

LOCAL NAMES OF SOME USEFUL PLANTS FROM İĞDIR PROVINCE (EAST ANATOLIA)

E. ALTUNDAĞ¹, N. ÖZHATAY²

S U M M A R Y

An ethnobotanical survey was carried out in İğdir province (East Anatolia) between May 2007 and October 2008. During this survey, besides to the usage of the wild flowering plants, their local names were also determined. This paper presents a list of the local names of wild useful plants growing in İğdir province.

Ö Z E T

Mayıs 2007-Ekim 2008 tarihleri arasında İğdir ilinde (Doğu Anadolu Bölgesi) etnobotanik bir çalışma yapılmıştır. Bu araştırma esnasında bitkilerin kullanımlarının yanında yöresel isimleri de kayıt edilmiştir. Bu çalışmada İğdir ilinde kullanımı olan doğal çiçekli bitkilerin yöresel isimleri sunulmuştur.

Key words: İğdir, local names, ethnobotany

¹ Düzce University, Faculty of Arts and Sciences, Department of Biology, 81620, Düzce, Turkey.

² Istanbul University, Faculty of Pharmacy, Department of Pharmaceutical Botany, Istanbul, Turkey.

INTRODUCTION

There are 9222 plant species in Flora of Turkey (it contains Turkey and the East Aegean Islands' plants); 2991 of them are endemic, (1, 2, 3), and according to new check lists, 354 plant species were added to Flora of Turkey (4, 5). Turkish people use plants densely in their daily life and the usage purposes of plants come out by the ethnobotanical researches.

Iğdır province is located in the Erzurum-Kars part of the East Anatolia Region of Turkey. It is comprised of four districts (Main, Tuzluca, Aralık, Karakoyunlu) and 156 villages. Its area covers 3539 km² and the height of its land varies from 795 m to 5165 m. Its total population was about 180 000 in the year of 2007 (6, 7).

The province covers of the Mount Ararat that is the largest and highest mountain of Turkey (5165 m). On the other hand, it also covers Aras valley and the altitude of teh valley is nearly 800-900 m. Owing to its mild climate and loam, Aras valley is convenient for growing all vegetable and fruit species except *Olea* and *Citrus* (7).

Iğdır province has few studies about its flora and also economically important plants. Only one village of the Iğdır province has been previously reported (8). This study is a part of "Uses of the Wild Plants in Iğdır Province (East Anatolia)" PHD thesis. 1170 plant specimens were collected from Iğdır province. As a result of identification of the collected plant specimens, 292 taxa, which were used for local people have been determined. Among them, 162 taxa are used for medical purposes, 143 taxa as food, 25 taxa as spice or tea, 82 taxa as fodder and in the treatment of animal diseases, and 22 taxa as fuel. Additionally 70 taxa have been designated for different usages. Also new local names were added to the known local names and some taxa's local names were recorded for the first time.

MATERIAL AND METHODS

This study was carried out between 2007 May - 2008 October to determine the traditional usages and common names of the wild plants in Iğdır province. Information was collected from both the elder and the young local people through interviews. The plants were collected with the help of the informants. There are 156 villages in Iğdır province, but we studied 78 villages of all the district of the province. Studied villages were chosen according to some criteria. Especially mountain villages which are far away to town, and border villages were studied. Since, Tuzluca district has a lot of villages, and also covers many mountain villages, studied villages especially were selected from Tuzluca district.

