

\*SHOW: South West Flora Character List Revised 29 October 1993

*Senecio quadridentatus*

\*CHARACTER LIST

#1. <supra group>/

1. fern/
2. cycad/
3. conifer/
4. monocot/
5. dicot/

#2. <origin> <whether native to SW region>/

1. native/
2. naturalised/

#3. <Beard subdistrict> <Western Australian South-west Province, Darling District>/

1. Dale Division/
2. Drummond Division/
3. Menzies Division/
4. Warren Division/

#4. <National Parks> <voucher specimens available>/

1. Leeuwin-Naturaliste/
2. Scott River/
3. D'entrecasteaux/
4. Beedelup/
5. Warren/
6. Shannon/
7. Mt Frankland/
8. Walpole-Nornalup/
9. William Bay/
10. West Cape Howe/
11. Torndirrup/

#5. <National Parks> <voucher specimens not available>/

1. Leeuwin-Naturaliste/
2. Scott River/
3. D'entrecasteaux/
4. Beedelup/
5. Warren/
6. Shannon/
7. Mt Frankland/
8. Walpole-Nornalup/
9. William Bay/
10. West Cape Howe/
11. Torndirrup/

#6. flowers <flowering period>/

1. January/
2. February/
3. March/
4. April/
5. May/
6. June/
7. July/
8. August/
9. September/

- 10. October/
- 11. November/
- 12. December/

#7. <vegetation type>/

- 1. coastal heath/
- 2. swamp/
- 3. shrubland/
- 4. woodland/
- 5. karri forest/
- 6. jarrah forest/
- 7. other/
- 8. heath <not coastal>/
- 9. granite rocks/
- 10. riverine vegetation/
- 11. estuarine vegetation/

#8. <text> <date> compiled/ 1.10.97

#9. <C> <S> <plant> <habit>/

- 1. tree/
- 2. tree-like/
- 3. shrub/
- 4. climber/
- 5. herb/
- 6. grass-like/
- 7. <other, specify>/
- 8. sedge or rush-like/

#10. <19> <plant> <longevity in herbs>/

- 1. annual/
- 2. biennial/
- 3. perennial/

#11. <C> <541> <plant> <height, m, including inflorescence>/  
m high/ 0.3-0.7

#12. <29?> <plant> <whether aquatic or terrestrial>/

- 1. aquatic <hydrophytic>/
- 2. terrestrial <implicit>/

#13. <30> <hydrophytic habit>/

- 1. marine/
- 2. non-marine/

#14. <32> leaves <of rooted hydrophytes> <habit>/

- 1. submerged/
- 2. emergent/
- 3. floating/

#15. <C> <12> leaves <including phyllodes, presence>/

- 1. present <implicit>/
- 2. much reduced/
- 3. absent/

#16. leaves <whether fasciculate>/

- 1. fasciculate/
- 2. not fasciculate <implicit>/

- #17. <36> leaves <insertion, score "scattered; crowded" as U, with comment>/
1. alternate/
  2. opposite/
  3. whorled/
- #18. <37> leaves <phyllotaxy, when alternate>/
1. spiral/
  2. distichous/
  3. 4-ranked/
  4. 3-ranked <tristichous>/
- #19. leaves <opposite, whether decussate>/
1. decussate/
  2. not decussate <implicit>/
- #20. <64?> stipule <presence>/
1. present <well developed, leaves stipulate>/
  2. absent <or much reduced, leaves exstipulate>/
- #21. <42> leaves <whether petiolate>/
1. petiolate/
  2. subsessile/
  3. sessile/
  4. perfoliate/
- #22. <C> <542> leaves <total leaf length, mm>/  
mm long/ 15 - 200
- #23. <C> <543> leaves <total leaf width, mm>/  
mm wide/ 2 - 14
- #24. <C> <50> leaves <whether simple or compound>/
1. simple <implicit>/
  2. compound/
- #25. <56> <simple leaves> blade <dissection>/
1. dissected/
  2. entire <apart from margin>/
- #26. <simple leaves> <shape> <ref: Flora of the Perth Region>/
1. narrowly elliptic/ →
  2. elliptic/
  3. broadly elliptic/
  4. circular elliptic/
  5. transversely broadly elliptic/
  6. transversely elliptic/
  7. narrowly oblong/
  8. oblong/
  9. broadly oblong/
  10. square/
  11. transversely broadly oblong/
  12. transversely oblong/
  13. narrowly rhombic/
  14. rhombic/
  15. broadly rhombic/
  16. quadrate/
  17. transversely broadly rhombic/

18. transversely rhombic/
19. narrowly ovate/
20. ovate/
21. broadly ovate/
22. very broadly ovate/
23. depressed ovate/
24. narrowly obovate/
25. obovate/
26. broadly obovate/
27. very broadly obovate/
28. depressed obovate/
29. narrowly trullate/
30. trullate/
31. broadly trullate/
32. very broadly trullate/
33. depressed trullate/
34. narrowly obtullate/
35. obtullate/
36. broadly obtullate/
37. very broadly obtullate/
38. depressed obtullate/
39. narrowly triangular/
40. triangular/
41. broadly triangular/
42. deltate/
43. shallowly triangular/
44. narrowly obtriangular/
45. obtriangular/
46. broadly obtriangular/
47. obdeltate/
48. shallowly obtriangular/
49. linear/
50. subulate/
51. <other - specify>/
52. filiform/

#27. <simple leaves> <whether twisted>/

1. twisted/
2. not twisted/

#28. <simple leaves> margins <whether ciliate>/

1. ciliate/
2. not ciliate/

#29. <39?> <leaves> blade <mature form>/

1. flat/
2. folded lengthwise/
3. concave/
4. convex/
5. involute/
6. revolute/
7. terete/
8. semi-terete/
9. 3-angled/
10. 4-angled/
11. compressed/

#30. <71?> <simple leaves> margins/

1. entire/
2. crenate/
3. serrate/
4. dentate/
5. denticulate/ (distantly)
6. spiny-toothed/

#31. <542> <simple leaves> blade <length, mm>/  
mm long/ 15-200

#32. <543> <simple leaves> blade <width, mm>/  
mm wide/ 2-14

- #33. <53> leaves <compound form>/
1. unifoliolate/
  2. ternate/
  3. pinnate/
  4. palmate/
  5. bipinnate/
  6. multipinnate <multiply compound>/
  7. <other -specify>/

#34. <compound leaves> <leaflet shape> <ref: Flora of the Perth Region>/

1. narrowly elliptic/
2. elliptic/
3. broadly elliptic/
4. circular elliptic/
5. transversely broadly elliptic/
6. transversely elliptic/
7. narrowly oblong/
8. oblong/
9. broadly oblong/
10. square/
11. transversely broadly oblong/
12. transversely oblong/
13. narrowly rhombic/
14. rhombic/
15. broadly rhombic/
16. quadrate/
17. transversely broadly rhombic/
18. transversely rhombic/
19. narrowly ovate/
20. ovate/
21. broadly ovate/
22. very broadly ovate/
23. depressed ovate/
24. narrowly obovate/
25. obovate/
26. broadly obovate/
27. very broadly obovate/
28. depressed obovate/
29. narrowly trullate/
30. trullate/
31. broadly trullate/
32. very broadly trullate/
33. depressed trullate/
34. narrowly obtrullate/
35. obtrullate/

36. broadly obtusate/
37. very broadly obtusate/
38. depressed obtusate/
39. narrowly triangular/
40. triangular/
41. broadly triangular/
42. deltate/
43. shallowly triangular/
44. narrowly obtusate/
45. obtusate/
46. broadly obtusate/
47. obdeltate/
48. shallowly obtusate/
49. linear/
50. subulate/
51. <other - specify>/
52. filiform/

#35. <compound leaves> <leaflet> margin/

1. entire/
2. crenate/
3. serrate/
4. dentate/
5. denticulate/
6. spiny toothed/

#36. <compound leaves> <leaflet margins> <whether ciliate>/

1. ciliate/
2. not ciliate/

#37. <544> <compound leaves> leaflet blade <ultimate length, mm>/  
mm long/

#38. <545> <compound leaves> leaflet blade <ultimate width, mm>/  
mm wide/

#39. <C> <546> flowers <overall inflorescence colour>/

1. green/
2. white/
3. cream/
4. yellow/
5. orange/
6. red/
7. pink/
8. purple/
9. violet/
10. blue/
11. brown/
12. black/
13. other/

#40. flowers <shape> <casual character>/

1. 3-petal/
2. 4-petal/
3. 5-petal/
4. 6-petal/
5. pea flower/
6. wattle/

7. eucalypt/
8. daisy/ *or*
9. dandelion-daisy/
10. clustered/
11. other/
12. spikelet/

- #41. <C> <175> flowers <arrangement>/
1. solitary/
  2. aggregated <into inflorescences>/

- #42. <C> <176> flowers in <inflorescence type>/
1. cymes/
  2. racemes/
  3. spikes/
  4. heads/
  5. umbels/
  6. corymbs/
  7. fascicles/
  8. panicles/
  9. verticils/
  10. glomerules/
  11. catkins/
  12. <other - specify>/

- #43. <plant sexuality>/
1. hermaphrodite <flowers bisexual, implicit>/ *(inner florets)*
  2. monoecious <separate male and female flowers on same plant>/
  3. dioecious <plants with either all male or all female flowers>/
  4. other <specify>/ *(outer florets female)*

- #44. <186> <flowers> bracts <whether bracteate>/
1. present *(involucral)*
  2. absent/

- #45. <188> <flowers> bracteoles <whether bracteolate>/
1. present/
  2. absent/

- #46. <207> floral whorls <presence or absence of perianth>/
1. two distinct whorls <calyx and corolla>/
  2. intergrading calyx to corolla/
  3. one whorl only (calyx) - corolla absent/
  4. one whorl only (corolla) - calyx absent/ *(apparently - calyx reduced to pappus)*
  5. one whorl of uncertain origin <floral whorl or perianth>/
  6. two whorls of uncertain origin <perianth in monocots>/
  7. vestigial <reduced to bracts, scales, bristles, hairs or lodicules>/
  8. absent/

- #47. <202> floral tube <presence>/
1. present/
  2. absent <implicit>/

- #48. <219> calyx *(or outer perianth)* <number of parts>/

- #49. <222> calyx *(or outer perianth)* <whether parts joined or free>/
1. free <or almost so> <polysepalous>/
  2. of joined and free segments <partially gamosepalous>/

3. joined <gamosepalous>/
- #50. calyx <sup>or outer perianth</sup> <length, mm>/  
mm long/
- #51. <236> corolla <sup>or inner perianth</sup> <number of parts>/ **5**  
segments/
- #52. <240> corolla <sup>or inner perianth</sup> <whether parts joined or free>/  
1. free <or almost so> <polysepalous>/  
2. of joined and free segments <partially gamosepalous>/  
3. **joined** <gamosepalous>/
- #53. <246??> corolla <sup>or inner perianth</sup> <where segments joined, shape>/  
1. rotate/  
2. 2-lipped/  
3. campanulate/  
4. **tubular**/  
5. urceolate/  
6. trumpet-like/  
7. spurred/  
8. ligulate/  
9. **lobed**/
- #54. <255??> petals <sup>or inner perianth</sup> <or corolla lobes, whether incised>/  
1. deeply bifid/  
2. 2-lobed/  
3. fringed/  
4. entire/  
5. emarginate/  
6. several lobed/  
7. <other - specify>/
- #55. corolla <sup>or inner perianth</sup> <length, mm>/  
mm long/
- #56. <271> stamens <fertile, number>/ **5**
- #57. <269> staminodes <number>/ **0**
- #58. <265??> stamens <freedom>/  
1. free/  
2. **fused** (in tube around style) **>**  
3. some fused and some free/
- #59. stamens <insertion>/  
1. opposite sepals/  
2. opposite petals/  
3. in continuous whorl/  
4. <other - specify>/
- #60. <283??> anthers dehiscing <mechanism>/  
1. by pores/  
2. **by vertical slits**/  
3. by transverse slits/  
4. by valves/  
5. <other, specify>/



- #61. <316> ovary <gynoecium, constitution>/  
 1. monomerous <of a single carpel>/  
 2. apocarpous <of two or more free carpels>/  
 3. syncarpous <of two or more fused or partly fused carpels>/
- #62. <318> ovary <position>/  
 1. superior/  
 2. partly inferior/  
 3. inferior/
- #63. <326> ovary <locule number of syncarpous gynoecia (currently includes  
 carpel number of apocarpous gynoecia)>/  
 locular/
- #64. <333?> styles <number>/ 1
- #65. <336?> styles <insertion>/  
 1. apical/  
 2. lateral/  
 3. gynobasic/
- #66. styles <whether simple or branched>/  
 1. simple/  
 2. branched/
- #67. styles <number of branches>/  
 branches/ 2
- #68. <?379, 381, 382> fruit <type>/  
 1. legume/  
 2. loment/  
 3. follicle/  
 4. achene/  
 5. samara/  
 6. nut/  
 7. drupe/  
 8. berry/  
 9. mericarps/  
 10. capsule/  
 11. silicule/  
 12. siliqua/  
 13. caryopsis/  
 14. <other, specify>/
- #69. <?378, 380> fruit <whether dehiscent>/  
 1. dehiscent/  
 2. indehiscent/
- #70. fruit <length, mm>/  
 mm long/ 2.5 - 4
- #71. fruit <width, mm>/  
 mm wide/
- #72. <text> <complete description, added only at completion of flora>/
- #73. floral whorl or perianth <no. of parts>/

#74. floral whorl or perianth <whether free or joined>/

1. free/
2. joined/

#75. floral whorl or perianth <length, mm>/

mm long/

#76. stamens <insertion when perianth fused>/

1. on perianth tube <below level of lobes or top of fused section>/
2. in perianth throat <above fused section>/
3. free from perianth/

\*SHOW: South West Flora Character List Revised 29 October 1993

*Olearia shigosa*

\*CHARACTER LIST

#1. <supra group>/

- 1. fern/
- 2. cycad/
- 3. conifer/
- 4. monocot/
- 5. dicot/

#2. <origin> <whether native to SW region>/

- 1. native/
- 2. naturalised/

#3. <Beard subdistrict> <Western Australian South-west Province, Darling District>/

