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Review Article

General Analysis of the Floristic Structure of Iğdır Province (Türkiye)

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Abstract: This study evaluates the research conducted by various scholars within the borders of Iğdır Province and provides floristic data. In this context, the taxa previously recorded within the borders of Kars Province and listed in the Flora of Turkey were separated based on a literature review, and the taxa belonging to Iğdır Province were compiled and presented collectively for use by researchers. These taxa in Iğdır flora were evaluated in terms of life form, phytogeographic region and endemism. Accordingly, 1025 taxa belonging to 386 genera and 74 families were identified. The distribution of the taxa in terms of life forms are as follows: 561 Hemicryptophytes, 264 Therophytes, 77 Geophytes, 64 Chamaephytes, 52 Phanerophytes, 4 Helophytes, 1 Cryptophyte and 2 ferns. The distributions of taxa according to phytogeographical regions are as follows; Irano-Turanian 355, Euro-Siberian 88, Mediterranean 15, Eastern Mediterranean 14, and Unknown 553. The 5 richest families are respectively Asteraceae (128), Fabaceae (100), Poaceae (70), Lamiaceae (69) and Brassicaceae (62). The richest genera in terms of the number of taxa are Astragalus (42), Verbascum (16), Trifolium, Silene, and Potentilla (12 each); Allium, Bromus, Centaurea, Nepeta, Papaver, and Ranunculus (11 each).

Keywords: Analysis, Eastern Anatolia, Flora, Iğdır, Türkiye

Iğdır İlinin Floristik Yapısının Genel Analizi (Türkiye)

Öz: Bu çalışma, Iğdır ili sınırları içinde çeşitli akademisyenler tarafından yürütülen araştırmaları değerlendirerek floristik veriler sunmaktadır. Bu bağlamda, Kars ili sınırları içinde daha önce kaydedilmiş ve Türkiye Florası'nda listelenen taksonlar literatür taraması temelinde ayrıştırılmış, Iğdır iline ait taksonlar derlenerek araştırmacıların kullanımına sunulmuştur. Iğdır florası içindeki bu taksonlar yaşam formu, fitocoğrafik bölge ve endemizm açısından değerlendirilmiştir. Buna göre, 386 cins ve 74 familyaya ait 1025 takson tanımlanmıştır. Taksonların yaşam formlarına göre dağılımı şu şekildedir: 561 Hemicryptophytes, 264 Therophytes, 77 Geophytes, 64 Chamaephytes, 52 Phanerophytes, 4 Helophytes, 1 Cryptophyte ve 2 eğrelti otu. Taksonların fitocoğrafik bölgelere göre dağılımı şu şekildedir: İran-Turan 355, Avrupa-Sibirya 88, Akdeniz 15, Doğu Akdeniz 14 ve Bilinmeyen 553. En zengin 5 familyası sırasıyla Asteraceae (128), Fabaceae (100), Poaceae (70), Lamiaceae (69) ve Brassicaceae (62) 'dir. Takson sayısı açısından en zengin cinsler sırasıyla Astragalus (42), Verbascum (16), Trifolium, Silene ve Potentilla (her biri 12); Allium, Bromus, Centaurea, Nepeta, Papaver ve Ranunculus (her biri 11) şeklindedir.

Anahtar Kelimeler: Analiz, Doğu Anadolu, Flora, Iğdır, Türkiye

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1. Introduction

The flora (flora and vegetation) of the Eastern Anatolia Region has been well studied in general terms, especially in Erzurum, Van and Elazığ, however, other provinces in the region have been less extensively studied. The main reasons for this are the presence of researchers in the universities established in these provinces in the past as well as the important elevations in these provinces (such as Mount Ararat, Mount Süphan, Mount Tendürek, Mount Hazarbaba) attracting the attention of plant collectors. The floristic structure of Iğdır province is partially known according to the plant collection records made locally from the State Production Farm (D.Ü.Ç.) located in the Aras Valley and especially in the Serdar Bulak strait of Mount Ararat (5137 m), which is an important elevation and 65% of it is within the province borders. Due to unfavourable terrain conditions, these collections have not been sufficient to fully determine the floristic structure. The Flora of Turkey (Davis, 1965-1985; Davis et al., 1988, Güner et al., 2000) was the most important and only source for the taxa found in the floristic structure of Iğdır province until the 2000s. In this sense, in recent years, some studies (Altundağ, 2009; Kabalak, 2016) including Korhan Plateau, which is an important area in Mount Ararat, provide important information on the floristic structure of the area.

A review of the Flora of Turkey (Davis, 1965-1985; Davis et al., 1988, Güner et al., 2000) shows that most plant collections from Iğdır Province were made on Mount Ararat. A review of these records also reveals the following notable plant collectors in the area: B. Post Grossheim, Davis, Demiriz, A. Baytop, T. Baytop, Schischkin. Hewitt, Radde, Ross (J.G.) Jardine, Sorger, M. Zohary & Plitm., Sauer, GuichardT Mathew & Tomlinson Nydegger, Regel are among the most notable collectors.

Iğdır province, which is geographically located in the Eastern Anatolia Region, is located in the Irano-Turanian floristic region in terms of phytogeography. According to the grid system (Davis, 1965-1985), the province borders are located within the A9, B9, A10, and B10 grids, and the literature review shows that the listed plants were collected mainly from the B10 and A9 grids.



Figure 1. Iğdır location map (Yulu, 2014).

As a result of this study, a regular list of the taxa recorded in the Flora of Turkey (Davis, 1965-1985; Davis et al., 1988, Güner et al., 2000) as well as the taxa identified in other studies were obtained. It is hoped that this updated floristic list will be an important source of convenience for the researchers who will conduct research in Iğdır province.

2. Material and Methods

While compiling the current flora list of Iğdır province, the studies of Davis (1965-1985), Davis et al. (1988), Güner et al. (2000), Tatlı & İstanbulluoğlu (1986), Tatlı & Altan (1987), Behçet (1996), Sezik et al. (1997), Altundağ & Özhatay (2009), Altundağ (2009), Kabalak (2016), Çakır Altındağ (2017), Ücrak et al. (2019), Parin & Gürbüz (2022) and Açıkgoz et al. (2023) used.

For the convenience of researchers, the flora list is given in alphabetical order (Table 1). In this order, family, genus and taxon name are written. The floristic region, life form (Raunkiaer, 1934) and endemism status (if any; IUCN, 2001) of the taxon are also indicated. For current taxon names, the study of Güner et al. (2012) was taken into consideration. Also, IPNI (2025) was used to check abbreviations of taxon species. The author abbreviations for each taxon were checked through Brummitt & Powell (1992).

3. Results

3.1. Brief introduction of the area

Located in the Erzurum-Kars section of the Eastern Anatolia Region, Iğdır is a border city, bordering Kars to the west and northwest, Ağrı to the south, Nakhchivan Autonomous Republic and Iran to the east, and Armenia to the north and northeast. Approximately 74 per cent of the province's area is mountainous and 26 per cent is lowland, and the Aras River runs through this lowland area. Iğdır plain is one of the largest and lowest areas of the Eastern Anatolia Region in terms of surface area (Güner et al., 2011) (Figure 2).

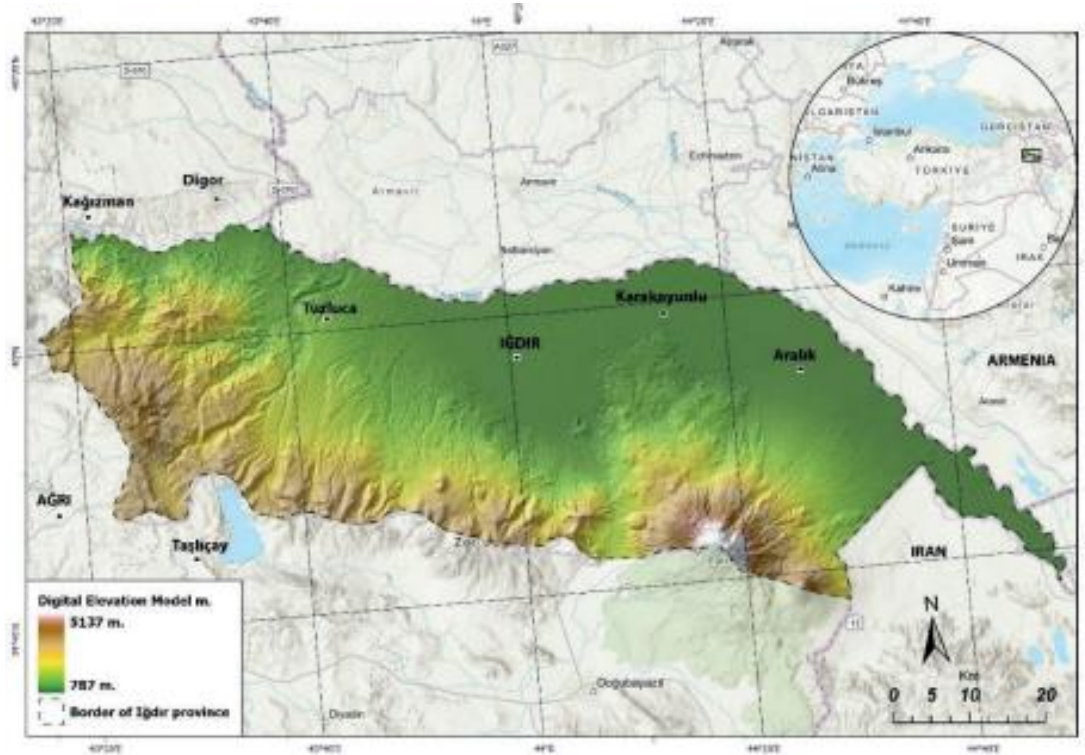


Figure 2. Physical map of Iğdır (Karaoğlu & Erdel, 2022).

The lava flows from Mount Ararat divided the plain into two around the village of Taşburun. The part to the west of this village is called West Iğdır, while the part between the east of the village and the Iranian border is called East Iğdır. The part of the plain between the Aras River and the Lower Karasu Stream is called the Dil Ovası. In terms of soils, while basaltic and brown soils are dominant in Tuzluca district, alluvial soils are observed in the Iğdır plain, and saline soils are observed in the eastern parts of the plain and in the Dil Ovası (Tatlı and İstanbulluoğlu, 1986; Kaya, 2015). Most of the Great Ararat Mountain, the highest point of Türkiye, is located within the borders of Iğdır province (Figure 3).



Figure 3. General view of Mount Ararat from the Iğdır sides

3.2. List of flora

As a result of the evaluation of the studies carried out in Iğdır province, 1025 taxa belonging to 74 families and 386 genera were identified. The alphabetical floristic list containing information about these taxa is given in Table 1.

