

\*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

*c. disturbed areas*

#8. <text> <date> compiled/

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

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

8. Sedge or rush-like

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

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

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

#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/ <cauline>
- 3. whorled/ <basal>

#18. <37> leaves <phyllotaxy, when alternate>/  
 1. spiral/  
 2. distichous/  
 3. 4-ranked/  
 4. 3-ranked <tristichous>/

#19. leaves <opposite, whether decussate>/  
 1. decussate/  
 2. not decussate <implicit>/

#20. <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/

0-80

#22. <C> <542> leaves <total leaf length, mm>/  
 mm long/ 35 - 150

#23. <C> <543> leaves <total leaf width, mm>/  
 mm wide/ 15 - 30

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

#25. <56> <simple leaves> blade <dissection>/  
 1. dissected/ <pinnatisect>  
 2. entire <apart from margin>/

#26. <simple leaves> <shape> <ref. Flora of the Perth Region>/  
 1. narrowly elliptic/ h  
 2. elliptic/  
 3. broadly elliptic/  
 4. circular elliptic/  
 5. transversely broadly elliptic/  
 6. transversely elliptic/  
 7. narrowly oblong/ h  
 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/ to

4. dentate/

5. denticulate/

6. spiny-toothed

#31. <542> <simple leaves> blade <length, mm>/  
mm long/ 35-70

#32. <543> <simple leaves> blade <width, mm>/  
mm wide/ 15-30

#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

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

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

#50. calyx <length, mm>/  
mm long/

or outer perianth  
5-10

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

or inner perianth  
5

segments/

- #52. <240> corolla <sup>or inner perianth</sup> <whether parts joined or free>/  
 1. free <or almost so> <polysepalous>/  
 2. of joined and free segments <partially gamosepalous>/  
 3. joined <gamosepalous>/
- #53. <246?> corolla <sup>or inner perianth</sup> <where segments joined, shape>/  
 1. rotate/  
 2. 2-lipped/  
 3. campanulate/  
 4. tubular/  
 5. urceolate/  
 6. trumpet-like/  
 7. spurred/  
 8. ligulate/  
 9. lobed/
- #54. <255?> petals <sup>or inner perianth</sup> <or corolla lobes, whether incised>/  
 1. deeply bifid/  
 2. 2-lobed/  
 3. fringed/  
 4. entire/  
 5. emarginate/  
 6. several lobed/  
 7. <other, specify>
- #55. corolla <sup>or inner perianth</sup> <length, mm>/  
 mm long/ 7-10
- #56. <271> stamens <fertile, number>/ 5
- #57. <269> staminodes <number>/ 5
- #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/ 5

#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/ 5

#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/ 9-10 <plus beak 80-110 mm long

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

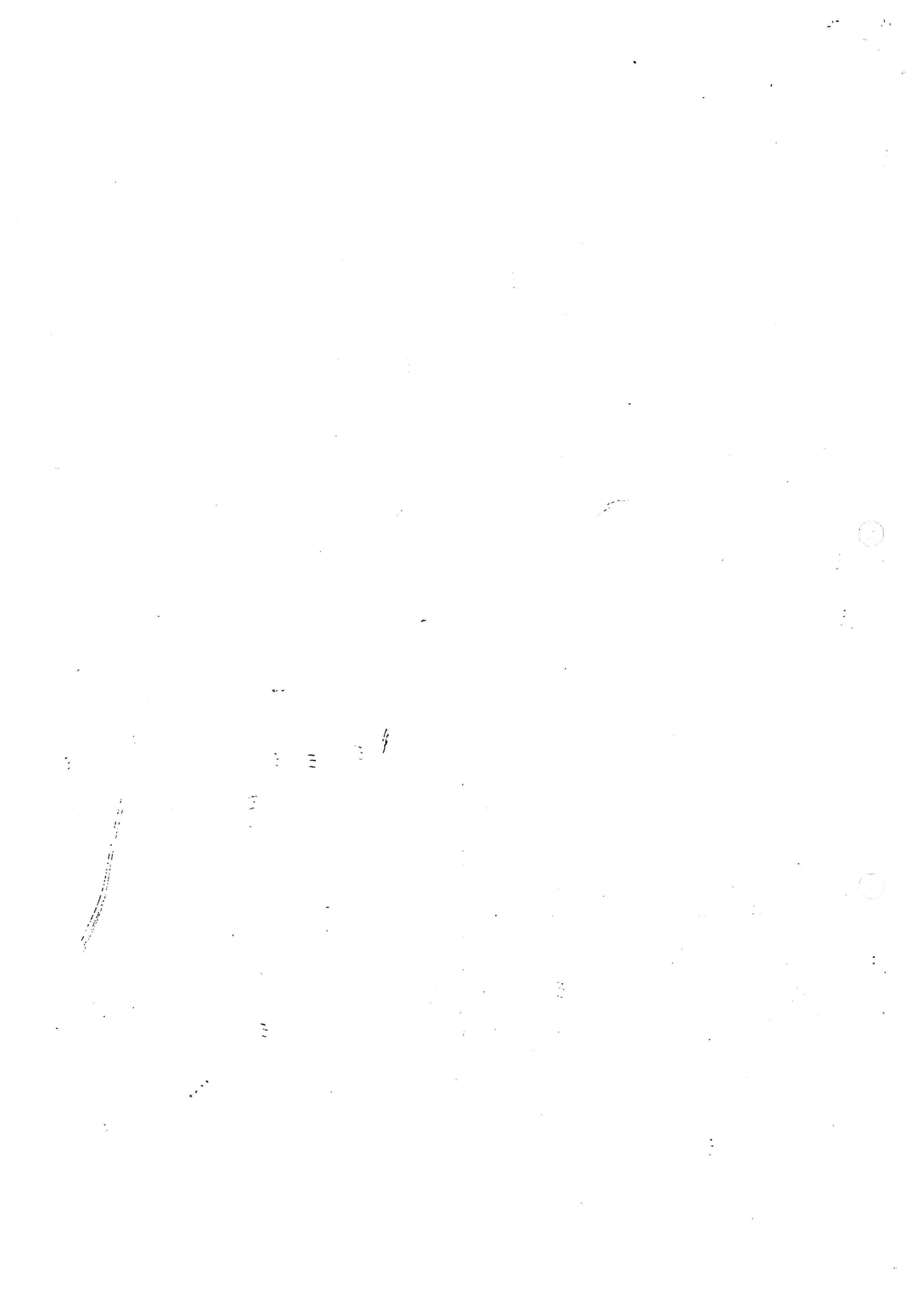
#72. <text> <complete description, added only at completion of flora>/

