



**Checklist of the Flora of Wadi Haboonat Al Jabal Al Akhdar  
(Cyrenaica, Libya)**

**El Rabiai<sup>1</sup>G.T. and M. Al tira<sup>2</sup>**

**1, 2: Botany Department, Science Faculty, Benghazi University, Libya**

**Abstract**

The flora of Wadi Haboon was studied and analyzed. In this work, a preliminary checklist of the plant species of the Wadi was provided. The investigation revealed the presence of 43 families, 136 genera and 166 species. This information could eventually aid in interpreting changes in populations due to man-made alterations.

**Key-Words:** Libya, Flora, Taxonomy, Wadi Haboon

**Introduction**

Al-Jabal Al-Akhdar (Green Mountain), a low to medium mountainous landscape, is located in the northeast of Libya; reaching 878 m above sea level was created as a result of a tectonic elevation of a primary plain of marine accumulation. It is characterized by a Mediterranean climate, with cool rainy winter and hot dry summer (El-Tantawi, 2005). Al-Jabal Al-Akhdar is one of the four major centers of endemism which holds about 50% of the total endemic species in Libya (Boulos, 1997; Davis et al., 1994). Wadi Haboon lies between 21° 08' 42" and 21° 09' 54" E longitude and 32° 43' 48" and 32° 42' 36" N latitude on the North east region, Al-Jabal Al-Akhdar. The Wadi rises 100 meters above sea level and pours in the basin of "almlekh" on the Mediterranean coast in the Cyrenaica region (Figs. A&B).

**\* Corresponding Author**

Wadi Haboon is one of valleys that branching out from Wadi Al Koof such as other valleys like wadi Al-mleka, Al-loleb and Shloof. It is about 9 km north-east of Battah and Tolmeita area and about 8 km southeast of Ain Al-mleka. It descended towards the north and empties into the sea in the Al-mleka Basin.

**Material and Methods**

The present work is based on intensive field work upon several visits between the periods of 2005 to 2011. The plant collections were treated following the general Herbarium techniques then deposited in the Cyrenaica Herbarium (CH) at the Botany Department (Sciences faculty, Benghazi University).

**The Checklist**

The checklist's family sequence started with gymnosperms followed by the angiosperms, monocots and then the dicots. Genera and species are arranged alphabetically within each family.

**Group I. Gymnosperms**

No.	Species	Family	Order
1	<i>Juniperusphoenicea</i> L.	Cupressaceae	Pinales
2	<i>Pinushaloensis</i> Mill.	Pinaceae	

**Group II. Angiosperms**

**Sub group 1. Monocotyledons**

No.	Species	Family	Order
3	<i>Arisariumvulgare</i> Targ. Tozz.	Araceae	Alismatales
4	<i>Gladiolus byzantinus</i> Miller	Iridaceae	Asparagales
5	<i>Rumeleabulbocodium</i> (L.)Seb.Mauri.		
6	<i>Asparagus aphyllus</i> L.	Liliaceae	Liliales
7	<i>Colchicum ritchii</i> R. Br.		
8	<i>Dipcadiserotinum</i> (L.)Medic.		
9	<i>Muscariracemosum</i> ( L.)Mill.		
10	<i>Smalixaspera</i> L.		
11	<i>Plantagolanceolata</i> L.	Plantaginaceae	Lamiales
12	<i>Andropogondistachyos</i> L.	Poaceae	Poales
13	<i>Briza maxima</i> L.		
14	<i>Bromusrigidus</i> Roth		
15	<i>B. rubens</i> L.		
16	<i>Dactylis glomerata</i> L.		
17	<i>Desmazeriaphilistaea</i> ssp. <i>rholfsiana</i> (Coss.) H. Scholz		
18	<i>Gastridiumventricosum</i> (Gouan) Schinz et Thell.		
19	<i>Hordeumvulgare</i> L.		
20	<i>Phalaris aquatica</i> L.		
21	<i>P. brachystachys</i> Link		
22	<i>P. paradoxa</i> L.		

