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2010/10/14

2011/03/07

91

7	<i>Crepis</i>	9	<i>Centaurea</i>	4	54	
	<i>Chrysanthemum, Inula, Picris</i>				<i>Lactuca</i>	
	53					
	20		-			% 58,2
						.% 22
	20		45			
				6	20	
				34		

.Bidens pilosa L. *Aetheorhiza bulbosa* (L.) Cass.

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Study the Biodiversity of the Asteraceae Family in Lattakia Province / Syria

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ABSTRACT

Taxonomic investigation of the Asteraceae (Compositae) family which is growing throughout Lattakia Province was carried out due to the contribution to study the flora of Syria. A total of 91 species belonging to 54 genera of the Asteraceae family were collected and identified, the results showed the dominance of the genus *Centaurea* with 9 species, followed by the genus *Crepis* with 7 species, then genus *Lactuca* with 4 species, and *Chrysanthemum*, *Inula*, *Picris* with 3 species each.

The study of the chorological spectrum revealed the dominance of the Mediterranean plants with 53 species and a percentage of 58.2%, followed by Mediterranean/Irano-Turanean plants with 20 species and a percentage of 22%.

The study of the state of species and species richness resulted in finding 45 dominant species, 20 moderate distributed species, 20 rare species, and 6 very rare and can be considered as threatened species.

In this study, 34 species were recorded for the first time in the Lattakia Province, in addition to two species, *Aetheorhiza bulbosa* (L.) Cass, and *Bidens pilosa* L. were recorded for the first time in the flora of Syria.

Key words: Asteraceae, Compositae, Biodiversity, Flora.

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.(Heywood, 1977) 25000 1100
 .(Strasburger, 1983)

(Lawrence, 1973) %2
 , *Chrysanthemum*, *Calendula*,
Inula, *Artemisia* *Aster*,
Helianthus, *Lactuca*

(Mouterde, 1966, 1973,
 (1983) 54 1983)
 93

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(1995) (1998) (1989)
(2006 &) (2002)
(1985)

Nouvelle Flore de Liban et de La Syrie. Dar el - machreque (Mouterde, 1983), Flora of Libya - Asteraceae, Vol 107- (Jafri & El-Gadi, 1983), Flora of Turkey-Vol 5- (Davis *et al*, 1975), Flora of Kuwait, Dicotyledones (Daoud, 1985), Wild flowers of Pakistan (Naser, & Rafiq, 1995), Flora Iranica Vol 12 & 13 & 14 & 15 & 16 (Ghahreman, 1993), Weeds of West Asia with special reference to Syria (Koch & Walter & Sauerborn, 1988), Biodiversity and Flora of Dibbeen National Park (Makhlouf, 2005), Flora of Syria, Palestine & Sinai, Vol (2). (Post & Dimsmore, 1933).

54

91

(Floristic analysis)

9 *Centaurea*4 *Lactuca*7 *Crepis*3 *Chrysanthemum, Filago, Picris*

.(1)

(1)