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

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

1. Free
2. Joined

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



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

\*CHARACTER LIST

#1. <supra group>/

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

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

1. native/
2. naturalised/

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

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

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

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

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

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

#6. flowers <flowering period>/

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

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

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

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

10. Riverine  
11. Estuarine

*distributed areas*

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

20.6.94

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

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

8. Sedge or rush-like

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

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

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

0 - 0.2m

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

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

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

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

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

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

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

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

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

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

## #17. &lt;36&gt; leaves &lt;insertion, score "scattered; crowded" as U, with comment&gt;/

- 1. alternate/

2. opposite/ ~~altern.~~ <sup>caulicis</sup>  
 3. whorled/ <sup>basal</sup>

- #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. sessile/  
 3. sessile/  
 4. perfoliate/
- #22. <C> <542> leaves <total leaf length, mm>/  
 mm long/ 30 - 130
- #23. <C> <543> leaves <total leaf width, mm>/  
 mm wide/ 15 - 30
- #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. 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 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/

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

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

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

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

- 1. narrowly elliptic/
- 2. elliptic/ *o*
- 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/ *o*
- 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/ 8-15

#38. <545> <compound leaves> leaflet blade <ultimate width, mm>/  
mm wide/ 4-7

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

1. green/
2. white/ to
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 / <sup>or outer perianth</sup> <number of parts> / 5
- #49. <222> calyx / <sup>or outer perianth</sup> <whether parts joined or free> /  
 1. free <or almost so> <polysepalous> /  
 2. of joined and free segments <partially gamosepalous> /  
 3. joined <gamosepalous> /
- #50. calyx / <sup>or outer perianth</sup> <length, mm> /  
 mm long / 4-6
- #51. <236> corolla / <sup>or inner perianth</sup> <number of parts> / 5

segments/

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

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

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

- #55. corolla <sup>or inner perianth</sup> <length, mm>/  
mm long/ 6-8

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

- #57. <269> staminodes <number>/ 5

- #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/ S

#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/ S

#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/

5-8 mm long (plus beak 30-45 mm long)

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

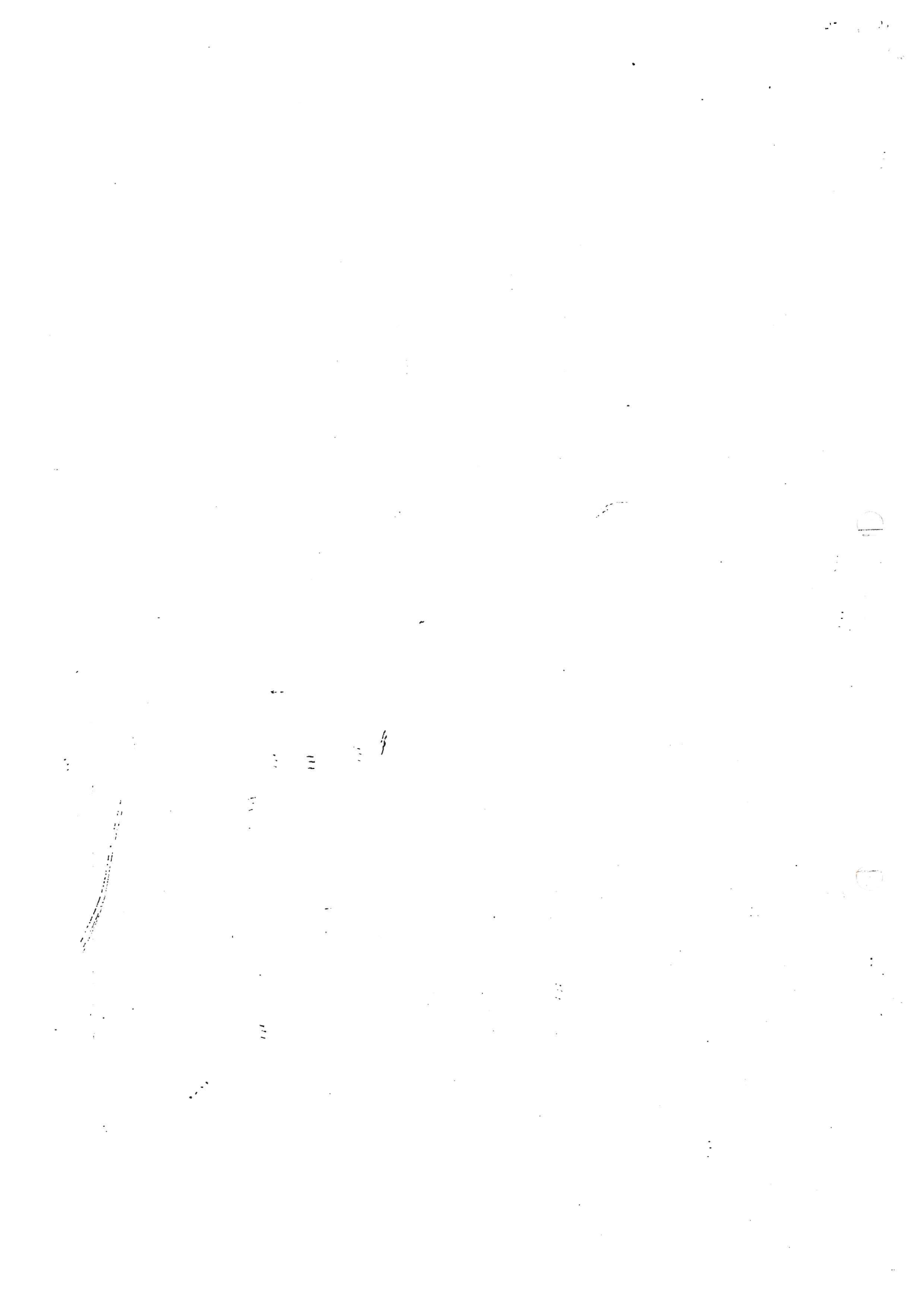
#72. <text> <complete description, added only at completion of flora>/

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>



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

\*CHARACTER LIST

#1. <supra group>/

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

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

1. native/
2. naturalised/

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

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

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

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

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

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

#6. flowers <flowering period>/

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

10. October/

11. November/

12. December/

#7. <vegetation type>/

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

10. Riverine

11. Estuarine

<disturbed areas>

#8. <text> <date> compiled/

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

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

8. Sedge or rush-like

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

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

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

0-0.4

#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 <cauline> and  
 3. whorled <basal>

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

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

#19. leaves <opposite, whether decussate>/

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

#20. <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/ ~~20-60~~ 30-40 - 220

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

mm wide/ ~~5-30~~ 15-80

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

1. simple <implicit>/
2. compound/

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

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

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

1. narrowly elliptic/
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/

#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/ to
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/ 9 - 40

#38. <545> <compound leaves> leaflet blade <ultimate width, mm>/  
mm wide/ 5 - 30