Table 1. Alphabetical order of the Floristical list

Plant Taxa Name	Phyt. Reg.	Life Form	Plant Taxa Name	Phyt. Reg.	Life Form
Adoxaceae			<i>*Allium armenum</i> Boiss. & Kotschy	IT	G
<i>Viburnum lantana</i> L.	UNK	Ph	<i>Allium atrovioleaceum</i> Boiss.	UNK	G
Alismataceae			<i>*Allium baytopiorum</i> Kollmann & Özhatay	IT	G
<i>Alisma lanceolatum</i> With.	UNK	-	<i>Allium cardiostemon</i> Fisch. & C.A.Mey.	IT	G
Amaranthaceae			<i>Allium dictyoprasum</i> C.A.Mey. ex Kunth	IT	G
<i>Amaranthus albus</i> L.	UNK	Th	<i>Allium flavum</i> L. subsp. <i>flavum</i> var. <i>flavum</i>	M	G
<i>Amaranthus retroflexus</i> L.	UNK	Th	<i>Allium flavum</i> subsp. <i>tauricum</i> var. <i>tauricum</i> (Besser ex Rchb.) Stearn	M	G
<i>Anabasis aphylla</i> L.	IT	Ch	<i>Allium pseudoflavum</i> Vved.	IT	G
<i>Arthrocnemum macrostachyum</i> (Moric.) K.Koch	UNK	Ch	<i>Allium scorodoprasum</i> subsp. <i>rotundum</i> (L.) Stearn	UNK	G
<i>Atriplex hastata</i> L.	UNK	Th	<i>Allium stamineum</i> Boiss.	EM	G
<i>Atriplex lasiantha</i> Boiss.	UNK	Th	Apiaceae		
<i>Atriplex micrantha</i> Ledeb.	IT	Th	<i>Anthriscus nemorosa</i> (M.Bieb.) Spreng.	UNK	H
<i>Atriplex nitens</i> Schkuhr	UNK	Th	<i>Anthriscus sylvestris</i> (L.) Hoffm.	UNK	H
<i>Atriplex patula</i> L.	UNK	Th	<i>Astrantia maxima</i> subsp. <i>maxima</i> Pall.	M	H
<i>Bassia pilosa</i> (Fisch. & C.A.Mey.) Freitag & G. Kadereit	UNK	Th	<i>Bilacunaria microcarpa</i> (M.Bieb.) Pimenov & V.N.Tikhom.	UNK	Ch
<i>Bassia prostrata</i> (L.) A.J.Scott	UNK	Ch	<i>Bunium microcarpum</i> (Boiss.) Freyn & Bormm. ex Freyn	EM	G
<i>Bassia scoparia</i> (L.) A.J.Scott	UNK	Th	<i>Bupleurum falcatum</i> subsp. <i>polyphyllum</i> (Ledeb.) H.Wolff	UNK	H
<i>Beta corolliflora</i> Zosimovic ex Buttler	IT	H	<i>Caucalis platycarpus</i> L.	UNK	Th
<i>Beta macrocarpa</i> Guss.	M	Th	<i>Chaerophyllum angelicifolium</i> M.Bieb.	UNK	H
<i>Bienertia cycloptera</i> Bunge ex Boiss.	IT	Th	<i>Chaerophyllum aureum</i> L.	UNK	H
<i>Ceratocarpus arenarius</i> L.	UNK	Th	<i>Chaerophyllum bulbosum</i> L.	ES	G
<i>Chenopodium album</i> subsp. <i>album</i> var. <i>album</i> L.	UNK	Th	<i>Chamaesciadium acaule</i> (M.Bieb.) Boiss.	UNK	H
<i>Chenopodium album</i> subsp. <i>album</i> var. <i>microphyllum</i> Boenn.	UNK	Th	<i>Conium maculatum</i> L.	UNK	H
<i>Chenopodium botrys</i> L.	UNK	Th	<i>Cymbocarpum anethoides</i> DC.	IT	Th
<i>Chenopodium foliosum</i> (Moench) Asch.	UNK	H	<i>Daucus carota</i> L.	IT	H
<i>Chenopodium murale</i> L.	UNK	Th	<i>Echinophora orientalis</i> Hedge & Lamond	IT	H
<i>Halanthium rarifolium</i> K.Koch	UNK	Th	<i>Echinophora tenuifolia</i> subsp. <i>sibthorpiana</i> (Guss.) Tutin	IT	Ch
<i>Halanthium roseum</i> (Trautv.) Iljin ex Ulbr.	UNK	Th	<i>Eryngium billardieri</i> F. Delaroche	IT	H
<i>Halochnemum strobilaceum</i> (Pall.) M.Bieb.	UNK	H	<i>Eryngium caeruleum</i> M.Bieb.	IT	H
<i>Halostachys belangeriana</i> (Moq.) Botsch.	IT	Ph	<i>Eryngium campestre</i> var. <i>virens</i> Link	UNK	H
<i>Halothamnus glaucus</i> (M.Bieb.) Botsch.	IT	Ch	<i>Eryngium giganteum</i> M.Bieb.	UNK	H
<i>Kalidium caspicum</i> (L.) Ung.-Sternb.	IT	Ch	<i>Falcaria vulgaris</i> Bernh.	UNK	H
<i>Noaea mucronata</i> subsp. <i>mucronata</i> (Forssk.) Asch. & Schweinf.	UNK	Ch	<i>Ferula caspica</i> M.Bieb.	UNK	H
<i>Petrosimonia brachiata</i> (Pall.) Bunge	UNK	Th	<i>Ferula orientalis</i> L.	IT	H
<i>Petrosimonia glauca</i> (Pall.) Bunge	IT	Th	<i>Ferula rigidula</i> Fisch. ex DC.	IT	H
<i>Petrosimonia squarrosa</i> (Schrenk) Bunge	IT	Th	<i>Ferula szowitsiana</i> DC.	IT	H
<i>Salicornia perennans</i> Wild.	UNK	Th	<i>Heracleum trachyloma</i> Fisch. & C.A.Mey.	UNK	H
<i>Salsola crassa</i> M.Bieb.	IT	Th	<i>Malabaila dasyantha</i> (K.Koch) Grossh.	IT	H
<i>Salsola dendroides</i> Pall.	IT	Ch	<i>*Malabaila lasiocarpa</i> Boiss.	IT	H
<i>Salsola macera</i> Litv.	IT	Th	<i>Malabaila secacul</i> (Mill.) Boiss. subsp. <i>secacul</i>	UNK	H
<i>Salsola nitraria</i> Pall.	IT	Th	<i>*Pastinaca armena</i> Fisch. & C.A.Mey.	UNK	H
<i>Salsola tragus</i> L. subsp. <i>tragus</i>	UNK	Th	<i>Pastinaca pimpinellifolia</i> M.Bieb.	UNK	H
<i>Salsola verrucosa</i> M.Bieb.	IT	Ch	<i>Peucedanum longifolium</i> Waldst. & Kit.	ES	H
<i>Seidlitzia florida</i> (M.Bieb.) Bunge ex Boiss.	UNK	Th	<i>Pimpinella aromatica</i> M.Bieb.	UNK	H
<i>Suaeda acuminata</i> Moq.	UNK	Th	<i>Pimpinella aurea</i> DC.	IT	H
<i>Suaeda altissima</i> Pall.	UNK	Th	<i>Pimpinella rhodantha</i> Boiss.	UNK	H
<i>Suaeda linifolia</i> Pall.	IT	Th	<i>Pimpinella saxifraga</i> L.	UNK	H
<i>Suaeda microphylla</i> Pall.	IT	Ch	<i>Pimpinella tragium</i> subsp. <i>lithophila</i> (Schischk.) Tutin	UNK	H
Amaryllidaceae			<i>Prangos ferulacea</i> (L.) Lindl.	UNK	H
<i>Allium akaka</i> S.G.Gmel. ex Schult. & Schult.f.	IT	G	<i>Scandix iberica</i> M.Bieb.	UNK	Th

Table 1. Alphabetical order of the Floristical list (continued)

Plant Taxa Name	Phyt. Reg.	Life Form	Plant Taxa Name	Phyt. Reg.	Life Form
Apiaceae			<i>Carduus nutans</i> subsp. <i>leiophyllus</i> (Petrovič) Stoj. & Stef.	UNK	H
<i>Szovitsia callicarpa</i> Fisch. & C.A.Mey.	IT	Th	<i>Carduus nutans</i> subsp. <i>nutans</i> L.	UNK	H
* <i>Trinia scabra</i> Boiss. & Noë	IT	H	<i>Centaurea aucheri</i> (DC.) Wagenitz	IT	H
<i>Turgenia latifolia</i> (L.) Hoffm.	UNK	Th	<i>Centaurea glastifolia</i> L.	IT	H
<i>Zosima absinthifolia</i> (Vent.) Link	UNK	H	<i>Centaurea iberica</i> Trev. ex Spreng.	UNK	Th
Apocynaceae			<i>Centaurea pseudoscabiosa</i> subsp. <i>araratica</i> (Azn.) Wagenitz	IT	H
<i>Apocynum venetum</i> subsp. <i>sarmatiense</i> (Woodson) ined.	EM	H	<i>Centaurea pseudoscabiosa</i> subsp. <i>glehnii</i> (Trautv.) Wagenitz	IT	H
<i>Cynanchum acutum</i> subsp. <i>acutum</i> L.	UNK	H	<i>Centaurea pseudoscabiosa</i> subsp. <i>pseudoscabiosa</i> Boiss. & Buhse	UNK	H
<i>Vincetoxicum troleum</i> Boiss.	IT	H	<i>Centaurea pterocaula</i> Trautv.	IT	H
Asparagaceae			<i>Centaurea pulchella</i> Ledeb.	IT	Th
<i>Asparagus palaestinus</i> Baker	EM	G	* <i>Centaurea saligna</i> (K.Koch) Wagenitz	IT	H
<i>Asparagus persicus</i> Baker	IT	G	<i>Centaurea solstitialis</i> subsp. <i>solstitialis</i> L.	UNK	Th
* <i>Bellevia forniculata</i> (Fomin) Delaunay	IT	G	<i>Centaurea virgata</i> Lam.	IT	Ch
<i>Bellevia paradoxa</i> (Fisch.&C.A.Mey.) Boiss.	IT	G	<i>Chondrilla juncea</i>	UNK	H
<i>Bellevia speciosa</i> Woronow ex Grossh.	UNK	G	<i>Cichorium intybus</i> L.	UNK	H
<i>Muscari armeniacum</i> Leichtlin ex Baker	UNK	G	<i>Cirsium arvense</i> (L.) Scop.	UNK	H
<i>Muscari comosum</i> (L.) Mill.	M	G	<i>Cirsium bracteosum</i> DC.	IT	H
<i>Muscari tenuiflorum</i> Tausch	UNK	G	<i>Cirsium canum</i> (L.) All.	ES	H
<i>Ornithogalum montanum</i> Cirillo	EM	G	<i>Cirsium rhizocephalum</i> subsp. <i>sinuatum</i> (Boiss.) P.H.Davis & Parris	UNK	H
<i>Ornithogalum narbonneense</i> L.	M	G	<i>Cirsium simplex</i> subsp. <i>armenum</i> (DC.) Petr.	UNK	H
<i>Ornithogalum oligophyllum</i> E.D.Clarke	UNK	G	<i>Cirsium tomentosum</i> C.A.Mey.	IT	H
<i>Ornithogalum orthophyllum</i> subsp. <i>kochii</i> (Parl.) Maire & Weiller	UNK	G	<i>Cirsium vulgare</i> (Savi) Ten.	UNK	H
<i>Ornithogalum sphaerocarpon</i> A.Kern.	UNK	G	<i>Cnicus benedictus</i> L.	UNK	Th
<i>Puschkinia scilloides</i> Adams	IT	G	<i>Comiza canadensis</i> (L.) Cronquist	UNK	Th
<i>Scilla siberica</i> subsp. <i>armena</i> (Grossh.) Mordak	IT	G	<i>Cota tinctoria</i> var. <i>pallida</i> (DC.) Özbek & Vural	UNK	H
Asteraceae			<i>Cota tinctoria</i> var. <i>tinctoria</i> (L.) J.Gay	UNK	H
<i>Achillea arabica</i> Kotschy	IT	H	<i>Cousinia macroptera</i> C.A.Mey. ex DC.	IT	H
<i>Achillea millefolium</i> (L.) subsp. <i>millefolium</i> var. <i>millefolium</i>	ES	H	<i>Crepis foetida</i> L. subsp. <i>foetida</i> L.	UNK	Th
* <i>Achillea nobilis</i> subsp. <i>kurdica</i> Hub.-Mor.	IT	H	<i>Crepis foetida</i> subsp. <i>rhoeadifolia</i> (M.Bieb.) Čelak.	UNK	Th
<i>Achillea nobilis</i> subsp. <i>neilreichii</i> (A.Kern.) Velen.	ES	H	<i>Crepis frigida</i> (Boiss. & Balansa) Babç.	IT	H
<i>Achillea santolinoides</i> subsp. <i>wilhelmsii</i> (K.Koch) Greuter	IT	H	<i>Crepis pannonica</i> (Jacq.) K.Koch	UNK	H
<i>Achillea tenuifolia</i> Lam.	IT	H	<i>Crepis sahendii</i> Boiss. et Buhse	IT	H
<i>Amberboa moschata</i> (L.) DC.	UNK	Th	<i>Crepis sancta</i> subsp. <i>obovata</i> (Boiss. & Noë) Babç.	UNK	Th
<i>Anthemis cotula</i> L.	UNK	Th	<i>Crepis sancta</i> (L.) Bornm. subsp. <i>sancta</i>	UNK	Th
<i>Anthemis cretica</i> subsp. <i>anatolica</i> (Boiss.) Grierson	UNK	H	<i>Crupina vulgaris</i> Pers. ex Cass.	UNK	Th
<i>Arctium platylepis</i> (Boiss. & Balansa) Sosn. ex Grossh.	UNK	Th	<i>Cyanus cheiranthifolius</i> (Willd.) Soják	UNK	H
<i>Artemisia absinthium</i> L.	UNK	Ch	<i>Cyanus cheiranthifolius</i> var. <i>cheiranthifolius</i> (Willd.) Soják	UNK	H
<i>Artemisia austriaca</i> Jacq.	IT	H	<i>Cyanus cheiranthifolius</i> var. <i>purpurascens</i> (DC.) Wagenitz	UNK	H
<i>Artemisia campestris</i> var. <i>araratica</i> (Novopokr.) Poljakov	IT	H	<i>Cyanus depressus</i> (M.Bieb.) Soják	UNK	Th
<i>Artemisia chamaemelifolia</i> Vill.	ES	H	<i>Cyanus triumfettii</i> subsp. <i>triumfettii</i> (All.) Dostál ex Á.Löve & D.Löve	UNK	H
<i>Artemisia marschalliana</i> Sprengel	UNK	H	<i>Echinops acantholepis</i> Jaub. & Spach	IT	Th
<i>Artemisia santonicum</i> subsp. <i>santonicum</i>	UNK	Ch	<i>Echinops pungens</i> var. <i>pungens</i> Trautv.	IT	H
<i>Artemisia scoparia</i> L.	UNK	H	<i>Erigeron acris</i> subsp. <i>pycnotrichus</i> (Vierh.) Grierson	ES	H
<i>Artemisia spicigera</i> K.Koch	IT	Ch	<i>Erigeron caucasicus</i> subsp. <i>venustus</i> (Botsch.) Grierson	UNK	H
<i>Aster alpinus</i> L.	UNK	H	<i>Filago arvensis</i> L.	UNK	Th
<i>Aster amellus</i> subsp. <i>ibericus</i> (Stev.) V.E.Avet.	UNK	G	<i>Helichrysum arenarium</i> subsp. <i>rubicundum</i> (K.Koch) P.H.Davis & Kupicha	IT	H
* <i>Carduus acanthoides</i> subsp. <i>sintensis</i> Kazmi	IT	H	<i>Helichrysum pallasii</i> (Spreng.) Ledeb.	IT	H
<i>Carduus hamulosus</i> Ehrh.	ES	H	<i>Helichrysum plicatum</i> subsp. <i>plicatum</i> DC.	UNK	H
<i>Carduus nawaschinii</i> Bordz.	UNK	H	<i>Hieracium pollichiae</i> Sch.Bip.	ES	H
<i>Carduus nervosus</i> K.Koch	IT	Th	<i>Hieracium umbellatum</i> L.	UNK	H

Table 1. Alphabetical order of the Floristical list (continued)

