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Floristic structure and other ecological attributes of flora of Dardyal Valley, district Swat, Hindukush range, Pakistan

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Supplementary Material

Table S1: Floristic configuration and ecological characteristics of Dardyal valley, District Swat.

s.no.	Division/Family/Species	Seasonality				Habitat	Habit	Lamina Shape	Life Form	Leaf Size	Spine
		A	W	S	SM						
A. Pterodophyta											
1. Adiantaceae											
1.	<i>Adiantum capillus-veneris</i> L.	+	+	+	+	M-R	Hb	C	H	N	—
2.	<i>Adiantum incisum</i> Forssk.	+	+	+	+	M-R	Hb	C	H	L	—
3.	<i>Adiantum radianum</i> C.Presl	+	+	+	+	M-F	Hb	C	H	N	—
4.	<i>Adiantum venustum</i> D.Don.	+	+	+	+	M-F	Hb	C	H	N	—
2. Aspleniaceae											
5.	<i>Asplenium adiantum-nigrum</i> L.	+	+	+	+	M-R	Hb	C	H	N	—
6.	<i>Asplenium trichomanes</i> L.	+	+	+	+	M-R	Hb	C	H	L	—
3. Dryopteridaceae											
7.	<i>Dryopteris juxtaposita</i> Christ.	+	+	+	+	M-F	Hb	C	H	L	—
8.	<i>Dryopteris ramosa</i> (C.Hope.) (C.Chr).	+	+	+	+	M-F	Hb	C	H	N	—
9.	<i>Dryopteris sieboldii</i> (T.Moore) Kuntze	+	—	+	+	W	Hb	C	H	N	—
10.	<i>Hypodematum crenatum</i> (Forssk.) Kuhn	+	+	+	+	M	Hb	C	H	N	—
4. Osmudaceae											
11.	<i>Osmunda claytoniana</i> L.	+	+	+	+	M-F	Hb	C	H	Mic	—
5. Equisitaceae											
12.	<i>Equisetum arvense</i> L.	+	+	+	+	W	Hb	Ab	H	Aph	—
13.	<i>Equisetum ramosissimum</i> Desf.	+	+	+	+	M	Hb	Ab	G	Aph	—

6. Pteridaceae											
14.	<i>Pteridium aquilinum</i> (L.) Kuhn.	+	+	+	+	W-F	Hb	C	G	Mic	—
15.	<i>Pteris critica</i> L.	+	+	+	+	M-F	Hb	C	H	Mic	—
B. Gymnosperm											
7. Cupressaceae											
16.	<i>Cupressus sempervirens</i> L.	+	+	+	+	I	Tr	N	Micp	L	—
17.	<i>Juniperus communis</i> L.	+	+	+	+	D	Tr	N	Micp	L	—
18.	<i>Platyclusorientalis</i> (L.) Franco	+	+	+	+	I	Tr	N	Np	L	—
8. Pinaceae											
19.	<i>Abiespindrow</i> (Royle ex. D. Don.) Royle.	+	+	+	+	F	Tr	N	Megp	L	—
20.	<i>Cedrusdeodara</i> (Roxb. ex D. Don) G. Don.	+	+	+	+	F	Tr	N	Megp	L	—
21.	<i>Pinus roxburghii</i> Sarg.	+	+	+	+	F	Tr	N	Mesp	L	—
22.	<i>Pinus Wallichiana</i> A. B. Jackson.	+	+	+	+	F	Tr	N	Megp	L	—
9. Taxaceae											
23.	<i>Taxus wallichiana</i> Zucc.	+	+	+	+	F	Tr	S	Megp	N	—
24.	<i>Taxus fauna</i> Nan Li & R. R. Mill	+	+	+	+	F	Tr	S	Megp	N	—
C. Angiosperms (Dicots)											
10. Adoxaceae											
25.	<i>Viburnum grandiflorum</i> Wall. ex DC	+	+	+	+	F	Sb	S	Np	Mic	—
11. Amaranthaceae											
26.	<i>Achyranthes aspera</i> L.	+	+	—	+	WP-A	Hb	S	Th	Mic	—
27.	<i>Alternanthera pungens</i> Kunth	+	—	+	+	WP	Hb	S	Th	Mic	—
28.	<i>Amaranthus spinosus</i> L.	—	—	—	+	WP-A	Hb	S	Th	Mic	+
29.	<i>Amaranthus viridis</i> L.	—	—	—	+	A-D	Hb	S	Th	Mic	—
30.	<i>Celosia argentea</i> L.	—	—	—	+	WP	Hb	S	Th	N	—
31.	<i>Digeramuricata</i> (L.) Mart.	—	—	—	+	R	Hb	S	Th	Mic	—
12. Anacardiaceae											
32.	<i>Cotinus coggyria</i> Scop.	+	+	+	+	D	Sb	S	Np	Mes	—
33.	<i>Pistacia chinensis</i> Burge	+	+	+	+	D-F	Tr	C	Micp	Mic	—
34.	<i>Rhuspunjabensis</i> J. L. Stewart ex. Brandis.	+	+	+	+	F	Tr	C	Micp	Mes	—
35.	<i>Rhuscoggyria</i> L.	+	+	+	+	F	Tr	C	Micp	Mic	—
13. Apiaceae											
36.	<i>Ammi visnaga</i> (L.) Lam.	—	+	+	+	F-D	Hb	S	Ch	N	—
37.	<i>Coriandrum sativum</i> L.	—	+	+	—	CU	Hb	Dis	Th	L	—
38.	<i>Eryngium caeruleum</i> M. Bieb	+	—	—	+	W	Hb	S	Th	N	—
39.	<i>Foeniculum vulgare</i> Mill.	+	—	+	+	A	Hb	Dis	Th	L	—
40.	<i>Heracleum candicans</i> Wall. ex DC.	+	—	+	+	A-D	Hb	C	Th	Mic	—
41.	<i>Oenanthe javanica</i> (Blume) DC.	+	—	+	+	W	Hb	C	Th	N	—