#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>/

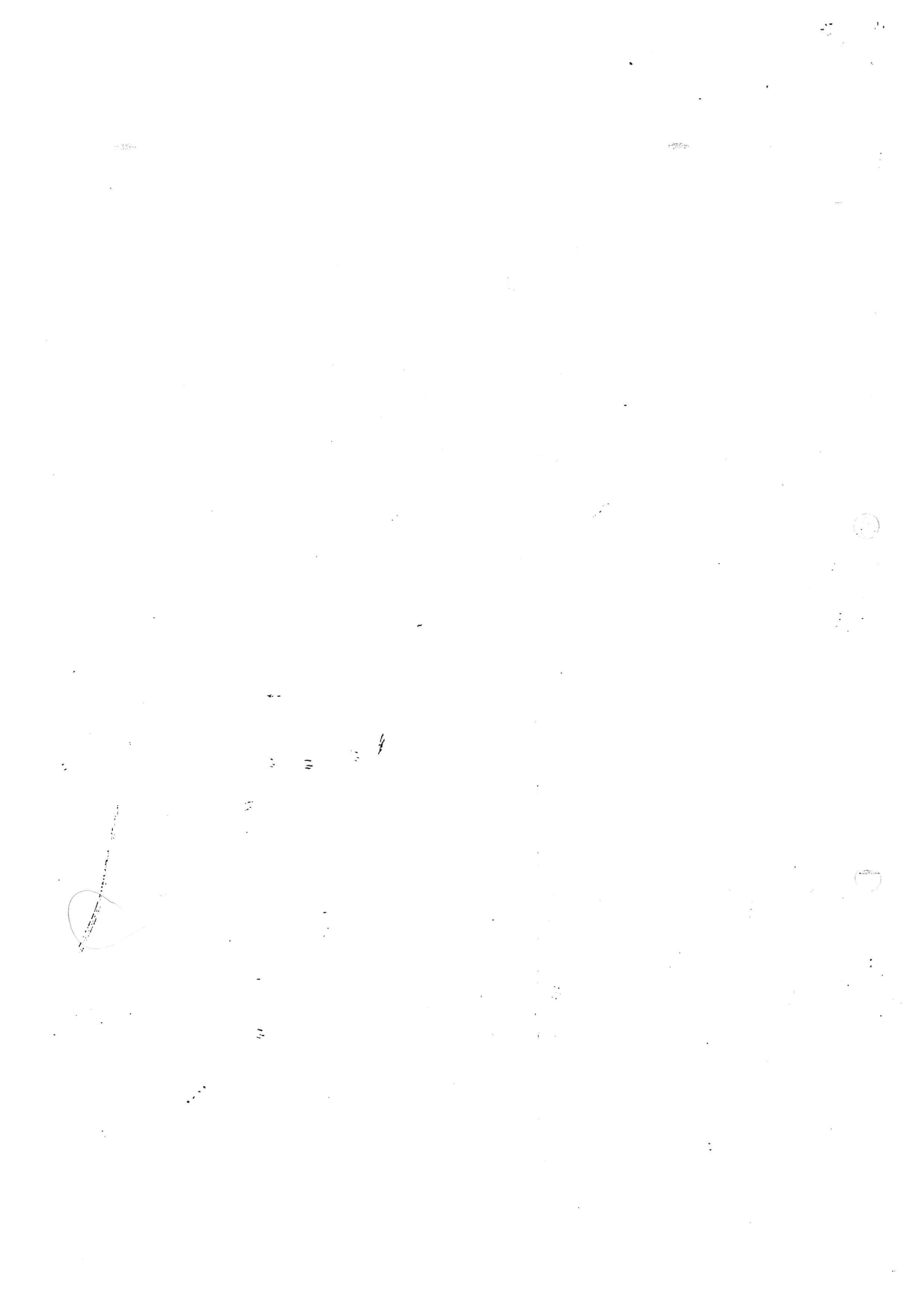
1. 3-petal/
2. 4-petal/
3. 5-petal/
4. 6-petal/
5. pea flower/
6. wattle/
7. eucalypt/
8. daisy/
9. dandelion-daisy/
10. clustered/
11. other/
12. spikelet/

- #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 / 5-8
- #51. <236> corolla / or inner perianth / <number of parts>/ 5

segments/

- #52. <240> corolla <sup>or inner perianth</sup> <whether parts joined or free>/  
 1. free <or almost so> <polysepalous>/  
 2. of joined and free segments <partially gamosepalous>/  
 3. joined <gamosepalous>/
- #53. <246?> corolla <sup>or inner perianth</sup> <where segments joined, shape>/  
 1. rotate/  
 2. 2-lipped/  
 3. campanulate/  
 4. tubular/  
 5. urceolate/  
 6. trumpet-like/  
 7. spurred/  
 8. ligulate/  
 9. lobed/
- #54. <255?> petals <sup>or inner perianth</sup> <or corolla lobes, whether incised>/  
 1. deeply bifid/  
 2. 2-lobed/  
 3. fringed/  
 4. entire/  
 5. emarginate/  
 6. several lobed/  
 7. <other, specify>
- #55. corolla <sup>or inner perianth</sup> <length, mm>/  
 mm long/ 5-9
- #56. <271> stamens <fertile, number>/ 10
- #57. <269> staminodes <number>/ 0
- #58. <265?> stamens <freedom>/  
 1. free/  
 2. fused/  
 3. some fused and some free/
- #59. stamens <insertion>/  
 1. opposite sepals/  
 2. opposite petals/  
 3. in continuous whorl/  
 4. on corolla tube/  
 5. in corolla throat/  
 6. free from corolla/
- #60. <283?> anthers dehiscing <mechanism>/  
 1. by pores/  
 2. by vertical slits/  
 3. by transverse slits/  
 4. by valves/  
 5. <other, specify>/
- #61. <316> ovary <gynoecium, constitution>/  
 1. monomerous <of a single carpel>/  
 2. apocarpous <of two or more free carpels>/  
 3. syncarpous <of two or more fused or partly fused carpels>/

- #62. <318> ovary <position>/  
 1. superior/  
 2. partly inferior/  
 3. inferior/
- #63. <326> ovary <locule number of syncarpous gynoecia>/  
 locular/ 5
- #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/ 5
- #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/ 3 7-9 <plus beak 25-40 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
- #75. [perianth <length, mm>  
 Floral whorl or



\*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/ *<disturbed areas>*
8. heath <not coastal>/
9. granite rocks/

#8. <text> <date> compiled/ *16.6.94*

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

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

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

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

#11. <C> <541> <plant> <height, m, including inflorescence>/  
m high/ *0.2 - 0.5*

#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/ *or*



- 2. opposite/
- 3. whorled/

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

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

#19. leaves <opposite, whether decussate>/

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

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

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

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

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

#22. <C> <542> leaves <total leaf length, mm>/  
mm long/ 50 - 175

#23. <C> <543> leaves <total leaf width, mm>/  
mm wide/ 25 - 75

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

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

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

- 1. dissected/ <5-7 lobed & further dissected> / each lobe
- 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/ <in outline>
- 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/

#31. <542> <simple leaves> blade <length, mm>/  
mm long/ 20-45

#32. <543> <simple leaves> blade <width, mm>/  
mm wide/ 25-75

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

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

#34. <compound 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/
- #35. <compound leaves> <leaflet> margin/
1. entire/
  2. crenate/
  3. serrate/
  4. dentate/
  5. denticulate/
- #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 / *<rarely>*
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> / *<twinned>*