1	<i>Aetheorhiza bulbosa</i> (L.) Cass.	Med.	VR
2	<i>Anthemis cotula</i> L.	Med.	C
3	<i>Anthemis hyalina</i> DC.	W- Ir-Tu.	C
4	<i>Anthemis tinctoria</i> L.	Med.	C
5	<i>Artemisia velotorum</i> Lamotte.	?	R
6	<i>Bellis sylvestris</i> Cyr.	Plu.	C
7	<i>Bidens pilosa</i> L.	Med.	C
8	<i>Calendula arvensis</i> L.	Med./ Ir-Tur.	C
9	<i>Cardopatum corymbosum</i> (L.) Pert.	E-Med..	R
10	<i>Carduus argentatus</i> L.	E-Med.	C
11	<i>Carduus pycnocephalus</i> L.	Ir-Tur.	C
12	<i>Carlina involucrata</i> Poiret.	E-Med.	C
13	<i>Carlina lanata</i> Ten	Med.	M
14	<i>Carthamus tenuis</i> (Boiss & Blanche.) Bornm.	E-Med.	C
15	<i>Catananche lutea</i> L.	Med.	R
16	<i>Centaurea babylonica</i> (L.) L.	E-Med.	R
17	<i>Centaurea calcitrapa</i> (Juss.) DC.	E-Med.	C
18	<i>Centaurea cheirolopha</i> (Fenzl.) Wagenitz.	E-Med.	C
19	<i>Centaurea cyanoides</i> Berg et Wahlenb.	E-Med.	VR
20	<i>Centaurea iberica</i> Trev. ex Speng.	E-Med./ Ir-Tur.	R
21	<i>Centaurea procurrens</i> Siebth et Speng.	E-Med.	R
22	<i>Centaurea ptosimopappa</i> Hayek.	E-Med.	M
23	<i>Centaurea solatitialis</i> L.	Med./ Ir-Tur.	R
24	<i>Centaurea triumfettii</i> Ail.	E-Med./ Ir-Tur.	R
25	<i>Chondrilla juncea</i> L.	Med.	C
26	<i>Chrysanthemum coronarium</i> L.	Med.	C
27	<i>Chrysanthemum myconis</i> L.	Med.	C
28	<i>Chrysanthemum segetum</i> L.	Med./ Ir-Tur.	C
29	<i>Cichorium pumilum</i> Jacq.	E-Med.	M
30	<i>Cirsium phyllocephalum</i> Boiss & Bl.	Plu.	R

31	<i>Cirsium vulgare</i> (Savi.) Tenore.	Med./ Ir-Tur.	VR
32	<i>Cnicus benedictus</i> L.	Med./ Ir-Tur.	VR
33	<i>Erigeron bonarensis</i> L.	Plu.	C
34	<i>Erigeron canadensis</i> L.	Plu.	M
35	<i>Crepis aspera</i> L.	E-Med.	R
36	<i>Crepis foetida</i> L.	Eru-Si./ Med./ Ir-Tur.	M
37	<i>Crepis heirosolymitana</i> Boiss.	E-Med.	M
38	<i>Crepis palaestina</i> (Boiss.) Bornm.	E-Med.	M
39	<i>Crepis reuteriana</i> Boiss.	E-Med.	M
40	<i>Crepis sancta</i> (L.) Bornm.	Med./ Ir-Tur./Sa-Ar.	C
41	<i>Crepis zacintha</i> (L.) Babc.	Med.	VR
42	<i>Crupina crupinastrum</i> (Moris.) Vis.	Med./ Ir-Tur.	M
43	<i>Echinops polyceras</i> Boiss.	E-Med.	C
44	<i>Echinops viscosus</i> DC.	E-Med.	C
45	<i>Evax pygmaea</i> (L.) Brot.	Med.	R
46	<i>Filago eriocephala</i> Guss.	Med.	R
47	<i>Filago gallica</i> L.	Med.	M
48	<i>Filago pyramidata</i> L.	Med.	R
49	<i>Gundelia tournifortii</i> L.	Ir-Tur.	R
50	<i>Hedypnois cretica</i> (L.) Dum.-Courset.	Med.	M
51	<i>Helichrysum sanguineum</i> (L.) Kostel.	E-Med.	M
52	<i>Helichrysum conglobatum</i> (Viv.) Steudel.	Med.	C
53	<i>Inula crithmoides</i> L.	Med.	M
54	<i>Inula graveolens</i> (L.) Desf.	Med.	M
55	<i>Inula viscosa</i> (L.) Aiton.	Med.	C
56	<i>Lactuca saligna</i> L.	E-Med./ Ir-Tur.	R
57	<i>Lactuca seriola</i> L.	Med./ Ir-Tur.	C
58	<i>Lactuca tuberosa</i> Jacq.	Eru-Si./ Med./ Ir-Tur.	C
59	<i>Lactuca viminea</i> (L.) J et Presl.	Plu.	VR
60	<i>Lapsana communis</i> L.	E-Med.	C
61	<i>Leontodon turberosus</i> L.	Med.	M
62	<i>Matricaria aurea</i> (Loefl.) Schultz.	Med./ Ir-Tur.	C
63	<i>Notobasis syriaca</i> (L.) Cass.	Med.	C
64	<i>Onopordum carduiforme</i> Boiss.	E-Med.	C
65	<i>Pallenis spinosa</i> (L.) Cass	Med.	C
66	<i>Phagnalon rupestre</i> (L.). DC.	Med./ Ir-Tur.	M
67	<i>Picnoman acarna</i> (L.) Cass	Med./ Ir-Tur.	C
68	<i>Picris altissima</i> Del.	Med.	C
69	<i>Picris echioides</i> L.	Med./ Ir-Tur.	C
70	<i>Picris strigosa</i> M. Bieb	Ir-Tur.	M
71	<i>Ptilotemon chamaepeuce</i> (L.) Less.	E-Med.	R
72	<i>Pulicaria dysenterica</i> L.	Eru-Si./ Med./ Ir-Tur.	C
73	<i>Reichardia picroides</i> (L.) Roth.	Med.	C
74	<i>Rhagadiolus stellatus</i> (L.) Gaertn.	Med.	M