42.	<i>Scandix pecten-veneris</i> L.	-	-	+	+	A	Hb	Dis	Th	L	-
43.	<i>Trachyspermum mammi</i> (L.) Sprague.	-	-	+	+	D	Hb	S	Ch	N	-
14. Apocynaceae											
44.	<i>Nerium oleander</i> L.	+	+	+	+	D	Sb	S	Np	Mes	-
15. Araliaceae											
45.	<i>Hedera nepalensis</i> K.koch	+	+	+	+	F-GY- W	Sb	S	Np	Mes	-
16. Asteraceae											
46.	<i>Artemisia absinthium</i> L.	+	-	-	+	WP	Hb	Dis	Th	N	-
47.	<i>Artemisia scoparia</i> Waldst. & Kitam.	+	-	-	+	D	Hb	Dis	Th	Mic	-
48.	<i>Bidens pilosa</i> L.	+	-	-	+	D	Hb	Dis	Th	L	-
49.	<i>Calendula arvensis</i> M. Bieb.	+	-	-	+	A-R	Hb	S	Th	Mic	-
50.	<i>Calendula palaestina</i> Boiss.	-	-	+	+	A-W	Hb	S	Th	Mic	-
51.	<i>Cardus edelbergii</i> Rech.f.	-	-	+	+	D	Hb	Dis	Th	Mes	+
52.	<i>Carthamus oxycantha</i> M.Bieb.	-	-	+	+	A	Hb	S	Th	Mic	+
53.	<i>Centaurea iberica</i> (Trevir. ex Spreng).	+	-	+	+	D-WP	Hb	Dis	The	Mic	+
54.	<i>Cichorium intybus</i> L.	-	-	+	+	A	Hb	S	Th	N	-
55.	<i>Cirsium arvense</i> (L.) Scop.	-	-	+	+	D	Hb	S	Th	Mic	-
56.	<i>Cirsium falconeri</i> (HK.f.) Petrak.	-	-	+	+	D	Hb	Dis	H	Mes	+
57.	<i>Centaurea benedictus</i> L.	-	-	+	+	D	Hb	Dis	H	Mes	+
58.	<i>Duhaldeacuspidata</i> (Wall.ex DC.) Anderb.	-	-	+	+	D	Hb	S	Th	Mes	-
59.	<i>Erigeron canadensis</i> L.	-	-	-	+	D	Hb	S	Th	Mic	-
60.	<i>Filago hordwarica</i> (Wall. ex DC.) Wagenitz.	-	-	-	+	D	Hb	S	Th	L	-
61.	<i>Galinsoga parviflora</i> Cav.	-	-	-	+	W	Hb	S	Th	Mic	-
62.	<i>Helianthus annuus</i> L.	+	-	-	+	A	Hb	S	Th	Mac	-
63.	<i>Inularia cernua</i> Hook.f.	-	-	-	+	WP	Hb	S	Th	Mes	-
64.	<i>Parthenium hysterophorus</i> L.	+	-	-	+	WP	Hb	Dis	Th	Mic	-
65.	<i>Pseudognaphalium affine</i> (D.Don) Anderb.	-	-	+	+	D	Hb	S	Th	N	-
66.	<i>Scorzonera virgata</i> DC.	-	-	+	+	D	Hb	S	Th	L	-
67.	<i>Senecio chrysanthemoides</i> DC.	-	-	+	+	D-R	Hb	Dis	Th	Mic	-
68.	<i>Silybum marianum</i> (L.) Gaertn.	-	-	+	+	WP	Hb	Dis	Ch	Mes	+
69.	<i>Sonchus asper</i> (L.) Hill.	-	-	+	+	A	Hb	Disc	The	Mic	-
70.	<i>Sonchus oleraceus</i> (L.) L.	-	-	+	+	A	Hb	Dis	Th	Mic	-
71.	<i>Tagetes erecta</i> L.	+	-	+	+	WP	Hb	C	Th	N	-
72.	<i>Taraxacum officinale</i> (L.) (Weber F.H. Wigg).	-	-	+	+	D	Hb	S	The	Mic	-
73.	<i>Xanthium strumarium</i> L.	+	-	+	+	WP	Hb	S	Th	Mes	+
74.	<i>Youngia japonica</i> (L.) DC.	-	-	+	+	A	Hb	Dis	Th	Mic	-
17. Balsaminaceae											
75.	<i>Impatiens bicolor</i> Royle	-	-	-	+	W	Hb	S	Th	Mes	-
76.	<i>Impatiens meeboldii</i> Hook. f.	-	-	-	+	M	Hb	S	Th	Mic	-