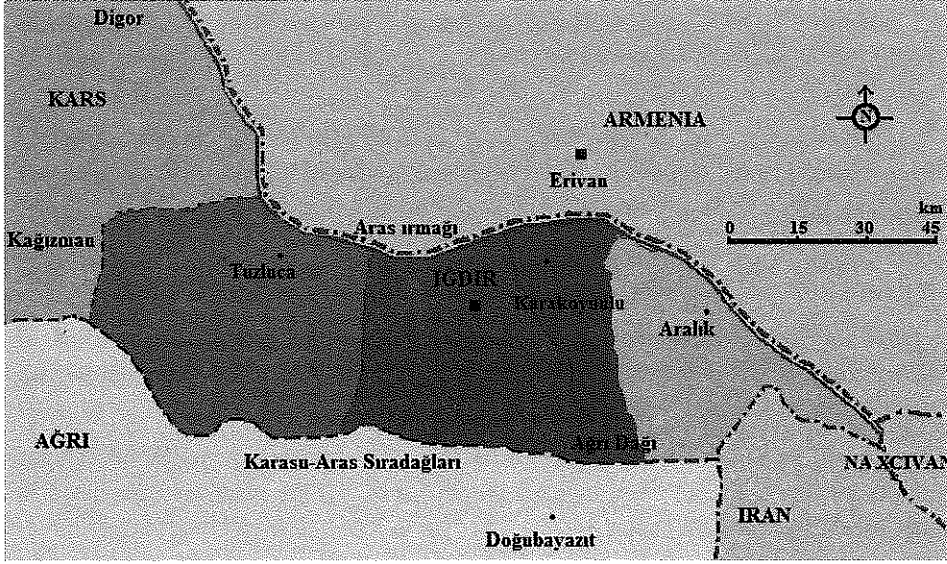


Figure 1: Map of the studied area (Iğdır)

The studied villages are grouped by their geographic properties and presented in List 1. Each of the group is represented by a number which is written at the end of group of villages. If plants are known with the same local names in all the districts they are represented "Iğdır; common".

LIST 1

Central district: Main villages; Küllük, Hakmehmet, Kuzugüden, Evcı, Kasımcı, Yaycı (C; 1). Border of Armenia; Bayraktutan, Ağaver, Necefali, Sarıçoban, Kadıkışlak (C; 2). Border of Ağrı province; Nişankaya, Örüsmüş, Asma, Suveren (C;3).

Karakoyunlu district: Border of Armenia; Mürşitali, Doğanşalı, Alican, Koçkiran, Cennetabat (K; 3).

Tuzluca district: Centre of Tuzluca district's villages; Eğrekdere, Buruksu, Üçkaya, Küçükova, Kamışlı, Sutaşları (T;1). Border of Ağrı province; Abbasgöl, Aliköse, Akdeğirmen, Akoluk, Arslanlı, Canderviş, Çiçekli, Gökteş, Güllüce, Güzeldere, Hadımlı, Hamurkesen, Kalaça, Kelekli, Karacaören, Karataş, Karakoyun, Laleli, Nahırkiran, Ortabucak, Sarıabdal, Soğukbulak, Taşucan, Uğurca, Ünlendi (T; 2). Border of Kars province; Ağabey, Civanlı, Bahçelimeydan, Gaziler, Karanlık, Kıznefer, Rabet, Sarıbulak (T; 3). Border of Armenia; Sürmeli, Turabi (T; 4).

Aralık district: Border of Naxcivan; Aratan, Çiftlik, Gödekli (A; 1). Border of Armenia; Çamurlu, Ramazankent, Tazeköy (A; 2). Border of Iran; Yenidoğan, Tarlabası (A; 3).

The collected plant material was housed in ISTE (The Herbarium of the Istanbul University, Faculty of Pharmacy). These specimens were identified basically with the Flora of Turkey (1, 2, 3) and the other Floras of border countries (9, 10).

RESULTS AND DISCUSSION

In the list 2, some plant taxa are called with more than one local name in different villages, but some of them are called with the same local name, even though they are different families or genera.

The local names of 288 plants, their scientific names and groups of villages where they were collected are presented in the List 2. All the plant taxa are listed in alphabetical order of Latin names.