- 1. Dale Division/
- 2. Drummond Division/
- 3. Menzies Division/
- 4. Warren Division/

#4. <National Parks> <voucher specimens available>/

- 1. Leeuwin-Naturaliste/
- 2. Scott River/
- 3. D'entrecasteaux/
- 4. Beedelup/
- 5. Warren/
- 6. Shannon/
- 7. Mt Frankland/
- 8. Walpole-Nornalup/
- 9. William Bay/
- 10. West Cape Howe/
- 11. Torndirrup/

#5. <National Parks> <voucher specimens not available>/

- 1. Leeuwin-Naturaliste/
- 2. Scott River/
- 3. D'entrecasteaux/
- 4. Beedelup/
- 5. Warren/
- 6. Shannon/
- 7. Mt Frankland/
- 8. Walpole-Nornalup/
- 9. William Bay/
- 10. West Cape Howe/
- 11. Torndirrup/

#6. flowers <flowering period>/

- 1. January/
- 2. February/
- 3. March/
- 4. April/
- 5. May/
- 6. June/
- 7. July/
- 8. August/
- 9. September/

- 10. October/
- 11. November/
- 12. December/

#7. <vegetation type>/

- 1. coastal heath/
- 2. swamp/
- 3. shrubland/
- 4. woodland/
- 5. karri forest/
- 6. Jarrah forest/
- 7. other/
- 8. heath <not coastal>/
- 9. granite rocks/
- 10. riverine vegetation/
- 11. estuarine vegetation/

#8. <text> <date> compiled/ 1.10.97

#9. <C> <5> <plant> <habit>/

- 1. tree/
- 2. tree-like/
- 3. shrub/
- 4. climber/
- 5. herb/
- 6. grass-like/
- 7. <other, specify>/
- 8. sedge or rush-like/

#10. <19> <plant> <longevity in herbs>/

- 1. annual/
- 2. biennial/
- 3. perennial/

#11. <C> <541> <plant> <height, m, including inflorescence>/  
m high/ 0.1-0.3

#12. <29?> <plant> <whether aquatic or terrestrial>/

- 1. aquatic <hydrophytic>/
- 2. terrestrial <implicit>/

#13. <30> <hydrophytic habit>/

- 1. marine/
- 2. non-marine/

#14. <32> leaves <of rooted hydrophytes> <habit>/

- 1. submerged/
- 2. emergent/
- 3. floating/

#15. <C> <12> leaves <including phyllodes, presence>/

- 1. present <implicit>/
- 2. much reduced/
- 3. absent/

#16. leaves <whether fasciculate>/

- 1. fasciculate/
- 2. not fasciculate <implicit>/

#17. <36> leaves <insertion, score "scattered; crowded" as U, with comment>/

1. alternate/
2. opposite/
3. whorled/

#18. <37> leaves <phyllotaxy, when alternate>/

1. spiral/
2. distichous/
3. 4-ranked/
4. 3-ranked <tristichous>/

#19. leaves <opposite, whether decussate>/

1. decussate/
2. not decussate <implicit>/

#20. <64?> stipule <presence>/

1. present <well developed, leaves stipulate>/
2. absent <or much reduced, leaves exstipulate>/

#21. <42> leaves <whether petiolate>/

1. petiolate/
2. subsessile/
3. sessile/
4. perfoliate/

#22. <C> <542> leaves <total leaf length, mm>/  
mm long/ 2.5-18

#23. <C> <543> leaves <total leaf width, mm>/  
mm wide/ 1-2.5

#24. <C> <50> leaves <whether simple or compound>/

1. simple <implicit>/
2. compound/

#25. <56> <simple leaves> blade <dissection>/

1. dissected/
2. entire <apart from margin>/

#26. <simple leaves> <shape> <ref: Flora of the Perth Region>/

1. narrowly elliptic/
2. elliptic/
3. broadly elliptic/
4. circular elliptic/
5. transversely broadly elliptic/
6. transversely elliptic/
7. narrowly oblong/ 10
8. oblong/
9. broadly oblong/
10. square/
11. transversely broadly oblong/
12. transversely oblong/
13. narrowly rhombic/
14. rhombic/
15. broadly rhombic/
16. quadrate/
17. transversely broadly rhombic/

18. transversely rhombic/
19. narrowly ovate/
20. ovate/
21. broadly ovate/
22. very broadly ovate/
23. depressed ovate/
24. narrowly obovate/
25. obovate/
26. broadly obovate/
27. very broadly obovate/
28. depressed obovate/
29. narrowly trullate/
30. trullate/
31. broadly trullate/
32. very broadly trullate/
33. depressed trullate/
34. narrowly obtrullate/
35. obtrullate/
36. broadly obtrullate/
37. very broadly obtrullate/
38. depressed obtrullate/
39. narrowly triangular/
40. triangular/
41. broadly triangular/
42. deltate/
43. shallowly triangular/
44. narrowly obtriangular/
45. obtriangular/
46. broadly obtriangular/
47. obdeltate/
48. shallowly obtriangular/
49. linear/
50. subulate/
51. <other - specify>/
52. filiform/

#27. <simple leaves> <whether twisted>/

1. twisted/
2. not twisted/

#28. <simple leaves> margins <whether ciliate>/

1. ciliate/
2. not ciliate/

#29. <39?> <leaves> blade <mature form>/

1. flat/
2. folded lengthwise/
3. concave/
4. convex/
5. involute/
6. revolute/
7. terete/
8. semi-terete/
9. 3-angled/
10. 4-angled/
11. compressed/

#30. <71?> <simple leaves> margins/

1. entire/
2. crenate/
3. serrate/
4. dentate/
5. denticulate/
6. spiny-toothed/

#31. <542> <simple leaves> blade <length, mm>/  
mm long/ 2.5 - 18

#32. <543> <simple leaves> blade <width, mm>/  
mm wide/ 1 - 2.5

- #33. <53> leaves <compound form>/
1. unifoliolate/
  2. ternate/
  3. pinnate/
  4. palmate/
  5. bipinnate/
  6. multipinnate <multiply compound>/
  7. <other -specify>/

#34. <compound leaves> <leaflet shape> <ref: Flora of the Perth Region>/

1. narrowly elliptic/
2. elliptic/
3. broadly elliptic/
4. circular elliptic/
5. transversely broadly elliptic/
6. transversely elliptic/
7. narrowly oblong/
8. oblong/
9. broadly oblong/
10. square/
11. transversely broadly oblong/
12. transversely oblong/
13. narrowly rhombic/
14. rhombic/
15. broadly rhombic/
16. quadrate/
17. transversely broadly rhombic/
18. transversely rhombic/
19. narrowly ovate/
20. ovate/
21. broadly ovate/
22. very broadly ovate/
23. depressed ovate/
24. narrowly obovate/
25. obovate/
26. broadly obovate/
27. very broadly obovate/
28. depressed obovate/
29. narrowly trullate/
30. trullate/
31. broadly trullate/
32. very broadly trullate/
33. depressed trullate/
34. narrowly obtullate/
35. obtullate/

36. broadly obtrullate/
37. very broadly obtrullate/
38. depressed obtrullate/
39. narrowly triangular/
40. triangular/
41. broadly triangular/
42. deltate/
43. shallowly triangular/
44. narrowly obtriangular/
45. obtriangular/
46. broadly obtriangular/
47. obdeltate/
48. shallowly obtriangular/
49. linear/
50. subulate/
51. <other - specify>/
52. filiform/

#35. <compound leaves> <leaflet> margin/

1. entire/
2. crenate/
3. serrate/
4. dentate/
5. denticulate/
6. spiny toothed/

#36. <compound leaves> <leaflet margins> <whether ciliate>/

1. ciliate/
2. not ciliate/

#37. <544> <compound leaves> leaflet blade <ultimate length, mm>/  
mm long/

#38. <545> <compound leaves> leaflet blade <ultimate width, mm>/  
mm wide/

#39. <C> <546> flowers <overall inflorescence colour>/

1. green/
2. white/
3. cream/
4. yellow/ *and*
5. orange/
6. red/
7. pink/
8. purple/ *b*
9. violet/
10. blue/
11. brown/
12. black/
13. other/

#40. flowers <shape> <casual character>/

1. 3-petal/
2. 4-petal/
3. 5-petal/
4. 6-petal/
5. pea flower/
6. wattle/



7. eucalypt/
8. daisy/
9. dandelion-daisy/
10. clustered/
11. other/
12. spikelet/

#41. <C> <175> flowers <arrangement>/  
 1. solitary/ *(circled)*  
 2. aggregated <into inflorescences>/ *(circled)*

#42. <C> <176> flowers in <inflorescence type>/  
 1. cymes/  
 2. racemes/  
 3. spikes/  
 4. heads/ *(circled)*  
 5. umbels/  
 6. corymbs/  
 7. fascicles/  
 8. panicles/  
 9. verticils/  
 10. glomerules/  
 11. catkins/  
 12. <other - specify>/

#43. <plant sexuality>/  
 1. hermaphrodite <flowers bisexual, implicit>/ *(circled)* *(inner florets)*  
 2. monoecious <separate male and female flowers on same plant>/  
 3. dioecious <plants with either all male or all female flowers>/  
 4. other <specify>/ *(circled)* *(female outer florets)*

#44. <186> <flowers> bracts <whether bracteate>/  
 1. present/ *(circled)* *(+ involucre)*  
 2. absent/

#45. <188> <flowers> bracteoles <whether bracteolate>/  
 1. present/  
 2. absent/ *(circled)*

#46. <207?> floral whorls <presence or absence of perianth>/  
 1. two distinct whorls <calyx and corolla>/ *(circled)*  
 2. intergrading calyx to corolla/  
 3. one whorl only (calyx) -corolla absent/  
 4. one whorl only (corolla) -calyx absent/ *(circled)* *(calyx reduced to pappus)*  
 5. one whorl of uncertain origin <floral whorl or perianth>/  
 6. two whorls of uncertain origin <perianth in monocots>/  
 7. vestigial <reduced to bracts, scales, bristles, hairs or lodicules>/  
 8. absent/

#47. <202> floral tube <presence>/  
 1. present/  
 2. absent <implicit>/

#48. <219> calyx *(outer perianth)* <number of parts>/

#49. <222> calyx *(or outer perianth)* <whether parts joined or free>/

1. free <or almost so> <polysepalous>/
2. of joined and free segments <partially gamosepalous>/

3. joined <gamosepalous>/
- #50. calyx <length, mm>/  
mm long/
- #51. <236> corolla <number of parts>/ <sup>or inner perianth</sup> 5  
segments/
- #52. <240> corolla <whether parts joined or free>/  
1. free <or almost so> <polysepalous>/  
2. of joined and free segments <partially gamosepalous>/  
3. joined <gamosepalous>/
- #53. <246?> corolla <where segments joined, shape>/  
1. rotate/  
2. 2-lipped/  
3. campanulate/  
4. tubular (inner florets)  
5. urceolate/  
6. trumpet-like/  
7. spurred/  
8. ligulate (outer florets)  
9. lobed (inner florets)
- #54. <255?> petals <or corolla lobes, whether incised>/  
1. deeply bifid/  
2. 2-lobed/  
3. fringed/  
4. entire/  
5. emarginate/  
6. several lobed/  
7. <other - specify>/
- #55. corolla <length, mm>/  
mm long/
- #56. <271> stamens <fertile, number>/ 5
- #57. <269> staminodes <number>/ 0
- #58. <265?> stamens <freedom>/  
1. free/  
2. fused (around style)  
3. some fused and some free/
- #59. stamens <insertion>/  
1. opposite sepals/  
2. opposite petals/  
3. in continuous whorl/  
4. <other - specify>/
- #60. <283?> anthers dehiscing <mechanism>/  
1. by pores/  
2. by vertical slits/  
3. by transverse slits/  
4. by valves/  
5. <other, specify>/

- #61. <316> ovary <gynoecium, constitution>/  
 1. monomerous <of a single carpel>/  
 2. apocarpous <of two or more free carpels>/  
 3. syncarpous <of two or more fused or partly fused carpels>/
- #62. <318> ovary <position>/  
 1. superior/  
 2. partly inferior/  
 3. inferior/
- #63. <326> ovary <locule number of syncarpous gynoecia (currently includes  
 carpel number of apocarpous gynoecia)>/  
 locular/ 1
- #64. <333?> styles <number>/ 1
- #65. <336?> styles <insertion>/  
 1. apical/  
 2. lateral/  
 3. gynobasic/
- #66. styles <whether simple or branched>/  
 1. simple/  
 2. branched/
- #67. styles <number of branches>/  
 branches/ 2
- #68. <?379, 381, 382> fruit <type>/  
 1. legume/  
 2. loment/  
 3. follicle/  
 4. achene/  
 5. samara/  
 6. nut/  
 7. drupe/  
 8. berry/  
 9. mericarps/  
 10. capsule/  
 11. silicule/  
 12. siliqua/  
 13. caryopsis/  
 14. <other, specify>/
- #69. <?378, 380> fruit <whether dehiscent>/  
 1. dehiscent/  
 2. indehiscent/
- #70. fruit <length, mm>/  
 mm long/ 1-2
- #71. fruit <width, mm>/  
 mm wide/
- #72. <text> <complete description, added only at completion of flora>/
- #73. floral whorl or perianth <no. of parts>/

- #74. floral whorl or perianth <whether free or joined>/  
1. free/  
2. joined/
- #75. floral whorl or perianth <length, mm>/  
mm long/
- #76. stamens <insertion when perianth fused>/  
1. on perianth tube <below level of lobes or top of fused section>/  
2. in perianth throat <above fused section>/  
3. free from perianth/

\*SHOW: South West Flora Character List Revised 29 October 1993

1  
*Olearia homolepis*

\*CHARACTER LIST

#1. <supra group>/

1. fern/
2. cycad/
3. conifer/
4. monocot/
5. dicot/

#2. <origin> <whether native to SW region>/

1. native/
2. naturalised/

#3. <Beard subdistrict> <Western Australian South-west Province, Darling District>/

