

*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/

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/

3 NOV 94

#9. <O> <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. <O> <S41> <plant> <height, m, including inflorescence>/
m high/ 0.3 - 0.9 (occasionally taller)

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

mm long/

3-16 mm

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

mm wide/

ca 0.5 mm

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

1. simple <simplicit>/

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. quadrated/

17. transversely broadly rhombic/

18. transversely rhombic/

19. narrowly ovate/

20. 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/ *to*

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/

#31. <542> <simple leaves> blade <length, mm>/
mm long/ 3-16mm

#32. <543> <simple leaves> blade <width, mm>/
mm wide/ ca 0.5mm

#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 obtusulate/
35. obtusulate/
36. broadly obtusulate/
37. very broadly obtusulate/
38. depressed obtusulate/
39. narrowly triangular/
40. 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/

#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> / (very shortly connate)
2. of joined and free segments <partially gamosepalous> /
3. joined <gamosepalous> /

#50. calyx / ^{or outer perianth} <length, mm> /

mm long / 5-8 mm

#51. <236> corolla / ^{or inner perianth} <number of parts> / 5

- #52. <240> corolla ^{or inner perianth} <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 ^{or inner perianth} <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 ^{or inner perianth} <or corolla lobes, whether incised>/
1. deeply bifid/
2. 2-lobed/
3. fringed/
4. entire/
5. emarginate/
6. several lobed/
7. <other, specify> *mucronate*

- #55. corolla ^{or inner perianth} <length, mm>/
mm long/ *ca 10mm*

- #56. <271> stamens <fertile, number>/ *10*

- #57. <269> staminodes <number>/ *none*

- #58. <265?> stamens <freedom>/
1. free/
2. fused/
3. some fused and some free/

- #59. stamens <insertion>/ *(in 2 whorls)*
1. opposite sepals/
2. opposite petals/ *(outer whorl)*
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/ 2

