

\*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  
11. Estuarine

#8. <text> <date> compiled/

29.11.94

#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/

0-0.8

#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/ 13-45

#23. <C> <543> leaves <total leaf width, mm>/  
mm wide/ 2-7.5

#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/ b
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/

13-45

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

2-7.5

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

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

#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/ *(globose)*
  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/
  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>/ *(apparently)*
  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>/ *5*
- #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 / *or outer perianth* <length, mm>/ *2.5-5*  
mm long/
- #51. <236> corolla / *or inner perianth* <number of parts>/ *0*

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>/ 37
- #57. <269> staminodes <number>/ 2
- #58. <265?> stamens <freedom>/  
1. free/  
2. fused/  
3. some fused and some free/
- #59. stamens <insertion>/  
1. opposite sepals/  
2. opposite petals/  
3. in continuous whorl/  
4. on corolla tube/  
5. in corolla throat/  
6. free from corolla/
- #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>/  
locular/

#64. <333?> styles <number>/ |

#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/

#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>/ *utricula !!*

#69. <?378, 380> fruit <whether dehiscent>/

1. dehiscent/
2. indehiscent/

#70. fruit <length, mm>/  
mm long/ *1.5*

#71. fruit <width, mm>/  
mm wide/ *1.5*

#72. <text> <complete description, added only at completion of flora>/