LIST 2

- Acantholimon calvertii* Boiss. (Plumbaginaceae): At geveni (T; 2).
Acantholimon caryophyllaceum Boiss. subsp. *caryophyllaceum* (Plumbaginaceae): At geveni (M; 3, A; 3, T; 2, 3).
Achillea biebersteinii Afan. (Asteraceae): Kılıçotu (T; 1), Ormadere, Ormaderen (İğdir; common).
Achillea millefolium L. subsp. *millefolium* (Asteraceae): Beyaz ormadere, Oymadere (İğdir; common), Çeren, Yavşan (A; 3).
Achillea tenuifolia Lam. (Asteraceae): Acıgıcı (T; common), Çobankırpiği, Kirpit (M, K, A; common).
Achillea wilhelmsii C.Koch (Asteraceae): Çeren (İğdir; common).
Ajuga chamaepitys (L.) Schreber subsp. *chia* (Schreber) Arcangeli var. *chia* (Lamiaceae): Acıgıcı, Mayasılotu (İğdir; common).
Alcea striata (DC.) Alef. subsp. *rufescens* (Boiss.) Cullen (Malvaceae): Gülçiçek (T; common), Gülhatni (C, K; common).
Alhagi pseudalhagi (Bieb.) Desv. (Fabaceae): Devediş (İğdir; common).
Alkanna orientalis (L.) Boiss. var. *orientalis* (Boraginaceae): Sorma, Sarısormuk (T; 2, A; common).
Allium akaka S.G.Gmelin (Liliaceae): Dana soğanı (T; 1, 2, 3, A; 3).
Allium armenum Boiss. & Kotschy (Liliaceae): Silim soğanı (İğdir; common).
Allium atroviolaceum Boiss. (Liliaceae): Silim soğanı, Yabani sarımsak (İğdir; common).
Allium cardiostemon Fisch. & Mey. (Liliaceae): Silim soğanı (İğdir; common).

- Allium flavum* L. subsp. *flavum* var. *flavum* (Liliaceae): Silim soğanı (İğdir; common).
- Allium scorodoprasum* L. subsp. *rotundum* (L.) Stearn (Liliaceae): İt soğanı, Silim soğanı (İğdir; common).
- Amaranthus retroflexus* L. (Amaranthaceae): Bozoğlan (İğdir; common).
- Amygdalus communis* L. (Rosaceae): Badem (İğdir; common).
- Anchusa azurea* Miller var. *kurdica* (Guşul) Chamb. (Boraginaceae): Çıtdayış (T; common).
- Anemone albana* Stev. subsp. *armena* (Boiss.) Smirn. (Ranunculaceae): Dağ ıalesi, Nezle otu (T; genel).
- Anthemis cotula* L. (Asteraceae): Hozan çiçeği (T; common), Papatya (İğdir; common).
- Anthemis tinctoria* L. var. *pallida* DC. (Asteraceae): Papatya (İğdir; common).
- Anthemis tinctoria* L. var. *tinctoria* (Asteraceae): Papatya, Sarı papatya (İğdir; common).
- Anthriscus nemorosa* (Bieb.) Sprengel (Apiaceae): Gımı, Gımıgımı (İğdir; common), Zire (T; 2).
- Anthriscus sylvestris* (L.) Hoffm. (Apiaceae): Gımı, Gımıgımı (İğdir; common), Zire (T; 2).
- Arctium platylepis* (Boiss. & Bal.) Sosn. ex Grossh. (Asteraceae): Bayırekırde (T; 2), Çiledağ (K; common), Devedabanı (İğdir; common), Garahort (T; common).
- Artemisia absinthium* L. (Asteraceae): Bire otu, Yavşan (İğdir; common).
- Artemisia austriaca* Jacq. (Asteraceae): Darhun, Gohulu yavşan (T; common).
- Artemisia chamaemellifolia* Vill. (Asteraceae): Yavşan (İğdir; common).
- Artemisia santonicum* L. (Asteraceae): Süpürge yavşanı (İğdir; common).
- Asparagus persicus* Baker (Liliaceae): Meleçöyüt, Mereço, Mereçöyüt (İğdir; common).
- Astragalus aureus* Willd. (Fabaceae): Geven (T; common).
- Astragalus declinatus* Willd. (Fabaceae): Yonca (T, A; common).
- Astragalus galegiformis* L. (Fabaceae): Köpürtgen (T; 2, 3).
- Astragalus halicacabus* Lam. (Fabaceae): Yonca (İğdir; common).
- Astragalus hyalolepis* Bunge (Fabaceae): Yonca (A, T; common).
- Astragalus jodostachys* Boiss. & Buhse (Fabaceae): Yonca (İğdir; common).
- Astragalus lagurus* Willd. (Fabaceae): Geven (A, T; common).
- Astragalus latifolius* Lam. (Fabaceae): Geven yoncası (T; 2).
- Astragalus mollis* Bieb. (Fabaceae): Yonca (A, T; common).
- Astragalus ornithopodioides* Lam. (Fabaceae): Yonca (A, T; common).
- Astragalus stevenianus* DC. var. *stevenianus* (Fabaceae): Arıkgaldıran (T; 2).
- Astragalus tigridis* Boiss. (Fabaceae): Yonca (İğdir; common).
- Astragalus vicifolius* DC. (Fabaceae): Yonca (A; common).
- Asyneuma rigidum* (Willd.) Grossh. subsp. *rigidum* (Campanulaceae): Süpürge otu (İğdir; common).