18. Betulaceae											
77.	<i>Alnusnitida</i> (spach) Endl.	+	+	+	+	W	Tr	S	Megp	Mic	–
19. Berberidaceae											
78.	<i>Berberis jaeschkeana</i> C.K.Schneid.	+	+	+	+	D	Sb	S	Np	N	+
79.	<i>Berberis lycium</i> Royle	+	+	+	+	F	Sb	S	Np	N	+
80.	<i>Berberis pseudumbellata</i> R.Parker	+	+	+	+	D	Sb	S	Np	N	+
20. Boraginaceae											
81.	<i>Anchusa arvensis</i> (L.) M.Bieb	–	–	+	+	A-D	Hb	S	Th	Mic	+
82.	<i>Buglossoides arvensis</i> (L.) I.M. Johnst.	–	–	+	+	A-WP	Hb	S	Th	N	–
83.	<i>Cynoglossum lanceolatum</i> Forssk.	–	–	–	+	A-D	Hb	S	H	N	–
84.	<i>Cynoglossum wallichii</i> G.Don.	–	–	–	+	A	Hb	S	Th	N	–
85.	<i>Heliotropium bacciferum</i> Forssk.	–	+	+	–	W	Hb	S	G	L	–
86.	<i>Lindelofia longiflora</i> (Benth.) Baill.	–	–	+	+	A-D	Hb	S	Th	N	–
87.	<i>Nonea edgeworthii</i> A. DC.	–	–	+	+	A	Hb	S	Th	N	–
88.	<i>Nonea pulla</i> (L.) DC.	–	–	+	+	F-D	Hb	S	Th	N	–
89.	<i>Onosmaechiodes</i> L.	–	–	+	+	D	Hb	S	Th	N	–
90.	<i>Onosma hispidum</i> (Wall.exG. Don).	+	–	–	+	Dy	Hb	S	The	Mic	–
21. Brassicaceae											
91.	<i>Alliaria petiolata</i> (M. Bieb.) Cavara & Grande.	–	–	+	+	A	Hb	S	Th	N	–
92.	<i>Arabidopsis thaliana</i> (L.) Heynh.	–	–	+	+	A	Hb	S	The	N	–
93.	<i>Arabis nova</i> Vill.	–	–	+	+	A	Hb	S	Th	N	–
94.	<i>Brassica rapa</i> L.	–	–	+	–	CU	Hb	Dis	Th	L	–
95.	<i>Brassica nigra</i> (L.) K. Koch	–	–	+	–	A	Hb	Dis	Th	N	–
96.	<i>Capsella bursa-pastoris</i> (L.) Medik.	–	–	+	–	WP	Hb	S	Th	Mes	–
97.	<i>Cardamine cheilodonia</i> L.	–	–	+	+	D	Hb	S	Th	L	–
98.	<i>Cardamine hirsuta</i> L.	–	–	+	+	D	Hb	C	Th	N	–
99.	<i>Cardamine pensylvanica</i> Muhl.exWilld.	–	–	+	+	D	Hb	S	Th	N	–
100.	<i>Cardamine macrophylla</i> Willd.	–	–	+	+	A	Hb	C	Th	N	–
101.	<i>Descurainia sophia</i> (L.) Webb ex Prantl	–	–	+	+	A-D	Hb	C	Th	L	–
102.	<i>Eruca vesicaria</i> (L.)Cav.	–	–	+	+	WP	Hb	C	Th	Mic	–
103.	<i>Lepidium apetalum</i> Willd.	–	–	+	+	WP	Hb	S	Th	N	–
104.	<i>Nasturtium officinale</i> R.Br.	+	–	+	+	W	Hb	C	G	Mic	–
105.	<i>Rorippa islandica</i> (Oeder) Borbas	–	–	+	+	W	Hb	S	Th	L	–
106.	<i>Sisymbrium irio</i> L.	–	–	+	+	WP	Hb	Dis	Th	N	–
107.	<i>Turritis glabra</i> L.	–	+	+	+	A	Hb	S	Th	N	–
108.	<i>Thlaspi arvense</i> L.	–	–	+	+	WP	Hb	S	Th	Mic	–
22. Buxaceae											
109.	<i>Buxus wallichiana</i> Baillon	+	+	+	+	D-F	Sb	S	Np	Mic	–
110.	<i>Sarcococca prunifolia</i> Lindl.	+	+	+	+	D-F	Sb	S	Np	Mic	–

23. Cactaceae											
111.	<i>Opuntia monacantha</i> (Willd.) Haw.	+	+	+	+	D	Hb	Sp	Ch	Aph	+
24. Ceasalpinaceae											
112.	<i>Caesalpinia decapetala</i> (Roth.) Alston	+	+	+	+	D	Tr	C	Micp	Mic	+
25. Canabaceae											
113.	<i>Cannabis sativa</i> L.	-	-	+	+	WP	Hb	C	Th	Mic	-
26. Caryophyllaceae											
114.	<i>Cerastium dichotomum</i> L.	-	-	+	+	D-A	Hb	S	Th	N	-
115.	<i>Lepyrodicli sholosteoides</i> (C.A.Mey) Frenzlex.Fisch. & C.A.Mey.	-	-	+	+	D-A	Hb	S	Th	N	-
116.	<i>Stellaria media</i> (L.) Vill.	-	-	+	+	A	Hb	S	Th	N	-
117.	<i>Silene conoidea</i> L.	-	-	+	+	A	Hb	S	Th	Mic	-
118.	<i>Spergularia marina</i> (L.) Besser	-	-	+	+	M-A	Hb	S	Th	N	-
119.	<i>Vaccaria hispanica</i> (Mill.) Rauschert	+	-	-	+	W-A	Hb	S	Th	Mic	-
27. Chenopodiaceae											
120.	<i>Chenopodium album</i> L.	-	-	-	+	A	Hb	S	Th	Mes	-
121.	<i>Chenopodium murale</i> L.	-	-	-	+	WP	Hb	Dis	Th	Mes	-
122.	<i>Dysphania ambrosioides</i> (L.) Mosyakin&Clemants	-	-	+	+	D	Hb	Dis	Th	Mes	-
123.	<i>Dysphania botrys</i> (L.) Mosyakin&Clemants	-	-	+	+	WP	Hb	Dis	Th	Mes	-
124.	<i>Spinacia oleracea</i> L.	-	+	+	+	CU	Hb	S	Th	Mes	-
28. Convolvulaceae											
125.	<i>Convolvulus arvensis</i> L.	-	-	+	+	A-D	Hb	S	Th	Mic	-
126.	<i>Convolvulus prostratus</i> Forssk.	-	+	+	-	F-A	Hb	S	Th	Mic	-
127.	<i>Evolvulus alsinoides</i> (L.) L.	-	+	+	-	F	Hb	S	Th	Mic	-
128.	<i>Ipomoea eriocarpa</i> R.Br.	+	-	-	+	A	Hb	S	Th	Micr	-
129.	<i>Ipomoea habeliana</i> Oliv.	-	-	+	+	M-A	Hb	S	The	Mic	-
130.	<i>Ipomoea purpurea</i> (L.) Roth	+	-	+	+	A	Hb	S	Th	Mic	-
29. Cucurbitaceae											
131.	<i>Cucurbita maxima</i> Duchesne.	+	-	-	+	CU	Hb	Dis	Th	Mega	-
132.	<i>Cucurbita pepo</i> L.	+	-	-	+	CU	Hb	Dis	Th	Meg	-
133.	<i>Cucumis sativus</i> L.	+	-	-	+	CU	Hb	Dis	Th	Mac	-
134.	<i>Lagenaria siceraria</i> (Molina) Standl.	+	-	-	+	CU	Hb	S	Th	Mac	-
135.	<i>Luffa cylindrica</i> (L.) Roem.	+	-	-	+	CU	Hb	S	Th	Mac	-
30. Cuscutaceae											
136.	<i>Cuscuta reflexa</i> Roxb.	+	-	+	+	Ep	Hb	Ab	P	Aph	-
31. Ebenaceae											
137.	<i>Diospyros kaki</i> L.f.	+	+	+	+	D-CU	Tr	S	Mesp	Mes	-