*Floral whorl or*

#73. [ perianth <no of parts>

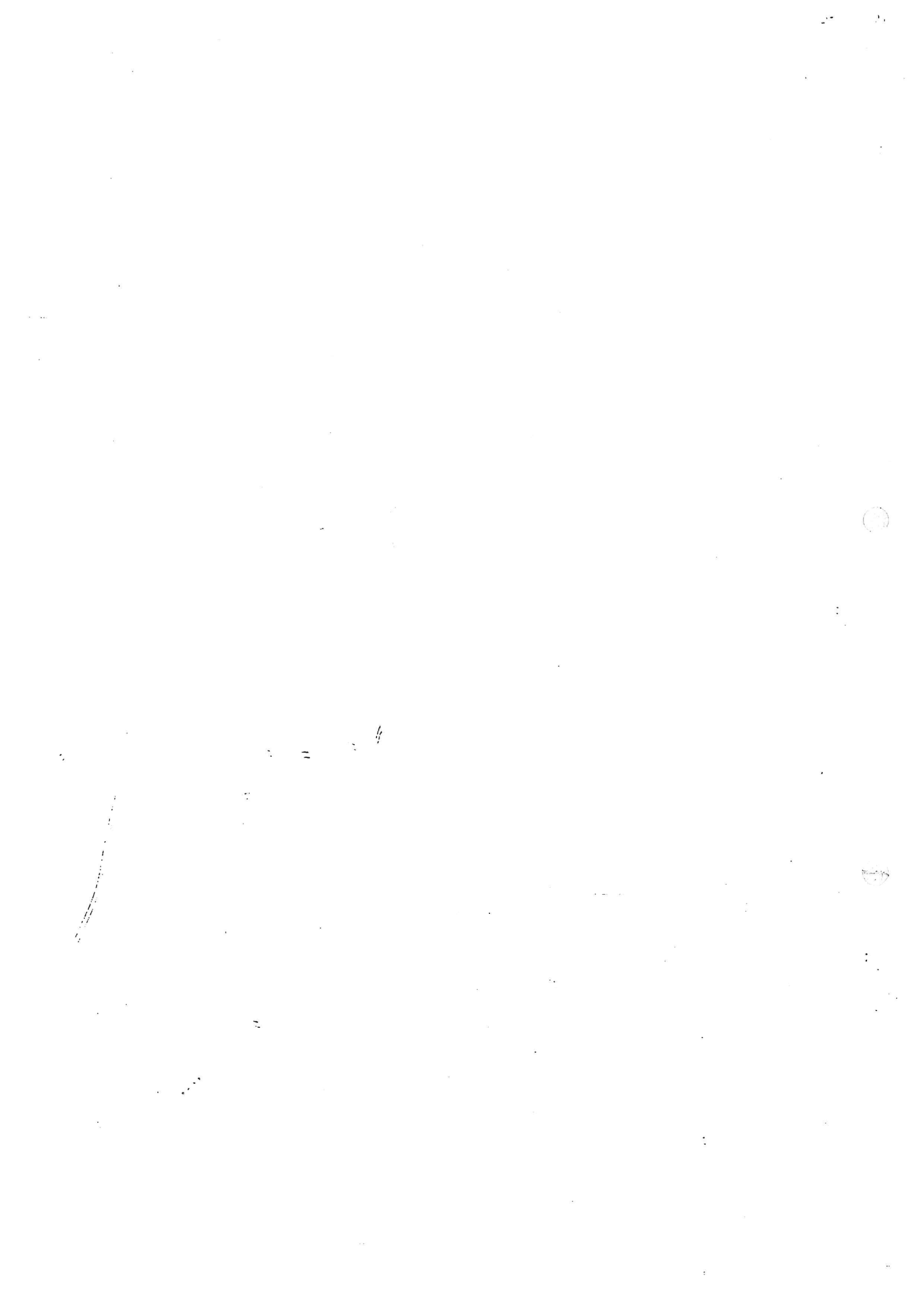
*Floral whorl or*

#74. [ Perianth <joined or free>

1. Free
2. Joined

*Floral whorl or*

#75. [ Perianth <length, mm>



\*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  
11. Estuarine

<disturbed areas>

#8. <text> <date> compiled/

#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/

0.2-2

#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/ 40 - 200.

#23. <C> <543> leaves <total leaf width, mm>/

mm wide/ 10 - 45 (80)

#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/ or
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/ lo
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/ 20-150

#32. <543> <simple leaves> blade <width, mm>/  
mm wide/ 10-45 (80)

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

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

#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/
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>/ *Apparently*
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*  
*5*

#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/

*or outer perianth*  
*2-3*

#51. <236> corolla <number of parts>/

*or inner perianth*  
*0*

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/ 7. <other, specify>  
3. fringed/  
4. entire/  
5. emarginate/  
6. several lobed/
- #55. corolla <sup>or inner perianth</sup> <length, mm>/  
mm long/
- #56. <271> stamens <fertile, number>/ 3
- #57. <269> staminodes <number>/ 0
- #58. <265?> stamens <freedom>/  
1. free/  
2. fused/  
3. some fused and some free/
- #59. stamens <insertion>/  
1. opposite sepals/  
2. opposite petals/  
3. in continuous whorl/  
4. on corolla tube/  
5. in corolla throat/  
6. free from corolla/
- #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>/  
locular/