75	<i>Scolymus hipanicus</i> L.	Med.	C
76	<i>Scolymus maculatus</i> L.	Med.	C
77	<i>Scorzonera kotschy</i> Boiss .	E-Med.	R
78	<i>Scorzonera phaeopappa</i> (Boiss.) Boiss.	E-Med.	R
79	<i>Senecio vernalis</i> Waldst.& Kit.	Med./ Ir-Tur	C
80	<i>Serratula cerinthefolia</i> (Sm.) Boiss.	E-Med./ Ir-Tur.	C
81	<i>Silybum marianum</i> (L.) Gaertner.	Eru-Si./ Med./ Ir-Tur.	C
82	<i>Sonchus oleraceus</i> L.	Med./ Ir-Tur.	C
83	<i>Tanacetum cilicium</i> (Boiss.) Grierson.	E-Med.	M
84	<i>Taraxacum officinale</i> (Weber)Wigg.	Eru-Si.	C
85	<i>Tolpis virgata</i> (desf.) Bertol.	Med.	R
86	<i>Tragopogon colesyriacus</i> Boiss.	E-Med./ Ir-Tur.	M
87	<i>Tragopogon hybridum</i> L.	Med./ Ir-Tur.	R
88	<i>Tyrimnus leucophaphus</i> (L.) Cass.	Med.	C
89	<i>Urospermum picroides</i> (L.) Scop ex Schmidt.	Med./ Ir-Tur.	C
90	<i>Xanthium spinosum</i> L.	Trop.	C
91	<i>Xanthium strumarium</i> L.	Trop.	C

:Ir-Tur :Med :VR :R :M :C :
 :Plu :Sa-Ar :Eru :E-Med
 :USA :Tro

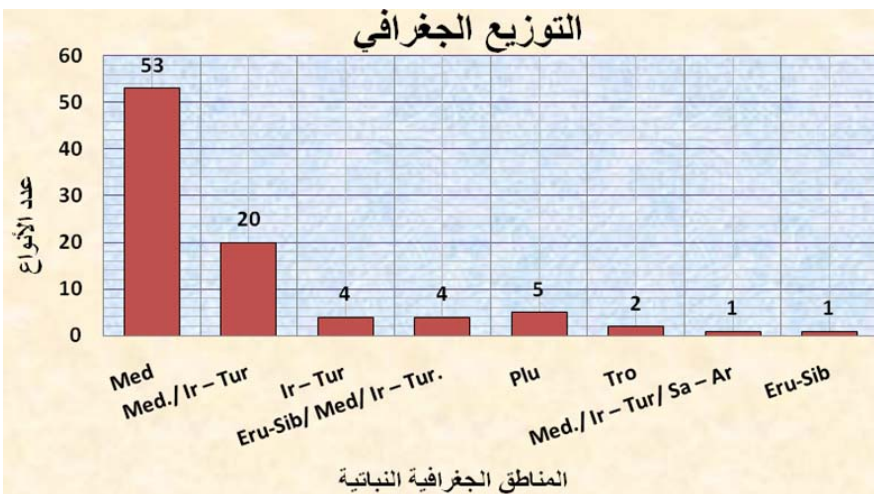
(Chorotype)

%58,2 53
 %23 22 -
 .(2)

(2)

Med	53	58.2%
Med./ Ir – Tur	20	22 %
Ir – Tur	4	4.4%
Eru-Sib/ Med/ Ir – Tur.	4	4.4 %
Plu	5	5.5 %
Tro	2	2.2 %
Med./ Ir – Tur/ Sa – Ar	1	1.1 %
Eru-Sib	1	1.1 %

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(1)

20

45

6

20

: (1)

Aetheorhiza bulbosa (L.) Cass.