1. Dale Division/
2. Drummond Division/
3. Menzies Division/
4. Warren Division/

#4. <National Parks> <voucher specimens available>/

1. Leeuwin-Naturaliste/
2. Scott River/
3. D'entrecasteaux/
4. Beedelup/
5. Warren/
6. Shannon/
7. Mt Frankland/
8. Walpole-Nornalup/
9. William Bay/
10. West Cape Howe/
11. Torndirrup/

#5. <National Parks> <voucher specimens not available>/

1. Leeuwin-Naturaliste/
2. Scott River/
3. D'entrecasteaux/
4. Beedelup/
5. Warren/
6. Shannon/
7. Mt Frankland/
8. Walpole-Nornalup/
9. William Bay/
10. West Cape Howe/
11. Torndirrup/

#6. flowers <flowering period>/

1. January/
2. February/
3. March/
4. April/
5. May/
6. June/
7. July/
8. August/
9. September/

- 10. October/
- 11. November/
- 12. December/

#7. <vegetation type>/

- 1. coastal heath/
- 2. swamp/
- 3. shrubland/
- 4. woodland/
- 5. karri forest/
- 6. jarrah forest/
- 7. other/
- 8. heath <not coastal>/
- 9. granite rocks/
- 10. riverine vegetation/
- 11. estuarine vegetation/

#8. <text> <date> compiled/ 1.10.97

#9. <C> <5> <plant> <habit>/

- 1. tree/
- 2. tree-like/
- 3. shrub/
- 4. climber/
- 5. herb/
- 6. grass-like/
- 7. <other, specify>/
- 8. sedge or rush-like/

#10. <19> <plant> <longevity in herbs>/

- 1. annual/
- 2. biennial/
- 3. perennial/

#11. <C> <541> <plant> <height, m, including inflorescence>/  
m high/ 0.3 - 1

#12. <29?> <plant> <whether aquatic or terrestrial>/

- 1. aquatic <hydrophytic>/
- 2. terrestrial <implicit>/

#13. <30> <hydrophytic habit>/

- 1. marine/
- 2. non-marine/

#14. <32> leaves <of rooted hydrophytes> <habit>/

- 1. submerged/
- 2. emergent/
- 3. floating/

#15. <C> <12> leaves <including phyllodes, presence>/

- 1. present <implicit>/
- 2. much reduced/
- 3. absent/

#16. leaves <whether fasciculate>/

- 1. fasciculate/
- 2. not fasciculate <implicit>/

- #17. <36> leaves <insertion, score "scattered; crowded" as U, with comment>/  
 1. alternate/  
 2. opposite/  
 3. whorled/
- #18. <37> leaves <phyllotaxy, when alternate>/  
 1. spiral/  
 2. distichous/  
 3. 4-ranked/  
 4. 3-ranked <tristichous>/
- #19. leaves <opposite, whether decussate>/  
 1. decussate/  
 2. not decussate <implicit>/
- #20. <64?> stipule <presence>/  
 1. present <well developed, leaves stipulate>/  
 2. absent <or much reduced, leaves exstipulate>/
- #21. <42> leaves <whether petiolate>/  
 1. petiolate/  
 2. subsessile/  
 3. sessile/  
 4. perfoliate/
- #22. <C> <542> leaves <total leaf length, mm>/  
 mm long/ 5 - 20
- #23. <C> <543> leaves <total leaf width, mm>/  
 mm wide/ 1 - 1.5
- #24. <C> <50> leaves <whether simple or compound>/  
 1. simple <implicit>/  
 2. compound/
- #25. <56> <simple leaves> blade <dissection>/  
 1. dissected/  
 2. entire <apart from margin>/
- #26. <simple leaves> <shape> <ref: Flora of the Perth Region>/  
 1. narrowly elliptic/  
 2. elliptic/  
 3. broadly elliptic/  
 4. circular elliptic/  
 5. transversely broadly elliptic/  
 6. transversely elliptic/  
 7. narrowly oblong ✓  
 8. oblong/  
 9. broadly oblong/  
 10. square/  
 11. transversely broadly oblong/  
 12. transversely oblong/  
 13. narrowly rhombic/  
 14. rhombic/  
 15. broadly rhombic/  
 16. quadrate/  
 17. transversely broadly rhombic/

18. transversely rhombic/
19. narrowly ovate/
20. ovate/
21. broadly ovate/
22. very broadly ovate/
23. depressed ovate/
24. narrowly obovate/ →
25. obovate/
26. broadly obovate/
27. very broadly obovate/
28. depressed obovate/
29. narrowly trullate/
30. trullate/
31. broadly trullate/
32. very broadly trullate/
33. depressed trullate/
34. narrowly obtrullate/
35. obtrullate/
36. broadly obtrullate/
37. very broadly obtrullate/
38. depressed obtrullate/
39. narrowly triangular/
40. triangular/
41. broadly triangular/
42. deltate/
43. shallowly triangular/
44. narrowly obtriangular/
45. obtriangular/
46. broadly obtriangular/
47. obdeltate/
48. shallowly obtriangular/
49. linear/
50. subulate/
51. <other - specify>/
52. filiform/

#27. <simple leaves> <whether twisted>/

1. twisted/
2. not twisted/

#28. <simple leaves> margins <whether ciliate>/

1. ciliate/
2. not ciliate/

#29. <39?> <leaves> blade <mature form>/

1. flat/
2. folded lengthwise/
3. concave/
4. convex/
5. involute/
6. revolute/
7. terete/
8. semi-terete/
9. 3-angled/
10. 4-angled/
11. compressed/

#30. <71?> <simple leaves> margins/



1. entire/
2. crenate/
3. serrate/
4. dentate/
5. denticulate/
6. spiny-toothed/

#31. <542> <simple leaves> blade <length, mm>/  
mm long/ **5-20**

#32. <543> <simple leaves> blade <width, mm>/  
mm wide/ **1-1.5**

- #33. <53> leaves <compound form>/
1. unifoliolate/
  2. ternate/
  3. pinnate/
  4. palmate/
  5. bipinnate/
  6. multipinnate <multiply compound>/
  7. <other -specify>/

#34. <compound leaves> <leaflet shape> <ref: Flora of the Perth Region>/

1. narrowly elliptic/
2. elliptic/
3. broadly elliptic/
4. circular elliptic/
5. transversely broadly elliptic/
6. transversely elliptic/
7. narrowly oblong/
8. oblong/
9. broadly oblong/
10. square/
11. transversely broadly oblong/
12. transversely oblong/
13. narrowly rhombic/
14. rhombic/
15. broadly rhombic/
16. quadrate/
17. transversely broadly rhombic/
18. transversely rhombic/
19. narrowly ovate/
20. ovate/
21. broadly ovate/
22. very broadly ovate/
23. depressed ovate/
24. narrowly obovate/
25. obovate/
26. broadly obovate/
27. very broadly obovate/
28. depressed obovate/
29. narrowly trullate/
30. trullate/
31. broadly trullate/
32. very broadly trullate/
33. depressed trullate/
34. narrowly obtrullate/
35. obtrullate/

36. broadly obtrullate/
37. very broadly obtrullate/
38. depressed obtrullate/
39. narrowly triangular/
40. triangular/
41. broadly triangular/
42. deltate/
43. shallowly triangular/
44. narrowly obtriangular/
45. obtriangular/
46. broadly obtriangular/
47. obdeltate/
48. shallowly obtriangular/
49. linear/
50. subulate/
51. <other - specify>/
52. filiform/

#35. <compound leaves> <leaflet> margin/

1. entire/
2. crenate/
3. serrate/
4. dentate/
5. denticulate/
6. spiny toothed/

#36. <compound leaves> <leaflet margins> <whether ciliate>/

1. ciliate/
2. not ciliate/

#37. <544> <compound leaves> leaflet blade <ultimate length, mm>/  
mm long/

#38. <545> <compound leaves> leaflet blade <ultimate width, mm>/  
mm wide/

#39. <C> <546> flowers <overall inflorescence colour>/

1. green/
2. white/ *<outer florets>*
3. cream/
4. yellow/ *<inner florets>*
5. orange/
6. red/
7. pink/
8. purple/
9. violet/
10. blue/ *<outer florets>*
11. brown/
12. black/
13. other/

#40. flowers <shape> <casual character>/

1. 3-petal/
2. 4-petal/
3. 5-petal/
4. 6-petal/
5. pea flower/
6. wattle/

7. eucalypt/
8. daisy/
9. dandelion-daisy/
10. clustered/
11. other/
12. spikelet/

- #41. <C> <175> flowers <arrangement>/
1. solitary/
  2. aggregated <into inflorescences>/

- #42. <C> <176> flowers in <inflorescence type>/
1. cymes/
  2. racemes/
  3. spikes/
  4. heads/
  5. umbels/
  6. corymbs/
  7. fascicles/
  8. panicles/
  9. verticils/
  10. glomerules/
  11. catkins/
  12. <other - specify>/

- #43. <plant sexuality>/
1. hermaphrodite <flowers bisexual, implicit>/ *<inner florets>*
  2. monoecious <separate male and female flowers on same plant>/
  3. dioecious <plants with either all male or all female flowers>/
  4. other <specify>/ *<outer florets female>*

- #44. <186> <flowers> bracts <whether bracteate>/
1. present/ *<involucral>*
  2. absent/

- #45. <188> <flowers> bracteoles <whether bracteolate>/
1. present/
  2. absent/

- #46. <207?> floral whorls <presence or absence of perianth>/
1. two distinct whorls <calyx and corolla>/
  2. intergrading calyx to corolla/
  3. one whorl only (calyx) - corolla absent/
  4. one whorl only (corolla) - calyx absent/ *<calyx reduced to pappus>*
  5. one whorl of uncertain origin <floral whorl or perianth>/
  6. two whorls of uncertain origin <perianth in monocots>/
  7. vestigial <reduced to bracts, scales, bristles, hairs or lodicules>/
  8. absent/

- #47. <202> floral tube <presence>/
1. present/
  2. absent <implicit>/

- #48. <219> calyx *<outer perianth>* <number of parts>/

- #49. <222> calyx *<or outer perianth>* <whether parts joined or free>/
1. free <or almost so> <polysepalous>/
  2. of joined and free segments <partially gamosepalous>/

3. joined <gamosepalous>/
- #50. calyx <sup>or outer perianth</sup> <length, mm>/  
mm long/
- #51. <236> corolla <sup>or inner perianth</sup> <number of parts>/ **5**  
segments/
- #52. <240> corolla <sup>or inner perianth</sup> <whether parts joined or free>/  
1. free <or almost so> <polysepalous>/  
2. of joined and free segments <partially gamosepalous>/  
3. joined <gamosepalous>/
- #53. <246?> corolla <sup>or inner perianth</sup> <where segments joined, shape>/  
1. rotate/  
2. 2-lipped/  
3. campanulate/  
4. tubular (inner floras)  
5. urceolate/  
6. trumpet-like/  
7. spurred/  
8. ligulate (outer floras)  
9. lobed (inner floras)
- #54. <255?> petals <sup>or inner perianth</sup> <or corolla lobes, whether incised>/  
1. deeply bifid/  
2. 2-lobed/  
3. fringed/  
4. entire/  
5. emarginate/  
6. several lobed/  
7. <other - specify>/
- #55. corolla <sup>or inner perianth</sup> <length, mm>/  
mm long/
- #56. <271> stamens <fertile, number>/ **5**
- #57. <269> staminodes <number>/ **0**
- #58. <265?> stamens <freedom>/  
1. free/  
2. fused (in tube around style)  
3. some fused and some free/
- #59. stamens <insertion>/  
1. opposite sepals or  
2. opposite petals/  
3. in continuous whorl/  
4. <other - specify>/
- #60. <283?> anthers dehiscing <mechanism>/  
1. by pores/  
2. by vertical slits/  
3. by transverse slits/  
4. by valves/  
5. <other, specify>/

- #61. <316> ovary <gynoecium, constitution>/  
 1. monomerous <of a single carpel>/  
 2. apocarpous <of two or more free carpels>/  
 3. syncarpous <of two or more fused or partly fused carpels>/
- #62. <318> ovary <position>/  
 1. superior/  
 2. partly inferior/  
 3. inferior/
- #63. <326> ovary <locule number of syncarpous gynoecia (currently includes  
 carpel number of apocarpous gynoecia)>/  
 locular/ 1
- #64. <333?> styles <number>/ 1
- #65. <336?> styles <insertion>/  
 1. apical/  
 2. lateral/  
 3. gynobasic/
- #66. styles <whether simple or branched>/  
 1. simple/  
 2. branched/
- #67. styles <number of branches>/  
 branches/ 2
- #68. <?379, 381, 382> fruit <type>/  
 1. legume/  
 2. loment/  
 3. follicle/  
 4. achene/  
 5. samara/  
 6. nut/  
 7. drupe/  
 8. berry/  
 9. mericarps/  
 10. capsule/  
 11. silicule/  
 12. siliqua/  
 13. caryopsis/  
 14. <other, specify>/
- #69. <?378, 380> fruit <whether dehiscent>/  
 1. dehiscent/  
 2. indehiscent/
- #70. fruit <length, mm>/  
 mm long/
- #71. fruit <width, mm>/  
 mm wide/
- #72. <text> <complete description, added only at completion of flora>/
- #73. floral whorl or perianth <no. of parts>/

#74. floral whorl or perianth <whether free or joined>/

1. free/
2. joined/

#75. floral whorl or perianth <length, mm>/

mm long/

#76. stamens <insertion when perianth fused>/

1. on perianth tube <below level of lobes or top of fused section>/
2. in perianth throat <above fused section>/
3. free from perianth/

\*SHOW: South West Flora Character List Revised 29 October 1993

\* *Coreopsis grandiflora*

\*CHARACTER LIST

#1. <supra group>/

1. fern/
2. cycad/
3. conifer/
4. monocot/
5. dicot/

#2. <origin> <whether native to SW region>/

1. native/
2. naturalised/

#3. <Beard subdistrict> <Western Australian South-west Province, Darling District>/