138.	<i>Diospyros lotus</i> L.f.	+	+	+	+	I-W	Tr	S	Mesp	Mes	—
32. Euphorbiaceae											
139.	<i>Euphorbia helioscopa</i> L.	+	—	+	+	A-D	Hb	S	Th	N	—
140.	<i>Euphorbia peplus</i> L.	—	—	—	+	A-D	Hb	S	Th	L	—
141.	<i>Euphorbia prostrata</i> Aiton	—	+	+	—	A-D	Hb	S	Th	L	—
142.	<i>Leptopus cordifolius</i> Decne.	+	+	+	+	F-D	Sb	S	Np	N	—
143.	<i>Ricinus communis</i> L.	+	+	+	+	WP	Hb	Dis	Np	Mac	+
33. Fabaceae											
144.	<i>Aeschynomene indica</i> L.	—	—	+	+	F	Hb	C	Th	N	—
145.	<i>Arachis hypogea</i> L.	—	—	+	+	CU	Hb	C	G	N	—
146.	<i>Astragalus grahamianus</i> Benth.	+	+	+	+	D	Sb	C	Np	N	—
147.	<i>Astragalus pyrrhotrichus</i> Bioss.	+	+	+	+	D	Sb	C	Np	L	—
148.	<i>Indigofera heterantha</i> Brandis	+	+	+	+	F-D	Sb	C	Np	L	—
149.	<i>Lathyrus saphacal</i> L.	—	—	+	+	A	Hb	C	Th	N	—
150.	<i>Lathyrus sphaericus</i> Retz.	—	—	+	+	A-D	Hb	C	Th	N	—
151.	<i>Lens calinaria</i> Medik.	—	—	+	+	A-D	Hb	C	Th	L	—
152.	<i>Medicago polymorpha</i> L.	—	—	+	+	A-D	Hb	C	Th	N	—
153.	<i>Melilotus indicus</i> (L.) All.	—	—	+	+	A	Hb	C	Th	N	—
154.	<i>Phaseolus lunatus</i> L.	—	—	+	+	CU	Hb	C	Th	Mic	—
155.	<i>Pisum sativum</i> L.	—	—	+	+	CU	Hb	C	Th	Mic	—
156.	<i>Robiniapseuduacacia</i> L.	+	+	+	+	D	Tr	C	Mesp	Mic	+
157.	<i>Trifolium dobium</i> Sibth.	—	—	+	+	A-M	Hb	C	H	N	—
158.	<i>Trifolium repens</i> L.	—	+	+	+	CU	Hb	Comp	H	N	—
159.	<i>Viciamonantha</i> Retz.	—	—	+	+	A-D	Hb	C	Th	N	—
160.	<i>Vicia sativa</i> L.	—	—	+	+	A	Hb	C	Th	N	—
34. Fagaceae											
161.	<i>Quercus baloot</i> Griff.	+	+	+	+	F-D	Tr	S	Mesp	Mic	+
162.	<i>Quercus floribunda</i> Lindl. ex A.Camus	+	+	+	+	F-D	Tr	S	Mesp	Mic	—
163.	<i>Quercus incana</i> Bartram	+	+	+	+	GY	Tr	S	Mesp	Mic	—
164.	<i>Quercus semecarpifolia</i> Sm.	+	+	+	+	F-D	Tr	S	Mesp	Mic	—
35. Fumaraceae											
165.	<i>Corydalis diphylla</i> Wall.	—	—	+	+	F	Hb	C	G	N	—
166.	<i>Corydalis cornuta</i> .Royle	—	—	+	+	F	Hb	C	H	N	—
167.	<i>Fumaria indica</i> (Huausskn.) Pugsley	—	—	+	+	A-WP	Hb	Dis	Th	L	—
36. Geraniaceae											
168.	<i>Erodium ciconium</i> (L.) L'Hér.	—	+	+	—	W	Hb	Dis	Th	Mic	—
169.	<i>Erodium cicutarium</i> (L.) L'Hér.	—	+	+	—	W	Hb	Dis	Th	Mic	—
170.	<i>Geranium nepalense</i> Sweet.	—	—	+	+	F	Hb	Dis	Th	Mes	—
171.	<i>Geranium mascatense</i> Boiss.	—	—	+	+	M	Hb	Dis	Th	Mic	—
172.	<i>Geranium rotundifolium</i> L.	—	—	+	—	D	Hb	Dis	Th	Mic	—
37. Juglandaceae											