- Asyneuma virgatum* (Labill.) Bornm. subsp. *virgatum* (Campanulaceae): Süpürge otu (İğdir; common).
- Atraphaxis spinosa* L. (Polygonaceae): Kazandele (İğdir; common).
- Bellevalia forniculata* (Fomin) Deloney (Liliaceae): Yağlıca (T; 2).
- Bellevalia pycnantha* (C.Koch) A.Los.-Los. (Liliaceae): Aş penceri (İğdir; common).
- Bellevalia sarmatica* (Palas ex Georgi) Woronow (Liliaceae): Yağlıca (T; 2).
- Berberis crataegina* DC. (Berberidaceae): Kirit, Zirinç (T; common).
- Berberis vulgaris* L. (Berberidaceae): Kirit, Zirinç (T; common).
- Beta corolliflora* Zosimovic ex Butler (Chenopodiaceae): Kızılcıca (İğdir; common), Sırk (T; 2).
- Bunias orientalis* L. (Brassicaceae): Galatürpenk (T; common).
- Calligonum polygonoides* L. (Polygonaceae): Ebuçehilotu (A; common).
- Caltha polypetala* Hochst. ex Lorent (Ranunculaceae): Bizbizik, Lulupar, Lulpar (T; 2, 3).
- Cannabis sativa* L. (Cannabaceae): Çedene (İğdir; common).
- Capparis ovata* Desf. var. *herbacea* (Willd.) Zoh. (Capparaceae): Çöl garpuzu (T; 2), Yılan kavunu, Yılan yemişi (T; common).
- Capsella bursa-pastoris* (L.) Medik. (Brassicaceae): Kuş epeği (İğdir; common).
- Cardamine uliginosa* Bieb. (Brassicaceae): Pıçık, Su teresi (T; 2), Tere (İğdir; common).
- Cardaria draba* (L.) Desv. subsp. *draba* (Brassicaceae): Acıgavuk (M, K; common).
- Carduus nutans* L. subsp. *nutans* (Asteraceae): Eşek dikenini, Şeker tikani (İğdir; common).
- Centaurea cheiranthifolia* Willd. var. *cheiranthifolia* (Asteraceae): Perpatikani, Perpatyan (T; 1, 2).
- Centaurea cheiranthifolia* Willd. var. *purpurescens* (DC.) Wagenitz (Asteraceae): Perpatikani, Perpatyan (T; 1, 2).
- Centaurea depressa* Bieb. (Asteraceae): Göybaş, Oğul otu (İğdir; common).
- Centaurea glastifolia* L. (Asteraceae): Kötangoparan, Kötankoparan (T; 2, 3, A; 3).
- Centaurea iberica* Trev. ex Sprengel (Asteraceae): Çakırdikeni, Çakırdikeni (İğdir; common).
- Centaurea saligna* (C.Koch) Wagenitz (Asteraceae): Hol (T; 1, 2).
- Cephalaria procera* Fisch. & Lall. (Dipsaceae): Ganteper (T; common).
- Cerinthe minor* L. subsp. *auriculata* (Ten.) Domac (Boraginaceae): Cücegözü (İğdir; common).
- Cerinthe minor* L. subsp. *minor* (Boraginaceae): Cücegözü (İğdir; common).
- Chaerophyllum angelicifolium* Bieb. (Apiaceae): Cacık (T; common).
- Chaerophyllum aureum* L. (Apiaceae): Deli manda (T; 1, 2, 3).
- Chenopodium album* L. subsp. *album* var. *album* (Chenopodiaceae): Salmanca (M,, A, K; common), Unluca (T; common).
- Chenopodium foliosum* (Moench) Aschers. (Chenopodiaceae): Kuş üzümü (T, A; common).
- Chenopodium murale* L. (Chenopodiaceae): Salmanca (M, A, K; common), Unluca (T; common).

