

# Vegetation, nutrition and climate – data-tables

## (1) Natural vegetation – ecomorphological characters

Co-ordinator: R.L. Specht

Contributors	Contents	
D.H. Ashton, H.T. Clifford, L. Olsvig-Whittaker,	Australia (Tables 1-2)	14
D. Robertson, N. Scarlett, R.L. Specht (Southeastern and South Australia)	- South Australia (Tables 3-9)	16
	- Victoria (Tables 10-14)	23
L. Atkins, K. Dixon, R.J. Hobbs, A.J.M. Hopkins,	- Western Australia (Tables 15-18)	28
B.B. Lamont, R.L. Specht, R. Struthers (Southwestern Australia)	California and Arizona (Tables 19-27)	32
G.A. Scheid, C.A. Zammit, P.H. Zedler (California and Arizona)	Chile – Central (Tables 28-32)	41
R.A. Gajardo, G. Montenegro (Chile)	Mediterranean Basin (Table 33)	46
L. Amandier, C. Martinez, R.L. Specht (Corsica)	- Corsica (Tables 34-35)	47
C. Floret, F. Romane, L. Trabaud (France)	- France (Tables 36-37)	49
<u>M. Arianoutsou, S. Kokkini (Greece)</u>	- Greccc (Tables 38-39)	51
G. Orshan, A. Rabinovitz-Vyn (Israel)	- Israel (Tables 40-43)	54
P. Quezel (Mediterranean Basin)	- Portugal (Tables 44)	57
F.M. Catarino, A.J.V.D. Corrcia (Portugal)	- Spain (Tables 45-47)	58
E.J. Moll (South Africa)	South Africa – Cape Province (Table 48)	61
C.A. Gracia, J. Merino (Spain)		

Table 39. Ecomorphological characters: Greece.

Location: Stavros, Halkidiki, Northern Greece (40° 39' N, 23° 43' E, 20 m).

Vegetation structure: Maquis (low elevation), with evergreen sclerophyll tall shrubs.

Age since last fire: 25–30 years.

Nearest climate station: Vassilika, Thermi, Greece.

Soil: pH slightly acid 5.0–5.5, on metamorphic rocks of biotite gneiss and amphiboles.

Reference: Arianoutsou, M. and Mardiris, T.A., 1987. Observations on the phenology of two dominant plants of the Greek maquis. In: Tenhunen, J. D., Catarino, F.M., Lange, O.L. and Oechel, W.C. (eds) Plant Response to Stress—Functional Analysis in Mediterranean Ecosystems. Springer-Verlag, Berlin.

Compiler: M. Arianoutsou, July 1986.

## Character:

	<i>Arbutus unedo</i> (Ericaceae)	<i>Quercus coccifera</i> (Fagaceae)	<i>Quercus ilex</i> (Fagaceae)	<i>Phillyrea media</i> (Oleaceae)	<i>Erica arborea</i> (Ericaceae)	<i>Erica verticillata</i> (Ericaceae)	<i>Olea europaea</i> var. <i>oleaster</i> (Oleaceae)	<i>Calicotome villosa</i> (Fabaceae)
Foliage Projective Cover (%)	25	20	5	28	10	8	2	2
Density (mature plants ha <sup>-1</sup> )	3000	4000	1500	9000	5000	4000	1000	2000
Biomass (kg ha <sup>-1</sup> )	6270	13830		14210	3500	3000	2860	2500
1. Renewal buds	M	M	MM	MM	M	M	MM	M
2. Trophic type	1	1	1	1	1	1	1	2
3. Life duration (yrs)	5	5	5	4	4	4	6	4
4. Height (m)	5–6	5–6	8–9	8	5–6	5–6	8	6
5. Crown diameter (m)	5	5	5	4–5	5	5	5	5
6. Canopy density (%)	2	3	3	3–4	3	3	3	3
7. Photosynthetic organs	1	1	1	1	1	1	1	1
8. 'Leaf' size	5	3	4	3	1	1	3	3
9. 'Leaf' colour	1	1	1	1	1	1	2	1
10. 'Leaf' length (cm)	4	3	4	3	1	1	3	0.15–1.5
11. 'Leaf' width (mm)	7	6	7	6	3	2	5	4–6
12. 'Leaf' angle (°)	?	?	?	?	?	?	?	?
13. 'Leaf' margin	2	2	2	2	5	5	1	3
14. 'Leaf' surface resins	2	2	2	2	2	2	2	2
15. 'Leaf' glands	2	2	2	2	2	2	2	2
16. 'Leaf' consistency	2	3	3	3	3	3	3	2
17. 'Leaf' tomentosity	1	2	2	2	1	1	2	2
18. 'Leaf' stomata	2	2	2	2	2	2	2	2
19. 'Leaf' duration (yrs)	3	3	3	3	3	3	3	2 w/ 1 sl
20. 'Leaf' seasonality	1	1	1	1	1	1	1	2
21. 'Leaf' area: assim. stem area	1:0	1:0	1:0	1:0	1:0	1:0	1:0	1:1
22. Organs periodically shed	4	4	4	4	4	4	4	4
23. Organs shed – seasonality	----- all the year: peak season June–July ----- Jn							
24. Shoot growth – seasonality	Ap–Ma–e Jn			April–May				F–Ma
25. Stem – number from base	2 (5–10)	2 (4–5)	2 (4–5)	2 (4–5)	2 (8–10)	2 (8–10)	2 (1–3)	2 (1–2)
26. Stem – height (m)	–	–	–	–	–	–	–	–
27. Stem – diameter (cm)	5	2.5	2.5	3.5	4	4	5	1.5
28. Stem lignification	1	1	1	1	1	1	1	1
29. Bark consistency	1↔2	1↔2	1	1	2	2	1↔2	1↔2
30. Bark thickness (mm)	?	?	?	?	?	?	?	1
31. Bark shedding	?	?	?	?	?	?	?	?
32. Bark shedding – seasonality	?	?	?	?	?	?	?	?
33. Spinescence	4	2	2	4	4	4	4	1
34. Underground stems	1 (?)	1 (?)	1 (?)	1 (?)	1 (?)	1 (?)	1 (?)	?
35. Root morphology	?	?	?	?	?	?	?	?
36. Root modification	?	?	?	?	?	?	?	?
37. Rootlet modification	?	?	?	?	?	?	?	?
38. Root depth (cm)	?	?	?	?	?	?	?	?
39. Root spread (cm)	?	?	?	?	?	?	?	?
40. Veg. multiplication	1	1	1	1	1	1	1	1
41. Veg. regen. after fire	3	3	3	3	3	3	3	3
42. Flowering – seasonality	Oc–D	Mr–Ma	Ap–Ma	Ap–Ma	Mr–Ma	Aug–D	Ma–Jn	F–Ap
43. Flowering – pyrogenic	2	2	2	2	2	2	2	2
44. Fruit dehiscence	3	1	1	3	2	2	3	2
45. Seed dissemination	1	1	1	1	1	1	1	1
46. Seedling – germ. type	2	3	3	2	2	2	2	2
47. Plumule position	1	3	3	1	1	1	1	1
48. No. leaves per 10 cm stem	11	8	6	9	> 300	> 300	30	18

Abbreviations: J – January; F – February; M – March; Ap – April; Ma – May; Jn – June; Jl – July; Aug – August; S – September; Oc – October; N – November; D – December / e Jn – early June.

Code of Ecomorphological Characters: See Chapter 1.