173.	<i>Juglans regia</i> L.	+	+	+	+	D	Tr	C	Megp	Mic	—
38. Limiaceae											
174.	<i>Ajuga integrifolia</i> Buch.-Ham.	—	—	+	+	D	Hb	S	H	Mic	—
175.	<i>Ajuga parviflora</i> Beth.	—	—	+	+	D	Hb	S	Th	Mic	—
176.	<i>Lamium ampexicaule</i> L.	—	—	+	+	W	Hb	S	G	N	—
177.	<i>Mentha arvensis</i> L.	—	—	+	+	W	Hb	S	G	N	—
178.	<i>Mentha longifolia</i> (L.) L.	—	—	+	+	WP	Hb	S	Th	L	—
179.	<i>Ocimum basilicum</i> L.	+	—	+	+	CU	Hb	S	Th	N	—
180.	<i>Isodon rugosa</i> (Wall. ex Benth.) Codd	+	+	+	+	D	Sb	S	Np	N	—
181.	<i>Salvia moorcroftiana</i> Wall. ex Benth.	+	—	+	+	D	Hb	S	Th	Mac	—
182.	<i>Scutellaria edelbergii</i> Rech.f.	+	—	+	+	D	Hb	S	Th	N	—
183.	<i>Scutellaria petiolata</i> Hemsl. ex Lace & Prain	+	—	—	+	A-D	Hb	S	Th	Mic	—
184.	<i>Teucrium royleanum</i> Wall. ex Benth.	+	—	—	+	D-W	Hb	S	Th	Mes	—
185.	<i>Teucrium stocksianum</i> Bioss.	+	—	+	+	D-W	Hb	S	H	L	—
186.	<i>Thymus linearis</i> Benth.	—	—	—	+	D	Hb	S	Th	L	—
187.	<i>Vitex negundo</i> L.	+	+	+	+	D	Sb	S	Np	Mic	—
39. Malvaceae											
188.	<i>Abelmoschus esculentus</i> (L.) Moench	+	—	—	+	CU	Hb	Dis	Th	Mic	—
189.	<i>Hibiscus trivonum</i> L.	—	—	+	+	A	Hb	S	Th	Mes	—
190.	<i>Malva neglecta</i> Waller.	—	—	+	+	A	Hb	Dis	Th	Mic	—
191.	<i>Malvastrum coromendelianum</i> (L.) Garcke	—	—	+	+	A-F	Hb	S	Th	Mic	—
40. Meliaceae											
192.	<i>Cedrela serrata</i> Royle.	+	+	+	+	GY-M	Tr	C	Mesp	Mes	—
193.	<i>Melia azedarach</i> L.	+	+	+	+	A-D	Tr	C	Megp	N	—
41. Mimosaceae											
194.	<i>Acacia modesta</i> Wall.	+	+	+	+	D	Tr	C	Micp	N	+
195.	<i>Acacia nilotica</i> (L.) Delile	+	+	+	+	D	Tr	C	Mesp	N	+
42. Moraceae											
196.	<i>Broussonetiapapyrifera</i> (L.) L'Hér. ex Vent.	+	+	+	+	A-W	Tr	S	Mesp	Mes	—
197.	<i>Ficus auriculata</i> Lour.	+	+	+	+	D-R	Tr	S	Mesp	Mes	—
198.	<i>Ficus carica</i> L.	+	+	+	+	A-D	Tr	S	Micp	Mes	—
199.	<i>Morus alba</i> L.	+	+	+	+	A	Tr	S	Meg	Mesp	—
200.	<i>Morus macroura</i> Miq.	+	+	+	+	A	Tr	S	Megp	Mes	—
201.	<i>Morus nigra</i> L.	+	+	+	+	A	Tr	S	Mesp	Mes	—
43. Myrtaceae											
202.	<i>Eucalyptus camaldulensis</i> Dehnh.	+	+	+	+	D	Tr	S	Megp	Mic	—
44. Nyctaginaceae											
203.	<i>Mirabilis jalapa</i> L.	+	—	+	+	M	Hb	S	NP	Mes	—