**Sub group 2. Dicotyledons**

23	<i>Ammimajus</i> L.	Apiaceae	Apiales
24	<i>A. visnaga</i> (L.)Lam.		
25	<i>Ammoideaspisilla</i> (Brot.)Breist.		
26	<i>Anethumgraveolens</i> L.		
27	<i>Brachyapiumdichoomum</i> (L.) Maire		
28	<i>Buniumfontainesii</i> (Pers.) Maire.		
29	<i>Bupleurumlancifolium</i> Hornem.		
30	<i>Conium maculatum</i> L.		
31	<i>Daucuszyrticus</i> Murb.		
32	<i>Ferula tingitana</i> L.		
33	<i>Foeniculumvulgare</i> L.		
34	<i>Pimpinellaperegrina</i> L.		
35	<i>Scaligeiacretica</i> (Mill.) Boiss.		
36	<i>Scandixaustralis</i> L.		
37	<i>S. pecten-veneris</i> L.		
38	<i>Torilisleptophylla</i> (L.) Reichb.		
39	<i>Amberbaeleucantha</i> Cosson ex Batt.	Asteraceae	Asterales
40	<i>Anthemissecundiramea</i> Biv		
41	<i>Atractyliscancellata</i> L.		
42	<i>Bellissylvestris</i> Cyr.		
43	<i>Bombycilaenadicolor</i> (Pers.) Lainz		
44	<i>Calendula arvensis</i> L.		
45	<i>Carduusgetulus</i> Pomel		
46	<i>Centaurealexandrina</i> Delile		
47	<i>Chrysanthemum carinatum</i> Schousbœ		
48	<i>Hedypnoiscretica</i> (L.)Dum.		
49	<i>Helichrysumstoechas</i> (L.) Moench		
50	<i>Hypochoerisachyrophorus</i> L.		
51	<i>H. glabra</i> L.		

52	<i>Leontodontuberosus</i> L.		
53	<i>Notobasisyriaca</i> (L.)Cass.		
54	<i>Pallenisspinosa</i> (L.)Cass		
55	<i>Phagnalon rupestre</i> (L.)DC.		
56	<i>Ptilostemongraphaloides</i>		
57	<i>Reichardiattingitana</i> (L.)Roth		
58	<i>Rhagadiolusstellatus</i> (L.)Gaertn		
59	<i>Senecio gallicus</i> Chiax		
60	<i>S. leucanthemifolius</i> Poiret		
61	<i>Silybummarianum</i> (L.) Gaertner		
62	<i>Tragopogonporrifolius</i> L.		
63	<i>Urospermumdalechampii</i> (L.)Scop. ex F. W. Schmidt		
64	<i>Borago officinalis</i> L.		
65	<i>Cerinthe magorum</i> L.		
66	<i>Cynoglossumcherifolium</i> L.		
67	<i>Echium angustifolium</i> Mill.		
68	<i>E. plantagineum</i> L.		
69	<i>Biscutelladidyma</i> L.		
70	<i>Capsella bursa-pastoris</i> (L.)Medic.		
71	<i>Didesmumaegyptius</i> (L.)Desve.		
72	<i>Erucaria microcarpa</i> Boiss.		
73	<i>Rapistrum rugosum</i> (L.)All.		
74	<i>Sinapisflexuosa</i> Poiret		
75	<i>S. pubescens</i> L.		
76	<i>Thlaspi perfoliatum</i> L.		
77	<i>Ceratonia siliqua</i> L.	Caesalpiniaceae	Fabales
78	<i>Lonicera etrusca</i> Santi.	Caprifoliaceae	Dipsacales
79	<i>Viburnum tinus</i> L.		
80	<i>Vaccaria pyramidata</i> Medic.	Caryophyllaceae	Caryophylales
81	<i>Cistus incanus</i> L.		
82	<i>C. parviflorus</i> Lam.		
83	<i>C. salviifolius</i> L.		
84	<i>Fumanalaevigata</i> (Cav.) Senner		
85	<i>Helianthemum cinereum</i> (Cav.) Pers		
86	<i>Convolvulus althaeoides</i> L.		
87	<i>C. humilis</i> Jacq.	Convolvulaceae	Solanales
88	<i>C. tricolor</i> L.		
89	<i>Ecballium elaterium</i> (L.)A.Rich.	Cucurbitaceae	Cucurbitales
90	<i>Scabiosa arenaria</i> Forskal	Dipsacaceae	Dipsacales
91	<i>Arbutus pavarii</i> Pumb.		
92	<i>Erica multiflora</i> L.		
93	<i>E. sicula</i> Guss.	Ericaceae	Ericales
94	<i>Euphorbia peplus</i> L.		
95	<i>Mercurialis annua</i> L.	Euphorbiaceae	Malpighiales
96	<i>Argyrolobium uniflorum</i> (Decne) Jaub.&Spach.		
97	<i>Anthyllis tetraphylla</i> L.		
98	<i>Calicotome villosa</i> (Poir.)Link		
99	<i>Coronilla scorpioides</i> (L.) Koch.		
100	<i>Crotalaria thebaica</i> (Del.)DC.		
101	<i>Genista acanthoclada</i> DC.		
102	<i>Hymenocarpos circinatus</i> (L.) Savi.		
103	<i>Ononis pendula</i> Desf.		
104	<i>O. reclinata</i> L.		
105	<i>O. viscosa</i> L.		
106	<i>Scorpiurus muricatus</i> L.		
107	<i>Vicia sativa</i> L.		
108	<i>Quercus coccifera</i> L.	Fagaceae	Fagales
109	<i>Fumaria bastardii</i> Bureau		
110	<i>F. capreolata</i> L.	Fumariaceae	Ranunculales
111	<i>Centaurea pulchellum</i> (Swartz)Druce	Gentianaceae	Gentinales