#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>/

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

1. dehiscent/
2. indehiscent/

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

ca 4mm

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

ca 5mm

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

Floral whorl or

#73. [Perianth <no of parts>

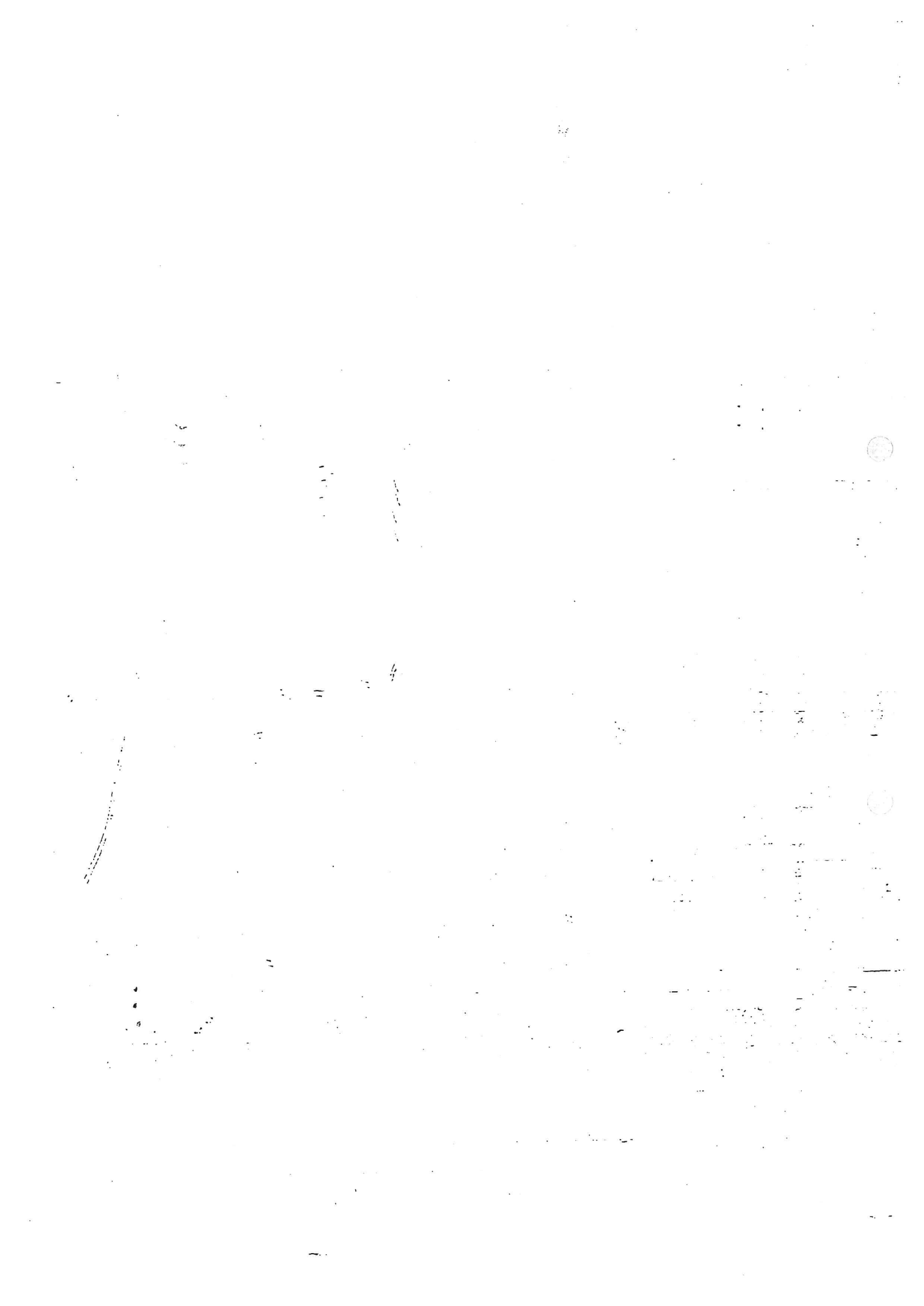
Floral whorl or

#74. [Perianth <joined or free>

1. Free

2. Joined

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



TREMANDRACEAE

*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/

- 11. November/
- 12. December/

#7. <vegetation type>/

- 1. coastal heath/
- 2. swamp/
- 3. shrubland/
- 4. woodland/
- 5. karri forest/
- 6. jarrah forest/

- 10. Riverine
- 11. Estuarine

7. other/

8. heath <not coastal>/

9. granite rocks/

(rocky hillsides)

#8. <text> <date> compiled/

3 NOV 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. <I9> <plant> <longevity in herbs>/

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

#11. <C> <S4I> <plant> <height, m, including inflorescence>/
m high/

0.3-1m

#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> <I2> 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. <647> stipule <presence>/

1. present <well developed, leaves stipulate>/

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

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

1. petiolate/

2. sessile/

3. sessile/

4. perfoliate/

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

mm long/ 5-11mm

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

mm wide/ ca 0.5mm

#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/

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. <397> <leaves> blade <mature form>/

1. flat/
2. folded lengthwise/
3. concave/
4. convex/
5. involute/
6. revolute/ and
7. terete/ to
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/

#31. <542> <simple leaves> blade <length, mm>/
mm long/ 5-11mm

#32. <543> <simple leaves> blade <width, mm>/
mm wide/ ca 0.5mm

#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 obtusate/
35. obtusate/
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 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/

#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/

5-8 mm

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

5

- #52. <240> corolla ^{or, more precisely} <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 ^{or, more precisely} <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 ^{or, more precisely} <or corolla lobes, whether incised>/
1. deeply bifid/
2. 2-lobed/ 7. (other, specify) *mucronate*
3. fringed/
4. entire/
5. emarginate/
6. several lobed/

- #55. corolla ^{or, more precisely} <length, mm>/
mm long/ *ca 10mm*

- #56. <271> stamens <fertile, number>/ *10*

- #57. <269> staminodes <number>/ *none*

- #58. <265?> stamens <freedom>/
1. free/
2. fused/
3. some fused and some free/

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

- #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/ 2

#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. mericarp/
10. capsule/
11. silicle/
12. siliqua/
13. caryopsis/
14. <other, specify>/

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

1. dehiscent/
2. indehiscent/

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

ca 6mm

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

ca 5mm

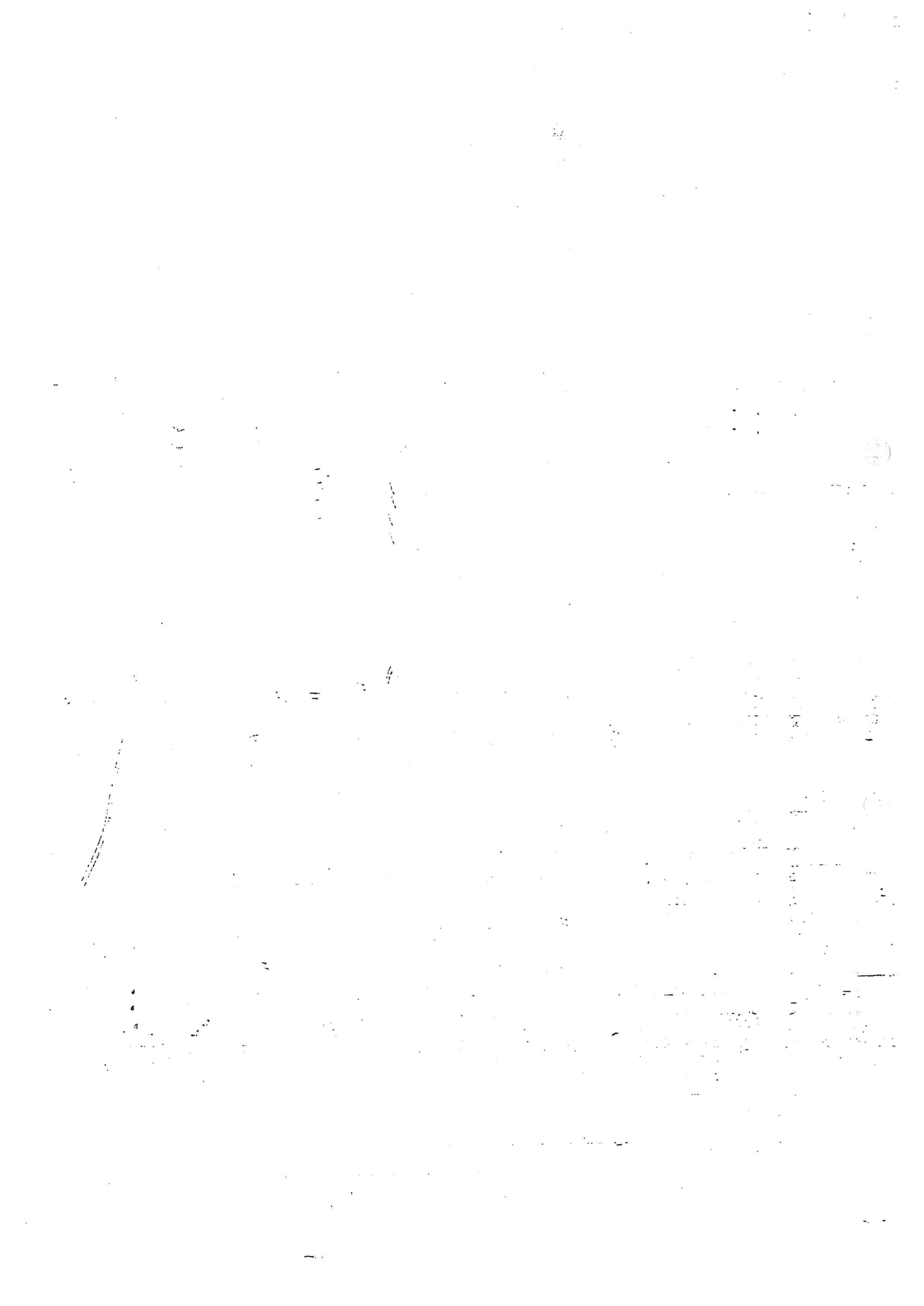
#72. <text> <complete description, added only at completion of flora>/