1. Dale Division/
2. Drummond Division/
3. Menzies Division/
4. Warren Division/

#4. <National Parks> <voucher specimens available>/

1. Leeuwin-Naturaliste/
2. Scott River/
3. D'entrecasteaux/
4. Beedelup/
5. Warren/
6. Shannon/
7. Mt Frankland/
8. Walpole-Nornalup/
9. William Bay/
10. West Cape Howe/
11. Torndirrup/

#5. <National Parks> <voucher specimens not available>/

1. Leeuwin-Naturaliste/
2. Scott River/
3. D'entrecasteaux/
4. Beedelup/
5. Warren/
6. Shannon/
7. Mt Frankland/
8. Walpole-Nornalup/
9. William Bay/
10. West Cape Howe/
11. Torndirrup/

#6. flowers <flowering period>/

1. January/
2. February/
3. March/
4. April/
5. May/
6. June/
7. July/
8. August/
9. September/

- 10. October/
- 11. ~~November/~~
- 12. ~~December/~~

#7. <vegetation type>/

- 1. coastal heath/
- 2. swamp/
- 3. shrubland/
- 4. woodland/
- 5. karri forest/
- 6. jarrah forest/
- 7. other/ *(disubbed areas)*
- 8. heath <not coastal>/
- 9. granite rocks/
- 10. riverine vegetation/
- 11. estuarine vegetation/

#8. <text> <date> compiled/ *1.10.97*

#9. <C> <S> <plant> <habit>/

- 1. tree/
- 2. tree-like/
- 3. shrub/
- 4. climber/
- 5. herb/
- 6. grass-like/
- 7. <other, specify>/
- 8. sedge or rush-like/

#10. <19> <plant> <longevity in herbs>/

- 1. annual/ *(rarely)*
- 2. biennial/
- 3. perennial/

#11. <C> <541> <plant> <height, m, including inflorescence>/  
m high/ *0.2 - 0.6*

#12. <29?> <plant> <whether aquatic or terrestrial>/

- 1. aquatic <hydrophytic>/
- 2. terrestrial <implicit>/

#13. <30> <hydrophytic habit>/

- 1. marine/
- 2. non-marine/

#14. <32> leaves <of rooted hydrophytes> <habit>/

- 1. submerged/
- 2. emergent/
- 3. floating/

#15. <C> <12> leaves <including phyllodes, presence>/

- 1. present <implicit>/
- 2. much reduced/
- 3. absent/

#16. leaves <whether fasciculate>/

- 1. fasciculate/
- 2. not fasciculate <implicit>/



- #17. <36> leaves <insertion, score "scattered; crowded" as U, with comment>/
1. alternate/
  2. opposite/
  3. whorled/
- #18. <37> leaves <phyllotaxy, when alternate>/
1. spiral/
  2. distichous/
  3. 4-ranked/
  4. 3-ranked <tristichous>/
- #19. leaves <opposite, whether decussate>/
1. decussate/
  2. not decussate <implicit>/
- #20. <64?> stipule <presence>/
1. present <well developed, leaves stipulate>/
  2. absent <or much reduced, leaves exstipulate>/
- #21. <42> leaves <whether petiolate>/
1. petiolate/
  2. subsessile/
  3. sessile/
  4. perfoliate/
- #22. <C> <542> leaves <total leaf length, mm>/  
mm long/
- #23. <C> <543> leaves <total leaf width, mm>/  
mm wide/
- #24. <C> <50> leaves <whether simple or compound>/
1. simple <implicit>/
  2. compound/
- #25. <56> <simple leaves> blade <dissection>/
1. dissected/
  2. entire <apart from margin>/
- #26. <simple leaves> <shape> <ref: Flora of the Perth Region>/
1. narrowly elliptic (lobes) to
  2. elliptic/
  3. broadly elliptic/
  4. circular elliptic/
  5. transversely broadly elliptic/
  6. transversely elliptic/
  7. narrowly oblong/
  8. oblong/
  9. broadly oblong/
  10. square/
  11. transversely broadly oblong/
  12. transversely oblong/
  13. narrowly rhombic/
  14. rhombic/
  15. broadly rhombic/
  16. quadrate/
  17. transversely broadly rhombic/

18. transversely rhombic/
19. narrowly ovate/
20. ovate/
21. broadly ovate/
22. very broadly ovate/
23. depressed ovate/
24. narrowly obovate/
25. obovate/
26. broadly obovate/
27. very broadly obovate/
28. depressed obovate/
29. narrowly trullate/
30. trullate/
31. broadly trullate/
32. very broadly trullate/
33. depressed trullate/
34. narrowly obtrullate/
35. obtrullate/
36. broadly obtrullate/
37. very broadly obtrullate/
38. depressed obtrullate/
39. narrowly triangular/
40. triangular/
41. broadly triangular/
42. deltate/
43. shallowly triangular/
44. narrowly obtriangular/
45. obtriangular/
46. broadly obtriangular/
47. obdeltate/
48. shallowly obtriangular/
49. linear/ (lobes)
50. subulate/
51. <other - specify>/
52. filiform/

#27. <simple leaves> <whether twisted>/

1. twisted/
2. not twisted/

#28. <simple leaves> margins <whether ciliate>/

1. ciliate/
2. not ciliate/

#29. <39?> <leaves> blade <mature form>/

1. flat/
2. folded lengthwise/
3. concave/
4. convex/
5. involute/
6. revolute/
7. terete/
8. semi-terete/
9. 3-angled/
10. 4-angled/
11. compressed/

#30. <71?> <simple leaves> margins/

1. entire/
2. crenate/
3. serrate/
4. dentate/
5. denticulate/
6. spiny-toothed/

#31. <542> <simple leaves> blade <length, mm>/  
mm long/

#32. <543> <simple leaves> blade <width, mm>/  
mm wide/

#33. <53> leaves <compound form>/

1. unifoliolate/
2. ternate/
3. pinnate/
4. palmate/
5. bipinnate/
6. multipinnate <multiply compound>/
7. <other -specify>/

#34. <compound leaves> <leaflet shape> <ref: Flora of the Perth Region>/

1. narrowly elliptic/
2. elliptic/
3. broadly elliptic/
4. circular elliptic/
5. transversely broadly elliptic/
6. transversely elliptic/
7. narrowly oblong/
8. oblong/
9. broadly oblong/
10. square/
11. transversely broadly oblong/
12. transversely oblong/
13. narrowly rhombic/
14. rhombic/
15. broadly rhombic/
16. quadrate/
17. transversely broadly rhombic/
18. transversely rhombic/
19. narrowly ovate/
20. ovate/
21. broadly ovate/
22. very broadly ovate/
23. depressed ovate/
24. narrowly obovate/
25. obovate/
26. broadly obovate/
27. very broadly obovate/
28. depressed obovate/
29. narrowly trullate/
30. trullate/
31. broadly trullate/
32. very broadly trullate/
33. depressed trullate/
34. narrowly obtrullate/
35. obtrullate/

36. broadly obtrullate/
37. very broadly obtrullate/
38. depressed obtrullate/
39. narrowly triangular/
40. triangular/
41. broadly triangular/
42. deltate/
43. shallowly triangular/
44. narrowly obtriangular/
45. obtriangular/
46. broadly obtriangular/
47. obdeltate/
48. shallowly obtriangular/
49. linear/
50. subulate/
51. <other - specify>/
52. filiform/

#35. <compound leaves> <leaflet> margin/

1. entire/
2. crenate/
3. serrate/
4. dentate/
5. denticulate/
6. spiny toothed/

#36. <compound leaves> <leaflet margins> <whether ciliate>/

1. ciliate/
2. not ciliate/

#37. <544> <compound leaves> leaflet blade <ultimate length, mm>/  
mm long/

#38. <545> <compound leaves> leaflet blade <ultimate width, mm>/  
mm wide/

#39. <C> <546> flowers <overall inflorescence colour>/

1. green/
2. white/
3. cream/
4. yellow/
5. orange/
6. red/
7. pink/
8. purple/
9. violet/
10. blue/
11. brown/
12. black/
13. other/

#40. flowers <shape> <casual character>/

1. 3-petal/
2. 4-petal/
3. 5-petal/
4. 6-petal/
5. pea flower/
6. wattle/

- 7. eucalypt/
- 8. daisy/
- 9. dandelion-daisy/
- 10. clustered/
- 11. other/
- 12. spikelet/

- #41. <C> <175> flowers <arrangement>/
- 1. solitary/
  - 2. aggregated <into inflorescences>/

- #42. <C> <176> flowers in <inflorescence type>/
- 1. cymes/
  - 2. racemes/
  - 3. spikes/
  - 4. heads/
  - 5. umbels/
  - 6. corymbs/
  - 7. fascicles/
  - 8. panicles/
  - 9. verticils/
  - 10. glomerules/
  - 11. catkins/
  - 12. <other - specify>/

- #43. <plant sexuality>/
- 1. hermaphrodite <flowers bisexual, implicit> *<inner florets>*
  - 2. monoecious <separate male and female flowers on same plant>/
  - 3. dioecious <plants with either all male or all female flowers>/
  - 4. other <specify> *<outer florets neuter>*

- #44. <186> <flowers> bracts <whether bracteate>/
- 1. present *(involucreals)*
  - 2. absent/

- #45. <188> <flowers> bracteoles <whether bracteolate>/
- 1. present/
  - 2. absent/

- #46. <207?> floral whorls <presence or absence of perianth>/
- 1. two distinct whorls <calyx and corolla>/
  - 2. intergrading calyx to corolla/
  - 3. one whorl only (calyx) -corolla absent/
  - 4. one whorl only (corolla) -calyx absent/ *<calyx reduced to pappus>*
  - 5. one whorl of uncertain origin <floral whorl or perianth>/
  - 6. two whorls of uncertain origin <perianth in monocots>/
  - 7. vestigial <reduced to bracts, scales, bristles, hairs or lodicules>/
  - 8. absent/

- #47. <202> floral tube <presence>/
- 1. present/
  - 2. absent <implicit>/

- #48. <219> calyx *or outer perianth* <number of parts>/

- #49. <222> calyx *or outer perianth* <whether parts joined or free>/
- 1. free <or almost so> <polysepalous>/
  - 2. of joined and free segments <partially gamosepalous>/

3. joined <gamosepalous>/

#50. calyx <sup>or outer perianth</sup> <length, mm>/  
mm long/

#51. <236> corolla <sup>or inner perianth</sup> <number of parts>/ **5**  
segments/

#52. <240> corolla <sup>or inner perianth</sup> <whether parts joined or free>/  
1. free <or almost so> <polysepalous>/  
2. of joined and free segments <partially gamosepalous>/  
3. **joined** <gamosepalous>/

#53. <246?> corolla <sup>or inner perianth</sup> <where segments joined, shape>/  
1. rotate/  
2. 2-lipped/  
3. campanulate/  
4. **tubular** (inner florets)  
5. urceolate/  
6. trumpet-like/  
7. spurred/

8. **ligulate** (outer florets)  
9. **lobed** (inner florets)

#54. <255?> petals <sup>or inner perianth</sup> <or corolla lobes, whether incised>/  
1. deeply bifid/  
2. 2-lobed/  
3. fringed/  
4. entire/  
5. emarginate/  
6. several lobed/  
7. <other - specify>/

#55. corolla <sup>or inner perianth</sup> <length, mm>/  
mm long/

#56. <271> stamens <fertile, number>/ **5**

#57. <269> staminodes <number>/ **0**

#58. <265?> stamens <freedom>/

1. free/  
2. **fused** (in tube around style)  
3. some fused and some free/

#59. stamens <insertion>/

1. **opposite sepals** or  
2. opposite petals/  
3. **in continuous whorl**/  
4. <other - specify>/

#60. <283?> anthers dehiscing <mechanism>/

1. by pores/  
2. **by vertical slits**/  
3. by transverse slits/  
4. by valves/  
5. <other, specify>/

- #61. <316> ovary <gynoecium, constitution>/  
 1. monomerous <of a single carpel>/  
 2. apocarpous <of two or more free carpels>/  
 3. syncarpous <of two or more fused or partly fused carpels>/
- #62. <318> ovary <position>/  
 1. superior/  
 2. partly inferior/  
 3. inferior/
- #63. <326> ovary <locule number of syncarpous gynoecia (currently includes carpel number of apocarpous gynoecia)>/  
 locular/ 1
- #64. <333?> styles <number>/ 1
- #65. <336?> styles <insertion>/  
 1. apical/  
 2. lateral/  
 3. gynobasic/
- #66. styles <whether simple or branched>/  
 1. simple/  
 2. branched/
- #67. styles <number of branches>/  
 branches/ 2
- #68. <?379, 381, 382> fruit <type>/  
 1. legume/  
 2. loment/  
 3. follicle/  
 4. achene (winged)/  
 5. samara/  
 6. nut/  
 7. drupe/  
 8. berry/  
 9. mericarps/  
 10. capsule/  
 11. silicule/  
 12. siliqua/  
 13. caryopsis/  
 14. <other, specify>/
- #69. <?378, 380> fruit <whether dehiscent>/  
 1. dehiscent/  
 2. indehiscent/
- #70. fruit <length, mm>/  
 mm long/ 2-3
- #71. fruit <width, mm>/  
 mm wide/
- #72. <text> <complete description, added only at completion of flora>/
- #73. floral whorl or perianth <no. of parts>/

#74. floral whorl or perianth <whether free or joined>/

1. free/
2. joined/

#75. floral whorl or perianth <length, mm>/

mm long/

#76. stamens <insertion when perianth fused>/

1. on perianth tube <below level of lobes or top of fused section>/
2. in perianth throat <above fused section>/
3. free from perianth/



\*SHOW: South West Flora Character List Revised 29 October 1993

*Gnephosis drummondii*

\*CHARACTER LIST

#1. <supra group>/

- 1. fern/
- 2. cycad/
- 3. conifer/
- 4. monocot/
- 5. dicot/

#2. <origin> <whether native to SW region>/

- 1. native/
- 2. naturalised/

#3. <Beard subdistrict> <Western Australian South-west Province, Darling District>/