#64. <333?> styles <number>/ ~~3~~ 3

#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/ 3

#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>/ Utricle

#69. <?378, 380> fruit <whether dehiscent>/

1. dehiscent/
2. indehiscent/

#70. fruit <length, mm>/

mm long/ ca 2

#71. fruit <width, mm>/

mm wide/ ca 1

#72. <text> <complete description, added only at completion of flora>/

Floral whorl or

#73. [perianth <no of parts>

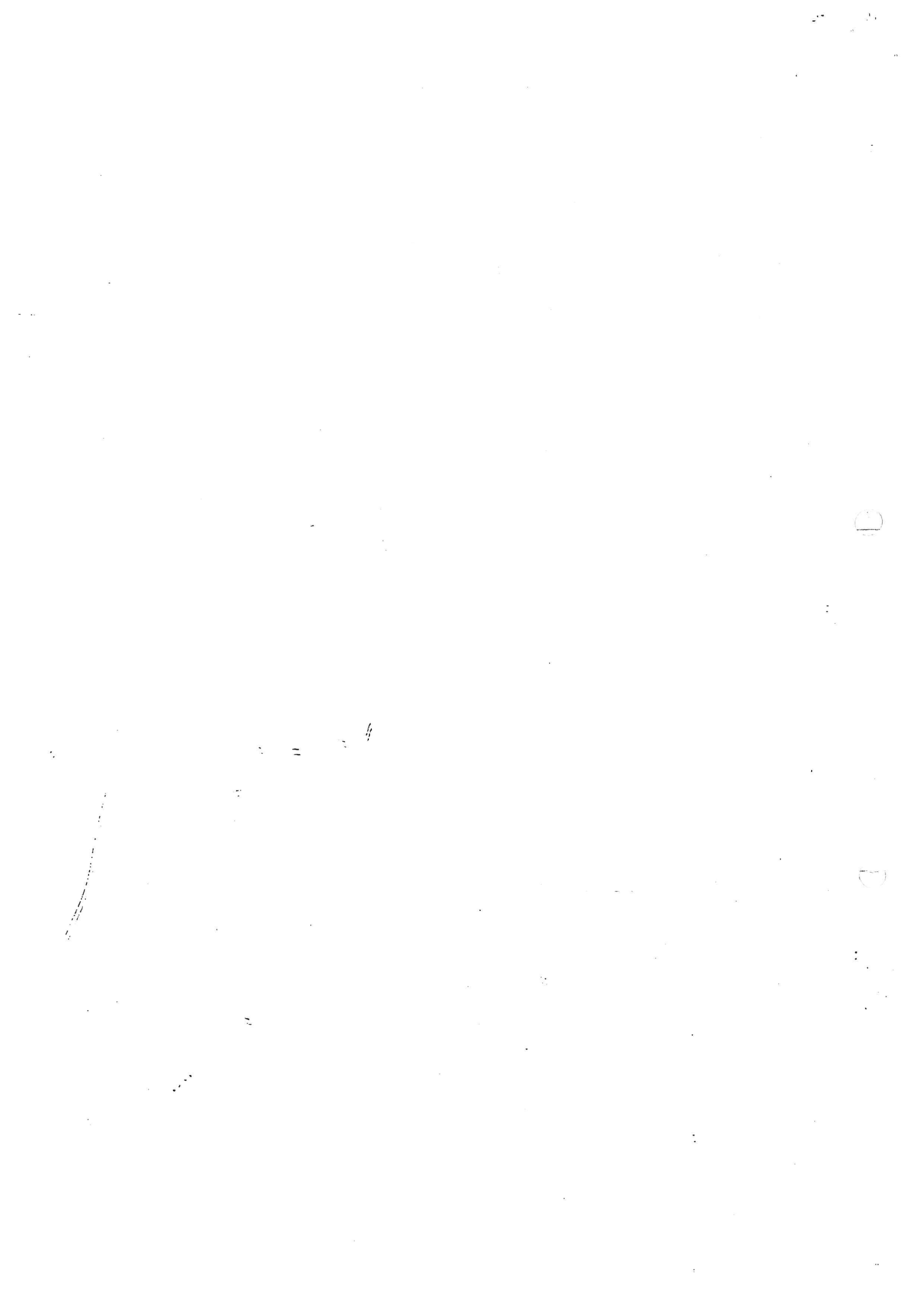
Floral whorl or

#74. [perianth <joined or free>

1. Free
2. Joined

Floral whorl or

#75. [perianth <length, mm>



\*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  
11. Estuarine

7. other/ <disturbed areas>

#8. <text> <date> compiled/

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#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/

0.2-1

#12. <297> <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/ 100-150

#23. <C> <543> leaves <total leaf width, mm>/

mm wide/ 20-60

#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/ 10
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/ 30-90

#32. <543> <simple leaves> blade <width, mm>/  
mm wide/ 20-60

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

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

#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/
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/

*apparently*

#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/

*ca 2*

#51. <236> corolla <number of parts>/

*or inner perianth*

*0*

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>/ 3-5
- #57. <269> staminodes <number>/ 0
- #58. <265?> stamens <freedom>/  
1. free/  
2. fused/  
3. some fused and some free/
- #59. stamens <insertion>/  
1. opposite sepals/  
2. opposite petals/  
3. in continuous whorl/  
4. on corolla tube/  
5. in corolla throat/  
6. free from corolla/
- #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>/  
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/