Floral whorl on
#73. [perianth (no of parts)]

Floral whorl
#74. [perianth (joined or free)]

1. Free
2. Joined

Floral whorl of
#75. [perianth (length, mm)]



*CHARACTER LIST

TREMANDRACEAE

#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/

(Recorded for)

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/

4 NOV 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> <S41> <plant> <height, m, including inflorescence>/
m high/ to 0.6m

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

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

#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 <simpliciter>/
2. much reduced/
3. absent/

#16. leaves <whether fasciculate>/

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

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

mm long/ 8-10mm

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

mm wide/

#24. <O> <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. quadrated/
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. <397> <leaves> blade <mature form>/

1. flat/ (to recurved)

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/

#31. <542> <simple leaves> blade <length, mm>/
mm long/ 8-10 mm

#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>/

#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 obtusate/
35. obtusate/
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 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. <O> <546> flowers <overall inflorescence colour>/

1. green/
2. white/
3. cream/
4. yellow/
5. orange/
6. red/
7. pink/ to
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/ (or in pairs)
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/

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

#48. <219> calyx <number of parts> 5
or outer perianth

#49. <222> calyx <whether parts joined or free> 5
1. free <or almost so> <polysepalous>/
2. of joined and free segments <partially gamosepalous>/
3. joined <gamosepalous>/

#50. calyx <length, mm> 2-2.5 mm
mm long/ or outer perianth

#51. <236> corolla <number of parts> 5
or inner perianth

- #52. <240> corolla ^{or inner perianth} <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 ^{or inner perianth} <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 ^{or inner perianth} <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 ^{or inner perianth} <length, mm>/
mm long/ 8-9mm

- #56. <271> stamens <fertile, number>/ 10

- #57. <269> staminodes <number>/ none

- #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 = 7613

- #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/ 2

#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. <7379, 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. <7378, 380> fruit <whether dehiscent>/

