) and with much longer hairs along veins on abaxial surface
- 13a. Corolla lobes much reduced, particularly abaxial and lateral lobes which are small and reflexed back on the corolla tube, appearing *Eremophila*-like
..... **13. *H. eremophiloides***
- 13b. Corolla lobes not reduced, abaxial and lateral lobes are enlarged (or just normal???) and held forward in front of tube..... **14. *H. coccinea***