Plant Taxa Name	Phyt. Reg.	Life Form	Plant Taxa Name	Phyt. Reg.	Life Form
Asteraceae			<i>Tripleurospermum parviflorum</i> (Willd.) Pobed.	UNK	Th
<i>Inula britannica</i> L.	ES	H	<i>Xanthium orientale</i> subsp. <i>italicum</i> (Moretti) Greuter	UNK	Th
<i>Jurinea pulchella</i> (Fisch. ex Hornem.) DC.	IT	H	<i>Xanthium spinosum</i> L.	UNK	Th
<i>Jurinella moschus</i> subsp. <i>moschus</i> (Hablitz) Bobrov	IT	H	<i>Xeranthemum annuum</i> L.	UNK	Th
<i>Jurinella moschus</i> subsp. <i>pinnatisecta</i> (Boiss.) Danin & P.H.Davis	IT	H	Berberidaceae		
<i>Klasaea coriacea</i> (Fisch. & C.A.Mey. ex DC.) Holub	IT	H	<i>Berberis crataegina</i> DC.	UNK	Ch
<i>Koelpinia linearis</i> Pall.	IT	Th	<i>Berberis vulgaris</i> L.	UNK	Ch
<i>Lactuca serriola</i> L.	ES	H	Betulaceae		
<i>Lactuca undulata</i> Ledeb.	IT	Th	<i>Betula pendula</i> Roth	UNK	Ph
<i>Leontodon asperimus</i> (Willd.) Endl.	IT	H	Boraginaceae		
<i>Oligochaeta divaricata</i> (Fisch. & C.A.Mey.) K.Koch	IT	Th	<i>*Alkanna cordifolia</i> K.Koch	IT	H
<i>Onopordum acanthium</i> L.	UNK	H	<i>*Alkanna kotschvana</i> A.DC.	EM	H
<i>Onopordum armenum</i> Grossh.	IT	H	<i>Alkanna orientalis</i> var. <i>orientalis</i> (L.) Boiss.	IT	H
<i>Onopordum turcicum</i> Danin	IT	H	<i>Anchusa azurea</i> var. <i>azurea</i> Mill.	UNK	H
<i>Pilosella cymosa</i> (L.) F.W.Schultz & Sch.Bip.	UNK	H	<i>Anchusa azurea</i> var. <i>kurdica</i> (Guşul.) D.F.Chamb.	UNK	H
<i>Pilosella echioides</i> subsp. <i>echioides</i> (Lumn.) F.W.Schultz & Sch.Bip.	ES	H	<i>Anchusa azurea</i> var. <i>macrocarpa</i> (Boiss.&Hohen.) D.F.Chamb	UNK	H
<i>Pilosella hoppeana</i> subsp. <i>troica</i> (Zahn) P.D.Sell & C.West	UNK	H	<i>Anchusa strigosa</i> Banks & Sol.	UNK	H
<i>Pilosella x fallax</i> (Willd.) Arvet-Touvet	UNK	H	<i>Arnebia decumbens</i> (Vent.) Coss. & Kralik	IT	Th
<i>Pilosella x maschukensis</i> (Litw. et Zahn) Sojak	UNK	H	<i>Arnebia linearifolia</i> DC.	IT	Th
<i>Pilosella x sintenisii</i> (Frey) Sojak	UNK	H	<i>Asperugo procumbens</i> L.	ES	Th
<i>Psephellus pulcherrimus</i> (Willd.) Wagenitz	UNK	H	<i>Buglossoides arvensis</i> subsp. <i>sibthorpiana</i> (Griseb.) R.Fern.	UNK	Th
<i>Reichardia dichotoma</i> (Vahl) Freyn	IT	H	<i>Buglossoides incrassata</i> (Guss.) I.M.Johnst.	M	Th
<i>Rhaponticum repens</i> (L.) Hidalgo	IT	H	<i>Caccinia macranthera</i> var. <i>crassifolia</i> (Vent.) Brand	IT	H
<i>Scorzonera cana</i> var. <i>cana</i> (C.A.Mey.) Griseb.	UNK	H	<i>Cerinthe minor</i> subsp. <i>auriculata</i> (Ten.) Domac	UNK	H
<i>Scorzonera cana</i> var. <i>jacquiniana</i> (W.Koch) D.F.Chamb.	UNK	H	<i>Cerinthe minor</i> subsp. <i>minor</i> L.	ES	H
<i>Scorzonera cana</i> var. <i>radicosa</i> (Boiss.) D.F.Chamb.	UNK	H	<i>Echium angustifolium</i> Mill.	EM	H
<i>Scorzonera laciniata</i> subsp. <i>laciniata</i> L.	UNK	Th	<i>Echium italicum</i> L.	M	H
<i>Scorzonera mollis</i> subsp. <i>mollis</i> M.Bieb.	UNK	H	<i>Echium vulgare</i> L.	ES	H
<i>Scorzonera mollis</i> Bieb. subsp. <i>szowitzii</i> (DC.) Chamberlain	IT	H	<i>Heliotropium dolosum</i> De Not.	UNK	Th
<i>Scorzonera parviflora</i> Jock.	UNK	H	<i>Heliotropium ellipticum</i> Ledeb.	IT	Th
<i>Scorzonera suberosa</i> subsp. <i>suberosa</i> K.Koch	IT	G	<i>Heliotropium hirsutissimum</i> Grauer	EM	Th
<i>Senecio vernalis</i> Waldst. & Kit.	UNK	Th	<i>Lappula barbata</i> (M.Bieb.) Gürke	IT	H
<i>Sonchus asper</i> subsp. <i>glaucescens</i> (Jord.) Ball	UNK	Th	<i>Lappula microcarpa</i> (Ledeb.) Gürke	UNK	H
<i>Tanacetum parthenifolium</i> (Willd.) Sch. Bip.	UNK	Th	<i>Lappula patula</i> (Lehm.) Asch. ex Gürke	UNK	Th
<i>Tanacetum aureum</i> (Lam.) Greuter, M.V.Agab. & Wagenitz	UNK	H	<i>Lappula sinaica</i> (DC.) Asch. & Schweinf.	IT	Th
<i>Tanacetum polycephalum</i> subsp. <i>argyrophyllum</i> (K.Koch) Podlech	IT	H	<i>Lappula spinocarpos</i> (Forssk.) Asch. ex Kuntze	IT	Th
<i>Tanacetum punctatum</i> (Desr.) Grierson	UNK	H	<i>Lycopsis orientalis</i> L.	UNK	Th
<i>Taraxacum androssovii</i> Schischk.	UNK	H	<i>Myosotis alpestris</i> subsp. <i>alpestris</i> F.W.Schmidt	UNK	H
<i>Taraxacum bessarabicum</i> (Hornem.) Hand.-Mazz.	UNK	H	<i>Myosotis amoena</i> Boiss.	UNK	H
<i>Taraxacum fedtschenkoi</i> Hand.-Mazz.	UNK	H	<i>Myosotis heteropoda</i> Trautv.	IT	Th
<i>Taraxacum macrolepium</i> Schischk.	UNK	H	<i>Myosotis incrassata</i> Guss.	EM	Th
<i>Taraxacum stevenii</i> DC.	IT	H	<i>Myosotis laxa</i> subsp. <i>caespitosa</i> (Schultz) Hyl. ex. Nordh.	UNK	Th
<i>*Tragopogon aureus</i> Boiss.	UNK	H	<i>Myosotis olympica</i> Boiss.	UNK	H
<i>Tragopogon coloratus</i> C.A.Mey.	IT	H	<i>*Myosotis platphylla</i> Boiss.	IT	H
<i>Tragopogon dubius</i> Scop.	UNK	H	<i>Myosotis propinqua</i> Fisch. & C.A.Mey.	UNK	H
<i>Tragopogon pratensis</i> subsp. <i>orientalis</i> (L.) Čelak.	ES	H	<i>Myosotis sparsiflora</i> Pohl	ES	Th
<i>Tragopogon reticulatus</i> Boiss. & Huet	UNK	H	<i>Myosotis stricta</i> Roem. & Schult.	ES	Th
<i>Tripleurospermum elongatum</i> (DC.) Bomm.	UNK	H	<i>Neotostema apulum</i> (L.) I. M. Johnst.	M	Th
<i>Tripleurospermum melanolepis</i> (Boiss. & Buhse) Pobed.	UNK	G	<i>Nonea anchusoides</i> Boiss. & Buhse	IT	H
<i>*Tripleurospermum monticolum</i> (Boiss. & A.Huet) Bomm.	UNK	H	<i>Nonea caspica</i> (Willd.) G. Don	IT	Th

Table 1. Alphabetical order of the Floristical list (continued)

Plant Taxa Name	Phyt. Reg.	Life Form	Plant Taxa Name	Phyt. Reg.	Life Form
Boraginaceae			<i>Erysimum uncinatifolium</i> Boiss.	ES	Th
<i>*Nonea macrosperma</i> Boiss. & Heldr.	IT	H	<i>Euclidium syriacum</i> (L.) Aiton	UNK	Th
<i>Nonea melanocarpa</i> Boiss.	IT	Th	<i>*Hesperis armena</i> Boiss.	UNK	H
<i>Nonea persica</i> Boiss.	IT	H	<i>Hornungia procumbens</i> (L.) Hayek	UNK	Th
<i>*Nonea stenosolen</i> Boiss. & Balansa	IT	H	<i>*Isatis candolleana</i> Boiss.	IT	H
<i>Nonea versicolor</i> (Steven) Sweet	UNK	Th	<i>Isatis ornithorhynchus</i> N.Busch	IT	Th
<i>Onosma araratrica</i> Riedl	UNK	H	<i>Lepidium cartilagineum</i> subsp. <i>crassifolium</i> (Waldst. & Kit.) Thell.	UNK	H
<i>*Onosma argentata</i> Hub.-Mor.	IT	H	<i>Lepidium chalepense</i> L.	UNK	H
<i>*Onosma bornmuelleri</i> Hausskn. & Bornm.	IT	H	<i>Lepidium draba</i> L.	UNK	H
<i>Onosma gracilis</i> Trautv.	IT	H	<i>Lepidium latifolium</i> L.	UNK	H
<i>*Onosma nigricaulis</i> Riedl	UNK	H	<i>Lepidium perfoliatum</i> L.	UNK	Th
<i>*Onosma proballanthera</i> Rech.f.	IT	H	<i>Lepidium sativum</i> subsp. <i>sativum</i> L.	UNK	Th
<i>Onosma trachytricha</i> Boiss.	IT	H	<i>Lepidium vesicarium</i> L.	IT	Th
<i>Paracaryum strictum</i> (K.Koch) Boiss.	IT	H	<i>Microthlaspi perfoliatum</i> (L.) F.K.Mey.	UNK	Th
<i>Pontechium maculatum</i> (L.) U.-R.Böhle & Hilger	ES	H	<i>Myagrum perfoliatum</i> L.	UNK	Th
<i>Rindera lanata</i> var. <i>lanata</i> (Lam.) Bunge	IT	H	<i>Neotorularia contortuplicata</i> (Stephan ex Willd.) Hedge & J.Léonard	UNK	Th
<i>*Rochelia disperma</i> var. <i>microcalycina</i> (Bornm.) Edmondson	IT	Th	<i>Neotorularia torulosa</i> (Desf.) Hedge & J.Léonard	UNK	Th
Brassicaceae			<i>Noccaea trinervia</i> (DC.) Steud.	UNK	Ch
<i>Aethionema diastrophis</i> Bunge	UNK	H	<i>Olimarabidopsis pumila</i> (Čelak.) Al-Shehbaz, O'Kane & R.A.Price	UNK	Th
<i>Alyssum stapfii</i> Vierh.	IT	Th	<i>Rapistrum rugosum</i> (L.) All.	UNK	Th
<i>Alyssum aureum</i> (Fenzl) Boiss.	IT	H	<i>Sameraria armena</i> (L.) Desv.	IT	Th
<i>Alyssum desertorum</i> Stapf.	UNK	Th	<i>Sinapis arvensis</i> L.	UNK	Th
<i>Alyssum linifolium</i> var. <i>linifolium</i> Stephan ex. Willd.	UNK	Th	<i>Sisymbrium altissimum</i> L.	UNK	Th
<i>Alyssum minutum</i> Schlecht. ex DC.	UNK	Th	<i>Sisymbrium loeselii</i> L.	UNK	Th
<i>Alyssum simplex</i> Rudolph	UNK	Th	<i>Sobolewsia clavata</i> (Boiss.) Fenzl	UNK	H
<i>Alyssum strigosum</i> Banks & Sol.	UNK	Th	<i>Sterigmostemum incanum</i> M.Bieb.	IT	H
<i>Arabidopsis thaliana</i> (L.) Heynh.	UNK	Th	<i>Strigosella africana</i> (L.) Botsch.	UNK	Th
<i>Arabis alpina</i> L.	UNK	H	<i>Thlaspi arvense</i> L.	UNK	Th
<i>Arabis nova</i> Vill.	UNK	Th	<i>Thlaspi huetii</i> Boiss.	UNK	Th
<i>Barbarea plantaginea</i> DC.	UNK	H	<i>Turritis glabra</i> L.	UNK	Th
<i>Barbarea vulgaris</i> subsp. <i>vulgaris</i> R. Br.	UNK	H	Campanulaceae		
<i>Bunias orientalis</i> L.	UNK	H	<i>Asyneuma amplexicaule</i> subsp. <i>aucheri</i> (A. DC.) Bornm.	IT	H
<i>Camelina rumelica</i> Velen.	UNK	Th	<i>Asyneuma rigidum</i> subsp. <i>rigidum</i> (Willd.) Grossh.	IT	H
<i>Camelina hispida</i> Boiss.	UNK	Th	<i>Asyneuma virgatum</i> subsp. <i>virgatum</i> (Labill.) Bornm.	UNK	H
<i>Capsella bursa-pastoris</i> (L.) Medik.	UNK	Th	<i>Campanula armena</i> Steven	UNK	H
<i>Cardamine penzesii</i> Ančev & Marhold	UNK	G	<i>Campanula aucheri</i> A.DC.	UNK	G
<i>Chorispora tenella</i> (Pall.) DC.	UNK	Th	<i>*Campanula betulifolia</i> var. <i>betulifolia</i> K.Koch	UNK	H
<i>Conringia orientalis</i> (L.) Dumort.	UNK	Th	<i>Campanula crispa</i> Lam.	UNK	H
	UNK	Th	<i>Campanula glomerata</i> subsp. <i>hispida</i> (Witasek) Hayek	ES	H
<i>Descurainia sophia</i> subsp. <i>sophia</i> (L.) Webb ex Prantl			<i>Campanula lactiflora</i> M.Bieb.	UNK	H
<i>Diplotaxis tenuifolia</i> (L.) DC.	UNK	H	<i>Campanula stevenii</i> subsp. <i>stevenii</i> M.Bieb.	IT	H
<i>Draba polytricha</i> Ledeb.	UNK	H	<i>Campanula beauverdiana</i> (Fomin) Rech.f. & Schiman-Czeika, Rech.f		
<i>Draba bruniifolia</i> Steven	UNK	H	<i>Campanula stevenii</i> subsp. <i>stevenii</i> M.Bieb.	UNK	H
<i>*Draba cappadocica</i> Boiss. & Balansa	IT	H	Cannabaceae		
<i>Draba nemorosa</i> L.	UNK	Th	<i>Cannabis sativa</i> L.	UNK	Th
<i>Draba nuda</i> (Bélanger) Al-Shehbaz & M.Koch	UNK	Th	<i>Celtis tournefortii</i> Lam.	UNK	Ph
<i>Eruca sativa</i> Mill.	UNK	Th	Cappareceae		
	UNK	H	<i>Capparis sicula</i> subsp. <i>herbacea</i> (Willd.) Inocencio, D.Rivera, Obón & Alcaraz	UNK	Ch
<i>Erysimum crassipes</i> Fisch. & C.A.Mey.			Caprifoliaceae		
<i>*Erysimum leptocarpum</i> J.Gay	UNK	H	<i>Cephalaria procera</i> Fisch. & Avé-Lall.	IT	H
<i>Erysimum huber-morathii</i> Polatschek	UNK	Th	<i>Lonicera caucasica</i> Pall.	UNK	Ph
<i>*Erysimum sintenisianum</i> Bornm.	IT	H			