1. dehiscent/
2. indehiscent/

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

ca 6mm

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

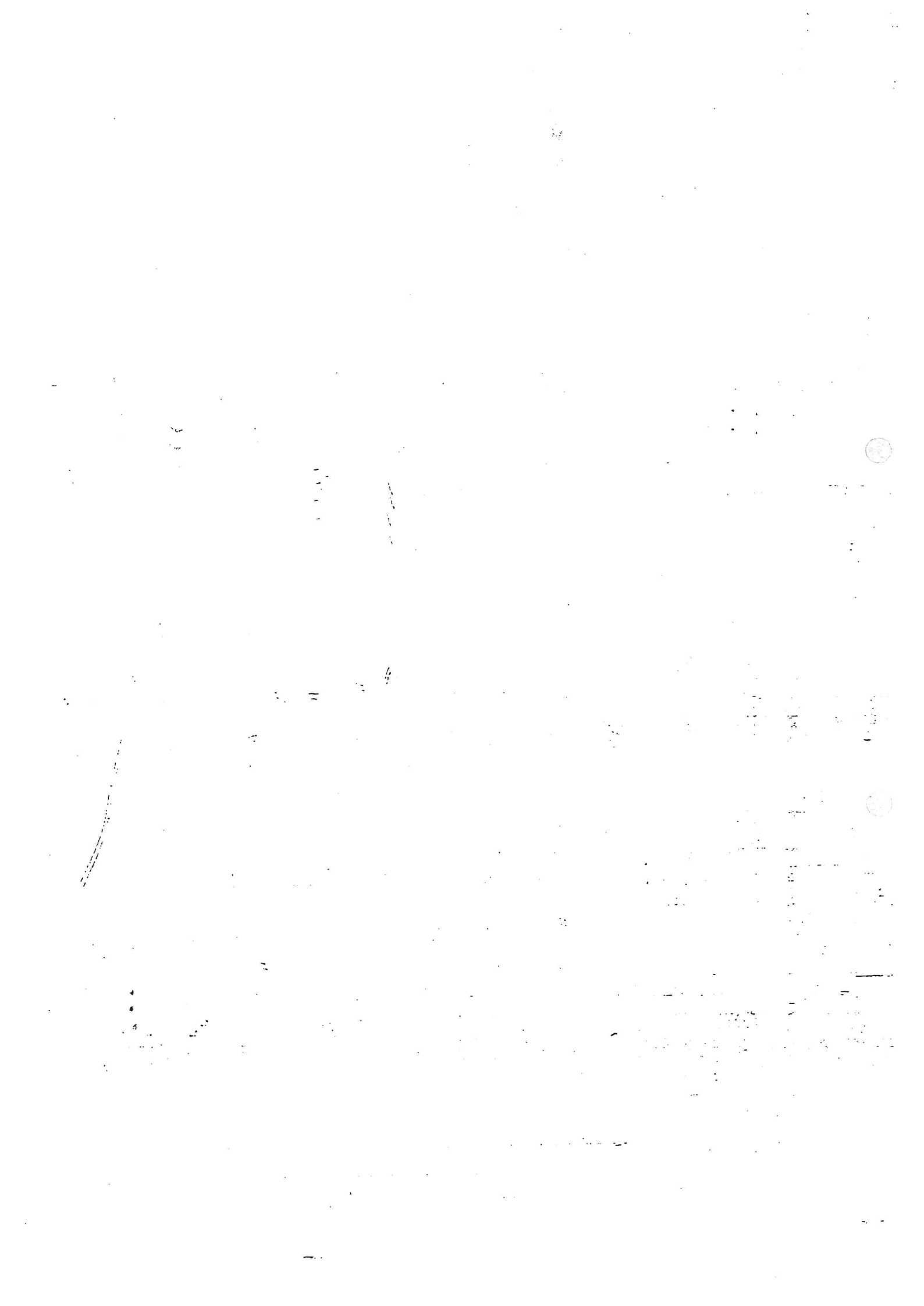
#72. <text> <complete description, added only at completion of flora>/

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/

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/

4 NOV 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

(occasionally).

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

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

#11. <C> <541> <plant> <height, m, including inflorescence>/
m high/ 0.1 - 0.4m

#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/ or
- 3. whorled/

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

- 1. spiral/
 - 2. distichous/
 - 3. 4-ranked/
 - 4. 3-ranked <tristichous>/
- 99 leaves not alternate*

#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/
- 2. subsessile/
- 3. sessile/
- 4. perfoliate/

#22. <542> leaves <total leaf length, mm>/
mm long/ 5-20 mm

#23. <543> leaves <total leaf width, mm>/
mm wide/ 0.5-3 mm

#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/
- 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. quadrated/
- 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/ (occasionally) 6. serrate
5. denticulate/

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

#32. <543> <simple leaves> blade <width, mm>/
mm wide/ 0.5-3 mm

#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. quadrangle/
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 obtusate/
35. obtusate/
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 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/

#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 ^{or outer perianth} <length: mm>/
mm long/

1.5 - 2mm

#51. <236> corolla ^{or inner perianth} <number of parts>/

5

segments

- #52. <240> corolla ^{or inner perianth} <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 ^{or inner perianth} <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 ^{or inner perianth} <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 ^{or inner perianth} <length, mm>/
mm long/
- 6-8.5 mm

- #56. <271> stamens <fertile, number>/
- 10 (usually)

- #57. <269> staminodes <number>/
- none

- #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/
- = 76.3

- #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/ 2

#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. <7379, 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. <7378, 380> fruit <whether dehiscent>/