#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>/ *cube*

#69. <?378, 380> fruit <whether dehiscent>/

1. dehiscent/
2. indehiscent/

#70. fruit <length, mm>/

mm long/ 2-2.5

#71. fruit <width, mm>/

mm wide/ 1-1.5

#72. <text> <complete description, added only at completion of flora>/

Floral whorl or

#73. [Perianth <no of parts>

Floral whorl or

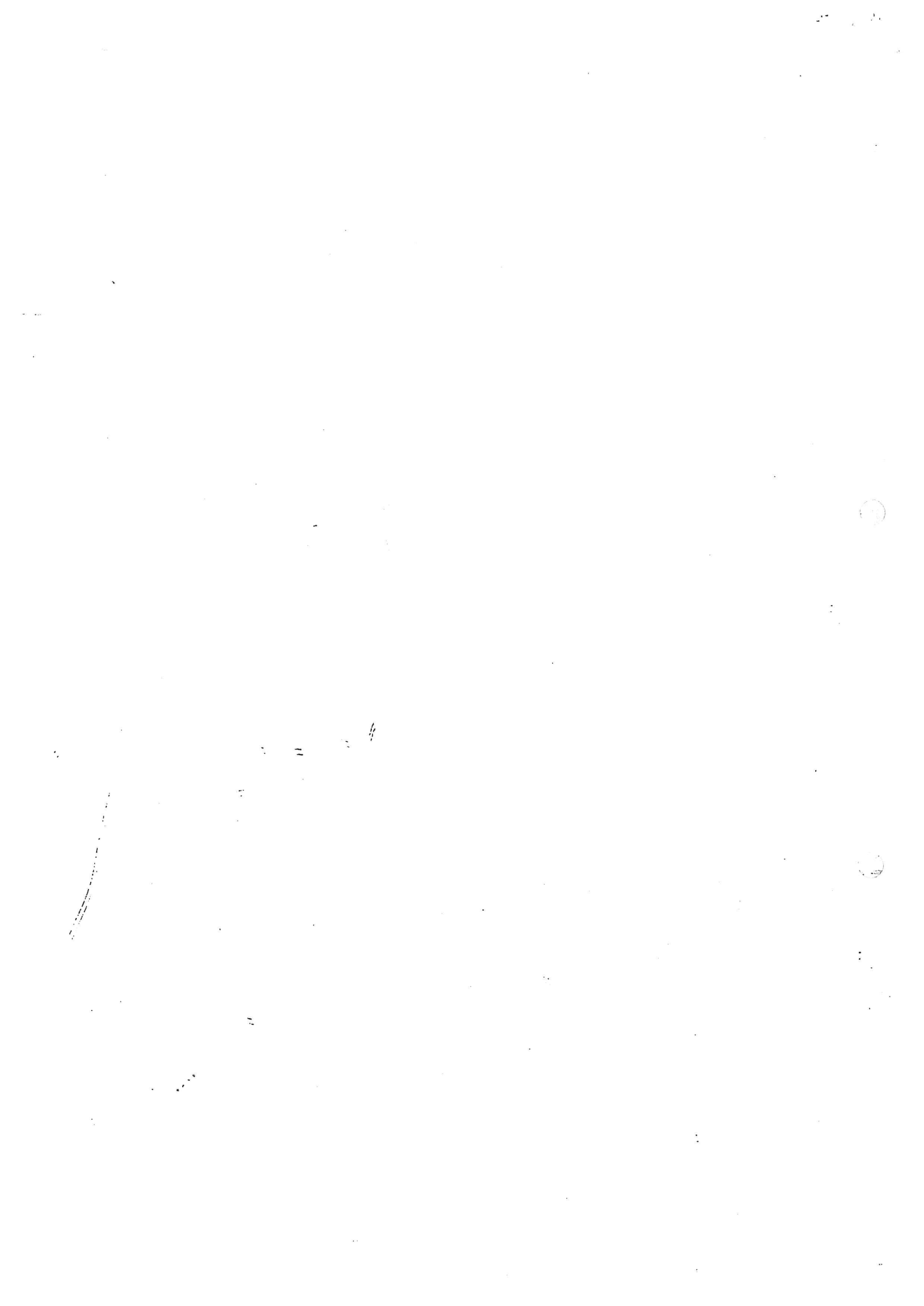
#74. [Perianth <joined or free>

1. Free

2. Joined

Floral whorl or

#75. [Perianth <length, mm>



\*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  
11. Estuarine

#8. <text> <date> compiled/

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#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/ 0-0.3

#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/ <cauline>



2. opposite/

3. whorled/ <basal>

#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. <647> stipule <presence>/

1. present <well developed, leaves stipulate>/

2. absent <or much reduced, leaves exstipulate>/

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

1. petiolate/ or

2. subsessile/ to

3. sessile/ <some cauline leaves>

4. perfoliate/

#22. <C> <542> leaves <total leaf length, mm>/

mm long/ 30 - 180

#23. <C> <543> leaves <total leaf width, mm>/

mm wide/ 8 - 55

#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/ *> or*
25. obovate/ *to*
26. broadly obovate/ *or*
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>/ *spatulate*
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/ *(sometimes undulate)*
2. crenate/
3. serrate/