45. Oleaceae											
204.	<i>Jasminum humile</i> L.	+	+	+	+	D	Sb	C	Np	Mic	–
205.	<i>Jasminum mesnyi</i> Hance	+	+	+	+	A	Sb	C	Np	Mic	–
206.	<i>Olea ferruginea</i> (Wall. Ex Aitch).	+	+	+	+	GY-D	Tr	S	Mesp	Mic	–
46. Onagraceae											
207.	<i>Oenothera rosea</i> (L. Her. ex. Aiton).	+	–	+	+	D	Hb	S	H	Mes	–
47. Oxalidaceae											
208.	<i>Oxalis acetosella</i> L.	+	–	+	+	A-M	Hb	C	Th	N	–
48. Papaveraceae											
209.	<i>Papaver dubium</i> L.	–	–	+	+	A	Hb	Dis	Th	Mic	–
210.	<i>Papaver pavoninum</i> C.A.Mey.	–	–	+	+	A-M	Hb	Dis	Th	Mes	–
211.	<i>papaversomniferum</i> L.	–	–	+	+	A	Hb	Dis	Th	Mes	–
49. Plantaginaceae											
212.	<i>Plantago major</i> L.	–	–	+	+	W	Hb	S	Th	Mes	–
213.	<i>Plantagolanceolata</i> L.	–	–	+	+	A-W	Hb	S	Th	Mes	–
50. Platanaceae											
214.	<i>Platanusorientalis</i> L.	+	+	+	+	F-D	Tr	Dis	Megp	Mes	–
51. Polygonaceae											
215.	<i>Persicaria maculosa</i> Gray	+	–	+	+	W	Hb	S	Th	Mic	–
216.	<i>Persicarianepalense</i> (Meisn.) Miyabe	+	–	+	+	W	Hb	S	Th	Mes	–
217.	<i>Polygonum plebejum</i> R.Br.	+	+	+	+	D	Sb	Dis	Np	N	–
218.	<i>Rumexdentatus</i> L.	+	–	+	+	A	Hb	S	Ch	Mes	–
219.	<i>Rumexhastatus</i> D. Don	+	+	+	+	D	Sb	Dis	Np	N	–
52. Portulacaceae											
220.	<i>Portulaca oleracea</i> L.	–	–	+	+	A	Hb	S	Th	N	–
53. Potamogetanaceae											
221.	<i>Potamogetonnodosus</i> Poiret	+	–	+	+	W	Hb	S	G	Mic	–
54. Primulaceae											
222.	<i>Androsacerotundefolia</i> Hardw.	–	–	+	+	D	Hb	Dis	Th	N	–
55. Punicaceae											
223.	<i>Punica granatum</i> L.	+	+	+	+	I	Tr	S	Micp	N	+
56. Ranunculaceae											
224.	<i>Anemone obtusiloba</i> D. Don	+	–	–	+	F	Hb	Dis	H	N	–
225.	<i>Anemone falconri</i> Thomson	+	–	–	+	GY-D	Hb	Dis	H	Mic	–
226.	<i>Ranunculus arvensis</i> L.	–	–	+	+	M-A	Hb	Dis	G	N	–
227.	<i>Ranunculus laetus</i> Wall. ex Hook. f. & J.W. Thomson	–	–	+	+	A-M	Hb	Dis	Ge	N	–
228.	<i>Ranunculus muricatus</i> L.	–	–	+	+	A-W	Hb	Dis	G	N	–

229.	<i>Ranunculus sceleratus</i> L.	-	-	+	+	M	Hb	Dis	G	Mic	-
57. Rhamnaceae											
230.	<i>Sageretia</i> thea(Osbeck) M.C.Johnst.	+	+	+	+	D	Tr	C	Micp	N	+
231.	<i>Ziziphus</i> ujubaMill .	+	+	+	+	A-D	Tr	C	Mesp	N	+
58. Rosaceae											
232.	<i>Cotoneaster microphyllus</i> Wall. ex. Lindl.	+	+	+	+	D	Sb	S	Np	L	+
233.	<i>Cotoneaster nummularia</i> 9Fisch. & C.A. Mey).	+	+	+	+	D	Sb	S	Np	L	-
234.	<i>Duchesnea</i> indica(Jacks.) Focke	-	-	+	+	D	Hb	C	H	N	-
235.	<i>Fragaria nubicola</i> (Lindl.ex. Hook.f.) Lacaíta	+	-	+	+	F	Hb	C	H	N	-
236.	<i>Potentilla reptans</i> L.	-	-	+	+	D	Hb	C	H	Mic	-
237.	<i>Potentilla supina</i> L.	-	-	+	+	D	Hb	C	Th	N	-
238.	<i>Prunus armeniaca</i> L.	+	+	+	+	CU	Tr	S	Micp	Mes	-
239.	<i>Prunus domestica</i> L.	+	+	+	+	CU	Tr	S	Micp	Mes	-
240.	<i>Prunus dulcis</i> (Mill.) D.A.Webb.	+	+	+	+	D	Tr	S	Mesp	Mic	-
241.	<i>Prunus persica</i> (L.) Batsch.	+	+	+	+	CU	Tr	S	Mic	Mic	-
242.	<i>Pyrus communis</i> L.	+	+	+	+	CU	Tr	S	Micp	Mes	-
243.	<i>Malus domestica</i> Borkh.	+	+	+	+	CU	Tr	S	Micp	Mes	-
244.	<i>Pyrus pashia</i> (Buch.-Ham. Ex. D.Don).	+	+	+	+	A	Tr	S	Micp	Mic	-
245.	<i>Pyrus pseudopashia</i> T.T. Yu	+	+	+	+	W	Tr	S	Micp	Mic	-
246.	<i>Rosa alba</i> L.	+	+	+	+	CU	Sb	C	Np	N	+
247.	<i>Rosa moschata</i> Herm.	+	+	+	+	D	Sb	C	NP	N	+
248.	<i>Rosa webbiana</i> (Wall. ex. Royle).	+	+	+	+	D	Sb	C	Np	N	+
249.	<i>Rubus</i> ellipticus Smith.	+	+	+	+	D	Sb	C	Np	N	+
250.	<i>Rubus</i> fruticosus L.	+	+	+	+	D	Sb	C	Np	N	+
251.	<i>Rubus</i> lmifolius Schott.	+	+	+	+	F-D	Sb	C	Np	N	+
252.	<i>Sorbus lanata</i> (D.Don.) Sch.	+	+	+	+	D	Tr	S	Mesp	Mes	-
59. Rubiaceae											
253.	<i>Galium aparine</i> L.	-	-	+	+	A-W	Hb	S	Th	N	-
254.	<i>Rubi</i> acardifolia L.	+	-	-	+	D	Hb	S	Th	Mic	-
60. Rutaceae											
255.	<i>Citrus aurentium</i> L.	+	+	+	+	CU	Sb	S	Micp	Mes	+
256.	<i>Citrus limon</i> (L.) Osbeck	+	+	+	+	CU	Sb	S	Np	Mes	+
257.	<i>Citrus sinensis</i> (L.) Osbeck	+	+	+	+	CU	Sb	S	Micp	Mes	+
258.	<i>Skimmia</i> laureolaFranch.	+	+	+	+	F	Sb	S	NP	Mes	-
259.	<i>Zanthoxylum</i> armatum DC.	+	+	+	+	D	Sb	C	Mic	Mes	+
61. Salicaceae											