#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*

#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*

#51. <236> corolla <number of parts>/ *5*

segments/

- #52. <240> corolla <whether parts joined or free>/  
 1. free <or almost so> <polysepalous>/  
 2. of joined and free segments <partially gamosepalous>/  
 3. joined <gamosepalous>/
- #53. <246?> corolla <where segments joined, shape>/  
 1. rotate/  
 2. 2-lipped/  
 3. campanulate/  
 4. tubular/  
 5. urceolate/  
 6. trumpet-like/  
 7. spurred/  
 8. ligulate/  
 9. lobed/
- #54. <255?> petals <or corolla lobes, whether incised>/  
 1. deeply bifid/  
 2. 2-lobed/  
 3. fringed/  
 4. entire/  
 5. emarginate/  
 6. several lobed/
- #55. corolla <length, mm>/  
 mm long/ 6-10
- #56. <271> stamens <fertile, number>/ 10
- #57. <269> staminodes <number>/ 0
- #58. <265?> stamens <freedom>/  
 1. free/  
 2. fused/  
 3. some fused and some free/
- #59. stamens <insertion>/  
 1. opposite sepals/  
 2. opposite petals/  
 3. in continuous whorl/  
 4. on corolla tube/  
 5. in corolla throat/  
 6. free from corolla/
- #60. <283?> anthers dehiscing <mechanism>/  
 1. by pores/  
 2. by vertical slits/  
 3. by transverse slits/  
 4. by valves/  
 5. <other, specify>/
- #61. <316> ovary <gynoecium, constitution>/  
 1. monomerous <of a single carpel>/  
 2. apocarpous <of two or more free carpels>/  
 3. syncarpous <of two or more fused or partly fused carpels>/

#62. <318> ovary <position>/

1. superior/
2. partly inferior/
3. inferior/

#63. <326> ovary <locule number of syncarpous gynoecia>/

locular/ 5 <mericarps>

#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/ 5

#68. <379, 381, 382> fruit <type>/

1. legume/
2. loment/
3. follicle/
4. achene/
5. samara/
6. nut/
7. drupe/
8. berry/
9. mericarps/
10. capsule/
11. silicule/
12. siliqua/
13. caryopsis/
14. <other, specify>/

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

1. dehiscent/
2. indehiscent/

#70. fruit <length, mm>/

mm long/ 2.5-3 <with beak 7-10 mm long>

#71. fruit <width, mm>/

mm wide/ ~~1.5-2~~

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





\*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/ (disturbed areas)
- 8. heath <not coastal>/
- 9. granite rocks/

#8. <text> <date> compiled/ 16.6.94

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

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

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

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

#11. <C> <541> <plant> <height, m, including inflorescence>/  
m high/ 0-0.5

#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/ or

2. opposite/
3. whorled/
- #18. <37> leaves <phyllotaxy, when alternate>/
1. spiral/
  2. distichous/
  3. 4-ranked/
  4. 3-ranked <tristichous>/
- #19. leaves <opposite, whether decussate>/
1. decussate/
  2. not decussate <implicit>/
- #20. <64?> stipule <presence>/
1. present <well developed, leaves stipulate>/
  2. absent <or much reduced, leaves exstipulate>/
- #21. <42> leaves <whether petiolate>/
1. petiolate/
  2. subsessile/
  3. sessile/
  4. perfoliate/
- #22. <C> <542> leaves <total leaf length, mm>/
- mm long/ 18 - 220
- #23. <C> <543> leaves <total leaf width, mm>/
- mm wide/ 15 - 35
- #24. <C> <50> leaves <whether simple or compound>/
1. simple <implicit>/
  2. compound/
- #25. <56> <simple leaves> blade <dissection>/
1. dissected/ <5-9 lobed, each lobe further divided or coarsely toothed>
  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/ <in outline> to
  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> reniform <in outline>
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/

#31. <542> <simple leaves> blade <length, mm>/  
mm long/ 8-20

#32. <543> <simple leaves> blade <width, mm>/  
mm wide/ 15-35

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

#34. <compound 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/

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

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

#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>/ *<twinned>*

#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*

#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/ *3-4*

#51. <236> corolla <number of parts>/ *5*

segments/

- #52. <240> corolla <whether parts joined or free>/
1. free <or almost so> <polysepalous>/
  2. of joined and free segments <partially gamosepalous>/
  3. joined <gamosepalous>/
- #53. <246?> corolla <where segments joined, shape>/
1. rotate/
  2. 2-lipped/
  3. campanulate/
  4. tubular/
  5. urceolate/
  6. trumpet-like/
  7. spurred/
  8. ligulate/
  9. lobed/
- #54. <255?> petals <or corolla lobes, whether incised>/
1. deeply bifid/
  2. 2-lobed/
  3. fringed/
  4. entire/
  5. emarginate/
  6. several lobed/
- #55. corolla <length, mm>/  
mm long/ 3-4
- #56. <271> stamens <fertile, number>/ 10
- #57. <269> staminodes <number>/ 0
- #58. <265?> stamens <freedom>/
1. free/
  2. fused/
  3. some fused and some free/
- #59. stamens <insertion>/
1. opposite sepals/
  2. opposite petals/
  3. in continuous whorl/
  4. on corolla tube/
  5. in corolla throat/
  6. free from corolla/
- #60. <283?> anthers dehiscing <mechanism>/
1. by pores/
  2. by vertical slits/
  3. by transverse slits/
  4. by valves/
  5. <other, specify>/
- #61. <316> ovary <gynoecium, constitution>/
1. monomerous <of a single carpel>/
  2. apocarpous <of two or more free carpels>/
  3. syncarpous <of two or more fused or partly fused carpels>/



#62. <318> ovary <position>/

1. superior/
2. partly inferior/
3. inferior/

#63. <326> ovary <locule number of syncarpous gynoecia>/  
locular/ S

#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/ S

#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 2 < plus beak 8-10 mm long >

#71. fruit <width, mm>/

mm wide/

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



\*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/ 16.6.94

- #9. <C> <5> <plant> <habit>/
- 1. tree/
  - 2. tree-like/
  - 3. shrub/
  - 4. climber/
  - 5. herb/
  - 6. grass-like/
  - 7. <other, specify>/

8. Sedge or rush-like

- #10. <19> <plant> <longevity in herbs>/
- 1. annual/
  - 2. biennial/
  - 3. perennial/

#11. <C> <541> <plant> <height, m, including inflorescence>/  
m high/ 0 - 0.3

- #12. <29?> <plant> <whether aquatic or terrestrial>/
- 1. aquatic <hydrophytic>/
  - 2. terrestrial <implicit>/

- #13. <30> <hydrophytic habit>/
- 1. marine/
  - 2. non-marine/

- #14. <32> leaves <of rooted hydrophytes> <habit>/
- 1. submerged/
  - 2. emergent/
  - 3. floating/