- 1. Dale Division/
- 2. Drummond Division/
- 3. Menzies Division/
- 4. Warren Division/

#4. <National Parks> <voucher specimens available>/

- 1. Leeuwin-Naturaliste/
- 2. Scott River/
- 3. D'entrecasteaux/
- 4. Beedelup/
- 5. Warren/
- 6. Shannon/
- 7. Mt Frankland/
- 8. Walpole-Nornalup/
- 9. William Bay/
- 10. West Cape Howe/
- 11. Torndirrup/

#5. <National Parks> <voucher specimens not available>/

- 1. Leeuwin-Naturaliste/
- 2. Scott River/
- 3. D'entrecasteaux/
- 4. Beedelup/
- 5. Warren/
- 6. Shannon/
- 7. Mt Frankland/
- 8. Walpole-Nornalup/
- 9. William Bay/
- 10. West Cape Howe/
- 11. Torndirrup/

#6. flowers <flowering period>/

- 1. January/
- 2. February/
- 3. March/
- 4. April/
- 5. May/
- 6. June/
- 7. July/
- 8. August/
- 9. September/

- 10. October/
- 11. November/
- 12. December/

#7. <vegetation type>/

- 1. coastal heath/
- 2. swamp/
- 3. shrubland/
- 4. woodland/
- 5. karri forest/
- 6. jarrah forest/
- 7. other/
- 8. heath <not coastal>/
- 9. granite rocks/
- 10. riverine vegetation/
- 11. estuarine vegetation/

#8. <text> <date> compiled/ 1.10.97

#9. <C> <S> <plant> <habit>/

- 1. tree/
- 2. tree-like/
- 3. shrub/
- 4. climber/
- 5. herb/
- 6. grass-like/
- 7. <other, specify>/
- 8. sedge or rush-like/

#10. <19> <plant> <longevity in herbs>/

- 1. annual/
- 2. biennial/
- 3. perennial/

#11. <C> <541> <plant> <height, m, including inflorescence>/  
m high/ 0.01 - 0.05

#12. <29?> <plant> <whether aquatic or terrestrial>/

- 1. aquatic <hydrophytic>/
- 2. terrestrial <implicit>/

#13. <30> <hydrophytic habit>/

- 1. marine/
- 2. non-marine/

#14. <32> leaves <of rooted hydrophytes> <habit>/

- 1. submerged/
- 2. emergent/
- 3. floating/

#15. <C> <12> leaves <including phyllodes, presence>/

- 1. present <implicit>/
- 2. much reduced/
- 3. absent/

#16. leaves <whether fasciculate>/

- 1. fasciculate/
- 2. not fasciculate <implicit>/

#17. <36> leaves <insertion, score "scattered; crowded" as U, with comment>/

1. alternate / *uppermost*
2. opposite / *lower*
3. whorled/

#18. <37> leaves <phyllotaxy, when alternate>/

1. spiral/
2. distichous/
3. 4-ranked/
4. 3-ranked <tristichous>/

#19. leaves <opposite, whether decussate>/

1. decussate/
2. not decussate <implicit>/

#20. <64?> stipule <presence>/

1. present <well developed, leaves stipulate>/
2. absent <or much reduced, leaves exstipulate>/

#21. <42> leaves <whether petiolate>/

1. petiolate/
2. subsessile/
3. sessile/
4. perfoliate/

#22. <C> <542> leaves <total leaf length, mm>/  
mm long/ *2-6(11)*

#23. <C> <543> leaves <total leaf width, mm>/  
mm wide/ *0.4-1*

#24. <C> <50> leaves <whether simple or compound>/

1. simple <implicit>/
2. compound/

#25. <56> <simple leaves> blade <dissection>/

1. dissected/
2. entire <apart from margin>/

#26. <simple leaves> <shape> <ref: Flora of the Perth Region>/

1. narrowly elliptic *to*
2. elliptic/
3. broadly elliptic/
4. circular elliptic/
5. transversely broadly elliptic/
6. transversely elliptic/
7. narrowly oblong/
8. oblong/
9. broadly oblong/
10. square/
11. transversely broadly oblong/
12. transversely oblong/
13. narrowly rhombic/
14. rhombic/
15. broadly rhombic/
16. quadrate/
17. transversely broadly rhombic/

18. transversely rhombic/
19. narrowly ovate/
20. ovate/
21. broadly ovate/
22. very broadly ovate/
23. depressed ovate/
24. narrowly obovate/
25. obovate/
26. broadly obovate/
27. very broadly obovate/
28. depressed obovate/
29. narrowly trullate/
30. trullate/
31. broadly trullate/
32. very broadly trullate/
33. depressed trullate/
34. narrowly obtrullate/
35. obtrullate/
36. broadly obtrullate/
37. very broadly obtrullate/
38. depressed obtrullate/
39. narrowly triangular/
40. triangular/
41. broadly triangular/
42. deltate/
43. shallowly triangular/
44. narrowly obtriangular/
45. obtriangular/
46. broadly obtriangular/
47. obdeltate/
48. shallowly obtriangular/
49. linear/
50. subulate/
51. <other - spec fy>/
52. filiform/

#27. <simple leaves> <whether twisted>/

1. twisted/
2. not twisted/

#28. <simple leaves> margins <whether ciliate>/

1. ciliate/
2. not ciliate/

#29. <39?> <leaves> blade <mature form>/

1. flat/
2. folded lengthwise/
3. concave/
4. convex/
5. involute/
6. revolute/
7. terete/
8. semi-terete/
9. 3-angled/
10. 4-angled/
11. compressed/

#30. <71?> <simple leaves> margins/

1. entire/
2. crenate/
3. serrate/
4. dentate/
5. denticulate/
6. spiny-toothed/

#31. <542> <simple leaves> blade <length, mm>/  
mm long/

2-6(11)

#32. <543> <simple leaves> blade <width, mm>/  
mm wide/

0.4-1

#33. <53> leaves <compound form>/

1. unifoliate/
2. ternate/
3. pinnate/
4. palmate/
5. bipinnate/
6. multipinnate <multiply compound>/
7. <other -specify>/

#34. <compound leaves> <leaflet shape> <ref: Flora of the Perth Region>/

1. narrowly elliptic/
2. elliptic/
3. broadly elliptic/
4. circular elliptic/
5. transversely broadly elliptic/
6. transversely elliptic/
7. narrowly oblong/
8. oblong/
9. broadly oblong/
10. square/
11. transversely broadly oblong/
12. transversely oblong/
13. narrowly rhombic/
14. rhombic/
15. broadly rhombic/
16. quadrate/
17. transversely broadly rhombic/
18. transversely rhombic/
19. narrowly ovate/
20. ovate/
21. broadly ovate/
22. very broadly ovate/
23. depressed ovate/
24. narrowly obovate/
25. obovate/
26. broadly obovate/
27. very broadly obovate/
28. depressed obovate/
29. narrowly trullate/
30. trullate/
31. broadly trullate/
32. very broadly trullate/
33. depressed trullate/
34. narrowly obtrullate/
35. obtrullate/

36. broadly obtrullate/
37. very broadly obtrullate/
38. depressed obtrullate/
39. narrowly triangular/
40. triangular/
41. broadly triangular/
42. deltate/
43. shallowly triangular/
44. narrowly obtriangular/
45. obtriangular/
46. broadly obtriangular/
47. obdeltate/
48. shallowly obtriangular/
49. linear/
50. subulate/
51. <other - specify>/
52. filiform/

#35. <compound leaves> <leaflet> margin/

1. entire/
2. crenate/
3. serrate/
4. dentate/
5. denticulate/
6. spiny toothed/

#36. <compound leaves> <leaflet margins> <whether ciliate>/

1. ciliate/
2. not ciliate/

#37. <544> <compound leaves> leaflet blade <ultimate length, mm>/  
mm long/

#38. <545> <compound leaves> leaflet blade <ultimate width, mm>/  
mm wide/

#39. <C> <546> flowers <overall inflorescence colour>/

1. green/
2. white/
3. cream/
4. yellow/
5. orange/
6. red/
7. pink/
8. purple/
9. violet/
10. blue/
11. brown/
12. black/
13. other/

#40. flowers <shape> <casual character>/

1. 3-petal/
2. 4-petal/
3. 5-petal/
4. 6-petal/
5. pea flower/
6. wattle/

- 7. eucalypt/
- 8. daisy/
- 9. dandelion-daisy/
- 10. clustered/
- 11. other/
- 12. spikelet/

- #41. <C> <175> flowers <arrangement>/
- 1. solitary/
  - 2. aggregated into inflorescences/

- #42. <C> <176> flowers in <inflorescence type>/
- 1. cymes/
  - 2. racemes/
  - 3. spikes/
  - 4. heads/
  - 5. umbels/
  - 6. corymbs/
  - 7. fascicles/
  - 8. panicles/
  - 9. verticils/
  - 10. glomerules/
  - 11. catkins/
  - 12. <other - specify>/

- #43. <plant sexuality>/
- 1. hermaphrodite <flowers bisexual, implicit>/
  - 2. monoecious <separate male and female flowers on same plant>/
  - 3. dioecious <plants with either all male or all female flowers>/
  - 4. other <specify>/

- #44. <186> <flowers> bracts <whether bracteate>/
- 1. present/ *<few > inconspicuous involucre bracts>*
  - 2. absent/ *<apparently>*

- #45. <188> <flowers> bracteoles <whether bracteolate>/
- 1. present/ *<floral bracts>*
  - 2. absent/

- #46. <207?> floral whorls <presence or absence of perianth>/
- 1. two distinct whorls <calyx and corolla>/
  - 2. intergrading calyx to corolla/
  - 3. one whorl only (calyx) -corolla absent/
  - 4. one whorl only (corolla) -calyx absent/
  - 5. one whorl of uncertain origin <floral whorl or perianth>/
  - 6. two whorls of uncertain origin <perianth in monocots>/
  - 7. vestigial <reduced to bracts, scales, bristles, hairs or lodicules>/
  - 8. absent/

- #47. <202> floral tube <presence>/
- 1. present/
  - 2. absent <implicit>/

- #48. <219> calyx *or outer perianth* <number of parts>/

- #49. <222> calyx *or outer perianth* <whether parts joined or free>/
- 1. free <or almost so> <polysepalous>/
  - 2. of joined and free segments <partially gamosepalous>/

3. joined <gamosepalous>/
- #50. calyx <sup>or outer perianth</sup> <length, mm>/  
mm long/
- #51. <236> corolla <sup>or inner perianth</sup> <number of parts>/ **3 or 5**  
segments/
- #52. <240> corolla <sup>or inner perianth</sup> <whether parts joined or free>/  
1. free <or almost so> <polysepalous>/  
2. of joined and free segments <partially gamosepalous>/  
3. joined <gamosepalous>/
- #53. <246?> corolla <sup>or inner perianth</sup> <where segments joined, shape>/  
1. rotate/  
2. 2-lipped/  
3. campanulate/  
4. tubular **and**  
5. urceolate/  
6. trumpet-like/  
7. spurred/  
8. ligulate/  
9. lobed
- #54. <255?> petals <sup>or inner perianth</sup> <or corolla lobes, whether incised>/  
1. deeply bifid/  
2. 2-lobed/  
3. fringed/  
4. entire/  
5. emarginate/  
6. several lobed/  
7. <other - specify>/
- #55. corolla <sup>or inner perianth</sup> <length, mm>/  
mm long/
- #56. <271> stamens <fertile, number>/ **5**
- #57. <269> staminodes <number>/ **0**
- #58. <265?> stamens <freedom>/  
1. free/  
2. fused **<around style>**  
3. some fused and some free/
- #59. stamens <insertion>/  
1. opposite sepals **or**  
2. opposite petals/  
3. in continuous whorl/  
4. <other - specify>/
- #60. <283?> anthers dehiscing <mechanism>/  
1. by pores/  
2. by vertical slits/  
3. by transverse slits/  
4. by valves/  
5. <other, specify>/



- #61. <316> ovary <gynoecium, constitution>/  
 1. monomerous <of a single carpel>/  
 2. apocarpous <of two or more free carpels>/  
 3. syncarpous <of two or more fused or partly fused carpels>/
- #62. <318> ovary <position>/  
 1. superior/  
 2. partly inferior/  
 3. inferior/
- #63. <326> ovary <locule number of syncarpous gynoecia (currently includes  
 carpel number of apocarpous gynoecia)>/  
 locular/ 1
- #64. <333?> styles <number>/ 1
- #65. <336?> styles <insertion>/  
 1. apical/  
 2. lateral/  
 3. gynobasic/
- #66. styles <whether simple or branched>/  
 1. simple/  
 2. branched/
- #67. styles <number of branches>/  
 branches/ 2
- #68. <?379, 381, 382> fruit <type>/  
 1. legume/  
 2. loment/  
 3. follicle/  
 4. achene/  
 5. samara/  
 6. nut/  
 7. drupe/  
 8. berry/  
 9. mericarps/  
 10. capsule/  
 11. silicule/  
 12. siliqua/  
 13. caryopsis/  
 14. <other, specify>/
- #69. <?378, 380> fruit <whether dehiscent>/  
 1. dehiscent/  
 2. indehiscent/
- #70. fruit <length, mm>/  
 mm long/
- #71. fruit <width, mm>/  
 mm wide/
- #72. <text> <complete description, added only at completion of flora>/
- #73. floral whorl or perianth <no. of parts>/

#74. floral whorl or perianth <whether free or joined>/

1. free/
2. joined/

#75. floral whorl or perianth <length, mm>/  
mm long/

#76. stamens <insertion when perianth fused>/

1. on perianth tube <below level of lobes or top of fused section>/
2. in perianth throat <above fused section>/
3. free from perianth/

\*SHOW: South West Flora Character List Revised 29 October 1993

*Graphosiphia tenuissima*

\*CHARACTER LIST

#1. <supra group>/

1. fern/
2. cycad/
3. conifer/
4. monocot/
5. dicot/

#2. <origin> <whether native to SW region>/

1. native/
2. naturalised/

#3. <Beard subdistrict> <Western Australian South-west Province, Darling District>/