- Chondrilla juncea* L. var. *acantholepis* (Boiss.) Boiss. (Asteraceae): Ağ sakız (T; 2), Sakız (İğdir; common).
- Cichorium intybus* L. (Asteraceae): Cızdankuş (T; common), Cırtlankuş, Çırtlanguş (M, A, K; common).
- Cirsium arvense* (L.) Scop. subsp. *vestitum* (Wimm. & Grab.) Petr. (Asteraceae): Hamurkesen diken, Hemirkesen tiken (İğdir; common).
- Cirsium rhizocephalum* C.A. Meyer subsp. *sinuatum* (Boiss.) Davis & Parris (Asteraceae): Keçi memesi (T; 2).
- Cirsium simplex* C.A. Meyer subsp. *armenum* (DC.) Petrak (Asteraceae): Su diken (T; 2, A; 3).
- Clematis orientalis* L. (Ranunculaceae): Mantarotu (İğdir; common), Pamukotu (T; 2).
- Colchicum szovitsii* Fisch. & Mey. subsp. *szovitsii* (Liliaceae): Danagiran (T; 2).
- Conringia orientalis* (L.) Andr. (Brassicaceae): Horoztaşağı (M, K; common).
- Convolvulus arvensis* L. (Convolvulaceae): Dolaşgan (İğdir; common).
- Convolvulus scammonia* L. (Convolvulaceae): Dolaşgan (İğdir; common).
- Coronilla orientalis* Miller var. *orientalis* (Fabaceae): Yonca (İğdir; common).
- Coronilla varia* L. subsp. *varia* (Fabaceae): Yonca (İğdir; common).
- Cotoneaster integerrimus* Medik. (Rosaceae): Dağ muşmulası, Daş gilası, Garagat, Karakat (T; 1, 2, 3).
- Crataegus aronia* (L.) Bosc. ex DC. var. *aronia* (Rosaceae): Gurnut, Hurmut (İğdir; common).
- Crataegus meyeri* Pojark. (Rosaceae): Gurnut, Hurmut (İğdir; common).
- Cymbocarpum anethoides* DC. (Apiaceae): Aş otu (A; 2).
- Daphne oleoides* Schreber subsp. *kurdica* (Bornm.) Bornm. (Thymelaeaceae): Mundarça (T; 2).
- Datura stramonium* L. (Solanaceae): Deli patpat (M, K; common).
- Descurainia sophia* (L.) Webb ex Prantl (Brassicaceae): Süpürge otu (İğdir; common).
- Diplotaxis tenuifolia* (L.) DC. (Brassicaceae): Türpenk (İğdir; common).
- Echinops pungens* Trautv. var. *pungens* (Asteraceae): Topuz (İğdir; common).
- Echium italicum* L. (Boraginaceae): Sorma, Sormuk (T; common).
- Echium vulgare* L. (Boraginaceae): Pişik guyruğu, Sorma, Sormuk (T; common).
- Elaeagnus angustifolia* L. (Elaeagnaceae): İğde (İğdir; common).
- Eremurus spectabilis* Bieb. (Liliaceae): Çiriş, Kiriş (İğdir; common).
- Eryngium billardieri* Delar. (Apiaceae): Boğa diken, Buğa tikant, Demir tikantı (İğdir; common).
- Eryngium campestre* L. var. *virans* Link (Apiaceae): Boğa diken, Buğa tikantı (İğdir; common).
- Euphorbia armena* Prokh. (Euphorbiaceae): Sütü ot, Sütübiyan, Sütüyen, Yazkış otu (İğdir; common).
- Euphorbia macroclada* Boiss. (Euphorbiaceae): Sütü, Sütübiyan, Sütüyen (İğdir; common).