- #15. <C> <12> leaves <including phyllodes, presence>/
- 1. present <implicit>/
  - 2. much reduced/
  - 3. absent/

- #16. leaves <whether fasciculate>/
- 1. fasciculate/
  - 2. not fasciculate <implicit>/

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

2. opposite/  
3. whorled/
- #18. <37> leaves <phyllotaxy, when alternate>/  
1. spiral/  
2. distichous/  
3. 4-ranked/  
4. 3-ranked <tristichous>/
- #19. leaves <opposite, whether decussate>/  
1. decussate/  
2. not decussate <implicit>/
- #20. <64?> stipule <presence>/  
1. present <well developed, leaves stipulate>/  
2. absent <or much reduced, leaves exstipulate>/
- #21. <42> leaves <whether petiolate>/  
1. petiolate/  
2. subsessile/  
3. sessile/  
4. perfoliate/
- #22. <C> <542> leaves <total leaf length, mm>/  
mm long/ (15) 20 - 95
- #23. <C> <543> leaves <total leaf width, mm>/  
mm wide/ (10) 15 - 40
- #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 (in outline) to  
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/ *<uniform in outline>*
- 52. filiform/

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

- 1. twisted/
- 2. not twisted/

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

- 1. ciliate/
- 2. not ciliate/

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

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

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

- 1. entire/
- 2. crenate/
- 3. serrate/

4. dentate/
5. denticulate/

## 6. spiny-toothed

#31. <542> <simple leaves> blade <length, mm>/  
mm long/ (5) 10 - 25

#32. <543> <simple leaves> blade <width, mm>/  
mm wide/ (10) 15 - 40

#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/

b. 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>/ <twinned>

#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 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 4-6

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

or inner perianth 5

segments/

- #52. <240> corolla <sup>or inner perianth</sup> <whether parts joined or free>/  
1. free <or almost so> <polysepalous>/  
2. of joined and free segments <partially gamosepalous>/  
3. joined <gamosepalous>/
- #53. <246?> corolla <sup>or inner perianth</sup> <where segments joined, shape>/  
1. rotate/  
2. 2-lipped/  
3. campanulate/  
4. tubular/  
5. urceolate/  
6. trumpet-like/  
7. spurred/  
8. ligulate/  
9. lobed/
- #54. <255?> petals <sup>or inner perianth</sup> <or corolla lobes, whether incised>/  
1. deeply bifid/  
2. 2-lobed/  
3. fringed/  
4. entire/  
5. emarginate/  
6. several lobed/  
7. <other, specify>
- #55. corolla <sup>or inner perianth</sup> <length, mm>/  
mm long/ 4.5 - 10
- #56. <271> stamens <fertile, number>/ 10
- #57. <269> staminodes <number>/ 0
- #58. <265?> stamens <freedom>/  
1. free/  
2. fused/  
3. some fused and some free/
- #59. stamens <insertion>/  
1. opposite sepals/  
2. opposite petals/  
3. in continuous whorl/  
4. on corolla tube/  
5. in corolla throat/  
6. free from corolla/
- #60. <283?> anthers dehiscing <mechanism>/  
1. by pores/  
2. by vertical slits/  
3. by transverse slits/  
4. by valves/  
5. <other, specify>/
- #61. <316> ovary <gynoecium, constitution>/  
1. monomerous <of a single carpel>/  
2. apocarpous <of two or more free carpels>/  
3. syncarpous <of two or more fused or partly fused carpels>/

#62. <318> ovary <position>/

1. superior/
2. partly inferior/
3. inferior/

#63. <326> ovary <locule number of syncarpous gynoecia>/  
locular/ 5

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

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

1. apical/
2. lateral/
3. gynobasic/

#66. styles <whether simple or branched>/

1. simple/
2. branched/

#67. styles <number of branches>/  
branches/ 5

#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 3 < plus beak 8-15 mm long >