1. Dale Division/
2. Drummond Division/
3. Menzies Division/
4. Warren Division/

#4. <National Parks> <voucher specimens available>/

1. Leeuwin-Naturaliste/
2. Scott River/
3. D'entrecasteaux/
4. Beedelup/
5. Warren/
6. Shannon/
7. Mt Frankland/
8. Walpole-Nornalup/
9. William Bay/
10. West Cape Howe/
11. Torndirrup/

#5. <National Parks> <voucher specimens not available>/

1. Leeuwin-Naturaliste/
2. Scott River/
3. D'entrecasteaux/
4. Beedelup/
5. Warren/
6. Shannon/
7. Mt Frankland/
8. Walpole-Nornalup/
9. William Bay/
10. West Cape Howe/
11. Torndirrup/

#6. flowers <flowering period>/

1. January/
2. February/
3. March/
4. April/
5. May/
6. June/
7. July/
8. August/
9. September/

- 10. October/
- 11. November/
- 12. December/

#7. <vegetation type>/

- 1. coastal heath/
- 2. swamp/ *o*
- 3. shrubland/
- 4. woodland/
- 5. karri forest/
- 6. jarrah forest/
- 7. other/
- 8. heath <not coastal>/
- 9. granite rocks/
- 10. riverine vegetation/
- 11. estuarine vegetation/

#8. <text> <date> compiled/ *1.10.97*

#9. <C> <5> <plant> <habit>/

- 1. tree/
- 2. tree-like/
- 3. shrub/
- 4. climber/
- 5. herb/
- 6. grass-like/
- 7. <other, specify>/
- 8. sedge or rush-like/

#10. <19> <plant> <longevity in herbs>/

- 1. annual/
- 2. biennial/
- 3. perennial/

#11. <C> <541> <plant> <height, m, including inflorescence>/  
m high/ *0.05 - 0.15*

#12. <29?> <plant> <whether aquatic or terrestrial>/

- 1. aquatic <hydrophytic>/
- 2. terrestrial <implicit>/

#13. <30> <hydrophytic habit>/

- 1. marine/
- 2. non-marine/

#14. <32> leaves <of rooted hydrophytes> <habit>/

- 1. submerged/
- 2. emergent/
- 3. floating/

#15. <C> <12> leaves <including phyllodes, presence>/

- 1. present <implicit>/
- 2. much reduced/
- 3. absent/

#16. leaves <whether fasciculate>/

- 1. fasciculate/
- 2. not fasciculate <implicit>/

#17. <36> leaves <insertion, score "scattered; crowded" as U, with comment>/

1. alternate/
2. opposite/
3. whorled/

#18. <37> leaves <phyllotaxy, when alternate>/

1. spiral/
2. distichous/
3. 4-ranked/
4. 3-ranked <tristichous>/

#19. leaves <opposite, whether decussate>/

1. decussate/
2. not decussate <implicit>/

#20. <64?> stipule <presence>/

1. present <well developed, leaves stipulate>/
2. absent <or much reduced, leaves exstipulate>/

#21. <42> leaves <whether petiolate>/

1. petiolate/
2. subsessile/
3. sessile/
4. perfoliate/

#22. <C> <542> leaves <total leaf length, mm>/  
mm long/ 2-12

#23. <C> <543> leaves <total leaf width, mm>/  
mm wide/ 0.5-4


#24. <C> <50> leaves <whether simple or compound>/

1. simple <implicit>/
2. compound/

#25. <56> <simple leaves> blade <dissection>/

1. dissected/
2. entire <apart from margin>/

#26. <simple leaves> <shape> <ref: Flora of the Perth Region>/

1. narrowly elliptic 
2. elliptic/
3. broadly elliptic/
4. circular elliptic/
5. transversely broadly elliptic/
6. transversely elliptic/
7. narrowly oblong/
8. oblong/
9. broadly oblong/
10. square/
11. transversely broadly oblong/
12. transversely oblong/
13. narrowly rhombic/
14. rhombic/
15. broadly rhombic/
16. quadrate/
17. transversely broadly rhombic/

18. transversely rhombic/
19. narrowly ovate/
20. ovate/
21. broadly ovate/
22. very broadly ovate/
23. depressed ovate/
24. narrowly obovate/ to
25. obovate/
26. broadly obovate/
27. very broadly obovate/
28. depressed obovate/
29. narrowly trullate/
30. trullate/
31. broadly trullate/
32. very broadly trullate/
33. depressed trullate/
34. narrowly obtrullate/
35. obtrullate/
36. broadly obtrullate/
37. very broadly obtrullate/
38. depressed obtrullate/
39. narrowly triangular/
40. triangular/
41. broadly triangular/
42. deltate/
43. shallowly triangular/
44. narrowly obtriangular/
45. obtriangular/
46. broadly obtriangular/
47. obdeltate/
48. shallowly obtriangular/
49. linear/
50. subulate/
51. <other - specify>/
52. filiform/

#27. <simple leaves> <whether twisted>/

1. twisted/
2. not twisted/

#28. <simple leaves> margins <whether ciliate>/

1. ciliate/
2. not ciliate/

#29. <39?> <leaves> blade <mature form>/

1. flat/
2. folded lengthwise/
3. concave/
4. convex/
5. involute/
6. revolute/
7. terete/
8. semi-terete/
9. 3-angled/
10. 4-angled/
11. compressed/

#30. <71?> <simple leaves> margins/

1. entire/
2. crenate/
3. serrate/
4. dentate/
5. denticulate/
6. spiny-toothed/

#31. <S42> <simple leaves> blade <length, mm>/  
mm long/ 2-12

#32. <S43> <simple leaves> blade <width, mm>/  
mm wide/ 0.5-4

- #33. <S3> leaves <compound form>/
1. unifoliate/
  2. ternate/
  3. pinnate/
  4. palmate/
  5. bipinnate/
  6. multipinnate <multiply compound>/
  7. <other -specify>/

#34. <compound leaves> <leaflet shape> <ref: Flora of the Perth Region>/

1. narrowly elliptic/
2. elliptic/
3. broadly elliptic/
4. circular elliptic/
5. transversely broadly elliptic/
6. transversely elliptic/
7. narrowly oblong/
8. oblong/
9. broadly oblong/
10. square/
11. transversely broadly oblong/
12. transversely oblong/
13. narrowly rhombic/
14. rhombic/
15. broadly rhombic/
16. quadrate/
17. transversely broadly rhombic/
18. transversely rhombic/
19. narrowly ovate/
20. ovate/
21. broadly ovate/
22. very broadly ovate/
23. depressed ovate/
24. narrowly obovate/
25. obovate/
26. broadly obovate/
27. very broadly obovate/
28. depressed obovate/
29. narrowly trullate/
30. trullate/
31. broadly trullate/
32. very broadly trullate/
33. depressed trullate/
34. narrowly obtrullate/
35. obtrullate/

36. broadly obtrullate/
37. very broadly obtrullate/
38. depressed obtrullate/
39. narrowly triangular/
40. triangular/
41. broadly triangular/
42. deltate/
43. shallowly triangular/
44. narrowly obtriangular/
45. obtriangular/
46. broadly obtriangular/
47. obdeltate/
48. shallowly obtriangular/
49. linear/
50. subulate/
51. <other - specify>/
52. filiform/

#35. <compound leaves> <leaflet> margin/

1. entire/
2. crenate/
3. serrate/
4. dentate/
5. denticulate/
6. spiny toothed/

#36. <compound leaves> <leaflet margins> <whether ciliate>/

1. ciliate/
2. not ciliate/

#37. <544> <compound leaves> leaflet blade <ultimate length, mm>/  
mm long/

#38. <545> <compound leaves> leaflet blade <ultimate width, mm>/  
mm wide/

#39. <C> <546> flowers <overall inflorescence colour>/

1. green/
2. white/
3. cream/
4. yellow/
5. orange/
6. red/
7. pink/
8. purple/
9. violet/
10. blue/
11. brown/
12. black/
13. other/

#40. flowers <shape> <casual character>/

1. 3-petal/
2. 4-petal/
3. 5-petal/
4. 6-petal/
5. pea flower/
6. wattle/



- 7. eucalypt/
- 8. daisy/
- 9. dandelion-daisy/
- 10. clustered/
- 11. other/
- 12. spikelet/

- #41. <C> <175> flowers <arrangement>/
- 1. solitary/
  - 2. aggregated <into inflorescences>/

- #42. <C> <176> flowers in <inflorescence type>/
- 1. cymes/
  - 2. racemes/
  - 3. spikes/
  - 4. heads/
  - 5. umbels/
  - 6. corymbs/
  - 7. fascicles/
  - 8. panicles/
  - 9. verticils/
  - 10. glomerules/
  - 11. catkins/
  - 12. <other - specify>/

- #43. <plant sexuality>/
- 1. hermaphrodite <flowers bisexual, implicit>/
  - 2. monoecious <separate male and female flowers on same plant>/
  - 3. dioecious <plants with either all male or all female flowers>/
  - 4. other <specify>/

- #44. <186> <flowers> bracts <whether bracteate>/
- 1. present/ <involucral bracts inconspicuous> few >
  - 2. absent/ <apparently>

- #45. <188> <flowers> bracteoles <whether bracteolate>/
- 1. present/ <floral bracts>
  - 2. absent/

- #46. <207?> floral whorls <presence or absence of perianth>/
- 1. two distinct whorls <calyx and corolla>/
  - 2. intergrading calyx to corolla/
  - 3. one whorl only (calyx) -corolla absent/
  - 4. one whorl only (corolla) -calyx absent/ <calyx reduced to pappus>
  - 5. one whorl of uncertain origin <floral whorl or perianth>/
  - 6. two whorls of uncertain origin <perianth in monocots>/
  - 7. vestigial <reduced to bracts, scales, bristles, hairs or lodicules>/
  - 8. absent/

- #47. <202> floral tube <presence>/
- 1. present/
  - 2. absent <implicit>/

- #48. <219> calyx <number of parts>/
- or outer perianth*

- #49. <222> calyx <whether parts joined or free>/
- 1. free <or almost so> <polysepalous>/
  - 2. of joined and free segments <partially gamosepalous>/

3. joined <gamosepalous>/
- #50. calyx <length, mm>/  
mm long/
- #51. <236> corolla <number of parts>/  
segments/ <sup>or inner perianth</sup> 5
- #52. <240> corolla <whether parts joined or free>/  
1. free <or almost so> <polysepalous>/  
2. of joined and free segments <partially gamosepalous>/  
3. joined <gamosepalous>/
- #53. <246?> corolla <where segments joined, shape>/  
1. rotate/  
2. 2-lipped/  
3. campanulate/  
4. tubular and  
5. urceolate/  
6. trumpet-like/  
7. spurred/  
8. ligulate/  
9. lobed
- #54. <255?> petals <or corolla lobes, whether incised>/  
1. deeply bifid/  
2. 2-lobed/  
3. fringed/  
4. entire/  
5. emarginate/  
6. several lobed/  
7. <other - specify>/
- #55. corolla <length, mm>/  
mm long/ <sup>or inner perianth</sup>
- #56. <271> stamens <fertile, number>/ 5
- #57. <269> staminodes <number>/ 0
- #58. <265?> stamens <freedom>/  
1. free/  
2. fused <sup>around style</sup>  
3. some fused and some free/
- #59. stamens <insertion>/  
1. opposite sepals <sup>or</sup>  
2. opposite petals/  
3. in continuous whorl  
4. <other - specify>/
- #60. <283?> anthers dehiscing <mechanism>/  
1. by pores/  
2. by vertical slits/  
3. by transverse slits/  
4. by valves/  
5. <other, specify>/

- #61. <316> ovary <gynoecium, constitution>/  
 1. monomerous <of a single carpel>/  
 2. apocarpous <of two or more free carpels>/  
 3. syncarpous <of two or more fused or partly fused carpels>/
- #62. <318> ovary <position>/  
 1. superior/  
 2. partly inferior/  
 3. inferior/
- #63. <326> ovary <locule number of syncarpous gynoecia (currently includes  
 carpel number of apocarpous gynoecia)>/  
 locular/ 1
- #64. <333?> styles <number>/ 1
- #65. <336?> styles <insertion>/  
 1. apical/  
 2. lateral/  
 3. gynobasic/
- #66. styles <whether simple or branched>/  
 1. simple/  
 2. branched/
- #67. styles <number of branches>/  
 branches/ 2
- #68. <?379, 381, 382> fruit <type>/  
 1. legume/  
 2. loment/  
 3. follicle/  
 4. achene/  
 5. samara/  
 6. nut/  
 7. drupe/  
 8. berry/  
 9. mericarps/  
 10. capsule/  
 11. silicule/  
 12. siliqua/  
 13. caryopsis/  
 14. <other, specify>/
- #69. <?378, 380> fruit <whether dehiscent>/  
 1. dehiscent/  
 2. indehiscent/
- #70. fruit <length, mm>/  
 mm long/
- #71. fruit <width, mm>/  
 mm wide/
- #72. <text> <complete description, added only at completion of flora>/
- #73. floral whorl or perianth <no. of parts>/

#74. floral whorl or perianth <whether free or joined>/  
1. free/  
2. joined/

#75. floral whorl or perianth <length, mm>/  
mm long/

#76. stamens <insertion when perianth fused>/  
1. on perianth tube <below level of lobes or top of fused section>/  
2. in perianth throat <above fused section>/  
3. free from perianth/