- Euphorbia seguieriana* Necker subsp. *seguieriana* (Euphorbiaceae): Sütfü, Sütlübiyan, Sütlüyen (İğdir; common).
- Falcaria vulgaris* Bernh. (Apiaceae): Gazayağı, Kazayağı (İğdir; common), Gazeyağı (T; 2).
- Ferula caspica* Bieb. (Apiaceae): Gırmızı bolu, Gırmızı pölük, Kırmızı bolu (T; 2).
- Ferula orientalis* L. subsp. *orientalis* (Apiaceae): Eşşek çasıırı (İğdir; common).
- Ferula rigidula* DC. subsp. *rigidula* (Apiaceae): Çakşur, Çasıır, Çaşur (İğdir; common).
- Fumaria asepala* Boiss. (Fumariaceae): Şetere (İğdir; common).
- Fumaria microcarpa* Boiss. ex Hausskn. (Fumariaceae): Şetere (İğdir; common).
- Galium humifusum* Bieb. (Rubiaceae): Koşacı (M, K; common, A; 1, 2).
- Galium tricorntum* Dandy (Rubiaceae): Havotu, Koşacı (M, K; common, A; 1, 2).
- Galium verum* L. subsp. *verum* (Rubiaceae): Havot (T; common).
- Geranium stepporum* Davis (Geraniaceae): Tavşantopu (T; common), Yer elması (İğdir; common).
- Geranium tuberosum* L. subsp. *tuberosum* (Geraniaceae): Koçkuzu (T; 2), Tavşantopu (İğdir; common).
- Gladiolus atrovioleaceus* Boiss. (Iridaceae): Papakotu (T; 2, 3).
- Gladiolus kotschyanus* Boiss. (Iridaceae): Papakotu (T; 2, 3).
- Glycyrrhiza glabra* L. var. *glabra* (Fabaceae): Şirinbiyan, Şirmiyan (İğdir; common).
- Halanthium roseum* (Trautv.) Iljin (Chenopodiaceae): Çoğan, Şoran (İğdir; common).
- Halostachys belangeriana* (Moq.) Botsch. (Chenopodiaceae): Garağan (A, K; common).
- Hedysarum elegans* Boiss. & Huet (Fabaceae): Kır yoncası, Yonca (T; 2).
- Helichrysum arenarium* (L.) Moench subsp. *rubicundum* (C.Koch) Davis & Kupicha (Asteraceae): Yayla çiçeği Yayla gülü (İğdir; common).
- Helichrysum pallasii* (Sprengel) Ledeb. (Asteraceae): Altunbaşotu, Yaylaçiçeği (A; 3, T; 2, 3).
- Helichrysum plicatum* DC. subsp. *plicatum* (Asteraceae): Yayla çiçeği (İğdir; common).
- Heracleum trachyloma* Fisch. & Mey. (Apiaceae): Baldırğan, Baldırğan (T; common), Kekire, Keküre (M, K; common).
- Hylotelephium telephium* (L.) H. Ohba (Crassulaceae): Camışgulağı (İğdir; common).
- Hyoscyamus niger* L. (Solanaceae): Patpat (İğdir; common).
- Hypericum montbrettii* Spach (Hypericaceae): Çay çiçeği, Çay otu (İğdir; common).
- Hypericum perforatum* L. (Hypericaceae): Çay çiçeği, Çay otu (İğdir; common).
- Hypericum scabrum* L. (Hypericaceae): Çay çiçeği, Çay otu (İğdir; common), Mide otu (T; common).
- Iris caucasica* Hoffm. subsp. *caucasica* (Iridaceae): Gizmemesi (T; 2).
- Iris iberica* Hoffm. subsp. *elegantissima* (Sosn.) Takht. & Fedorov (Iridaceae): Kurtkulağı (A; 3, T; 1, 2, 3)