1. dehiscent/
2. indehiscent/

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

2.5-3.3 mm

#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

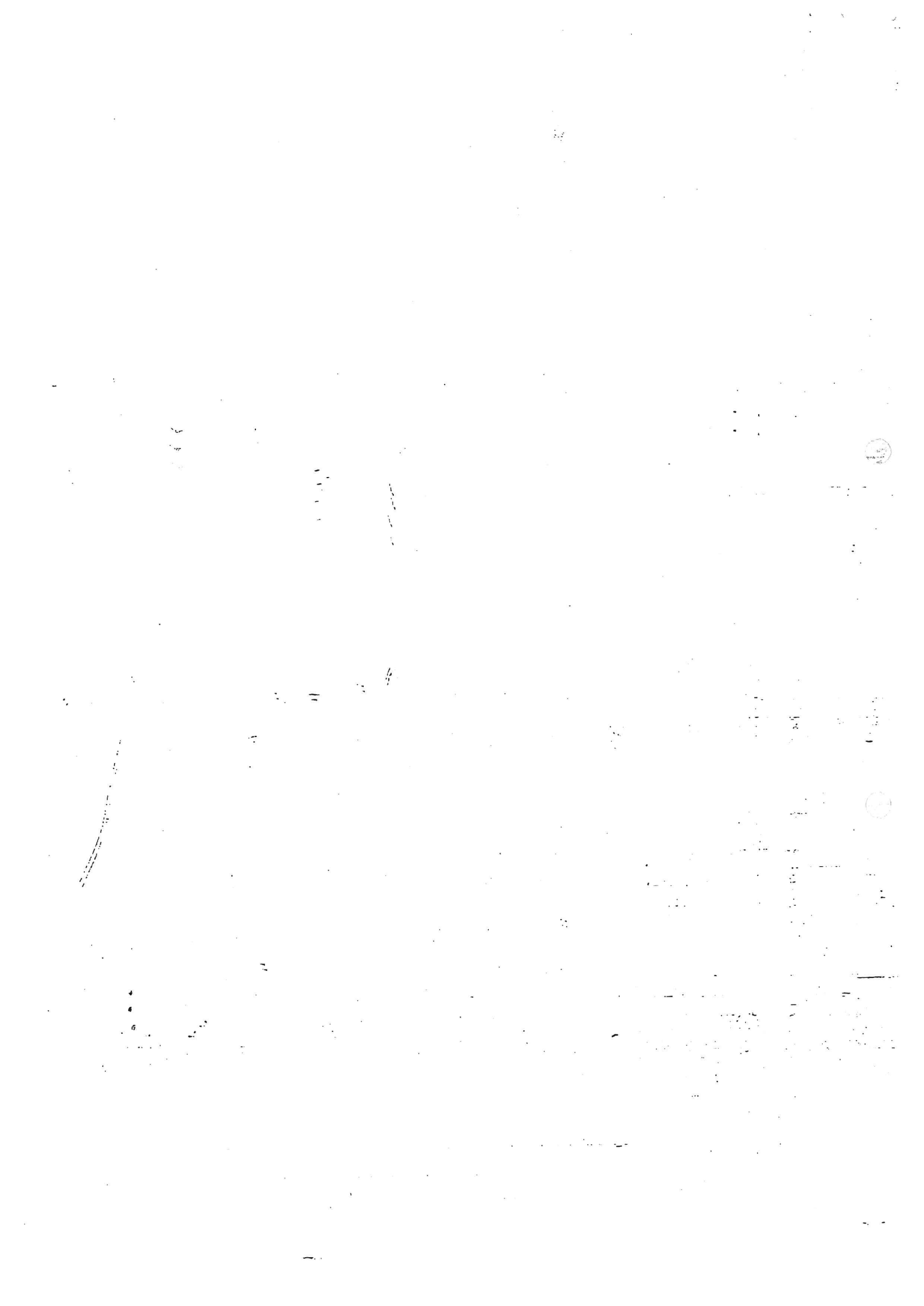
#74. [perianth (joined or free)]

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/

- 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/

7 NOV 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. <I9> <plant> <longevity in heros>/

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

#11. <C> <S41> <plant> <height, m, including inflorescence>/
m high/ 0.2-0.9m

#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> <I2> 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. <542> leaves <total leaf length, mm>/

mm long/ 3-25mm

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

mm wide/ 0.5-10mm

#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/

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/

(usually)

2. not ciliate/

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

1. flat/ to

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/

(occasionally b. spring flowers
appearing dentate).

#31. <542> <simple leaves> blade <length, mm>/
mm long/ 3-25

#32. <543> <simple leaves> blade <width, mm>/
mm wide/ 0.5-10

#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 obtusate/

35. obtusate/

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 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/ to
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/

#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>/
mm long/

3-4mm

#51. <236> corolla ^{or inner perianth} <number of parts>/

5

#52. <240> corolla ^{or inner perianth} <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 ^{or inner perianth} <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 ^{or inner perianth} <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 ^{or inner perianth} <length, mm>/
mm long/ 7-15mm

#56. <271> stamens <fertile, number>/ 10

#57. <269> staminodes <number>/ none

#58. <265?> stamens <freedom>/
1. free / or
2. fused/
3. some fused and some free / (sometimes filaments joined in pairs)

#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 / 7613

#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/ 2

#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>/

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

- 1. dehiscent/
- 2. indehiscent/

#70. fruit <length, mm>/ 5-8mm
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/

7 NOV 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/ 0.3 - 0.8m

#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. <647> 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. <542> leaves <total leaf length, mm>/

mm long/ 1.5 - 17mm

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

mm wide/ 0.5 - 10mm

#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/

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/ to
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/ or
2. crenate/
3. serrate/

4. ~~dentate~~ (appearing dentate) 6. Spiny rootlets

5. denticulate/

#31. <542> <simple leaves> blade <length, mm>/
mm long/ 1-15 mm

#32. <543> <simple leaves> blade <width, mm>/
mm wide/ 0.5-10 mm

#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 obtusulate/
35. obtusulate/
36. broadly obtusulate/
37. very broadly obtusulate/
38. depressed obtusulate/
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/ *to*
8. purple/
9. violet/
10. olive/
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/