\*SHOW: South West Flora Character List Revised 29 October 1993

\**Gamochaeta*  
*falcata*

\*CHARACTER LIST

- #1. <supra group>/
1. fern/
  2. cycad/
  3. conifer/
  4. monocot/
  5. dicot/
- #2. <origin> <whether native to SW region>/
1. native/
  2. naturalised/
- #3. <Beard subdistrict> <Western Australian South-west Province, Darling District>/
1. Dale Division/
  2. Drummond Division/
  3. Menzies Division/
  4. Warren Division/
- #4. <National Parks> <voucher specimens available>/
1. Leeuwin-Naturaliste/
  2. Scott River/
  3. D'entrecasteaux/
  4. Beedelup/
  5. Warren/
  6. Shannon/
  7. Mt Frankland/
  8. Walpole-Nornalup/
  9. William Bay/
  10. West Cape Howe/
  11. Torndirrup/
- #5. <National Parks> <voucher specimens not available>/
1. Leeuwin-Naturaliste/
  2. Scott River/
  3. D'entrecasteaux/
  4. Beedelup/
  5. Warren/
  6. Shannon/
  7. Mt Frankland/
  8. Walpole-Nornalup/
  9. William Bay/
  10. West Cape Howe/
  11. Torndirrup/
- #6. flowers <flowering period>/
1. January/
  2. February/
  3. March/
  4. April/
  5. May/
  6. June/
  7. July/
  8. August/
  9. September/

- 10. October/
- 11. November/
- 12. December/

#7. <vegetation type>/

- 1. coastal heath/
- 2. swamp/
- 3. shrubland/
- 4. woodland/
- 5. karri forest/
- 6. jarrah forest/
- 7. other/
- 8. heath <not coastal>/
- 9. granite rocks/
- 10. riverine vegetation/
- 11. estuarine vegetation/

#8. <text> <date> compiled/

1.10.97

#9. <C> <S> <plant> <habit>/

- 1. tree/
- 2. tree-like/
- 3. shrub/
- 4. climber/
- 5. herb/
- 6. grass-like/
- 7. <other, specify>/
- 8. sedge or rush-like/

#10. <19> <plant> <longevity in herbs>/

- 1. annual/
- 2. biennial/
- 3. pe rennial/

#11. <C> <541> <plant> <height, m, including inflorescence>/  
m high/

0.1-0.3

#12. <29?> <plant> <whether aquatic or terrestrial>/

- 1. aquatic <hydrophytic>/
- 2. terrestrial <implicit>/

#13. <30> <hydrophytic habit>/

- 1. marine/
- 2. non-marine/

#14. <32> leaves <of rooted hydrophytes> <habit>/

- 1. submerged/
- 2. emergent/
- 3. floating/

#15. <C> <12> leaves <including phyllodes, presence>/

- 1. present <implicit>/
- 2. much reduced/
- 3. absent/

#16. leaves <whether fasciculate>/

- 1. fasciculate/
- 2. not fasciculate <implicit>/

- #17. <36> leaves <insertion, score "scattered; crowded" as U, with comment>/  
 1. alternate/ *(sometimes clustered basally into rosette)*  
 2. opposite/  
 3. whorled/
- #18. <37> leaves <phyllotaxy, when alternate>/  
 1. spiral/  
 2. distichous/  
 3. 4-ranked/  
 4. 3-ranked <tristichous>/
- #19. leaves <opposite, whether decussate>/  
 1. decussate/  
 2. not decussate <implicit>/
- #20. <64?> stipule <presence>/  
 1. present <well developed, leaves stipulate>/  
 2. absent or much reduced, leaves exstipulate>/
- #21. <42> leaves <whether petiolate>/  
 1. petiolate/ *indistinctly to*  
 2. subsessile/  
 3. sessile/  
 4. perfoliate/
- #22. <C> <542> leaves <total leaf length, mm>/  
 mm long/ *10-50*
- #23. <C> <543> leaves <total leaf width, mm>/  
 mm wide/ *3-12*
- #24. <C> <50> leaves <whether simple or compound>/  
 1. simple <implicit>/  
 2. compound/
- #25. <56> <simple leaves> blade <dissection>/  
 1. dissected/  
 2. entire <apart from margin>/
- #26. <simple leaves> <shape> <ref: Flora of the Perth Region>/  
 1. narrowly elliptic/  
 2. elliptic/  
 3. broadly elliptic/  
 4. circular elliptic/  
 5. transversely broadly elliptic/  
 6. transversely elliptic/  
 7. narrowly oblong/  
 8. oblong/  
 9. broadly oblong/  
 10. square/  
 11. transversely broadly oblong/  
 12. transversely oblong/  
 13. narrowly rhombic/  
 14. rhombic/  
 15. broadly rhombic/  
 16. quadrate/  
 17. transversely broadly rhombic/

18. transversely rhombic/
19. narrowly ovate/
20. ovate/
21. broadly ovate/
22. very broadly ovate/
23. depressed ovate/
24. narrowly obovate/
25. obovate/
26. broadly obovate/
27. very broadly obovate/
28. depressed obovate/
29. narrowly trullate/
30. trullate/
31. broadly trullate/
32. very broadly trullate/
33. depressed trullate/
34. narrowly obtrullate/
35. obtrullate/
36. broadly obtrullate/
37. very broadly obtrullate/
38. depressed obtrullate/
39. narrowly triangular/
40. triangular/
41. broadly triangular/
42. deltate/
43. shallowly triangular/
44. narrowly obtriangular/
45. obtriangular/
46. broadly obtriangular/
47. obdeltate/
48. shallowly obtriangular/
49. linear/
50. subulate/
51. <other - specify>/
52. filiform/

#27. <simple leaves> <whether twisted>/

1. twisted/
2. not twisted/

#28. <simple leaves> margins <whether ciliate>/

1. ciliate/
2. not ciliate/

#29. <39?> <leaves> blade <mature form>/

1. flat/
2. folded lengthwise/
3. concave/
4. convex/
5. involute/
6. revolute/
7. terete/
8. semi-terete/
9. 3-angled/
10. 4-angled/
11. compressed/

#30. <71?> <simple leaves> margins/



1. entire/
2. crenate/
3. serrate/
4. dentate/
5. denticulate/
6. spiny-toothed/

#31. <542> <simple leaves> blade <length, mm>/  
mm long/ 10-50

#32. <543> <simple leaves> blade <width, mm>/  
mm wide/ 3-12

- #33. <53> leaves <compound form>/
1. unifoliolate/
  2. ternate/
  3. pinnate/
  4. palmate/
  5. bipinnate/
  6. multipinnate <multiply compound>/
  7. <other -specify>/

#34. <compound leaves> <leaflet shape> <ref: Flora of the Perth Region>/

1. narrowly elliptic/
2. elliptic/
3. broadly elliptic/
4. circular elliptic/
5. transversely broadly elliptic/
6. transversely elliptic/
7. narrowly oblong/
8. oblong/
9. broadly oblong/
10. square/
11. transversely broadly oblong/
12. transversely oblong/
13. narrowly rhombic/
14. rhombic/
15. broadly rhombic/
16. quadrate/
17. transversely broadly rhombic/
18. transversely rhombic/
19. narrowly ovate/
20. ovate/
21. broadly ovate/
22. very broadly ovate/
23. depressed ovate/
24. narrowly obovate/
25. obovate/
26. broadly obovate/
27. very broadly obovate/
28. depressed obovate/
29. narrowly trullate/
30. trullate/
31. broadly trullate/
32. very broadly trullate/
33. depressed trullate/
34. narrowly obtullate/
35. obtullate/

36. broadly obtrullate/
37. very broadly obtrullate/
38. depressed obtrullate/
39. narrowly triangular/
40. triangular/
41. broadly triangular/
42. deltate/
43. shallowly triangular/
44. narrowly obtriangular/
45. obtriangular/
46. broadly obtriangular/
47. obdeltate/
48. shallowly obtriangular/
49. linear/
50. subulate/
51. <other - specify>/
52. filiform/

#35. <compound leaves> <leaflet> margin/

1. entire/
2. crenate/
3. serrate/
4. dentate/
5. denticulate/
6. spiny toothed/

#36. <compound leaves> <leaflet margins> <whether ciliate>/

1. ciliate/
2. not ciliate/

#37. <544> <compound leaves> leaflet blade <ultimate length, mm>/  
mm long/

#38. <545> <compound leaves> leaflet blade <ultimate width, mm>/  
mm wide/

#39. <C> <546> flowers <overall inflorescence colour>/

1. green/
2. white/
3. cream/
4. yellow/
5. orange/
6. red/
7. pink/
8. purple/
9. violet/
10. blue/
11. brown/
12. black/
13. other/

*(tagged with brown or pink)*

#40. flowers <shape> <casual character>/

1. 3-petal/
2. 4-petal/
3. 5-petal/
4. 6-petal/
5. pea flower/
6. wattle/

- 7. eucalypt/
- 8. daisy/
- 9. dandelion-daisy/
- 10. clustered/
- 11. other/
- 12. spikelet/

- #41. <C> <175> flowers <arrangement>/
- 1. solitary/
  - 2. aggregated <into inflorescences>/

- #42. <C> <176> flowers in <inflorescence type>/
- 1. cymes/
  - 2. racemes/
  - 3. spikes/
  - 4. heads/
  - 5. umbels/
  - 6. corymbs/
  - 7. fascicles/
  - 8. panicles/
  - 9. verticils/
  - 10. glomerules/
  - 11. catkins/
  - 12. <other - specify>/

- #43. <plant sexuality>/
- 1. hermaphrodite <flowers bisexual, implicit> *(inner florets, few)*
  - 2. monoecious <separate male and female flowers on same plant>/
  - 3. dioecious <plants with either all male or all female flowers>/
  - 4. other <specify> *(outer florets female, numerous)*

- #44. <186> <flowers> bracts <whether bracteate>/
- 1. present/
  - 2. absent/

- #45. <188> <flowers> bracteoles <whether bracteolate>/
- 1. present/
  - 2. absent/

- #46. <207?> floral whorls <presence or absence of perianth>/
- 1. two distinct whorls <calyx and corolla>/ *or*
  - 2. intergrading calyx to corolla/
  - 3. one whorl only (calyx) -corolla absent/
  - 4. one whorl only (corolla) -calyx absent/ *(calyx reduced to pappus)*
  - 5. one whorl of uncertain origin <floral whorl or perianth>/
  - 6. two whorls of uncertain origin <perianth in monocots>/
  - 7. vestigial <reduced to bracts, scales, bristles, hairs or lodicules>/
  - 8. absent/

- #47. <202> floral tube <presence>/
- 1. present/
  - 2. absent <implicit>/

- #48. <219> calyx *or outer perianth* <number of parts>/

- #49. <222> calyx *or outer perianth* <whether parts joined or free>/
- 1. free <or almost so> <polysepalous>/
  - 2. of joined and free segments <partially gamosepalous>/

3. joined <gamosepalous>/
- #50. calyx <sup>or outer perianth</sup> <length, mm>/  
mm long/
- #51. <236> corolla <sup>or inner perianth</sup> <number of parts>/  
segments/ 5
- #52. <240> corolla <sup>or inner perianth</sup> <whether parts joined or free>/  
1. free <or almost so> <polysepalous>/  
2. of joined and free segments <partially gamosepalous>/  
3. joined <gamosepalous>/
- #53. <246?> corolla <sup>or inner perianth</sup> <where segments joined, shape>/  
1. rotate/  
2. 2-lipped/  
3. campanulate/  
4. tubular/  
5. urceolate/  
6. trumpet-like/  
7. spurred/  
8. ligulate/  
9. lobed/
- #54. <255?> petals <sup>or inner perianth</sup> <or corolla lobes, whether incised>/  
1. deeply bifid/  
2. 2-lobed/  
3. fringed/  
4. entire/  
5. emarginate/  
6. several lobed/  
7. <other - specify>/
- #55. corolla <sup>or inner perianth</sup> <length, mm>/  
mm long/
- #56. <271> stamens <fertile, number>/ 5
- #57. <269> staminodes <number>/ 0
- #58. <265?> stamens <freedom>/  
1. free/  
2. fused/ (in tube around style)  
3. some fused and some free/
- #59. stamens <insertion>/  
1. opposite sepals/ or  
2. opposite petals/  
3. in continuous whorl/  
4. <other - specify>/
- #60. <283?> anthers dehiscing <mechanism>/  
1. by pores/  
2. by vertical slits/  
3. by transverse slits/  
4. by valves/  
5. <other, specify>/

- #61. <316> ovary <gynoecium, constitution>/
1. monomerous <of a single carpel>/
  2. apocarpous <of two or more free carpels>/
  3. syncarpous <of two or more fused or partly fused carpels>/
- #62. <318> ovary <position>/
1. superior/
  2. partly inferior/
  3. inferior/
- #63. <326> ovary <locule number of syncarpous gynoecia (currently includes carpel number of apocarpous gynoecia)>/
- locular/ 1
- #64. <333?> styles <number>/ 1
- #65. <336?> styles <insertion>/
1. apical/
  2. lateral/
  3. gynobasic/
- #66. styles <whether simple or branched>/
1. simple/
  2. branched/
- #67. styles <number of branches>/
- branches/ 2
- #68. <?379, 381, 382> fruit <type>/
1. legume/
  2. loment/
  3. follicle/
  4. achene/
  5. samara/
  6. nut/
  7. drupe/
  8. berry/
  9. mericarps/
  10. capsule/
  11. silicule/
  12. siliqua/
  13. caryopsis/
  14. <other, specify>/
- #69. <?378, 380> fruit <whether dehiscent>/
1. dehiscent/
  2. indehiscent/
- #70. fruit <length, mm>/
- mm long/ ca 0.5
- #71. fruit <width, mm>/
- mm wide/
- #72. <text> <complete description, added only at completion of flora>/
- #73. floral whorl or perianth <no. of parts>/

#74. floral whorl or perianth <whether free or joined>/  
1. free/  
2. joined/

#75. floral whorl or perianth <length, mm>/  
mm long/

#76. stamens <insertion when perianth fused>/  
1. on perianth tube <below level of lobes or top of fused section>/  
2. in perianth throat <above fused section>/  
3. free from perianth/

\*SHOW: South West Flora Character List Revised 29 October 1993

\*Chrysanthemoides  
monilifera

\*CHARACTER LIST

#1. <supra group>/

- 1. fern/
- 2. cycad/
- 3. conifer/
- 4. monocot/
- 5. dicot/

#2. <origin> <whether native to SW region>/

- 1. native/
- 2. naturalised/

#3. <Beard subdistrict> <Western Australian South-west Province, Darling District>/