Table 1. Alphabetical order of the Floristical list (continued)

Plant Taxa Name	Phyt. Reg.	Life Form	Plant Taxa Name	Phyt. Reg.	Life Form
Caprifoliaceae			<i>*Minuartia umbellulifera</i> subsp. <i>umbellulifera</i> var. <i>kurdica</i> McNeill	IT	H
<i>Scabiosa argentea</i> L.	UNK	H	<i>Minuartia verna</i> (L.) Hiern		H
<i>Scabiosa calocephala</i> Boiss.	IT	Th	<i>Paronychia kurdica</i> subsp. <i>kurdica</i> var. <i>kurdica</i> Boiss.		H
<i>Scabiosa columbaria</i> subsp. <i>ochroleuca</i> var. <i>ochroleuca</i> (L.) Čelak.	UNK	H	<i>Petrorhagia alpina</i> (Hablitz) P.W.Ball & Heywood		Th
<i>Scabiosa rotata</i> M.Bieb.	IT	Th	<i>Scleranthus perennis</i> subsp. <i>dichotomus</i> (Schur) Nyman		H
<i>Valeriana leucophaea</i> DC.	UNK	H	<i>Silene marschallii</i> C. A. Meyer	IT	H
<i>Valeriana sisymbriifolia</i> Vahl	IT	Th	<i>Silene arguta</i> Fenzl		H
<i>Valerianella oxyrhyncha</i> Fisch. & C.A.Mey.	IT	Th	<i>Silene compacta</i> Fisch. ex Hornem.		H
<i>Valerianella plagiostephana</i> Fisch. & C.A.Mey.	UNK	Th	<i>Silene conica</i> L.		Th
Caryophyllaceae			<i>Silene dianthoides</i> Pers.	IT	H
<i>Agrostemma githago</i> L.	UNK	Th	<i>Silene dichotoma</i> subsp. <i>dichotoma</i> Ehrh.		H
<i>Allochrusa bungei</i> Boiss.	IT	H	<i>Silene eremitica</i> Boiss.	IT	H
<i>Allochrusa versicolor</i> (Fisch. & C.A.Mey.) Boiss.	IT	Ch	<i>Silene italica</i> (L.) Pers.	M	H
<i>Arenaria balansae</i> Boiss.	UNK	H	<i>Silene latifolia</i> subsp. <i>alba</i> (Miller) Greuter & Burdet		H
<i>*Arenaria macrosepala</i> Boiss.	UNK	H	<i>Silene pungens</i> Boiss.	IT	H
<i>Arenaria serpyllifolia</i> subsp. <i>leptoclados</i> (Rechb.) Nyman	UNK	Th	<i>Silene stenobotrys</i> Boiss. & Hausskn.	IT	H
<i>Bufonia tenuifolia</i> L.	UNK	Th	<i>Silene vulgaris</i> var. <i>vulgaris</i> (Moench) Garcke		H
<i>*Cerastium araraticum</i> Rupr.	IT	H	Cleomaceae		
<i>*Cerastium armeniacum</i> Gren.	IT	Th	<i>Cleome steveniana</i> Schultes	IT	Th
<i>Cerastium cerastioides</i> (L.) Britt.	UNK	H	Colchicaceae		
<i>Cerastium dichotomum</i> subsp. <i>dichotomum</i> L.	UNK	Th	<i>Colchicum trigynum</i> (Steven ex Adam) Stearn	IT	G
<i>*Cerastium gnaphalodes</i> Fenzl	UNK	H	Convolvulaceae		
<i>Cerastium purpurascens</i> Adams	UNK	H	<i>Calystegia sepium</i> subsp. <i>sepium</i> (L.) R.Br.	UNK	H
<i>Dianthus calocephalus</i> Boiss.	UNK	H	<i>Convolvulus arvensis</i> L.	UNK	H
<i>Dianthus crinitus</i> var. <i>crinitus</i> SM.	UNK	H	<i>Convolvulus lineatus</i> L.	UNK	H
<i>Dianthus floribundus</i> Boiss.	IT	H	<i>Convolvulus scammonia</i> L.	EM	H
<i>Dianthus strictus</i> Banks & Sol.	UNK	H	<i>Cuscuta campestris</i> Yunck.	UNK	Th
<i>Dianthus tabrisianus</i> Bien. ex Boiss.	IT	H	Crassulaceae		
<i>Dianthus zonatus</i> var. <i>aristatus</i> (Boiss.) Reeve	UNK	H	<i>Hylotelephium telephium</i> (L.) H.Ohba	ES	H
<i>Dianthus zonatus</i> var. <i>zonatus</i> Fenzl	UNK	H	<i>Prometheum pilosum</i> (M.Bieb.) H.Ohba	UNK	H
<i>Eremogone blepharophylla</i> (Boiss.) Ikonn.	IT	H	<i>Prometheum sempervivoides</i> (Fischer ex M.Bieb.) H.Ohba	UNK	H
<i>Eremogone gypsophiloides</i> (L.) Fenzl	IT	H	<i>Sedum annuum</i> L.	ES	Th
<i>*Gypsophila bitlisensis</i> Barkoudah	IT	Th	<i>Sedum armenum</i> Boiss.	UNK	H
<i>*Gypsophila brachypetala</i> Trautv.	UNK	H	<i>Sedum hispanicum</i> L.	IT	H
<i>Gypsophila elegans</i> M.Bieb.	IT	Th	<i>Sedum nanum</i> Boiss.	IT	Th
<i>Gypsophila hispida</i> Boiss.	IT	H	<i>Sedum subulatum</i> (C.A.Mey.) Boiss.	UNK	H
<i>Gypsophila nabelekii</i> Schischk.	IT	Ch	<i>Sedum tenellum</i> M.Bieb.	UNK	H
<i>*Gypsophila paniculata</i> var. <i>araratica</i> Hub.-Mor.	UNK	H	<i>Sempervivum armenum</i> subsp. <i>armenum</i> Boiss. & A.Huet	UNK	H
<i>*Gypsophila perfoliata</i> var. <i>araratica</i> Kit Tan	IT	H	<i>Sempervivum davisii</i> subsp. <i>davisii</i> Muirhead	UNK	H
<i>Gypsophila perfoliata</i> var. <i>perfoliata</i> L.	UNK	H	Cucurbitaceae		
<i>*Herniaria argaea</i> Boiss.	UNK	H	<i>Bryonia multiflora</i> Boiss. & Heldr.	IT	H
<i>Herniaria glabra</i> L.	UNK	Th	<i>Bryonia aspera</i> Stev. ex Ledeb.	UNK	H
<i>Herniaria incana</i> Lam.	UNK	H	Cupressaceae		
<i>Holosteum umbellatum</i> var. <i>glutinatum</i> (M.Bieb.) Gay	UNK	Th	<i>Juniperus oxycedrus</i> subsp. <i>oxycedrus</i> var. <i>oxycedrus</i> f. <i>oxycedrus</i> L.	UNK	Ph
<i>Holosteum umbellatum</i> var. <i>umbellatum</i> L.	UNK	Th	Cyperaceae		
<i>Leprodiclis holosteoides</i> (C.A.Mey.) Fenzl ex Fisch. & C.A.Mey.	UNK	H	<i>Blysmus compressus</i> subsp. <i>compressus</i> (L.) Panz. ex Link	UNK	H
<i>Minuartia erythrosepala</i> (Boiss.) Hand.-Mazz.	UNK	H	<i>Bolboschoenus maritimus</i> subsp. <i>maritimus</i> (L.) Palla	UNK	H
<i>*Minuartia glandulosa</i> (Boiss. & A.Huet) Bomm.	IT	H	<i>Carex atrata</i> subsp. <i>atrata</i> L.	ES	H
<i>Minuartia lineata</i> Bomm.	IT	H	<i>Carex cuprina</i> (Sándor ex Heuff.) Nendtv. ex A.Kern.	ES	H
<i>Minuartia recurva</i> subsp. <i>oreina</i> (Mattf.) McNeill	UNK	H	<i>Carex distans</i> subsp. <i>distans</i> L.	ES	H

Table 1. Alphabetical order of the Floristical list (continued)