- 4. dentate/
- 5. denticulate/

6. spiny-toothed

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

30-100

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

8-55

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

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

#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/
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>/ *apparently*
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>/ *5*

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

1. free <or almost so> <polysepalous>/ *<joined at base>*
2. of joined and free segments <partially gamosepalous>/
3. joined <gamosepalous>/ *<joined for basal 2 mm>*

#50. calyx *or outer perianth* <length, mm>/  
mm long/ *12-25*

#51. <236> corolla *or inner perianth* <number of parts>/ *0*

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>/ 2-45
- #57. <269> staminodes <number>/ 0-3
- #58. <265?> stamens <freedom>/  
1. free/  
2. fused/ <at base into cup>  
3. some fused and some free/
- #59. stamens <insertion>/  
1. opposite sepals/  
2. opposite petals/  
3. in continuous whorl/  
4. on corolla tube/  
5. in corolla throat/  
6. free from corolla/
- #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>/  
locular/

#64. <333?> styles <number>/ 1

#65. <336?> styles <insertion>/

1. apical/ ~~to~~ (slightly excentric)
2. lateral/ ~~to~~
3. gynobasic/

#66. styles <whether simple or branched>/

1. simple/
2. branched/

#67. styles <number of branches>/  
branches/

#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>/

subside

#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>/

Floral whorl or