#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> 2-3 mm
mm long/

#51. <236> corolla / ^{or inner perianth} <number of parts> 5

segments

- #52. <240> corolla ^{or inner perianth} <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 ^{or inner perianth} <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 ^{or inner perianth} <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 ^{or inner perianth} <length, mm>/
mm long/

- #56. <271> stamens <fertile, number>/ 10

- #57. <269> staminodes <number>/ none

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

1. free/
2. fused/
3. some fused and some free/

(sometimes filaments joined in pairs)

- #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/

= 76.3

- #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/ 2

#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>/

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

1. dehiscent/
2. indehiscent/

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

ca 4mm

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

ca 4mm.

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

Floral whorl or

#73. [perianth <no of parts>

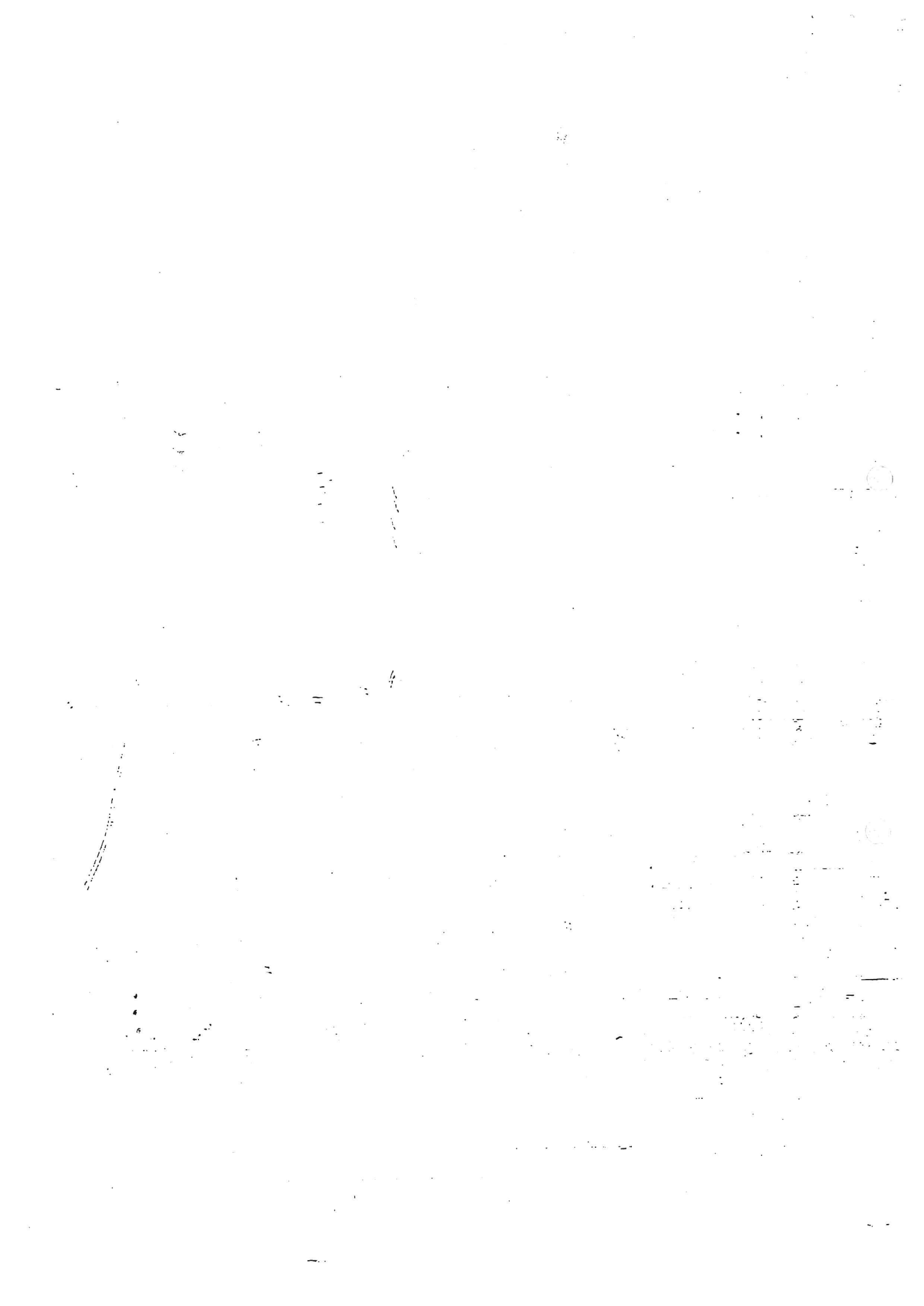
Floral whorl of

#74. [perianth <joined or free>

1. Free

2. Joined

Floral whorl of
#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/

(probably)