- 1. Dale Division/
- 2. Drummond Division/
- 3. Menzies Division/
- 4. Warren Division/

#4. <National Parks> <voucher specimens available>/

- 1. Leeuwin-Naturaliste/
- 2. Scott River/
- 3. D'entrecasteaux/
- 4. Beedelup/
- 5. Warren/
- 6. Shannon/
- 7. Mt Frankland/
- 8. Walpole-Nornalup/
- 9. William Bay/
- 10. West Cape Howe/
- 11. Torndirrup/

#5. <National Parks> <voucher specimens not available>/

- 1. Leeuwin-Naturaliste/
- 2. Scott River/
- 3. D'entrecasteaux/
- 4. Beedelup/
- 5. Warren/
- 6. Shannon/
- 7. Mt Frankland/
- 8. Walpole-Nornalup/
- 9. William Bay/
- 10. West Cape Howe/
- 11. Torndirrup/

#6. flowers <flowering period>/

- 1. January/
- 2. February/
- 3. March/
- 4. April/
- 5. May/
- 6. June/
- 7. July/
- 8. August/
- 9. September/

10. October/
11. November/
12. December/

## #7. &lt;vegetation type&gt;/

1. coastal heath/
2. swamp/
3. shrubland/
4. woodland/
5. karri forest/
6. jarrah forest/
7. other/
8. heath <not coastal>/
9. granite rocks/
10. riverine vegetation/
11. estuarine vegetation/

*(disturbed road verges → woodland)*

## #8. &lt;text&gt; &lt;date&gt; compiled/ 25.7.97

## #9. &lt;C&gt; &lt;S&gt; &lt;plant&gt; &lt;habit&gt;/

1. tree/
2. tree-like/
3. shrub/
4. climber/
5. herb/
6. grass-like/
7. <other, specify>/
8. sedge or rush-like/

## #10. &lt;19&gt; &lt;plant&gt; &lt;longevity in herbs&gt;/

1. annual/
2. biennial/
3. perennial/

#11. <C> <S41> <plant> <height, m, including inflorescence>/  
m high/ 0.5 - 3

## #12. &lt;29?&gt; &lt;plant&gt; &lt;whether aquatic or terrestrial&gt;/

1. aquatic <hydrophytic>/
2. terrestrial <implicit>/

## #13. &lt;30&gt; &lt;hydrophytic habit&gt;/

1. marine/
2. non-marine/

## #14. &lt;32&gt; leaves &lt;of rooted hydrophytes&gt; &lt;habit&gt;/

1. submerged/
2. emergent/
3. floating/

## #15. &lt;C&gt; &lt;12&gt; leaves &lt;including phyllodes, presence&gt;/

1. present <implicit>/
2. much reduced/
3. absent/

## #16. leaves &lt;whether fasciculate&gt;/

1. fasciculate/
2. not fasciculate <implicit>/



#17. <36> leaves <insertion, score "scattered; crowded" as U, with comment>/

1. alternate/
2. opposite/
3. whorled/

#18. <37> leaves <phyllotaxy, when alternate>/

1. spiral/
2. distichous/
3. 4-ranked/
4. 3-ranked <tristichous>/

#19. leaves <opposite, whether decussate>/

1. decussate/
2. not decussate <implicit>/

#20. <64?> stipule <presence>/

1. present <well developed, leaves stipulate>/
2. absent <or much reduced, leaves exstipulate>/

#21. <42> leaves <whether petiolate>/

1. petiolate / *<indistinct>*
2. subsessile/
3. sessile/
4. perfoliate/

#22. <542> leaves <total leaf length, mm>/  
mm long/ *30 - 80*

#23. <543> leaves <total leaf width, mm>/  
mm wide/ *10 - 30*

#24. <50> leaves <whether simple or compound>/

1. simple <implicit>/
2. compound/

#25. <56> <simple leaves> blade <dissection>/

1. dissected/
2. entire <apart from margin>/

#26. <simple leaves> <shape> <ref: Flora of the Perth Region>/

1. narrowly elliptic/
2. elliptic / *or*
3. broadly elliptic/
4. circular elliptic/
5. transversely broadly elliptic/
6. transversely elliptic/
7. narrowly oblong/
8. oblong/
9. broadly oblong/
10. square/
11. transversely broadly oblong/
12. transversely oblong/
13. narrowly rhombic/
14. rhombic/
15. broadly rhombic/
16. quadrata/
17. transversely broadly rhombic/

18. transversely rhombic/
19. narrowly ovate/
20. ovate/
21. broadly ovate/
22. very broadly ovate/
23. depressed ovate/
24. narrowly obovate/ to
25. obovate/
26. broadly obovate/
27. very broadly obovate/
28. depressed obovate/
29. narrowly trullate/
30. trullate/
31. broadly trullate/
32. very broadly trullate/
33. depressed trullate/
34. narrowly obtrullate/
35. obtrullate/
36. broadly obtrullate/
37. very broadly obtrullate/
38. depressed obtrullate/
39. narrowly triangular/
40. triangular/
41. broadly triangular/
42. deltate/
43. shallowly triangular/
44. narrowly obtriangular/
45. obtriangular/
46. broadly obtriangular/
47. obdeltate/
48. shallowly obtriangular/
49. linear/
50. subulate/
51. <other - specify>/
52. filiform/

#27. <simple leaves> <whether twisted>/

1. twisted/
2. not twisted/

#28. <simple leaves> margins <whether ciliate>/

1. ciliate/
2. not ciliate/

#29. <39?> <leaves> blade <mature form>/

1. flat/
2. folded lengthwise/
3. concave/
4. convex/
5. involute/
6. revolute/
7. terete/
8. semi-terete/
9. 3-angled/
10. 4-angled/
11. compressed/

#30. <71?> <simple leaves> margins/

1. entire/
2. crenate/
3. serrate/
4. dentate/
5. denticulate/
6. spiny-toothed/

#31. <542> <simple leaves> blade <length, mm>/  
mm long/ 20-60

#32. <543> <simple leaves> blade <width, mm>/  
mm wide/ 10-30

#33. <53> leaves <compound form>/

1. unifoliolate/
2. ternate/
3. pinnate/
4. palmate/
5. bipinnate/
6. multipinnate <multiply compound>/
7. <other -specify>/

#34. <compound leaves> <leaflet shape> <ref: Flora of the Perth Region>/

1. narrowly elliptic/
2. elliptic/
3. broadly elliptic/
4. circular elliptic/
5. transversely broadly elliptic/
6. transversely elliptic/
7. narrowly oblong/
8. oblong/
9. broadly oblong/
10. square/
11. transversely broadly oblong/
12. transversely oblong/
13. narrowly rhombic/
14. rhombic/
15. broadly rhombic/
16. quadrate/
17. transversely broadly rhombic/
18. transversely rhombic/
19. narrowly ovate/
20. ovate/
21. broadly ovate/
22. very broadly ovate/
23. depressed ovate/
24. narrowly obovate/
25. obovate/
26. broadly obovate/
27. very broadly obovate/
28. depressed obovate/
29. narrowly trullate/
30. trullate/
31. broadly trullate/
32. very broadly trullate/
33. depressed trullate/
34. narrowly obtullate/
35. obtullate/

- 36. broadly obtrullate/
  - 37. very broadly obtrullate/
  - 38. depressed obtrullate/
  - 39. narrowly triangular/
  - 40. triangular/
  - 41. broadly triangular/
  - 42. deltate/
  - 43. shallowly triangular/
  - 44. narrowly obtriangular/
  - 45. obtriangular/
  - 46. broadly obtriangular/
  - 47. obdeltate/
  - 48. shallowly obtriangular/
  - 49. linear/
  - 50. subulate/
  - 51. <other - specify>/
  - 52. filiform/
- #35. <compound leaves> <leaflet> margin/
- 1. entire/
  - 2. crenate/
  - 3. serrate/
  - 4. dentate/
  - 5. denticulate/
  - 6. spiny toothed/
- #36. <compound leaves> <leaflet margins> <whether ciliate>/
- 1. ciliate/
  - 2. not ciliate/
- #37. <S44> <compound leaves> leaflet blade <ultimate length, mm>/  
mm long/
- #38. <S45> <compound leaves> leaflet blade <ultimate width, mm>/  
mm wide/
- #39. <C> <S46> flowers <overall inflorescence colour>/
- 1. green/
  - 2. white/
  - 3. cream/
  - 4. yellow/
  - 5. orange/
  - 6. red/
  - 7. pink/
  - 8. purple/
  - 9. violet/
  - 10. blue/
  - 11. brown/
  - 12. black/
  - 13. other/
- #40. flowers <shape> <casual character>/
- 1. 3-petal/
  - 2. 4-petal/
  - 3. 5-petal/
  - 4. 6-petal/
  - 5. pea flower/
  - 6. wattle/

7. eucalypt/  
 8. daisy/  
 9. dandelion-daisy/  
 10. clustered/  
 11. other/  
 12. spikelet/
- #41. <C> <175> flowers <arrangement>/  
 1. solitary/  
 2. aggregated <into inflorescences>/
- #42. <C> <176> flowers in <inflorescence type>/  
 1. cymes/  
 2. racemes/  
 3. spikes/  
 4. heads/  
 5. umbels/  
 6. corymbs/  
 7. fascicles/  
 8. panicles/  
 9. verticils/  
 10. glomerules/  
 11. catkins/  
 12. <other - specify>/
- #43. <plant sexuality>/  
 1. hermaphrodite <flowers bisexual, implicit> / <disc florets but often sterile>  
 2. monoecious <separate male and female flowers on same plant>/  
 3. dioecious <plants with either all male or all female flowers>/  
 4. other <specify> / <ray florets female>
- #44. <186> <flowers> bracts <whether bracteate>/  
 1. present / <involucre>  
 2. absent/
- #45. <188> <flowers> bracteoles <whether bracteolate>/  
 1. present/  
 2. absent/
- #46. <207?> floral whorls <presence or absence of perianth>/  
 1. two distinct whorls <calyx and corolla>/  
 2. intergrading calyx to corolla/  
 3. one whorl only (calyx) - corolla absent/  
 4. one whorl only (corolla) - calyx absent/  
 5. one whorl of uncertain origin <floral whorl or perianth>/  
 6. two whorls of uncertain origin <perianth in monocots>/  
 7. vestigial <reduced to bracts, scales, bristles, hairs or lodicules>/  
 8. absent/
- #47. <202> floral tube <presence>/  
 1. present/  
 2. absent <implicit>/
- #48. <219> calyx / <number of parts> /  
 or outer perianth
- #49. <222> calyx / <whether parts joined or free> /  
 1. free <or almost so> <polysepalous>/  
 2. of joined and free segments <partially gamosepalous>/

3. joined <gamosepalous>/
- #50. calyx <sup>or outer perianth</sup> <length, mm>/  
mm long/
- #51. <236> corolla <sup>or inner perianth</sup> <number of parts>/  
segments/
- #52. <240> corolla <sup>or inner perianth</sup> <whether parts joined or free>/  
1. free <or almost so> <polysepalous>/  
2. of joined and free segments <partially gamosepalous>/  
3. joined <gamosepalous>/
- #53. <246?> corolla <sup>or inner perianth</sup> <where segments joined, shape>/  
1. rotate/  
2. 2-lipped/  
3. campanulate/  
4. tubular <disc florets>  
5. urceolate/  
6. trumpet-like/  
7. spurred/  
8. ligulate <ray florets>  
9. lobed/
- #54. <255?> petals <sup>or inner perianth</sup> <or corolla lobes, whether incised>/  
1. deeply bifid/  
2. 2-lobed/  
3. fringed/  
4. entire/  
5. emarginate/  
6. several lobed/  
7. <other - specify>/
- #55. corolla <sup>or inner perianth</sup> <length, mm>/  
mm long/
- #56. <271> stamens <fertile, number>/ 5
- #57. <269> staminodes <number>/ 0
- #58. <265?> stamens <freedom>/  
1. free/  
2. fused <tube around style>  
3. some fused and some free/
- #59. stamens <insertion>/  
1. opposite sepals/  
2. opposite petals/  
3. in continuous whorl/  
4. <other - specify>/
- #60. <283?> anthers dehiscing <mechanism>/  
1. by pores/  
2. by vertical slits/  
3. by transverse slits/  
4. by valves/  
5. <other, specify>/

- #61. <316> ovary <gynoecium, constitution>/  
 1. monomerous <of a single carpel>/  
 2. apocarpous <of two or more free carpels>/  
 3. syncarpous <of two or more fused or partly fused carpels>/
- #62. <318> ovary <position>/  
 1. superior/  
 2. partly inferior/  
 3. inferior/
- #63. <326> ovary <locule number of syncarpous gynoecia (currently includes  
 carpel number of apocarpous gynoecia)>/  
 locular/ 1
- #64. <333?> styles <number>/ 1
- #65. <336?> styles <insertion>/  
 1. apical/  
 2. lateral/  
 3. gynobasic/
- #66. styles <whether simple or branched>/  
 1. simple/  
 2. branched/
- #67. styles <number of branches>/  
 branches/ 2
- #68. <?379, 381, 382> fruit <type>/  
 1. legume/  
 2. loment/  
 3. follicle/  
 4. achene/  
 5. samara/  
 6. nut/  
 7. drupe (<drupelike achene>)  
 8. berry/  
 9. mericarps/  
 10. capsule/  
 11. silicule/  
 12. siliqua/  
 13. caryopsis/  
 14. <other, specify>/
- #69. <?378, 380> fruit <whether dehiscent>/  
 1. dehiscent/  
 2. indehiscent/
- #70. fruit <length, mm>/  
 mm long/ 5-7
- #71. fruit <width, mm>/  
 mm wide/ 5-7
- #72. <text> <complete description, added only at completion of flora>/
- #73. floral whorl or perianth <no. of parts>/

#74. floral whorl or perianth <whether free or joined>/

1. free/
2. joined/

#75. floral whorl or perianth <length, mm>/

mm long/

#76. stamens <insertion when perianth fused>/

1. on perianth tube <below level of lobes or top of fused section>/
2. in perianth throat <above fused section>/
3. free from perianth/