#73. [perianth <no of parts>

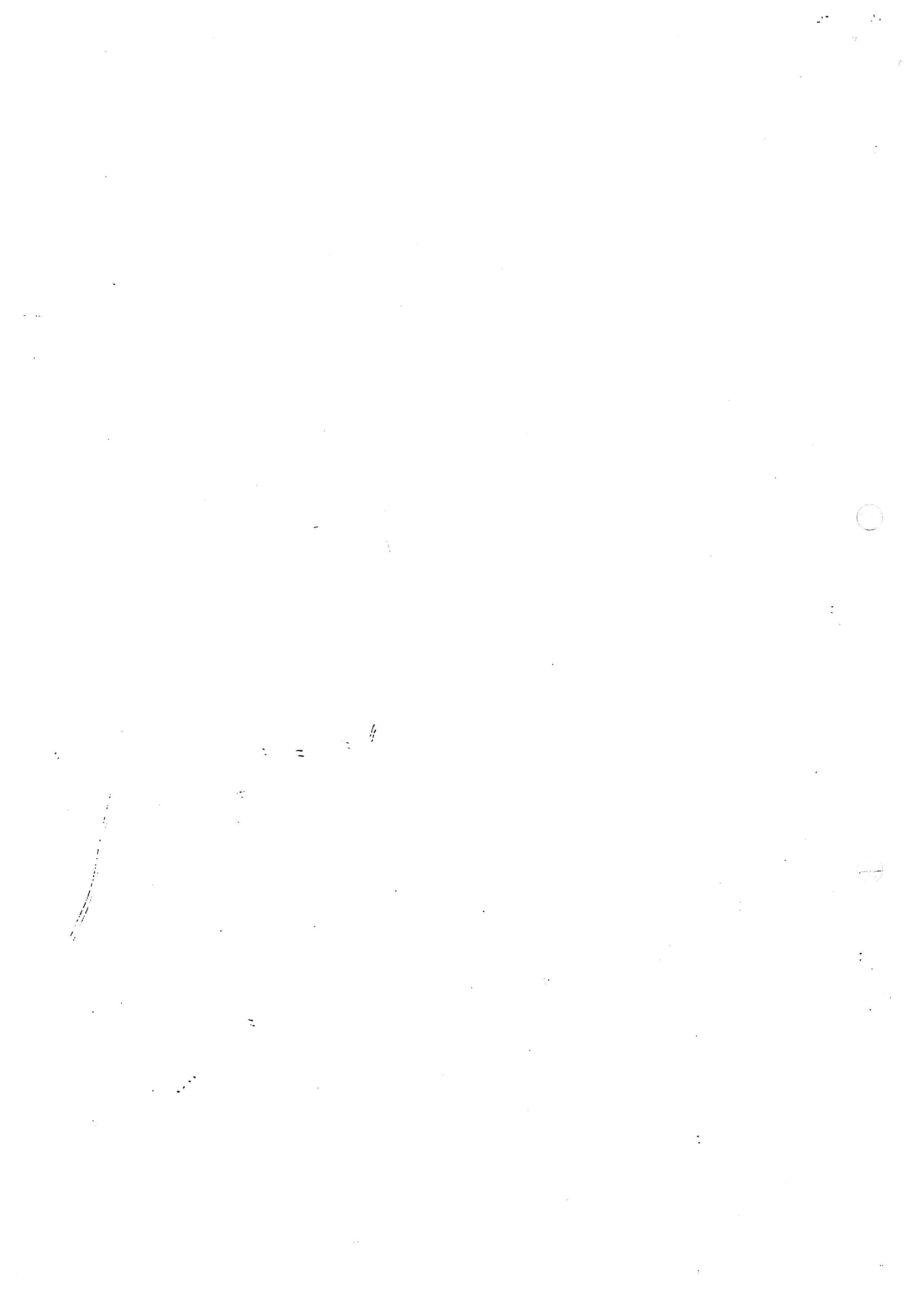
Floral whorl or

#74. [perianth <joined or free>

1. Free
2. Joined

Floral whorl or

#75. [perianth <length, mm>





\*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  
11. Estuarine

#8. <text> <date> compiled/

1.12.94

#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/

0.1-0.8

#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/ (basal)
2. sessile/
3. sessile/ (stem)
4. perfoliate/

#22. <C> <542> leaves <total leaf length, mm>/  
mm long/ 10-25 ~~cm~~ (stem leaves)

#23. <C> <543> leaves <total leaf width, mm>/  
mm wide/ 1-4

#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/ h
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/ 10-25 (stem leaves)

#32. <543> <simple leaves> blade <width, mm>/  
mm wide/ 1-4

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

#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/
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> / *apparently*
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>/ *5*

#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 / *or outer perianth* <length, mm>/ *7-10*  
mm long/

#51. <236> corolla / *or inner perianth* <number of parts>/ *0*

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/ 7. <other, specify>  
3. fringed/  
4. entire/  
5. emarginate/  
6. several lobed/

- #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/ <basally to cup>  
3. some fused and some free/

- #59. stamens <insertion>/  
1. opposite sepals/  
2. opposite petals/  
3. in continuous whorl/  
4. on corolla tube/  
5. in corolla throat/  
6. free from corolla/