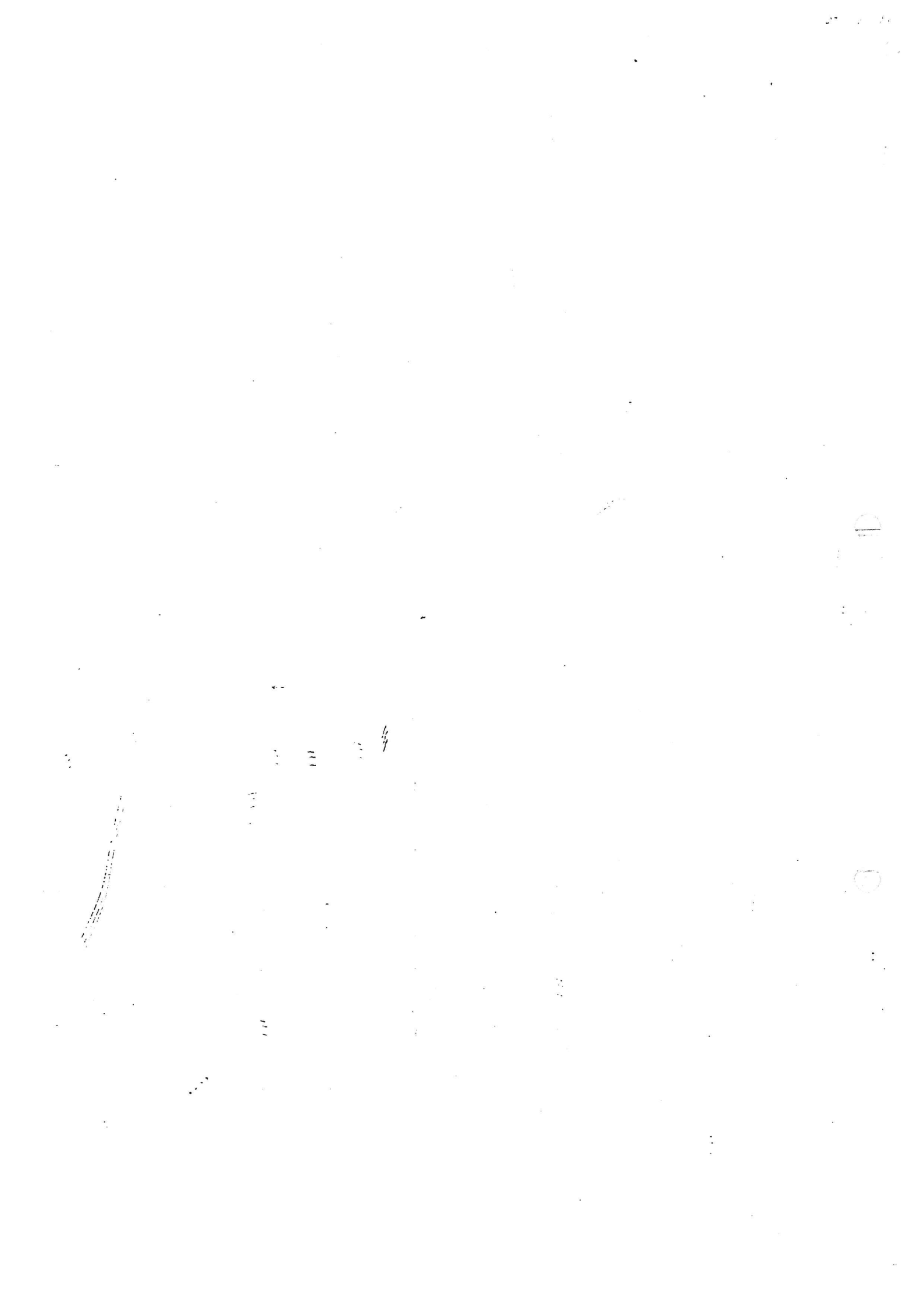
#71. fruit <width, mm>/  
mm wide/

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

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

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

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



\*CHARACTER LIST

#1. <supra group>/

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

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

1. native/
2. naturalised/

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

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

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

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

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

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

#6. flowers <flowering period>/

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

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

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

10. Riverine  
11. Estuarine

#8. <text> <date> compiled/ 16.6.94

- #9. <C> <S> <plant> <habit>/
- 1. tree/
  - 2. tree-like/
  - 3. shrub/
  - 4. climber/
  - 5. herb/
  - 6. grass-like/
  - 7. <other, specify>/

8. Sedge or rush-like

- #10. <19> <plant> <longevity in herbs>/
- 1. annual/
  - 2. biennial/
  - 3. perennial/

#11. <C> <541> <plant> <height, m, including inflorescence>/  
m high/ 0-0.3

- #12. <29?> <plant> <whether aquatic or terrestrial>/
- 1. aquatic <hydrophytic>/
  - 2. terrestrial <implicit>/

- #13. <30> <hydrophytic habit>/
- 1. marine/
  - 2. non-marine/

- #14. <32> leaves <of rooted hydrophytes> <habit>/
- 1. submerged/
  - 2. emergent/
  - 3. floating/

- #15. <C> <12> leaves <including phyllodes, presence>/
- 1. present <implicit>/
  - 2. much reduced/
  - 3. absent/

- #16. leaves <whether fasciculate>/
- 1. fasciculate/
  - 2. not fasciculate <implicit>/

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

2. opposite/
3. whorled/

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

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

#19. leaves <opposite, whether decussate>/

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

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

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

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

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

#22. <C> <542> leaves <total leaf length, mm>/  
mm long/ 20 - 105

#23. <C> <543> leaves <total leaf width, mm>/  
mm wide/ 10 - 65

#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 <is outline> to
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/ *reniform*
- 52. filiform/

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

- 1. twisted/
- 2. not twisted/

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

- 1. ciliate/
- 2. not ciliate/

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

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

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

- 1. entire/
- 2. crenate/
- 3. serrate/



4. dentate/
5. denticulate/

## 6. spiny-toothed

#31. <542> <simple leaves> blade <length, mm>/  
mm long/ 10-45

#32. <543> <simple leaves> blade <width, mm>/  
mm wide/ 10-65

#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>/ <twinned>

#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 <sup>or outer perianth</sup> / number of parts/ 5

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

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

#50. calyx <sup>or outer perianth</sup> / <length, mm>/  
mm long/ 4-6

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

segments/

- #52. <240> corolla <sup>or inner perianth</sup> <whether parts joined or free>/  
1. free ~~or almost so~~ <polysepalous>/  
2. of joined and free segments <partially gamosepalous>/  
3. joined <gamosepalous>/
- #53. <246?> corolla <sup>or inner perianth</sup> <where segments joined, shape>/  
1. rotate/  
2. 2-lipped/  
3. campanulate/  
4. tubular/  
5. urceolate/  
6. trumpet-like/  
7. spurred/  
8. ligulate/  
9. lobed/
- #54. <255?> petals <sup>or inner perianth</sup> <or corolla lobes, whether incised>/  
1. deeply bifid/  
2. 2-lobed/  
3. fringed/  
4. entire/  
5. emarginate/  
6. several lobed/  
7. <other, specify>
- #55. corolla <sup>or inner perianth</sup> <length, mm>/  
mm long/ 5-10
- #56. <271> stamens <fertile, number>/ 10
- #57. <269> staminodes <number>/ 0
- #58. <265?> stamens <freedom>/  
1. free/  
2. fused/  
3. some fused and some free/
- #59. stamens <insertion>/  
1. opposite sepals/  
2. opposite petals/  
3. in continuous whorl/  
4. on corolla tube/  
5. in corolla throat/  
6. free from corolla/
- #60. <283?> anthers dehiscing <mechanism>/  
1. by pores/  
2. by vertical slits/  
3. by transverse slits/  
4. by valves/  
5. <other, specify>/
- #61. <316> ovary <gynoecium, constitution>/  
1. monomerous <of a single carpel>/  
2. apocarpous <of two or more free carpels>/  
3. syncarpous <of two or more fused or partly fused carpels>/