Centaurea cyanooides Berg et Wahlenb.

Cirsium vulgare (Savi.) Tenore.

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Centaurea ptosimopappa Hayek.

Cnicus benedictus L.

Lactuca viminea (L.) J et Presl.

Crepis zacintha (L.) Bab.

34 (1983)

(3)

(3)

1	<i>Anthemis hyalina</i> DC.
2	<i>Artemisia velorum</i> Lamotte.
3	<i>Carduus argentatus</i> L.
4	<i>Carlina involucrata</i> Poiret.
5	<i>Carlina lanata</i> Ten
6	<i>Centaurea triumfettii</i> Ail
7	<i>Cirsium phyllocephalum</i> Boiss & Bl.
10	<i>Crepis aspera</i> L.
11	<i>Crepis heirosolymitana</i> Boiss.
12	<i>Crepis palaestina</i> (Boiss.) Bornm.
13	<i>Crepis sancta</i> (L.) Bornm.
14	<i>Crepis zacintha</i> (L.) Babc.
15	<i>Crupina crupinastrum</i> (Moris.) Vis.
16	<i>Echinops polyceras</i> Boiss.
8	<i>Erigeron bonarensis</i> L.
9	<i>Erigeron canadensis</i> L.
18	<i>Evax pygmaea</i> (L.) Brot.
19	<i>Filago eriocephala</i> Guss.
20	<i>Filago gallica</i> L.
21	<i>Filago pyramidata</i> L.
22	<i>Gundelia tournifortii</i> L.
17	<i>Helichrysum conglobatum</i> (Viv.) Steudel.
23	<i>Inula graveolens</i> (L.) Desf.
24	<i>Lactuca seriola</i> L.
25	<i>Lactuca viminea</i> (L.) J et Presl.
26	<i>Leontodon tuberosus</i> L.
27	<i>Matricaria aurea</i> (Loefl.) Schultz.
28	<i>Picnomon acarna</i> (L.) Cass
29	<i>Pulicaria dysenterica</i> L.
30	<i>Rhagadiolus stellatus</i> (L.) Gaertn.
31	<i>Scorzonera phaeopappa</i> (Boiss.) Boiss.
32	<i>Taraxacum officinale</i> (Weber)Wigg.
33	<i>Tragopogon coelesyriacus</i> Boiss.
34	<i>Xanthium strumarium</i> L.



Artemisia velorum (3)



Centaurea ptosimopappa (2)



Carlina lanata (5)



Cirsium vulgare (4)



Centaurea triumfettii (7)



Cardopatum corymbosum (6)



Crupina crupinastrum (9)



Evax pygmaea (8)



Pulicaria dysentrica (11)



Filago eriocephala (10)



Taraxacum officinale (13)



Rhagadiolus stellatus (12)



Xanthium strumarium (15)

(Post, 1933)



Tragapogon coelesyriacus (14)

(Muterde, 1983)

Bidens pilosa L. *Aetheorhiza bulbosa* (L.) Cass.

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***Aetheorhiza bulbosa* (L.) Cass.**

Leontodon bulbosum L.-*Crepis bulbosus* (L.) Tausch. :

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***Bidens pilosa* L.**

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(5)

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.2010/8/28 & 2009/9/24 :



Aetheorhiza bulbosa (16)



Bidens pilosa (17)

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54		91				-1
	20	45				-2
			6		20	
<i>Crepis</i>	9	<i>Centaurea</i>				-3
<i>Chrysanthemum,</i>		4	<i>Lactuca</i>		7	
			3	<i>Filago, Picris</i>		
53						-4
	20	-				
			34			-5
<i>Cenataurea</i>						-6
				<i>.ptosimopappa</i>		
						-7

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