260.	<i>Populus alba</i> L.	+	+	+	+	W	Tr	S	Mesp	Mes	–
261.	<i>Populus nigra</i> L.	+	+	+	+	W	Tr	S	Megp	Mes	–
262.	<i>Salix acmophyla</i> Boiss.	+	+	+	+	W	Tr	S	Mesp	Mic	–
263.	<i>Salix babylonica</i> L.	+	+	+	+	W	Tr	S	Mesp	Mic	–
62. Saxifragaceae											
264.	<i>Bergenia ciliata</i> (Haw.) Sternb.	–	–	+	+	D-R	Hb	S	G	Mes	–
63. Scrophulariaceae											
265.	<i>Buddleja crispa</i> Benth.	+	+	+	+	D-F	Sb	S	Np	N	–
266.	<i>Scrophularia nodosa</i> L.	–	–	+	+	D	Hb	S	H	Mic	–
267.	<i>Veronica biloba</i> Schreb. ex L.	+	–	+	+	D	Hb	S	Th	N	–
268.	<i>Verbascum thapsus</i> L.	–	–	+	+	D	Hb	S	Th	Mac	–
269.	<i>Veronica persica</i> Poiret.	–	–	+	+	W	Hb	Dis	Th	Mic	–
64. Simaroubaceae											
270.	<i>Ailanthus altissima</i> (Mill.) Swingle	+	+	+	+	A	Tr	C	Megp	Mes	–
65. Solanaceae											
271.	<i>Capsicum annum</i> L.	+	–	–	+	CU	Hb	S	Th	Mic	–
272.	<i>Capsicum frutescens</i> L.	+	–	–	+	CU	Hb	S	Th	Mic	–
273.	<i>Datura stramonium</i> L.	+	–	–	+	D	Hb	Dis	Th	Mes	–
274.	<i>Solanum americanum</i> Mill.	–	–	+	+	A	Hb	S	Th	Mic	–
275.	<i>Solanum peruviana</i> L.	+	–	–	+	A	Hb	S	Th	Mic	–
276.	<i>Solanum pseudo-capsicum</i> L.	–	–	+	+	GY	Hb	S	Th	Mic	–
277.	<i>Solanum tuberosum</i> L.	–	–	+	+	CU	Hb	C	G	Mes	–
66. Thymelaceae											
278.	<i>Daphne mucronata</i> Royle.	+	+	+	+	D-F	Sb	S	NP	N	–
67. Ulmaceae											
279.	<i>Celtis australis</i> L.	+	+	+	+	GY-D	Tr	S	Mes	Micp	–
68. Urticaceae											
280.	<i>Debregeasia saeana</i> (Forssk.) Hepper & J.R.I. Wood.	+	+	+	+	W	Sb	S	NP	Mic	–
281.	<i>Urtica dioica</i> L.	–	–	+	+	M	Hb	S	Th	Mic	–
282.	<i>Urtica pilulifera</i> L.	–	–	+	+	M	Hb	S	Th	Mic	–
69. Valerianaceae											
283.	<i>Valeriana jatamansi</i> Jones	–	–	+	+	A-M	Hb	S	G	Mic	–
70. Verbenaceae											
284.	<i>Verbena officinalis</i> L.	+	–	+	+	M-W	Hb	Dis	Th	Mic	–
71. Violaceae											
285.	<i>Viola canescens</i> Wall.	–	–	+	+	M	Hb	S	Th	Mic	–
286.	<i>Viola odorata</i> L.	–	–	+	+	M	Hb	S	Th	Mic	–
72. Vitaceae											

287.	<i>Vitis vinifera</i> L.	+	+	+	+	CU	Sb	Dis	Micp	Mes	–
Monocots											
73. Alismataceae											
288.	<i>Alismaplantago-aquatica</i> L.	–	–	–	+	M	Hb	S	H	Mes	–
289.	<i>Sagittariaguayanensis</i> Kunth	–	–	+	+	A-M	Hb	S	G	Mic	–
290.	<i>Sagittariatrifolia</i> L.	–	–	+	+	M	Hb	Dis	G	Mes	–
74. Alliaceae											
291.	<i>Allium cepa</i> L.	–	+	+	–	CU	Hb	S	G	Mic	–
292.	<i>Allium sativum</i> L.	–	+	+	–	CU	Hb	S	G	Mic	–
75. Amaryllidaceae											
293.	<i>Narcissus tazetta</i> L.	–	+	+	–	GY	Hb	S	G	Mic	–
76. Araceae											
294.	<i>Acorus calamus</i> L.	–	–	–	+	W	Hb	S	G	Mes	–
295.	<i>Arum jacquemontii</i> Blume	+	–	–	+	F	Hb	S	G	Mes	–
296.	<i>colocasia esculenta</i> (L.) Schott	–	–	–	+	D	Hb	C	G	Mes	–
77. Colchicaceae											
297.	<i>Colchicum luteum</i> Baker	–	+	+	–	F-R	Hb	S	G	N	–
78. Commelinaceae											
298.	<i>Commelinabenghalensis</i> L.	+	–	–	+	A	Hb	S	Th	Mic	–
79. Cyperaceae											
299.	<i>Cyperusiria</i> L.	–	–	–	+	W	Hb	S	G	N	–
300.	<i>Cyperusrotundus</i> L.	–	–	–	+	W	Hb	S	G	N	–
80. Juncaceae											
301.	<i>Juncus articulatus</i> L.	–	–	–	+	W	Hb	S	G	N	–
302.	<i>Juncus inflexus</i> L.	–	–	–	+	W	Hb	S	G	N	–
81. Liliaceae											
303.	<i>Gagearawalpindica</i> Levichev & Ali	–	–	+	+	D	Hb	S	G	Mic	–
82. Poaceae											
304.	<i>Agrostis munroana</i> Aitch. & Hemsl.	–	–	–	+	M	Hb	S	H	N	–
305.	<i>Apludamutica</i> L.	+	–	+	+	D	Hb	S	H	Mic	–
306.	<i>Aristida cyanantha</i> Steud.	–	–	–	+	D	Hb	S	H	Mic	–
307.	<i>Aristida mutabilis</i> Trin. & Rupr.	+	–	–	+	D	Hb	S	H	N	–
308.	<i>Arthraxonprionodes</i> (Steud.) Dandy	+	–	–	+	D	Hb	S	H	Mic	–
309.	<i>Arundo donax</i> L.	+	+	+	+	D	Hb	S	Ch	Mic	–
310.	<i>Avenafatua</i> L.	–	–	+	+	D	Hb	S	Th	Mic	–
311.	<i>Avena sativa</i> L.	–	–	+	+	A	Hb	S	Th	Mic	–
312.	<i>Bambusamultiplex</i> (Lour.) Raeusch. ex Schult.	+	+	+	+	I	Tr	S	Mesp	Mes	–
313.	<i>Brachiariaremosa</i> (L.) Stapf. <i>Brachiariareptans</i> (L.) C.A. Gardner & C.E. Hubb.	+	–	–	+	A-WP	Hb	S	Th	Mic	–
314.		+	–	–	+	A	Hb	S	Th	Mic	–