Plant Taxa Name	Phyt. Reg.	Life Form	Plant Taxa Name	Phyt. Reg.	Life Form
Cyperaceae			<i>Astragalus latifolius</i> Lam.	IT	H
<i>Carex divisa</i> Huds.	ES	H	<i>Astragalus lineatus</i> var. <i>lineatus</i> Lam.	IT	H
<i>Carex melanostachya</i> M.Bieb. ex Willd.	UNK	H	* <i>Astragalus lycius</i> Boiss.	UNK	Ch
<i>Carex pachystylis</i> J.Gay	IT	G	<i>Astragalus macrostachys</i> DC.	IT	H
<i>Carex pallescens</i> L.	UNK	H	<i>Astragalus maximus</i> Willd.	UNK	H
<i>Carex supina</i> var. <i>supina</i> Wahlenb.	ES	H	<i>Astragalus microcephalus</i> Willd.	IT	Ch
<i>Carex tristis</i> M.Bieb.	UNK	H	<i>Astragalus mollis</i> M.Bieb.	IT	H
<i>Cyperus longus</i> subsp. <i>longus</i> L.	UNK	H	<i>Astragalus onobrychis</i> L.	UNK	H
<i>Eleocharis palustris</i> subsp. <i>palustris</i> (L.) Roem. & Schult	UNK	H	<i>Astragalus ornithopodioides</i> Lam.	IT	H
<i>Schoenoplectus tabernaemontani</i> (C.C.Gmel.) Palla	UNK	H	<i>Astragalus oxygloitis</i> Steven ex M.Bieb	UNK	Th
Cystopteridaceae			<i>Astragalus paradoxus</i> Bunge	IT	H
<i>Cystopteris fragilis</i> (L.) Bernh.	UNK	Fern	<i>Astragalus persicus</i> (DC.) Fisch. & C.A.Mey.	IT	Ch
Elaeagnaceae			<i>Astragalus pinetorum</i> subsp. <i>declinatus</i> Podlech	IT	Ch
<i>Elaeagnus angustifolia</i> L.	UNK	Ph			
Ephedraceae			<i>Astragalus pinetorum</i> subsp. <i>pinetorum</i> Boiss.	IT	H
<i>Ephedra distachya</i> subsp. <i>distachya</i> L.	UNK	Ph	<i>Astragalus robustus</i> Bunge	IT	H
<i>Ephedra major</i> Host subsp. <i>major</i>	UNK	H	<i>Astragalus shelkovnikovii</i> Grossh.	IT	H
Equisetaceae			<i>Astragalus stevenianus</i> var. <i>stevenianus</i> DC.	UNK	H
<i>Equisetum giganteum</i> L.	UNK	Fern	<i>Astragalus tigridis</i> Boiss.	IT	H
Euphorbiaceae			<i>Astragalus tribuloides</i> Delile	IT	Th
<i>Euphorbia cheiradenia</i> Boiss. & Hohen.	IT	H	<i>Astragalus viciifolius</i> DC.	UNK	H
<i>Euphorbia esula</i> subsp. <i>tommasiniana</i> (Bertol.) Kuzmanov	UNK	H	<i>Astragalus viridis</i> Bunge	IT	Ch
<i>Euphorbia heteradena</i> Jaub. & Spach	IT	H	<i>Astragalus xerophilus</i> Ledeb.	IT	Ch
<i>Euphorbia iberica</i> Boiss.	IT	H	<i>Astragalus xylobasis</i> Freyn & Bomm.	IT	H
<i>Euphorbia macroclada</i> Boiss.	IT	H	<i>Glycyrrhiza echinata</i> L.	UNK	H
<i>Euphorbia marschalliana</i> subsp. <i>armena</i> (Prokh.) Oudejans	IT	H	<i>Glycyrrhiza glabra</i> var. <i>glabra</i> L.	UNK	H
<i>Euphorbia marschalliana</i> subsp. <i>marschalliana</i> Boiss.	IT	H	<i>Hedysarum elegans</i> Boiss. & Huet	IT	H
<i>Euphorbia orientalis</i>	IT	H	<i>Hedysarum hedysaroides</i> (L.) Schinz & Thell.	UNK	H
<i>Euphorbia seguieriana</i> subsp. <i>nicitiana</i> (Borbás ex Novák) Rech.f.	UNK	H	<i>Lathyrus cicera</i> L.	UNK	Th
<i>Euphorbia seguieriana</i> subsp. <i>seguieriana</i> Neck.	ES	H	<i>Lathyrus pallescens</i> (M.Bieb.) K.Koch	UNK	H
Fabaceae			<i>Lathyrus pratensis</i> L.	ES	H
<i>Alhagi maurorum</i> subsp. <i>maurorum</i> Medik.	IT	Ch	<i>Lathyrus rotundifolius</i> subsp. <i>miniatus</i> (M.Bieb. ex Steven) P.H.Davis	UNK	H
<i>Astragalus adustus</i> Bunge	IT	Ch	<i>Lathyrus tuberosus</i> L.	ES	G
<i>Astragalus angustiflorus</i> subsp. <i>angustiflorus</i> K.Koch	IT	H		UNK	H
<i>Astragalus arguricus</i> Bunge	IT	H	<i>Lotus corniculatus</i> var. <i>alpinus</i> Ser.		
<i>Astragalus argyroides</i> Beck	IT	H	<i>Lotus corniculatus</i> var. <i>corniculatus</i> L.	UNK	H
<i>Astragalus aureus</i> Willd.	IT	Ch	<i>Lotus corniculatus</i> var. <i>tenuifolius</i> L.	UNK	H
<i>Astragalus brachycalyx</i> Fisch. ex Boiss.	IT	Ch	<i>Lotus gebelia</i> var. <i>hirsutissimus</i> (Ledeb.) Dinsm.	UNK	H
<i>Astragalus cancellatus</i> Bunge	IT	Ch	<i>Medicago lupulina</i> L.	UNK	Th
<i>Astragalus cinereus</i> Willd.	IT	Ch	<i>Medicago minima</i> var. <i>minima</i> (L.) Bartal.	UNK	Th
* <i>Astragalus coarctatus</i> Trautv.	IT	Ch	<i>Medicago orthoceras</i> (Kar. & Kir.) Trautv.	IT	Th
<i>Astragalus fabaceus</i> M.Bieb.	IT	H	<i>Medicago papillosa</i> subsp. <i>papillosa</i> Boiss.	UNK	H
<i>Astragalus fragrans</i> Willd.	IT	H	<i>Medicago sativa</i> subsp. <i>sativa</i> L.	UNK	H
<i>Astragalus fumosus</i> Boriss.	IT	Ch	<i>Medicago x varia</i> Martyn	UNK	H
<i>Astragalus galegiformis</i> L.	ES	H	<i>Melilotus albus</i> Desr.	UNK	Th
<i>Astragalus halicacabus</i> Lam.	IT	H	<i>Melilotus officinalis</i> (L.) Desr.	UNK	Th
<i>Astragalus hyalolepis</i> Bunge	IT	H	<i>Onobrychis altissima</i> Grossh.	UNK	H
<i>Astragalus incertus</i> Ledeb.	UNK	H	<i>Onobrychis atropatana</i> var. <i>atropatana</i> Boiss.	IT	H
<i>Astragalus jodostachys</i> Boiss. & Buhse	IT	Ch	<i>Onobrychis hajastana</i> Grossh.	UNK	H
<i>Astragalus lagopoides</i> Lam.	IT	Ch	<i>Onobrychis oxydonta</i> var. <i>armena</i> (Boiss. & Huet) Aktoklu	UNK	H
			<i>Onobrychis radiata</i> (Desf.) M.Bieb.	UNK	H

Table 1. Alphabetical order of the Floristical list (continued)

Plant Taxa Name	Phyt. Reg.	Life Form	Plant Taxa Name	Phyt. Reg.	Life Form
Fabaceae			Hypericaceae		
<i>Onobrychis stenostachya</i> subsp. <i>sosnowskyi</i> (Grossh.) Hedge	IT	H	<i>Hypericum armenum</i> Jaub. & Spach	IT	H
<i>Onobrychis subacaulis</i> Boiss.	IT	Th	<i>Hypericum microcalycinum</i> Boiss. & Heldr.	IT	H
<i>Onobrychis transcaucasica</i> Grossh.	IT	H	<i>Hypericum montbretii</i> Spach	UNK	H
<i>Onobrychis viciifolia</i> Scop.	UNK	H	<i>Hypericum perforatum</i> L.	M	H
<i>Oxytropis albana</i> Steven	ES	H	<i>Hypericum perforatum</i> subsp. <i>veronense</i> (Schrank) H.Linb.	UNK	H
<i>Oxytropis lazica</i> Boiss.	ES	H	<i>Hypericum scabrum</i> L.	IT	H
<i>Pisum sativum</i> subsp. <i>sativum</i> var. <i>arvense</i> (L.) Poir.	UNK	Th	Iridaceae		
<i>Securigera orientalis</i> subsp. <i>orientalis</i> (Boiss.) Keskin	UNK	H	<i>Crocus biflorus</i> subsp. <i>tauri</i> (Maw) B.Mathew	IT	G
<i>Securigera varia</i> (L.) Lassen	UNK	H	<i>Gladiolus atrovioleaceus</i> Boiss.	IT	G
<i>Sophora alopecuroides</i> var. <i>alopecuroides</i> L.	UNK	H	<i>Gladiolus kotschyanus</i> Boiss.	IT	G
<i>Trifolium alpestre</i> L.	ES	G	<i>Iris caucasica</i> subsp. <i>caucasica</i> Hoffm.	ES	G
<i>Trifolium ambiguum</i> M.Bieb.	UNK	H	<i>Iris caucasica</i> subsp. <i>turcica</i> B.Mathew	IT	G
<i>Trifolium arvense</i> L.	UNK	Th	<i>Iris elegantissima</i> Sosn.	IT	G
<i>Trifolium campestre</i> subsp. <i>campestre</i> var. <i>campestre</i> Schreb.	UNK	Th	<i>Iris spuria</i> subsp. <i>musulmanica</i> (Fomin) Takht.	IT	G
<i>Trifolium hybridum</i> L.	UNK	H	Juncaceae		
* <i>Trifolium longidentatum</i> Nábělek	IT	H	<i>Juncus persicus</i> subsp. <i>libanoticus</i> (J.Thiébaud) Novikov & Snogerup	IT	H
<i>Trifolium montanum</i> subsp. <i>humboldtianum</i> (A.Braun & Asch.) Hossain	UNK	H	<i>Luzula spicata</i> subsp. <i>italica</i> (Parl.) Arcang.	UNK	H
<i>Trifolium pratense</i> var. <i>pratense</i> L.	UNK	H	Lamiaceae		
<i>Trifolium repens</i> var. <i>repens</i> L.	UNK	H	<i>Ajuga chamaepitys</i> subsp. <i>chia</i> (Schreb.) Arcang.	UNK	H
<i>Trifolium spadiceum</i> L.	ES	Th	<i>Ajuga orientalis</i> L.	UNK	G
<i>Trifolium trichocephalum</i> M.Bieb.	UNK	H	<i>Clinopodium graveolens</i> (M.Bieb.) Kuntze	UNK	H
<i>Trifolium tumens</i> var. <i>tumens</i> Steven & M.Bieb.	UNK	H	<i>Dracocephalum ruyschiana</i> L.	ES	H
<i>Trigonella arcuata</i> C.A.Mey.	UNK	Th	<i>Lallemantia peltata</i> (L.) Fisch. & C.A.Mey.	IT	Th
<i>Trigonella capitata</i> Boiss.	IT	Th	<i>Lamium album</i> subsp. <i>album</i> L.	ES	H
<i>Vicia biennis</i> L.	UNK	Th	<i>Lamium album</i> subsp. <i>crinitum</i> (Montbret & Aucher ex Benth.) Mennema	UNK	H
<i>Vicia canescens</i> subsp. <i>variegata</i> (Willd.) P.H.Davis	IT	H	<i>Lamium amplexicaule</i> L.	ES	Th
<i>Vicia cracca</i> subsp. <i>atroviolacea</i> (Borm.) P.H.Davis	UNK	H	<i>Leonurus glaucescens</i> Bunge	UNK	H
<i>Vicia cracca</i> subsp. <i>cracca</i> L.	ES	H	<i>Leonurus quinquelobatus</i> Gilib.	ES	H
<i>Vicia peregrina</i> L.	UNK	Th	<i>Marrubium astracanicum</i> subsp. <i>astracanicum</i> Jacq.	UNK	H
<i>Vicia sativa</i> subsp. <i>nigra</i> var. <i>nigra</i> (L.) Ehrh.	UNK	Th	<i>Marrubium parviflorum</i> subsp. <i>oligodon</i> (Boiss.) Seybold	IT	H
<i>Vicia semiglaba</i> Rupr. ex Boiss.	UNK	H	<i>Marrubium persicum</i> C.A.Mey.	IT	H
Gentianaceae			<i>Mentha arvensis</i> L.	UNK	H
<i>Centaurium tenuiflorum</i> subsp. <i>acutiflorum</i> (Schott) Zeltner	M	Th	<i>Mentha longifolia</i> subsp. <i>longifolia</i> (L.) L.	UNK	H
<i>Gentiana aquatica</i> L.	UNK	Th	<i>Mentha pulegium</i> L.	UNK	H
<i>Gentiana verna</i> subsp. <i>pontica</i> (Soltok.) Litard. & Maire	UNK	H	<i>Mentha spicata</i> subsp. <i>spicata</i> L.	UNK	H
<i>Lomatogonium carinthiacum</i> (Wulfen) Rechb.	UNK	Th	<i>Moluccella laevis</i> L.	IT	Th
<i>Swertia longifolia</i> Boiss.	UNK	H	<i>Nepeta betonicifolia</i> C.A.Mey.	IT	H
Geraniaceae			<i>Nepeta lamiifolia</i> Willd.	UNK	H
* <i>Erodium absinthoides</i> subsp. <i>absinthoides</i> Willd.	IT	H	<i>Nepeta macrosiphon</i> Boiss.	UNK	Ch
<i>Erodium absinthoides</i> subsp. <i>armenum</i> (Trautv.) P.H.Davis	IT	H	<i>Nepeta meyeri</i> Benth.	IT	Th
* <i>Erodium amanum</i> Boiss. & Kotschy	IT	H	<i>Nepeta nuda</i> subsp. <i>albiflora</i> (Boiss.) Gams	UNK	H
<i>Erodium cicutarium</i> (L.) L.Hér.	UNK	Th	<i>Nepeta racemosa</i> Lam.	IT	H
<i>Erodium hoefftianum</i> C.A.Mey.	UNK	Th	<i>Nepeta stenantha</i> Kotschy & Boiss.	IT	H
* <i>Geranium ibericum</i> subsp. <i>jubatum</i> (Hand.-Mazz.) P.H.Davis	UNK	G	<i>Nepeta stricta</i> var. <i>curvidens</i> (Boiss. & Balansa) Hedge & Lamond	IT	H
<i>Geranium lucidum</i> L.	UNK	Th	<i>Nepeta stricta</i> var. <i>stricta</i> (Banks & Sol.) Hedge & Lamond	IT	H
<i>Geranium rotundifolium</i> L.	UNK	Th	<i>Nepeta teucriifolia</i> Willd.	IT	H
<i>Geranium tuberosum</i> L.	IT	G	<i>Nepeta transcaucasica</i> Grossh.	IT	H
Haloragidaceae			<i>Origanum vulgare</i> subsp. <i>gracile</i> (K.Koch) Ietsw.	IT	H
<i>Myriophyllum spicatum</i> L.	UNK	H	<i>Origanum vulgare</i> subsp. <i>vulgare</i> L.	ES	H

Table 1. Alphabetical order of the Floristical list (continued)