- #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>/  
locular/

#64. <333?> styles <number>/ 1

#65. <336?> styles <insertion>/

1. apical/ <central>
2. lateral/
3. gynobasic/

#66. styles <whether simple or branched>/

1. simple/
2. branched/

#67. styles <number of branches>/  
branches/

#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>/ <utricle>

#69. <?378, 380> fruit <whether dehiscent>/

1. dehiscent/
2. indehiscent/

#70. fruit <length, mm>/  
mm long/

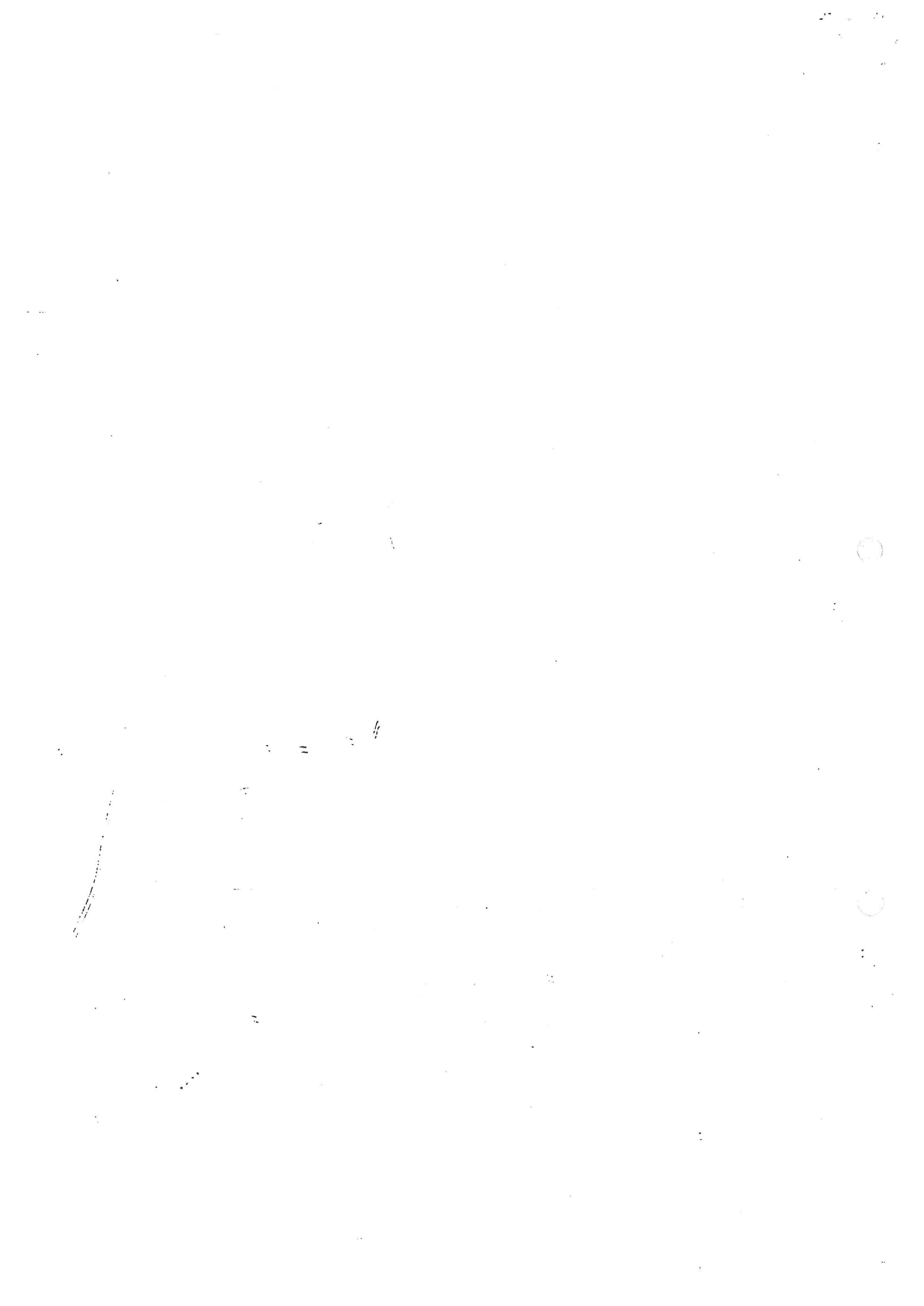
#71. fruit <width, mm>/  
mm wide/

#72. <text> <complete description, added only at completion of flora>/

#73. [Floral whorl or  
perianth <no of parts>

#74. [Floral whorl or  
perianth <joined or free>  
1. Free  
2. Joined

#75. [Floral whorl or  
perianth <length, mm>



\*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

11. Estuarine

#8. <text> <date> compiled/

1.2.94

#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/ prostrate

#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 <basal>
2. subsessile/
3. sessile <stem>
4. perfoliate/

#22. <C> <542> leaves <total leaf length, mm>/

mm long/ 8-25 <stem leaves>

#23. <C> <543> leaves <total leaf width, mm>/

mm wide/ 2-12

#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 or
2. elliptic/
3. broadly elliptic/
4. circular elliptic/
5. transversely broadly elliptic/
6. transversely elliptic/
7. narrowly oblong or
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/ 8-25

#32. <543> <simple leaves> blade <width, mm>/  
mm wide/ 2-12

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

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

#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/
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> / *<apparently>*
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*  
*5*

#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/

*10-12*

#51. <236> corolla <number of parts>/

*or inner perianth*  
*0*

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>/ 2-4

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

- #58. <265?> stamens <freedom>/  
1. free/  
2. fused/ (at base into cup)  
3. some fused and some free/

- #59. stamens <insertion>/  
1. opposite sepals/  
2. opposite petals/  
3. in continuous whorl/  
4. on corolla tube/  
5. in corolla throat/  
6. free from corolla/

- #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>/  
locular/

#64. <333?> styles <number>/ 1

#65. <336?> styles <insertion>/

1. apical/ *<central or excentric>*
2. lateral/
3. gynobasic/

#66. styles <whether simple or branched>/

1. simple/
2. branched/

#67. styles <number of branches>/  
branches/

#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>/

*<cuticle>*

#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>/

*Floral whorl or*  
#73. *<perianth (no of parts)>*

*Floral whorl or*  
#74. *<perianth (joined or free)>*

1. Free
2. Joined

*Floral whorl or*  
#75. *<perianth (length, mm)>*