112	<i>C.tenuiflorum</i> (Hoffmanns& Link) Fritsch		
113	<i>Erodiumgruinum</i> (L.) L'Hér.		
114	<i>E. malacoides</i> (L.) L' Herit.		
115	<i>E. neuradifolium</i> Delile		
116	<i>Geranium brutum</i> Gasp.		
117	<i>G. molle</i> L.		
118	<i>G. tuberosum</i> Linn.		
119	<i>Globulariaalyypum</i> Linn.	Globulariaceae	Gentianales
120	<i>Ajugaiva</i> (L.) Schreber		
121	<i>Ballotaandrenziana</i> Pamp.		
122	<i>Marrubiumvulgars</i> L.		
123	<i>MicromeriaJuliana</i> (L.) Benth. exReichenb.		
124	<i>M. nervosa</i> ( Desf.)Benth.		
125	<i>Neptascordotis</i> L.		
126	<i>Phlomisflocosa</i> D.		
127	<i>Prasiummajus</i> L.	Lamiaceae	Lamiales
128	<i>Rosmarinusofficinalis</i> L.		
129	<i>Salvia verbenaca</i> L.		
130	<i>Stachystournefortii</i> Poiret.		
131	<i>Teucriumbrevifolium</i> Schreber		
132	<i>T.divaricatum</i> Sieber ex Boiss.		
133	<i>Thymusalgeriensis</i> Boiss.et Reut.		
134	<i>T. capitatus</i> (L.)Hoffm&Link		
135	<i>Linumbienne</i> Miller.		
136	<i>L. nodiflorum</i> L.	Linaceae	Malpighiales
137	<i>L. strictum</i> var. <i>spicatum</i> Pers.		
138	<i>Lavaterabryoniifolia</i> Miller		
139	<i>Malvaaegyptica</i> L.	Malvaceae	Malvales
140	<i>M.sylvestris</i> L.		
141	<i>Oleaeuropaea</i> L.	Oleaceae	Ranunculales
142	<i>Papaverhybridum</i> L.	Papaveraceae	Ranunculales
143	<i>P. rhoeas</i> var. <i>rhoeas</i> L.		
144	<i>Anagallisarvensis</i> L.	Primulaceae	Primulales
145	<i>Cyclamen rohlfsianum</i> Aschers.		
146	<i>Cytinushypocistis</i> L.	Rafflesiaceae	Rafflesiales
147	<i>Adonis aestivalis</i> L.		
148	<i>A.microcarpa</i> DC.	Ranunculaceae	Ranunculales
149	<i>Ranunculus ballatus</i> L.		
150	<i>Rhamnuslycoides</i> L.	Rhamnaceae	
151	<i>Sarcopoteriumspinosum</i> (L.)Spach	Rosaceae	Rosales
152	<i>Asperulaarvensis</i> L.		
153	<i>Galiumtricornutum</i> Dandy		
154	<i>G. verrucosum</i> Huds.	Rubiaceae	Gentianales
155	<i>Sheradiaarvensis</i> L.		
156	<i>Valantiahispida</i> L.		
157	<i>Anarrhinumfruticosum</i> Desf.		
158	<i>Linariavirgata</i> (Poir) Desf.	Scrophulariaceae	Scrophulariales
159	<i>Misopatesorantium</i> ( L.)Rafin.		
160	<i>Solanumsodomeum</i> L.	Solanaceae	Solanales
161	<i>Thymelaeahirsute</i> (L.) Endl.	Thymeliaceae	Myrtales
162	<i>Urticapilulifera</i> L.	Urticaceae	Rosales
163	<i>Centranthuscalcitraperae</i> (L.)Dufresne		
164	<i>Fediacaput-bovis</i> Pomel.	Valerianaceae	Dipsacales
165	<i>Valerianelladiscoidea</i> (L.)Loisel		
166	<i>Viola scorpiuroides</i> Coss.	Violaceae	Violales

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