- Iris spuria* L. subsp. *musulmanica* (Fomin) Takht. (Iridaceae): Gındırğa (A, 2).
- Isatis candolleana* Boiss. (Brassicaceae): Boya otu (T; 2).
- Jurinella moschus* (Habl.) Bobrov subsp. *pinnatisecta* (Boiss.) Danin & Davis (Asteraceae): Gazangulpu, Kazankulpu (İğdır; common).
- Lathyrus cicera* L. (Fabaceae): Eşek kürülü, Gürül, Kürül (T; common).
- Lathyrus pallescens* (Bieb.) Koch (Fabaceae): Gürül, Kürül (T; common).
- Lathyrus pratensis* L. (Fabaceae): Gürül (İğdır; common), İlan kürülü, Yılan hırığürüsü (T; 2).
- Lathyrus rotundifolius* Willd. subsp. *miniatus* (Bieb. ex Stev.) Davis (Fabaceae): Gülçiçeği, Gürül, Hırığürü (T; 2, 3).
- Lathyrus tuberosus* L. (Fabaceae): Gürül (A; common), Hırığürü (T; common).
- Leontodon asperrimus* (Willd.) J. Ball (Asteraceae): Aş yemliği (T; 2).
- Leonurus glaucescens* Bunge (Lamiaceae): Öküzguyruğu (T; common).
- Lepidium sativum* L. subsp. *sativum* (Brassicaceae): Tere (İğdır; common).
- Lepidium vesicarium* L. (Brassicaceae): Aş penceri (A; common), Tere otu (İğdır; common).
- Lotus corniculatus* L. var. *corniculatus* (Fabaceae): Böbrek otu, Sancı otu (A, T; common).
- Malabaila dasyantha* (C. Koch) Grossh. (Apiaceae): Kelemekeşir, Kelemenkeşir (A; 3, T; 1, 2, 3).
- Malabaila secacul* Banks & Sol. (Apiaceae): Kelemekeşir, Kelemenkeşir, Manda (T; common).
- Malus sylvestris* Miller subsp. *orientalis* (A. Uglitzkich) Browicz var. *orientalis* (Rosaceae): Alma, Çöl alması, Elma (T; 2).
- Malva neglecta* Wallr. (Malvaceae): Ebemkemeği, Ebemkömeci, Ememkömeci (İğdır; common).
- Marrubium astracanicum* Jacq. subsp. *astracanicum* (Lamiaceae): Çayotu, Dağ çayı (A, T; common).
- Marrubium parviflorum* Fisch. & Mey. subsp. *oligodon* (Boiss.) Seybold (Lamiaceae): Çayotu, Çöl çayı, Dağ çayı (A, T; common).
- Medicago lupulina* L. (Fabaceae): Yonca (T; common).
- Medicago minima* (L.) Bart. var. *minima* (Fabaceae): Yonca (İğdır; common).
- Medicago papillosa* Boiss. (Fabaceae): Yonca (İğdır; common).
- Medicago sativa* L. subsp. *sativa* (Fabaceae): Garayonca, Karayonca (İğdır; common).
- Melilotus officinalis* (L.) Desr. (Fabaceae): Eşek yoncası, Yonca (İğdır; common).
- Mentha longifolia* (L.) Hudson subsp. *longifolia* (Lamiaceae): Bung, Yarpız, Yarpuz (İğdır; common).
- Muscari armeniacum* Leichtlin ex Baker (Liliaceae): Camışgıran (İğdır; common).
- Nepeta fissa* C.A. Meyer (Lamiaceae): Eşek yarpuzu (İğdır; common).
- Nonea macrosperma* Boiss. & Heldr. (Boraginaceae): Sorma, Sormuk (T; common).
- Nonea pulla* (L.) DC. subsp. *scabrisquamata* A. Baytop (Boraginaceae): Sorma, Sormuk (İğdır; common).