#62. <318> ovary <position>/

1. superior/
2. partly inferior/
3. inferior/

#63. <326> ovary <locule number of syncarpous gynoecia>/  
locular/ 5

#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/ 5

#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 3 <plus beak 10-15 mm>

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

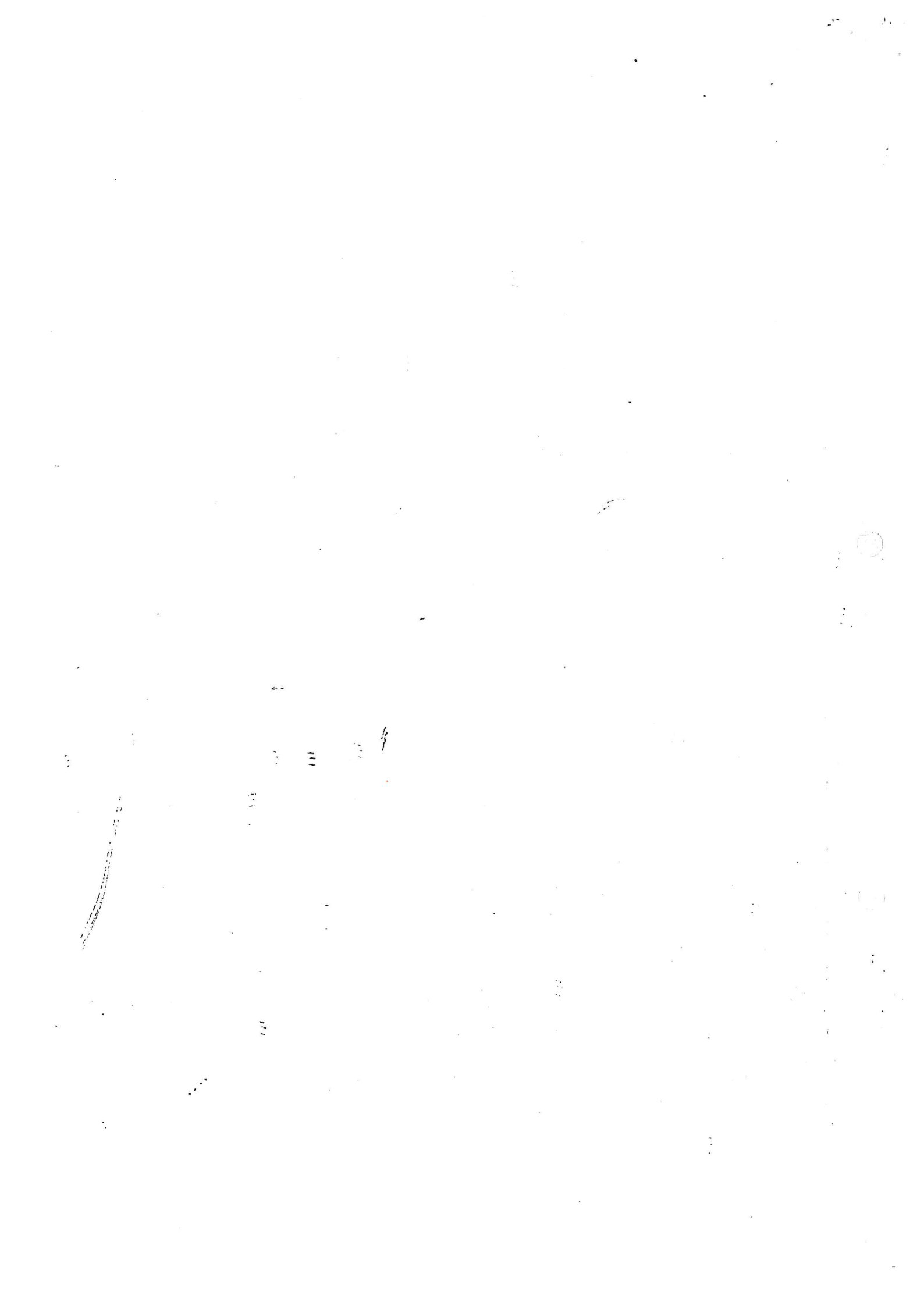
#72. <text> <complete description, added only at completion of flora>/

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/

- 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/

#8. <text> <date> compiled/ 15. 6. 94

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

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

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

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

#11. <C> <541> <plant> <height, m, including inflorescence>/  
m high/ 0-0.5

#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/ (basal)



2. opposite / <caulive>  
 3. whorled / <basal>

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

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

#19. leaves <opposite, whether decussate>/

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

#20. <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/ 25 - 200

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

mm wide/ 15 - 80

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

1. simple <implicit>/
2. compound/

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

1. dissected / <slightly ~~or~~ 5-7-lobed> or
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 / to
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/ *<often undulate>*
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/ 15-60

#32. <543> <simple leaves> blade <width, mm>/  
mm wide/ 15-80

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

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

#34. <compound 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/

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

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

#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>/ 5

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

1. free <or almost so> <polysepalous>/ 10
2. of joined and free segments <partially gamosepalous>/
3. joined <gamosepalous>/ <slightly>

#50. calyx <length, mm>/

mm long/ 5-8

#51. <236> corolla <number of parts>/ 5

segments/

- #52. <240> corolla <whether parts joined or free>/  
 1. free <or almost so> <polysepalous>/  
 2. of joined and free segments <partially gamosepalous>/  
 3. joined <gamosepalous>/
- #53. <246?> corolla <where segments joined, shape>/  
 1. rotate/  
 2. 2-lipped/  
 3. campanulate/  
 4. tubular/  
 5. urceolate/  
 6. trumpet-like/  
 7. spurred/  
 8. ligulate/  
 9. lobed/
- #54. <255?> petals <or corolla lobes, whether incised>/  
 1. deeply bifid/  
 2. 2-lobed/  
 3. fringed/  
 4. entire/  
 5. emarginate/  
 6. several lobed/
- #55. corolla <length, mm>/  
 mm long/ 8-14
- #56. <271> stamens <fertile, number>/ 6-8
- #57. <269> staminodes <number>/ 2-4
- #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/ 5
- #64. <333?> styles <number>/ 5
- #65. <336?> styles <insertion>/  
 1. apical/  
 2. lateral/  
 3. gynobasic/
- #66. styles <whether simple or branched>/  
 1. simple/ <joined>  
 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/ 3-4 (with beak 10-20 mm long)
- #71. fruit <width, mm>/  
 mm wide/ ~~1-2~~
- #72. <text> <complete description, added only at completion of flora>/





\*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/

#8. <text> <date> compiled/ 14.6.94

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

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

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

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

#11. <C> <541> <plant> <height, m, including inflorescence>/  
m high/ 0.1-1

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

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

#13. <30> <hydrophytic habit>/

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

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

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

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

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

#16. leaves <whether fasciculate>/

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

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

- 1. alternate/ or

2. opposite/
3. whorled/

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

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

#19. leaves <opposite, whether decussate>/

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

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

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

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

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

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

mm long/ 40 - 140

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

mm wide/ 20 - 80

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

1. simple <implicit>/
2. compound/

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

1. dissected/ <3-7-lobed>
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/ b
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/ <but undulate>
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/ <minutely>

- 4. dentate/
- 5. denticulate/

#31. <542> <simple leaves> blade <length, mm>/  
mm long/ 20 - 80

#32. <543> <simple leaves> blade <width, mm>/  
mm wide/ 20 - 80

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

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

#34. <compound 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/

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

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

#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>/ 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>/ <slightly>

#50. calyx <length, mm>/  
mm long/ 8-9

#51. <236> corolla <number of parts>/ 5

segments/

- #52. <240> corolla <whether parts joined or free>/  
 1. free <or almost so> <polysepalous>/  
 2. of joined and free segments <partially gamosepalous>/  
 3. joined <gamosepalous>/
- #53. <246?> corolla <where segments joined, shape>/  
 1. rotate/  
 2. 2-lipped/  
 3. campanulate/  
 4. tubular/  
 5. urceolate/  
 6. trumpet-like/  
 7. spurred/  
 8. ligulate/  
 9. lobed/
- #54. <255?> petals <or corolla lobes, whether incised>/  
 1. deeply bifid/  
 2. 2-lobed/  
 3. fringed/  
 4. entire/  
 5. emarginate/  
 6. several lobed/
- #55. corolla <length, mm>/  
 mm long/ 10-20
- #56. <271> stamens <fertile, number>/ (5) 6-8
- #57. <269> staminodes <number>/ 2-4(5)
- #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/ 5

#64. <333?> styles <number>/ 5

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

1. apical/
2. lateral/
3. gynobasic/

#66. styles <whether simple or branched>/

1. simple/ <joined>
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/ 5-6 (with beak a further 25-35 mm long)