Plant Taxa Name	Phyt. Reg.	Life Form	Plant Taxa Name	Phyt. Reg.	Life Form
Lamiaceae			<i>Lythrum salicaria</i> L.	ES	H
<i>Phlomis armeniaca</i> Willd.	IT	H	<i>Lythrum virgatum</i> L.	ES	H
<i>Phlomis tuberosa</i> L.	UNK	G	Malvaceae		
<i>Phlomoides laciniata</i> (L.) Kamelin & Makhm.	IT	H	<i>Alcea striata</i> subsp. <i>rufescens</i> (Boiss.) Cullen	UNK	H
<i>Salvia aethiopsis</i> L.	UNK	H	<i>Hibiscus trionum</i> L.	UNK	Th
<i>Salvia brachyantha</i> subsp. <i>brachyantha</i> (Bordz.) Pobed	IT	H	<i>Malva neglecta</i> Wallr.	UNK	Th
<i>Salvia hydrangea</i> DC. ex Benth.	IT	Ch	Moraceae		
<i>Salvia limbata</i> C.A.Mey.	IT	H	<i>Morus alba</i> L.	UNK	Ph
<i>Salvia nemorosa</i> L.	UNK	H	Nitrariaceae		
<i>Salvia pachystachys</i> Trautv.	IT	Ch	<i>Peganum harmala</i> L.	UNK	H
<i>Salvia staminea</i> Montbret & Aucher ex Benth.	IT	H	Onagraceae		
<i>Salvia verticillata</i> subsp. <i>amasiaca</i> (Freyn & Bornm.) Bornm.	IT	H	<i>Epilobium algidum</i> M.Bieb.	UNK	H
<i>Salvia verticillata</i> subsp. <i>verticillata</i> L.	ES	H	<i>Epilobium angustifolium</i> L.	UNK	H
<i>Salvia virgata</i> Jacq.	IT	H	Orchidaceae		
<i>Scutellaria orientalis</i> subsp. <i>pichleri</i> (Stapf) J.R.Edm.	IT	H	<i>Dactylorhiza romana</i> subsp. <i>georgica</i> (Klinge) Soó ex Renz & Taubenheim	UNK	G
<i>Scutellaria orientalis</i> subsp. <i>pinnatifida</i> J.R.Edm.	UNK	H	<i>Orchis coriophora</i> subsp. <i>coriophora</i> L.	UNK	G
<i>Scutellaria orientalis</i> subsp. <i>sosnowskyi</i> (Takht.) Fed.	IT	H	<i>Orchis palustris</i> subsp. <i>palustris</i> Jacq.	UNK	G
<i>Sideritis montana</i> subsp. <i>montana</i> L.	M	Th	Orobanchaceae		
<i>Stachys annua</i> subsp. <i>annua</i> var. <i>lycaonica</i> R.Bhattacharjee	IT	H	<i>Bungea trifida</i> (Vahl) C.A.Mey.	IT	H
<i>Stachys atherocalyx</i> K.Koch	ES	Ch	<i>Cistanche salsa</i> (C.A.Mey.) G.Beck	IT	Th
<i>Stachys fruticulosa</i> M.Bieb.	IT	Ch	<i>Euphrasia juzepczukii</i> Denissova	UNK	Th
<i>Stachys iberica</i> subsp. <i>georgica</i> Rech.f.	IT	Ch	<i>Euphrasia pectinata</i> Ten.	ES	Th
<i>Stachys iberica</i> subsp. <i>stenostachya</i> (Boiss.) Rech. Fil.	IT	Ch	<i>Orobanche aegyptiaca</i> Pers.	UNK	Th
<i>Stachys lavandulifolia</i> var. <i>lavandulifolia</i> Vahl	IT	Ch	<i>Orobanche alba</i> Stephan ex Willd.	UNK	Th
<i>Stachys macrostachya</i> (Wend.) Briq.	UNK	H	<i>Orobanche caesia</i> Rchb.	UNK	Th
<i>Stachys viscosa</i> Montbret & Aucher ex Benth.	IT	H	<i>Orobanche caucasica</i> Beck	UNK	Th
<i>Teucrium orientale</i> L.	IT	H	<i>Orobanche cernua</i> Loeßl.	UNK	Th
<i>Teucrium polium</i> L. subsp. <i>polium</i>	UNK	Ch	<i>Orobanche cilicica</i> Beck	UNK	Th
<i>Thymus fallax</i> Fisch. & C.A.Mey.	IT	Ch	<i>Orobanche kurdica</i> Boiss. & Hausskn. ex Boiss.	IT	Th
<i>Thymus fedtschenkoi</i> Ronniger	IT	Ch	<i>Pedicularis caucasica</i> M.Bieb.	ES	H
<i>Thymus kotschyanus</i> subsp. <i>kotschyanus</i> Boiss. & Hohen.	IT	Ch	<i>Pedicularis comosa</i> var. <i>acmodonta</i> (Boiss.) Boiss.	UNK	H
<i>Thymus migricus</i> Klokov & Des.-Shost.	IT	Ch	<i>Pedicularis comosa</i> var. <i>sibthorpii</i> (Boiss.) Boiss.	UNK	H
<i>Thymus praecox</i> subsp. <i>grossheimii</i> (Ronniger) Jalas	UNK	Ch	<i>Phelypaea coccinea</i> (M.Bieb.) Poir.	IT	Th
<i>Thymus pubescens</i> Boiss. & Kotschy ex Celak.	IT	Ch	<i>Phelypaea tournefortii</i> Desf.	IT	Th
<i>Thymus transcaucasicus</i> Ronniger	UNK	Ch	<i>Rhinanthus angustifolius</i> subsp. <i>grandiflorus</i> C. C. Gmelin	UNK	Th
<i>Ziziphora clinopodioides</i> Lam.	UNK	Ch	Papaveraceae		
<i>Ziziphora persica</i> Bunge	IT	Th	<i>Fumaria asepalae</i> Boiss	IT	Th
<i>Ziziphora taurica</i> subsp. <i>taurica</i> M.Bieb.	UNK	Th	<i>Fumaria schleicheri</i> subsp. <i>microcarpa</i> (Hausskn.) Lidén	UNK	Th
<i>Ziziphora tenuior</i> L.	IT	Th	<i>Fumaria schleicheri</i> subsp. <i>schleicheri</i> Soy.-Will.	ES	Th
Liliaceae			<i>Hypecoum pendulum</i> L.	UNK	Th
<i>Fritillaria caucasica</i> Adam	UNK	G	<i>Papaver arenarium</i> M.Bieb.	UNK	Th
<i>Fritillaria pinardii</i> Boiss.	IT	G	<i>Papaver bracteatum</i> Lindl.	UNK	H
<i>Gagea bulbifera</i> (Pall.) Salisb.	ES	G	<i>Papaver cylindricum</i> Cullen	IT	H
<i>Gagea chanae</i> Grossh.	IT	G	<i>Papaver dubium</i> subsp. <i>dubium</i> L.	UNK	Th
<i>Gagea helenae</i> Grossh.	IT	G	<i>Papaver fugax</i> var. <i>fugax</i> Poir.	UNK	H
<i>Gagea luteoides</i> Stapf	UNK	G	<i>*Papaver fugax</i> var. <i>platydiscus</i> Cullen	IT	H
<i>Gagea reticulata</i> (Pall.) Schult. & Schult.f.	IT	G	<i>Papaver lacerum</i> Popov	UNK	Th
Linaceae			<i>Papaver macrostomum</i> Boiss. & A.Huet	IT	Th
<i>Linum nervosum</i> Waldst. & Kit.	UNK	H	<i>Papaver orientale</i> L.	UNK	H
Lythraceae			<i>Papaver pseudo-orientale</i> (Fedde) Medw.	UNK	H

Table 1. Alphabetical order of the Floristical list (continued)

Plant Taxa Name	Phyt. Reg.	Life Form	Plant Taxa Name	Phyt. Reg.	Life Form
Papaveraceae			<i>Catabrosella fibrosa</i> (Trautv.) Tzvelev	IT	H
<i>Papaver rhoeas</i> L.	UNK	Th	<i>Cynodon dactylon</i> var. <i>dactylon</i> (L.) Pers.	UNK	H
Pedaliaceae			<i>Dactylis glomerata</i> subsp. <i>hispanica</i> (Roth) Nyman	UNK	H
<i>Sesamum indicum</i> L.	UNK	Th	<i>Echinochloa crus-galli</i> (L.) P. Beauv.	UNK	Th
Plantaginaceae			<i>Elymus elongatiformis</i> (Drobow) Assadi	IT	H
<i>Linaria kurdica</i> subsp. <i>araratica</i> Boiss. et Hohen	IT	H	<i>Elymus hispidus</i> subsp. <i>barbulatus</i> (Schur) Melderis	UNK	G
<i>Linaria kurdica</i> subsp. <i>pycnophylla</i> (Boiss. & Balansa) P.H.Davis	IT	H	<i>Elymus hispidus</i> subsp. <i>podpyrae</i> (Nábělek) Melderis	IT	G
<i>Plantago atrata</i> Hoppe L.	UNK	H	<i>Eragrostis minor</i> Host	UNK	Th
<i>Plantago lanceolata</i> L.	UNK	H	<i>Eremopoa altaica</i> (Trin.) Roshev.	IT	Th
<i>Plantago major</i> subsp. <i>intermedia</i> (Gilib.) Lange	UNK	H	<i>Eremopyrum bonaepartis</i> var. <i>bonaepartis</i> (Sprengel) Nevski	IT	Th
<i>Plantago maritima</i> L.	UNK	H	<i>Eremopyrum distans</i> (K.Koch) Nevski	IT	Th
<i>Plantago media</i> L.	UNK	H	<i>Eremopyrum orientale</i> (L.) Jaub. & Spach	IT	Th
<i>Plumbago europaea</i> L.	ES	H	<i>Eremopyrum triticeum</i> (Gaertn.) Nevski	UNK	Th
<i>Veronica biloba</i> L.	IT	Th	<i>Festuca chalcophaea</i> subsp. <i>euryphylla</i> (St.-Yves) Markgr.-Dann.	IT	H
<i>Veronica dillenii</i> Crantz	ES	Th	<i>Festuca elwendiana</i> Markgr.-Dann.	UNK	H
* <i>Veronica gentianoides</i> subsp. <i>gentianoides</i> var. <i>alpina</i> A.Öztürk & M.A.Fisch.	UNK	H	<i>Festuca oreophila</i> Markgr.-Dann.	IT	H
<i>Veronica orientalis</i> subsp. <i>orientalis</i> Mill.	UNK	H	<i>Gaudiniopsis macrocarpa</i> (M.Bieb.) Eig	IT	Th
<i>Veronica persica</i> Poir.	UNK	Th	<i>Henrardia persica</i> var. <i>persica</i> (Boiss.) C.E.Hubb.	IT	Th
<i>Veronica polita</i> Fr.	UNK	Th	<i>Hordeum brevisubulatum</i> subsp. <i>violaceum</i> (Boiss.&Huet) Tzvelev	IT	H
<i>Veronica telephiifolia</i> Vahl	UNK	H	<i>Hordeum spontaneum</i> K.Koch	IT	Th
<i>Veronica verna</i> L.	ES	Th	<i>Koeleria pyramidata</i> (Lam.) P. Beauv.	UNK	H
Plumbaginaceae			<i>Nardus stricta</i> L.	ES	H
* <i>Acantholimon calvertii</i> var. <i>calvertii</i> Boiss.	IT	Ch	<i>Phalaris arundinacea</i> L.	UNK	H
<i>Acantholimon caryophyllaceum</i> Boiss.	UNK	Ch	<i>Phleum alpinum</i> L.	ES	G
<i>Acantholimon glumaceum</i> (Jaub. & Spach) Boiss.	IT	Ch	<i>Phleum boissieri</i> Bornm.	IT	Th
<i>Limonium gmelinii</i> (Willd.) Kuntze	ES	H	<i>Phleum montanum</i> subsp. <i>montanum</i> K.Koch	UNK	H
<i>Limonium meyeri</i> (Boiss.) Kuntze	IT	H	<i>Phragmites australis</i> (Cav.) Trin ex Steud	ES	H
Poaceae			<i>Poa araratica</i> Trautv.	IT	H
<i>Aegilops tauschii</i> Coss.	IT	Th	<i>Poa bulbosa</i> L.	UNK	H
<i>Aeluropus lagopoides</i> var. <i>lagopoides</i> (L.) Thwaites	UNK	H	<i>Poa pratensis</i> L.	UNK	G
<i>Aeluropus littoralis</i> (Gouan) Parl.	UNK	H	<i>Puccinellia distans</i> subsp. <i>sevangensis</i> (Grossh.) Tzvelev	UNK	H
<i>Alopecurus aucheri</i> Boiss.	IT	G	<i>Puccinellia gigantea</i> (Grossh.) Grossh.	UNK	H
<i>Alopecurus textilis</i> subsp. <i>textilis</i> Boiss.	IT	H	* <i>Puccinellia koeieana</i> subsp. <i>anatolica</i> Kit Tan	UNK	H
<i>Alopecurus textilis</i> subsp. <i>tiflisiensis</i> (Westb.) Tzvelev	IT	H	<i>Secale cereale</i> L.	UNK	Th
<i>Apera intermedia</i> Hack.	IT	Th	<i>Secale montanum</i> Guss.	UNK	H
<i>Avena eriantha</i> Durieu	UNK	Th	* <i>Sesleria araratica</i> Kit Tan	IT	H
<i>Avena fatua</i> var. <i>fatua</i> L.	UNK	Th	<i>Sesleria phleoides</i> Steven ex Roem. & Schult.	UNK	H
* <i>Bromus armenus</i> Boiss.	IT	H	<i>Stipa arabica</i> Trin. & Rupr.	IT	H
* <i>Bromus cappadocicus</i> subsp. <i>sclerophyllus</i> (Boiss.) P.M.Sm.	IT	H	<i>Stipa hohenackeriana</i> var. <i>hohenackeriana</i> Trin. & Rupr.	IT	H
<i>Bromus danthoniae</i> subsp. <i>danthoniae</i> Trin.	UNK	Th	<i>Stipa joannis</i> Celak.	ES	H
<i>Bromus erectus</i> Huds.	UNK	H	<i>Stipa pontica</i> P.A.Smirm.	UNK	H
<i>Bromus japonicus</i> subsp. <i>japonicus</i> Thunb.	UNK	Th	<i>Stipa pulcherrima</i> subsp. <i>crassiculmis</i> (P.A.Smirm.) Tzvelev	UNK	H
<i>Bromus lanceolatus</i> Roth	IT	H	<i>Stipa pulcherrima</i> subsp. <i>epilosa</i> (P.A.Smirm.) Tzvelev	UNK	H
<i>Bromus scoparius</i> L.	UNK	Th	<i>Stipagrostis plumosa</i> (L.) Munro ex T.Anderson	UNK	H
<i>Bromus tectorum</i> L.	UNK	Th	<i>Taeniatherum caput-medusae</i> subsp. <i>crinitum</i> (Schreb.) Melderis	IT	Th
<i>Bromus tomentellus</i> Boiss.	IT	H	<i>Trisetaria loeflingiana</i> (L.) Paunero	ES	Th
<i>Bromus variegatus</i> subsp. <i>variegatus</i> M.Bieb.	IT	H	<i>Triticum aestivum</i> L.	UNK	Th
<i>Bromus variegatus</i> subsp. <i>villosulus</i> (Steud.) P.M.Sm.	IT	H	<i>Zea mays</i> subsp. <i>mays</i> L.	UNK	Th
<i>Calamagrostis pseudophragmites</i> (Haller) Koeler	ES	H	Polemoniaceae		
<i>Catabrosella parviflora</i> subsp. <i>calvertii</i> (Boiss.) E.B.Alexeev ex R.R.Mill	IT	H	<i>Polemonium caeruleum</i> L.	UNK	H