- 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/

7 NOV 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. <I9> <plant> <longevity in herbs>/

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

#11. <C> <S4I> <plant> <height, m, including inflorescence>/
m high/ 0.2 - 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. <O> <542> leaves <total leaf length, mm>/

mm long/

3-4 mm

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

mm wide/

#24. <O> <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/ to

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/ 3-4mm

#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>/

#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 obtusulate/
35. obtusulate/
36. broadly obtusulate/
37. very broadly obtusulate/
38. depressed obtusulate/
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/ *to*
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/

#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>/ 1-5mm
mm long/

#51. <236> corolla ^{or inner perianth} <number of parts>/ 5

segments

#52. <240> corolla ^{or inner perianth} <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 ^{or inner perianth} <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 ^{or inner perianth} <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 ^{or inner perianth} <length, mm>/
mm long/

6-7 mm

#56. <271> stamens <fertile, number>/ 10

#57. <269> staminodes <number>/ none

#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/

763

#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/ 2

#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>/

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

1. dehiscent/
2. indehiscent/

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

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

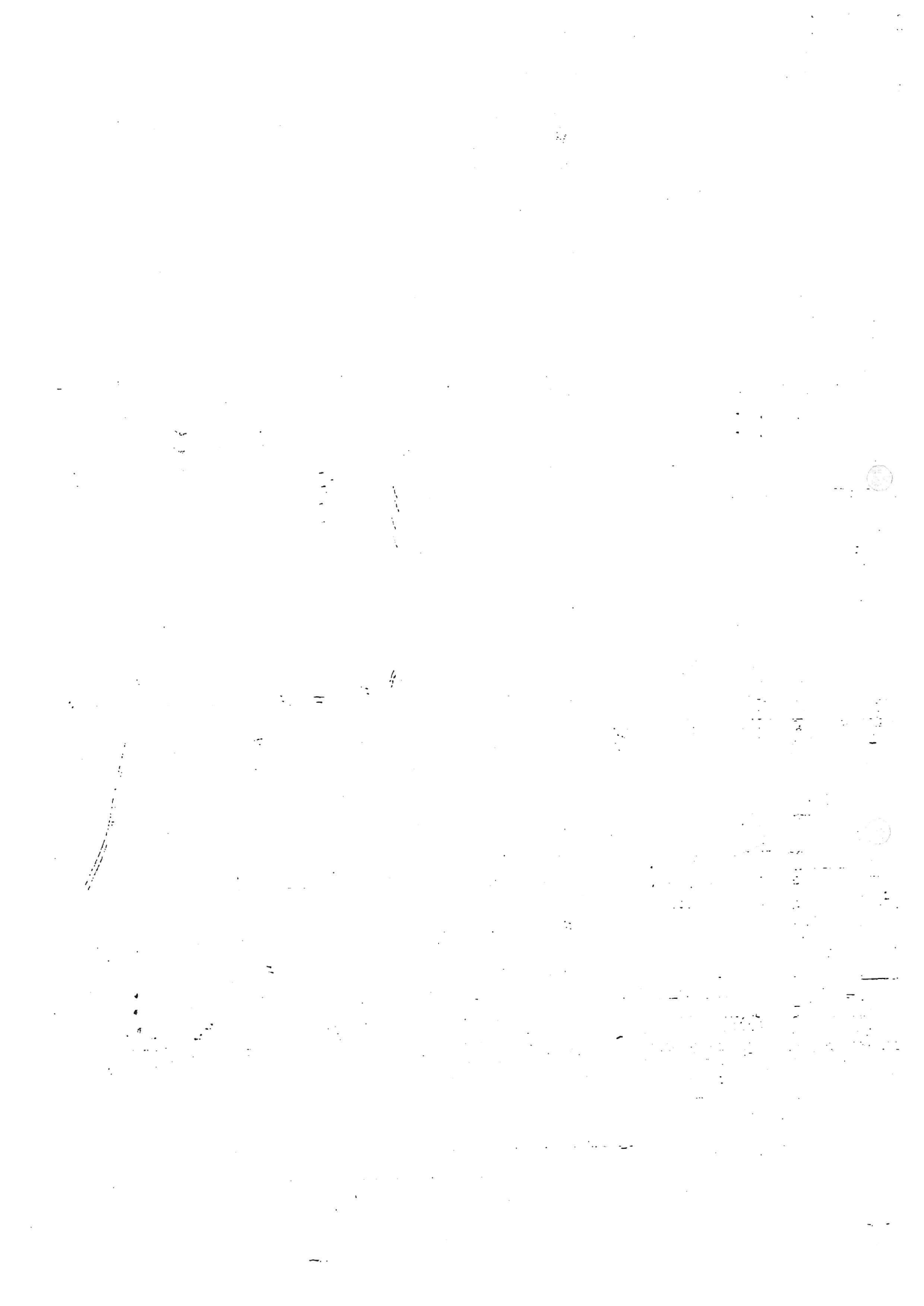
#72. <text> <complete description, added only at completion of flora>/

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/

7 NOV 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/ 0.2-0.6m

#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/

(only very occasionally)

#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/

3-20-8 mm

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

1-8 mm

#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/ to

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/ (occasionally 6. spiny-toothed
5. denticulate/ appearing
dentate)