315.	<i>Bromus japonicus</i> Thunb.	-	-	-	+	D	Hb	S	Th	N	-
316.	<i>Cenchrusciliaris</i> L.	+	-	-	+	D	Hb	S	H	Mic	-
317.	<i>Chrysopogonserrulatus</i> Trin.	+	-	-	+	D	Hb	S	H	N	-
318.	<i>Chrysopogongryllus</i> (L.) Trin.	+	-	-	+	D	Hb	S	H	N	-
319.	<i>Cynodondactylon</i> (L.) Pers.	+	-	+	+	A-D	Hb	S	H	L	-
320.	<i>DactylocteniumAegyptium</i> (L.) Willd.	+	-	-	+	D	Hb	S	Th	N	-
321.	<i>Desmostachyabipinnata</i> (L.) Stapf.	+	-	-	+	D	Hb	S	H	N	-
322.	<i>Echinochloacolona</i> (L.) Link.	+	-	-	+	D	Hb	S	Th	N	-
323.	<i>Eragrostiscilianensis</i> (All.) Janch.	-	-	+	+	A-D	Hb	S	Th	N	-
324.	<i>Eragrostis minor</i> Host	-	-	-	+	D	Hb	S	Th	L	-
325.	<i>Heteropogoncontortus</i> (L.) P.Beauv.exRoem. &Schult.	+	-	-	+	D	Hb	S	H	N	-
326.	<i>Imperatacylindrica</i> (L.) Raeusch.	+	-	-	+	W	Hb	S	G	N	-
327.	<i>Loliumtemulentum</i> L.	+	-	-	+	A-D	Hb	S	Th	N	-
328.	<i>Oryza sativa</i> L.	-	-	-	+	CU	Hb	S	Th	Mic	-
329.	<i>Pennisetumglaucum</i> (L.) R.Br.	-	-	-	+	CU	Hb	S	Th	Mic	-
330.	<i>Pennisetumpolystachion</i> (L.) Schult.	-	-	-	+	W	Hb	S	Th	N	-
331.	<i>Phalarisaquatical</i> L.	+	-	-	+	W	Hb	S	G	N	-
332.	<i>Phalaris minor</i> Retz.	-	-	+	+	A-D	Hb	S	Th	N	-
333.	<i>Poaannual</i> L.	-	-	+	+	A-D	Hb	S	Th	L	-
334.	<i>Setariaviridis</i> (L.) P. Beauv.	+	-	-	+	D	Hb	S	Th	Mic	-
335.	<i>Sorghum helepense</i> (L.) Pers.	+	-	-	+	A	Hb	S	H	Mic	-
336.	<i>Stipa gigantea</i> Link	+	-	+	+	D	Hb	S	H	Mic	-
337.	<i>Triticum aestivum</i> L.	-	+	+	-	CU	Hb	S	The	Micp	-
338.	<i>Zea mays</i> L.	-	-	-	+	CU	Hb	S	Th	Mesp	-

Abbreviations:Life form: (Th= Therophyte; H= Hemicryptophyte; Np= Nanophanerophyte; G= Geophyte; Ch= Chamaephyte; Micp= Microphanerophyte; Mesp= Mesophanerophyte; Megp= Megaphanerophyte; P= Parasite).
Leaf form: (Mic= Microphyll; N= Nanophyll; Mes= Mesophyll; L= Leptophyll; Mac= Macrophyll; Meg= Megaphyll; Ap= Aphyllous).

Habit (Tr-Tree, Hb-Herb, Sb-Shrub).

Spine (+ Present, - Absent).

Lamina: (S-Simple, C-Compound, Dis-Dissected, N-Needle like, Sp-Spiny, Ab-Absent).

Habitat: (D-Dry slopes, R-Rock crevices, M-Moist shady places, F-Forest, W-Wet places, I-Introduced, Wp-Waste places, A-Agricultural fields, Ep-Epiphyte, Cu-Cultivated, Gy-Graveyards).