Table 1. Alphabetical order of the Floristical list (continued)

Plant Taxa Name	Phyt. Reg.	Life Form	Plant Taxa Name	Phyt. Reg.	Life Form
Polygalaceae			<i>Ranunculus caucasicus</i> subsp. <i>subleiocarpus</i> (Sommier & Levier) P.H.Davis	UNK	G
<i>Polygala anatolica</i> Boiss. & Heldr.	UNK	H	<i>Ranunculus cornutus</i> DC.	UNK	Th
<i>Polygala hohenackeriana</i> Fisch. & C.A.Mey	IT	H	* <i>Ranunculus crateris</i> P.H.Davis	IT	G
<i>Polygala pruinosa</i> Boiss.	UNK	H	<i>Ranunculus damascenus</i> Boiss. & Gaill.	IT	G
<i>Polygala transcaucasica</i> Tamamsch.	UNK	H	* <i>Ranunculus dissectus</i> subsp. <i>huetii</i> (Boiss.) P.H.Davis	UNK	H
Polygonaceae			<i>Ranunculus illyricus</i> subsp. <i>illyricus</i> L.	UNK	H
<i>Atraphaxis spinosa</i> L.	IT	Ch	<i>Ranunculus kochii</i> Ledeb.	IT	H
<i>Calligonum polygonoides</i> L.	UNK	Ph	<i>Ranunculus macrorrhynchus</i> subsp. <i>trigonocarpus</i> (Boiss.) P.H.Davis	IT	G
<i>Polygonum alpinum</i> All.	ES	H	<i>Ranunculus oreophilus</i> M.Bieb.	ES	G
<i>Polygonum arenastrum</i> Boreau	UNK	Th	<i>Thalictrum flavum</i> L.	UNK	G
<i>Polygonum aviculare</i> L.	UNK	Th	<i>Thalictrum minus</i> var. <i>microphyllum</i> Boiss.	UNK	H
<i>Polygonum bistorta</i> subsp. <i>bistorta</i> L.	ES	H	Resedaceae		
<i>Polygonum cognatum</i> Meissn.	UNK	H	<i>Reseda lutea</i> var. <i>lutea</i> L.	UNK	H
<i>Polygonum maritimum</i> L.	UNK	H	Rhamnaceae		
<i>Polygonum paronychioides</i> C.A.Mey.	IT	H	<i>Rhamnus pallasii</i> Fisch. & C.A.Mey.	UNK	Ph
<i>Polygonum patulum</i> subsp. <i>pulchellum</i> (Lois.) Leblebici	UNK	Th	Rosaceae		
<i>Polygonum setosum</i> subsp. <i>luzuloides</i> (Jaub. & Spach) Leblebici	IT	H	<i>Alchemilla dura</i> Buser	UNK	H
<i>Rheum ribes</i> L.	IT	H	<i>Alchemilla ellenbergiana</i> Rothm.	UNK	H
<i>Rumex acetosella</i> L.	UNK	H	<i>Alchemilla erythropoda</i> Juz.	ES	Ch
<i>Rumex crispus</i> L.	UNK	H	<i>Alchemilla minusculiflora</i> Buser	UNK	Ch
<i>Rumex obtusifolius</i> subsp. <i>subalpinus</i> (Schur) Celak.	UNK	H	<i>Alchemilla surculosa</i> Fröhner	UNK	Ch
<i>Rumex patientia</i> L.	UNK	H	<i>Amygdalus communis</i> L.	UNK	Ph
* <i>Rumex ponticus</i> E.H.L.Krause	IT	H	<i>Amygdalus fenzliana</i> (Fritsch) Lipsky	UNK	Ph
<i>Rumex scutatus</i> L.	UNK	H	<i>Cerasus angustifolia</i> (Spach) Browicz	IT	Ph
<i>Rumex tuberosus</i> subsp. <i>horizontalis</i> (K.Koch) Rech.f.	UNK	G	<i>Cerasus vulgaris</i> Mill.	UNK	Ph
<i>Rumex tuberosus</i> subsp. <i>tuberosus</i> L.	UNK	G	<i>Cotoneaster integerrimus</i> L.	UNK	Ph
Primulaceae			<i>Cotoneaster melanocarpus</i> Lodd	UNK	Ph
<i>Androsace maxima</i> L.	UNK	Th	<i>Cotoneaster multiflorus</i> Bunge	UNK	Ph
<i>Androsace villosa</i> L.	ES	H	<i>Cotoneaster nummularius</i> Fisch. & C.A.Mey.	UNK	Ph
<i>Glaux maritima</i> L.	UNK	H	<i>Crataegus azarolus</i> var. <i>azarolus</i> L.	UNK	Ph
<i>Primula algida</i> Adams	UNK	H	<i>Crataegus meyeri</i> Pojark.	IT	Ph
<i>Primula auriculata</i> Lam.,Tabl.	IT	H	<i>Crataegus monogyna</i> var. <i>monogyna</i> Jacq.	UNK	Ph
<i>Primula elatior</i> subsp. <i>pallasii</i> (Lehm.) W.W.Sm. & Forrest	ES	H	<i>Filipendula vulgaris</i> Moench	ES	G
<i>Primula veris</i> subsp. <i>macrocalyx</i> (Bunge) Lüdi	ES	H	<i>Malus sylvestris</i> subsp. <i>orientalis</i> var. <i>orientalis</i> (Uglitzk.) Browicz	UNK	Ph
Ranunculaceae			* <i>Potentilla anatolica</i> Peşmen	IT	H
<i>Adonis aestivalis</i> subsp. <i>aestivalis</i> L.	UNK	Th	<i>Potentilla argaea</i> Boiss. & Balansa	IT	H
<i>Anemone narcissiflora</i> subsp. <i>narcissiflora</i> L.	ES	G	<i>Potentilla argentea</i> L.	UNK	H
<i>Anemone narcissiflora</i> subsp. <i>willdenowii</i> L.	UNK	G	<i>Potentilla aurea</i> subsp. <i>chrysocraspeda</i> (Lehm.) Nyman	UNK	H
<i>Caltha palustris</i> L.	UNK	H	<i>Potentilla bifurca</i> subsp. <i>orientalis</i> (Juz.) Sojak	UNK	H
<i>Ceratocephala falcata</i> (L.) Pers.	UNK	Th	<i>Potentilla humifusa</i> Willd. ex Schldtl.	ES	H
<i>Clematis orientalis</i> L.	UNK	Ph	<i>Potentilla inclinata</i> Vill.	UNK	H
<i>Consolida persica</i> (Boiss.) Schrödinger	IT	Th	<i>Potentilla pannosa</i> Boiss. & Hausskn. ex Boiss.	IT	H
<i>Delphinium albiflorum</i> DC.	UNK	H	<i>Potentilla polyschista</i> Boiss. & Hohen.	IT	H
<i>Delphinium laxiusculum</i> (Boiss.) Rouy	UNK	H	<i>Potentilla recta</i> L.	UNK	H
<i>Nigella orientalis</i> L.	UNK	Th	<i>Potentilla reptans</i> L.	UNK	H
<i>Nigella sativa</i> L.	UNK	Th	<i>Potentilla subpalmata</i> Ledeb.	IT	H
<i>Pulsatilla albana</i> subsp. <i>albana</i> (Steven) Bercht. & J.Presl	UNK	H	<i>Pyrus oxyprion</i> Woronow	UNK	Ph
<i>Pulsatilla violacea</i> subsp. <i>armena</i> (Boiss.) Luferov	IT	H	<i>Pyrus salicifolia</i> var. <i>salicifolia</i> Pall.	UNK	Ph
<i>Ranunculus arvensis</i> L.	UNK	Th	<i>Rosa boissieri</i> Crép.	UNK	Ph
<i>Ranunculus brachylobus</i> subsp. <i>incisilobatus</i> P.H.Davis	ES	G	<i>Rosa canina</i> L.	UNK	Ph

Table 1. Alphabetical order of the Floristical list (continued)

Plant Taxa Name	Phyt. Reg.	Life Form	Plant Taxa Name	Phyt. Reg.	Life Form
Rosaceae			<i>*Verbascum birandianum</i> Hub.-Mor.	IT	H
<i>Rosa foetida</i> J.Herrm.	IT	Ph	<i>Verbascum cheiranthifolium</i> var. <i>cataonicum</i> (Hand.-Mazz.) Murb.	UNK	H
<i>Rosa hemisphaerica</i> J. Herrm.	IT	Ph	<i>Verbascum galilaeum</i> Boiss.	EM	H
<i>Rosa pulverulenta</i> M.Bieb.	UNK	Ph	<i>Verbascum hajastanicum</i> Bordz.	IT	H
<i>Rosa spinosissima</i> L.	ES	Ph	<i>*Verbascum inulifolium</i> Hub.-Mor.	UNK	H
<i>Rosa vanheuckeria</i> Crép.	IT	Ph	<i>Verbascum oreophilum</i> var. <i>joannis</i> (Bordz.) Hub.-Mor.	IT	H
<i>Rubus caesius</i> L.	UNK	Ph	<i>Verbascum phoeniceum</i> L.	UNK	H
<i>Rubus canescens</i> DC.	ES	Ph	<i>Verbascum saccatum</i> K.Koch	IT	H
<i>Rubus sanctus</i> Schreb.	UNK	Ph	<i>Verbascum songaricum</i> subsp. <i>songaricum</i> Schrenk ex Fisch.	IT	H
<i>Rubus saxatilis</i> L.	UNK	H	<i>*Verbascum songaricum</i> subsp. <i>subdecurrens</i> Hub.-Mor.	IT	H
<i>Sibbaldia parviflora</i> var. <i>minor</i> Boiss.	UNK	Ch	<i>Verbascum speciosum</i> Schrad.	UNK	H
<i>Sorbus aucuparia</i> L.	ES	Ph	<i>Verbascum suworowianum</i> var. <i>papillosum</i> (Murb.) Hub.-Mor.	IT	H
<i>Sorbus kusnetzovii</i> Zinserl.	UNK	Ph	<i>Verbascum suworowianum</i> var. <i>suworowianum</i> (K.Koch) Kuntze.	IT	H
<i>Sorbus umbellata</i> Fritsch	UNK	Ph	<i>Verbascum varians</i> var. <i>variens</i> Freyn & Sint.	UNK	H
Rubiaceae			Solanaceae		
<i>Asperula arvensis</i> L.	UNK	Th	<i>Datura stramonium</i> L.	UNK	Th
<i>Asperula orientalis</i> Boiss. & Hohen.	IT	Th	<i>Hyoscyamus niger</i> L.	UNK	H
<i>Asperula prostra</i> (Adams) K.Koch	UNK	H	<i>Hyoscyamus reticulatus</i> L.	IT	Th
<i>Crucianella exasperata</i> Fisch. & C.A.Mey.	IT	Th	<i>Solanum alatum</i> Moench	UNK	Th
<i>Galium consanguineum</i> Boiss.	IT	H	Tamaricaceae		
<i>Galium humifusum</i> M.Bieb.	UNK	H	<i>Reaumuria alternifolia</i> (Labill.) Britten	IT	Ph
<i>*Galium margaceum</i> Ehrend. & Schönb.-Tem.	UNK	Ch	<i>Tamarix octandra</i> (M.Bieb.) Bunge	UNK	Ph
<i>Galium odoratum</i> (L.) Scop.	ES	G	<i>Tamarix smyrnensis</i> Bunge	UNK	Ph
<i>Galium tricornutum</i> Dandy	M	Th	<i>Tamarix tetrandra</i> Pall. ex M.Bieb.	UNK	Ph
<i>Galium verum</i> subsp. <i>verum</i> L.	ES	H	Thymelaeaceae		
Rutaceae			<i>Daphne oleoides</i> subsp. <i>kurdica</i> (Bornm.) Bornm.	IT	Ph
<i>Ruta villosa</i> M.Bieb.	IT	H	<i>Thymelaea passerina</i> (L.) Coss. & Germ.	UNK	Th
Salicaceae			Typhaceae		
<i>Populus alba</i> var. <i>alba</i> L.	ES	Ph	<i>Typha angustifolia</i> L.	UNK	Hel
<i>Populus nigra</i> subsp. <i>nigra</i> L.	ES	Ph	<i>Typha latifolia</i> L.	UNK	Hel
<i>Populus tremula</i> subsp. <i>tremula</i> L.	UNK	Ph	<i>Typha laxmannii</i> Lepech.	ES	Hel
<i>Salix alba</i> subsp. <i>alba</i> L.	ES	Ph	<i>Typha minima</i> Funck	ES	Hel
<i>Salix caprea</i> L.	ES	Ph	Ulmaceae		
<i>Salix triandra</i> subsp. <i>triandra</i> L.	ES	Ph	<i>Ulmus canescens</i> Melville	EM	Ph
Santalaceae			<i>Ulmus minor</i> subsp. <i>minor</i> Miller	EM	Ph
<i>Thesium arvense</i> Horv.	ES	H	Urticaceae		
<i>Thesium billardieri</i> Boiss.	IT	H	<i>Parietaria lusitanica</i> L.	M	Th
<i>Thesium procumbens</i> C.A.Mey.	UNK	H	<i>Urtica dioica</i> subsp. <i>dioica</i> L.	ES	H
Saxifragaceae			<i>Urtica dioica</i> subsp. <i>kurdistanica</i> Chrtk., Rechinger	IT	H
<i>Saxifraga adscendens</i> L.	UNK	H	Violaceae		
<i>Saxifraga adscendens</i> subsp. <i>adscendens</i> L.	UNK	Th	<i>Viola arvensis</i> Murray	UNK	Th
<i>Saxifraga moschata</i> Wulfen	ES	H	<i>Viola canina</i> L.	UNK	H
<i>Saxifraga sibirica</i> L.	UNK	Cry	<i>Viola kitaibeliana</i> Roem. & Schult.	UNK	Th
<i>Saxifraga tridactylites</i> L.	UNK	Th	<i>Viola parvula</i> Tineo	UNK	Th
Scrophulariaceae			<i>Viola rupestris</i> F.W.Schmidt	UNK	H
<i>Melampyrum arvense</i> var. <i>arvense</i> L.	ES	Th	Xanthorrhoeaceae		
<i>Scrophularia atropatana</i> Grossh.	IT	H	<i>Asphodeline prolifera</i> (M.Bieb.) Kunth	IT	G
<i>Scrophularia ilwensis</i> K.Koch	IT	Th	Zygophyllaceae		
<i>Scrophularia nachitschevanica</i> Grossh.	IT	Th	<i>Tribulus terrestris</i> L.	UNK	Th
<i>Scrophularia orientalis</i> L.	IT	H	<i>Zygophyllum atriplicoides</i> Fisch. & C.A.Mey.	IT	Ch
<i>Verbascum agrimoniifolium</i> subsp. <i>agrimoniifolium</i> (K.Koch) Hub.-Mor.	UNK	H	<i>Zygophyllum fabago</i> L.	IT	H
<i>*Verbascum armenum</i> subsp. <i>occidentale</i> Hub.-Mor.	IT	H			