#31. <542> <simple leaves> blade <length, mm>/
mm long/ 3-20

#32. <543> <simple leaves> blade <width, mm>/
mm wide/ 1-8

- #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/

#47. <202> floral tube <presence>/

1. present/
2. absent <implicit>/

#48. <219> calyx <number of parts>/

or outer perianth
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/

2.5 - 3.5 mm

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

or inner perianth

5

segments/

#52. <240> corolla ^{or inner perianth} <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 ^{or inner perianth} <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 ^{or inner perianth} <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 ^{or inner perianth} <length, mm>/
mm long/

8-12mm

#56. <271> stamens <fertile, number>/ 10

#57. <269> staminodes <number>/ none

#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/ 763

#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/ 2

#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>/

#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 of
#74. [perianth <joined or free>

1. Free
2. Joined

Floral whorl of
#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/

#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/ 0.1 - 1m

#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. <647> 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/ 1-3mm

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

mm wide/ ca 1mm

#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. quadrated/
17. transversely broadly rhombic/
18. transversely rhombic/
19. narrowly ovate/ to
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/

to

2. folded lengthwise/

(keeled)

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/ 1-3mm

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

#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 obtusate/
35. obtusate/
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 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/

to

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

1. 3-petal/
2. 4-petal/
3. 5-petal/
4. 6-petal/
5. pea flower/
6. warble/
7. eucalypt/
8. daisy/
9. dandelion-daisy/
10. clustered/
11. other/
12. spikelet/

or

#41. <C> <175> flowers <arrangement>/

1. solitary/ *or*

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>/

several together

#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/

#47. <202> floral tube <presence>/

1. present/

2. absent <implicit>/

#48. <219> calyx <number of parts>/

or outer perianth

4 or 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/

2-5-3mm

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

4 or 5

segments

#52. <240> corolla ^{or inner perianth} <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 ^{or inner perianth} <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 ^{or inner perianth} <or corolla lobes, whether incised>/

1. deeply bilobed/
2. 2-lobed/
3. fringed/
4. entire/
5. emarginate/
6. several lobed/
7. <other, specify>

#55. corolla ^{or inner perianth} <length, mm>/
mm long/ 7-15 mm

#56. <271> stamens <fertile, number>/ 10 (usually)

#57. <269> staminodes <number>/ none

#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/ 16, 3

#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/ 2

#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>/

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

1. dehiscent/
2. indehiscent/

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

7-10 mm

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

5-7 mm

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

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

Floral whorl on
#74. [perianth <joined or free>

1. Free
2. Joined

Floral whorl of
#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/

4 NOV 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/ 0.05 - 0.3m

#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. <647> stipule <presence>/

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

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

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

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

mm long/ 7-19

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

mm wide/ 4-15

#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/
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/ 6-18

#32. <543> <simple leaves> blade <width, mm>/
mm wide/ 4-15

#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/ *to*
3. cream/
4. yellow/
5. orange/
6. red/
7. pink/ *or*
8. purple/ *or*
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/ (minute)
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
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/

2-3mm

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

or inner perianth

5

segments/

- #52. <240> corolla ^{or inner perianth} <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 ^{or inner perianth} <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 ^{or inner perianth} <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 ^{or inner perianth} <length, mm>/
mm long/ 2-3mm

- #56. <271> stamens <fertile, number>/ 10

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

- #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/ 76, 13

- #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/ 2

#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>/

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

1. dehiscent/
2. indehiscent/

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

2-3 mm

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

2-3.5 mm

#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)]



TREMANDRACEAE

*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/

- 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/

4 NOV 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> <S41> <plant> <height, m, including inflorescence>/
m high/

0.3 - 1.2m (occasionally to 2m)

#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. <647> 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. <◇> <542> leaves <total leaf length, mm>/

mm long/ 19 - 54 =

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

mm wide/ 11 - 38

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

- 1. simple <implicit>/
- 2. compound/

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

- 1. dissected/
- 2. entire <part 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/

(densely hairy)

2. not ciliate/

#29. <39?> <leaves> blade <marure 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/

or

2. crenate/

3. serrate/

4. dentate/
5. denticulate/

#31. <542> <simple leaves> blade <length, mm>/
mm long/ 15-50 ~~15-30~~

#32. <543> <simple leaves> blade <width, mm>/
mm wide/ 11-38

- #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 obtusulate/
35. obtusulate/
36. broadly obtusulate/
37. very broadly obtusulate/
38. depressed obtusulate/
39. narrowly triangular/
40. 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/ (minute)

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

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>/

or outer perianth

#50. calyx <length, mm>/

mm long/

4.5 - 7.5 mm

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

or inner perianth

5

- #52. <240> corolla ^{or inner perianth} <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 ^{or inner perianth} <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 ^{or inner perianth} <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 ^{or inner perianth} <length, mm>/
mm long/ 5-10 mm

- #56. <271> stamens <fertile, number>/ 10

- #57. <269> staminodes <number>/ none

- #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/ 2

#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>/

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

1. dehiscent/
2. indehiscent/

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

4-7 mm

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

5-7 mm

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

Floral whorl on

#73. [Perianth (no of parts)]

Floral whorl of

#74. [Perianth (joined or free)]

1. Free

2. Joined

Floral whorl of
#75. [Perianth (length, mm)]