#71. fruit <width, mm>/  
mm wide/ ~~5-6~~

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



\*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/ <disturbed area >

8. heath <not coastal>/

9. granite rocks/

#8. <text> <date> compiled/ 16.6.94

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

1. tree/

2. tree-like/

3. shrub/

4. climber/

5. herb/

6. grass-like/

7. <other, specify>/

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

1. annual/

2. biennial/

3. perennial/

#11. <C> <541> <plant> <height, m, including inflorescence>/  
m high/ 0.2-1

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

1. aquatic <hydrophytic>/

2. terrestrial <implicit>/

#13. <30> <hydrophytic habit>/

1. marine/

2. non-marine/

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

1. submerged/

2. emergent/

3. floating/

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

1. present <implicit>/

2. much reduced/

3. absent/

#16. leaves <whether fasciculate>/

1. fasciculate/

2. not fasciculate <implicit>/

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

1. alternate/

2. opposite/
  3. whorled/
- #18. <37> leaves <phyllotaxy, when alternate>/
1. spiral/
  2. distichous/
  3. 4-ranked/
  4. 3-ranked <tristichous>/
- #19. leaves <opposite, whether decussate>/
1. decussate/
  2. not decussate <implicit>/
- #20. <64?> stipule <presence>/
1. present <well developed, leaves stipulate>/
  2. absent <or much reduced, leaves exstipulate>/
- #21. <42> leaves <whether petiolate>/
1. petiolate/
  2. subsessile/
  3. sessile/
  4. perfoliate/
- #22. <C> <542> leaves <total leaf length, mm>/  
mm long/ 40 - 130
- #23. <C> <543> leaves <total leaf width, mm>/  
mm wide/ 40 - 100
- #24. <C> <50> leaves <whether simple or compound>/
1. simple <implicit>/
  2. compound/
- #25. <56> <simple leaves> blade <dissection>/
1. dissected/ <shallowly> or
  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/ *< ≠ undulate >*
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/ ~~40~~ 30-80

#32. <543> <simple leaves> blade <width, mm>/  
mm wide/ 40-100

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

#34. <compound 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/
- #35. <compound leaves> <leaflet> margin/
1. entire/
  2. crenate/
  3. serrate/
  4. dentate/
  5. denticulate/
- #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>/ 5
- #49. <222> calyx <whether parts joined or free>/  
 1. free <or almost so> <polysepalous>/ to  
 2. of joined and free segments <partially gamosepalous>/  
 3. joined <gamosepalous>/ <at base>
- #50. calyx <length, mm>/  
 mm long/ 15-30
- #51. <236> corolla <number of parts>/ 5

segments/

- #52. <240> corolla <whether parts joined or free>/  
 1. free <or almost so> <polysepalous>/  
 2. of joined and free segments <partially gamosepalous>/  
 3. joined <gamosepalous>/
- #53. <246?> corolla <where segments joined, shape>/  
 1. rotate/  
 2. 2-lipped/  
 3. campanulate/  
 4. tubular/  
 5. urceolate/  
 6. trumpet-like/  
 7. spurred/  
 8. ligulate/  
 9. lobed/
- #54. <255?> petals <or corolla lobes, whether incised>/  
 1. deeply bifid/  
 2. 2-lobed/  
 3. fringed/  
 4. entire/  
 5. emarginate/  
 6. several lobed/
- #55. corolla <length, mm>/  
 mm long/ 30-50
- #56. <271> stamens <fertile, number>/ 8
- #57. <269> staminodes <number>/ 2
- #58. <265?> stamens <freedom>/  
 1. free/  
 2. fused/  
 3. some fused and some free/
- #59. stamens <insertion>/  
 1. opposite sepals/  
 2. opposite petals/  
 3. in continuous whorl/  
 4. on corolla tube/  
 5. in corolla throat/  
 6. free from corolla/
- #60. <283?> anthers dehiscing <mechanism>/  
 1. by pores/  
 2. by vertical slits/  
 3. by transverse slits/  
 4. by valves/  
 5. <other, specify>/
- #61. <316> ovary <gynoecium, constitution>/  
 1. monomerous <of a single carpel>/  
 2. apocarpous <of two or more free carpels>/  
 3. syncarpous <of two or more fused or partly fused carpels>/

#62. <318> ovary <position>/

1. superior/
2. partly inferior/
3. inferior/

#63. <326> ovary <locule number of syncarpous gynoecia>/  
locular/ 5

#64. <333?> styles <number>/ 5

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

1. apical/
2. lateral/
3. gynobasic/

#66. styles <whether simple or branched>/

1. simple/ < fused >
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>/



*Pelargonium littorale*

\*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/

#8. <text> <date> compiled/ 16.6.94

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

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

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

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

#11. <C> <541> <plant> <height, m, including inflorescence>/  
m high/ 0-0.6

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

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

#13. <30> <hydrophytic habit>/

1. marine/
2. non-marine/

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

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

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

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

#16. leaves <whether fasciculate>/

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

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

1. alternate/

2. opposite/ <cauline>  
 3. whorled/ <basal>

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

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

#19. leaves <opposite, whether decussate>/

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

#20. <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/ 17 - 300

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

mm wide/ 10 - 80

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

1. simple <implicit>/
2. compound/

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

1. dissected/ <shallowly> to
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/ to
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/ *<marginately>*
3. serrate/



4. dentate/
5. denticulate/

#31. <542> <simple leaves> blade <length, mm>/  
mm long/ 7-35

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

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

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

#34. <compound 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/
- #35. <compound leaves> <leaflet> margin/
1. entire/
  2. crenate/
  3. serrate/
  4. dentate/
  5. denticulate/
- #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 <number of parts>/ 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>/ <slightly>

#50. calyx <length, mm>/

mm long/ 3-6

#51. <236> corolla <number of parts>/ 5

segments/

- #52. <240> corolla <whether parts joined or free>/
1. free <or almost so> <polysepalous>/
  2. of joined and free segments <partially gamosepalous>/
  3. joined <gamosepalous>/
- #53. <246?> corolla <where segments joined, shape>/
1. rotate/
  2. 2-lipped/
  3. campanulate/
  4. tubular/
  5. urceolate/
  6. trumpet-like/
  7. spurred/
  8. ligulate/
  9. lobed/
- #54. <255?> petals <or corolla lobes, whether incised>/
1. deeply bifid/
  2. 2-lobed/
  3. fringed/
  4. entire/
  5. emarginate/
  6. several lobed/
- #55. corolla <length, mm>/  
mm long/ 6-7
- #56. <271> stamens <fertile, number>/ 3-5
- #57. <269> staminodes <number>/ 7-5
- #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/ 5

#64. <333?> styles <number>/ 5

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

1. apical/
2. lateral/
3. gynobasic/

#66. styles <whether simple or branched>/

1. simple/ ~~simple~~ fused
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 3 (with beak 15-30 mm long)

#71. fruit <width, mm>/  
mm wide/ ~~ca 5~~

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