Abbreviations: Phanerophytes: Ph; Chamaephytes: Ch; Hemicryptophytes: H; Therophytes: Th; Cryptophytes: Cry; Geophytes: G; Helophytes: Hel; (*Endemic). Phyt. Reg.: Phytogeographic Region, ES: Euro-Siberian; IT: Irano-Turanian; M: Mediterranean; EM: East- Mediterranean; UNK: Unknown

The first five families with the highest number of taxa are identified as Asteraceae (128), Fabaceae (100), Poaceae (70), Lamiaceae (69) and Brassicaceae (62).

Among the genus identified within the scope of the study, the top five genus are as *Astragalus* (42), *Verbascum* (16), *Trifolium*, *Silene* and *Potentilla* (each 12), *Allium*, *Bromus*, *Centaurea*, *Nepeta*, *Papaver* and *Ranunculus* (each 11).

The chorology of the identified taxa are as follows: Irano-Turanian (355), Euro-Siberian (88), Mediterranean (15), Eastern Mediterranean (14) and Unknown (553).

4. Discussion and Conclusion

When the floristic, phytosociological, and ethnobotanical studies conducted in Iğdır-other than the *Flora of Turkey*-are considered as a whole, the present research clearly demonstrates that the plant diversity of Iğdır Province is remarkably high despite the limited number of studies carried out to date.

In line with these findings, it should be emphasized that taxa of unknown phytogeographic origin tend to occur more frequently in habitats strongly influenced by human activities. For instance, Sefali et al. (2020) demonstrated that a considerable proportion of Brassicaceae taxa in the Van Yüzüncü Yıl University campus area exhibited uncertain or widespread phytogeographic origins, a pattern directly linked to the heterogeneous habitats shaped by anthropogenic impact. Similar results have been documented in neighboring provinces: in the Yakutiye wetlands of Erzurum (Sarpdağ & Eminağaoğlu, 2020); in Elazığ, floristic surveys in Arıcak (Yapar & Behçet, 2024) and along the Baskil–Hankendi–Kömürhan transect revealed comparable proportions (Gültürk et al., 2020), and floristic studies from Kars likewise reported a notable share of such taxa (Ocakverdi, 2001). Taken together, these examples clearly indicate that anthropogenic pressures such as agriculture, settlement, and transportation networks increase the representation of cosmopolitan or uncertain taxa. Therefore, the relatively high proportion of taxa with unknown phytogeographic origin in Iğdır Province can be attributed not only to its transitional position between major phytogeographical regions but also to the intensity of human activities shaping the landscape.

In this study, endemism, life forms, and phytogeographical aspects of plant taxa identified in the flora of Iğdır were evaluated. A total of 1025 taxa belonging to 386 genera and 74 families were recorded. All of these taxa belong to the Plantae kingdom. Among them, two taxa (*Cystopteris fragilis* of Cystopteridaceae and *Equisetum giganteum* of Equisetaceae) belong to the division Pteridophyta. The remainder belong to Spermatophyta, of which three are gymnosperms (*Juniperus oxycedrus* var. *oxycedrus*, *Ephedra distachya* subsp. *distachya*, and *Ephedra major* subsp. *major*), while the other 1020 are angiosperms. Of these angiosperms, 884 taxa belong to the dicots and 136 to the monocots. As a result, 60 taxa were identified as endemic.

When the identified taxa are analyzed according to their families, five families—which together account for 42% of the flora—stand out in terms of taxonomic richness. These families are Asteraceae (12.5%), Fabaceae (9.8%), Poaceae (6.8%), Lamiaceae (6.7%), and Brassicaceae (6%) (Figure 4). This concentration of diversity within a few major families is consistent with patterns reported in other floristic studies from Eastern Anatolia and highlights the ecological significance of Iğdır as a biogeographical transition zone.

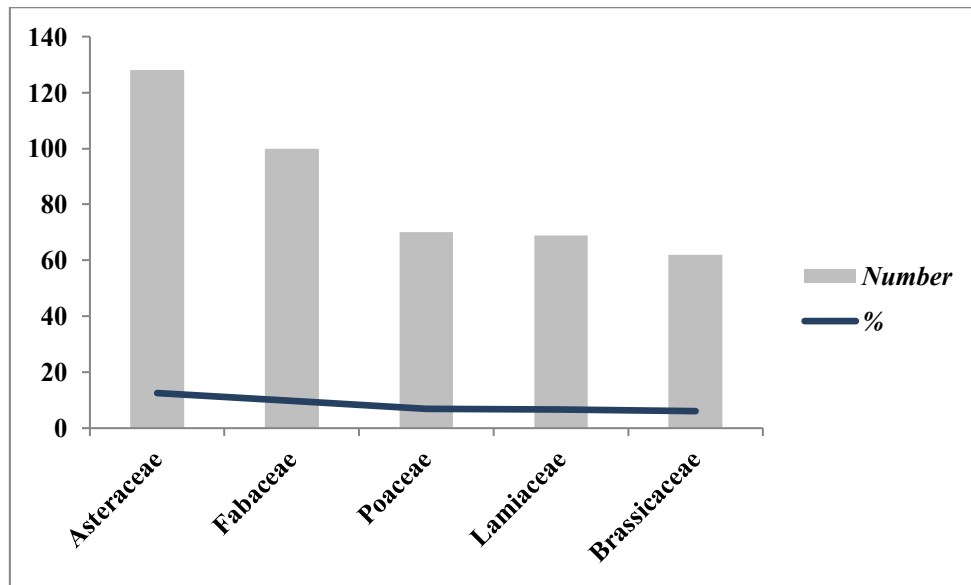


Figure 4. Top 5 families by number of taxa.

When the taxa identified during the study are evaluated in terms of their phytogeographic region, they are classified as Euro-Siberian (88 taxa; 8.6%), Irano-Turanian (355 taxa; 34.7%), Mediterranean (15 taxa; 1.4%), Eastern Mediterranean (14 taxa; 1.3%), and Unknown (553 taxa; 54%) elements (Figure 5). This distribution clearly reflects the phytogeographic position of the study area within the Irano-Turanian region.

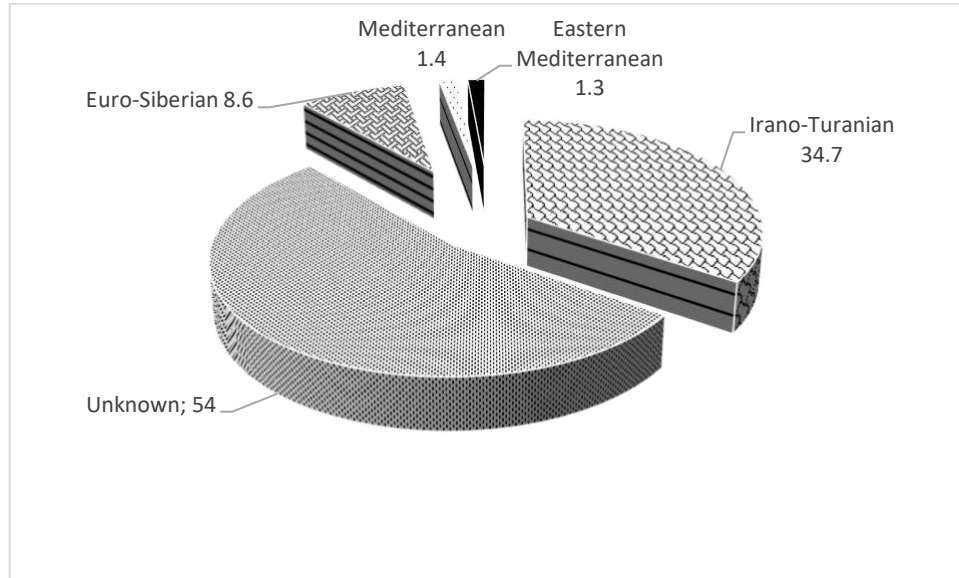


Figure 5. Percentage distribution of taxa identified in the area according to phytogeographic regions (%).

The life forms of the taxa were determined according to Raunkiær's (1934) classification. Accordingly, the flora consists of Hemicryptophytes (561), Therophytes (264), Geophytes (77), Chamaephytes (64), Phanerophytes (52), Helophytes (4), Cryptophytes (1), and ferns (2) (Figure 6).

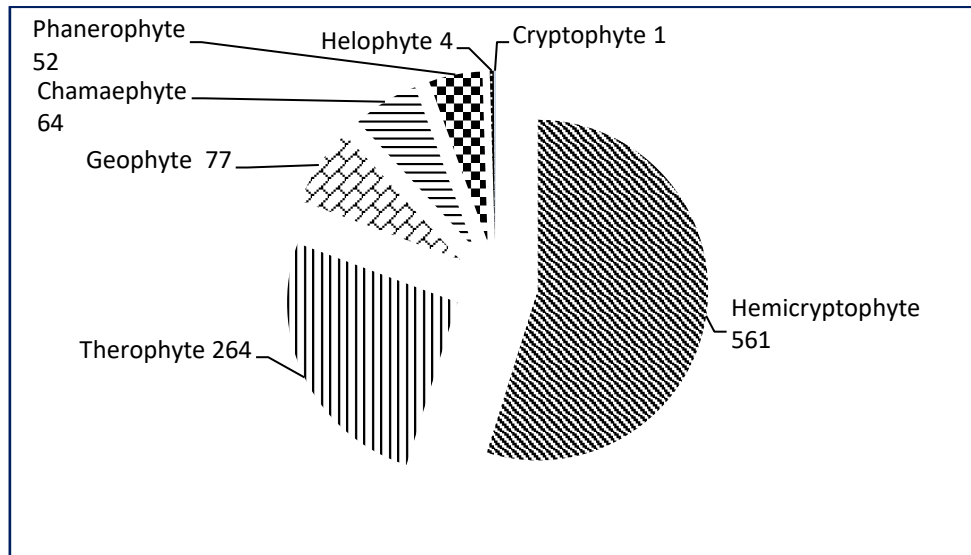


Figure 6. Distribution of life forms of taxa according to Raunkiær (1934).

In total, 1025 taxa were identified, belonging to 74 families and 386 genera. These families are already known to be rich in species diversity, as reported in previous floristic studies from Eastern Anatolia (Davis, 1965–1985; Güner et al., 2000). The dominance of Irano-Turanian elements (355 taxa) is consistent with the province's geographical position bordering Iran, which constitutes the core of the Irano-Turanian phytogeographic region. In contrast, the remarkably high proportion of taxa with

unknown phytogeographic origin (54%) can largely be attributed to anthropogenic factors, including intensive agriculture, transportation corridors, and settlement-related disturbances, which facilitate the establishment and spread of ruderal and potentially invasive species.

In conclusion, the present study is expected to serve as a valuable reference for future research on the vegetation and flora of Iğdır Province. By compiling previously scattered floristic information into a comprehensive list, it provides researchers with a reliable baseline for conducting comparative analyses, ecological assessments, and conservation planning in the region.

Congress and/or Thesis Statement

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Conflict of Interest Statement

The author declares that there is no conflict of interest.

Research and Publication Ethics Statement

The author of this article declares that she has complied with research and publication ethics in her work.

Use of AI

The author declares that she did not use any type of generative artificial intelligence in the writing of this article or in the creation of images, graphics, tables, or corresponding headings.

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