- Nonea stenosolen* Boiss. & Bal. (Boraginaceae): Sorma, Sormuk (İğdir; common).
- Onobrychis atropatana* Boiss. (Fabaceae): Galeme çiçeği (C, K; common), Gorunga (T, A; common).
- Onobrychis radiata* (Desf.) Bieb. (Fabaceae): Galeme çiçeği (C, K; common), Körülgen (T, A; common).
- Onobrychis stenostachya* Freyn subsp. *sosnowskyi* (Grossh.) Hedge (Fabaceae): Gorunga, Körülgen, Yabani gorunga (T; 1, 2, 3).
- Onobrychis transcaucasica* Grossh. (Fabaceae): Gorunga, Körülgen, Yabani gorunga (T; 1, 2, 3).
- Onobrychis viciifolia* Scop. (Fabaceae): Gorulgan, Körülgen (İğdir; common).
- Onopordum acanthium* L. (Asteraceae): Gangal, Kenger (İğdir; common).
- Onosma argentatum* Hub.-Mor. (Boraginaceae): Siğirguyruğu, Sorma, Sormuk (T; common).
- Onosma bornmuelleri* Hausskn. (Boraginaceae): Sorma, Sormuk (T; 2).
- Onosma nigricaula* H. Riedl (Boraginaceae): Sorma, Sormuk (T; 2).
- Origanum vulgare* L. subsp. *gracile* (C. Koch) Ietswaart (Lamiaceae): Eşek kekiği, Kekik, Kır kekiği, Yaban kekiği (İğdir; common).
- Ornithogalum narbonense* L. (Liliaceae): Gurtsoğanı, Kurtsoğanı (İğdir; common).
- Ornithogalum oligophyllum* E.D. Clarke (Liliaceae): Gurtsoğanı, Kurtsoğanı (İğdir; common).
- Ornithogalum platyphyllum* Boiss. (Liliaceae): Gurtsoğanı, Kurtsoğanı (İğdir; common).
- Papaver lacerum* Popov (Papaveraceae): Haşhaş (İğdir; common).
- Papaver orientale* L. var. *parviflora* Busch (Papaveraceae): Haşhaş, Lale (İğdir; common).
- Pastinaca armena* Fisch. & Mey. subsp. *armena* (Apiaceae): Kelemekeşir, Kelemenkeşir (T; 2, 3).
- Pedicularis comosa* L. var. *sibthorpii* (Boiss.) Boiss. (Scrophulariaceae): Sorma, Sormuk (T; common).
- Peganum harmala* L. (Zygophyllaceae): Üzerlik (T; common).
- Peucedanum longifolium* Waldst. & Kit. (Apiaceae): Çaşır, Çaşur (İğdir; common).
- Phlomis armeniaca* Willd. (Lamiaceae): Çayotu, Çöl çayı (İğdir; common).
- Phragmites australis* (Cav.) Trin. ex Steudel (Poaceae): Gamiş, Gemiş, Kamış (İğdir; common).
- Plantago atrata* Hoppe (Plantaginaceae): Dartul otu, Gılıçotu (T; 2).
- Plantago lanceolata* L. (Plantaginaceae): Dartul otu (T; 2), Gılıçotu, Kılıçotu (İğdir; common).
- Plantago major* L. subsp. *intermedia* (Gilib.) Lange (Plantaginaceae): Bağayarpağı, Belhavis (İğdir; common).
- Plantago media* L. (Plantaginaceae): Gılıçotu, Kılıçotu (İğdir; common).
- Polygonum alpinum* All. (Polygonaceae): Elayaz, Elayız (T; common), Guştubeh (T; 2).
- Polygonum aviculare* L. (Polygonaceae): Atgötü (T; common), Kuşdili (C, A, K; common).
- Polygonum bistorta* L. subsp. *bistorta* (Polygonaceae): Bozpençer, Çimen eveliği, Pençer (İğdir; common).

- Polygonum cognatum* Meissn. (Polygonaceae): Atgötü (T; common), Kuşdili (M, A, K; common).
- Polygonum pulchellum* Lois. (Polygonaceae): Bağotu (M, K, A; common).
- Prangos ferulacea* (L.) Lindl. (Apiaceae): Eşek çasıırı, Sarı çasıır, Teke sakalı (İğdır; common).
- Primula auriculata* Lam. (Primulaceae): Mustafa çiçeği (T; common), Yeyili çiçek (M, A; 3).
- Primula veris* L. subsp. *macrocalyx* (Bunge) Lüdi (Primulaceae): Ayrancıçeği (M, A; 3, T; 2, 3).
- Puschkinia scilloides* Adams (Liliaceae): Kardelen (T; 2, 3, M; 3).
- Ranunculus arvensis* L. (Ranunculaceae): Mustafa çiçeği (T; 2), Sarıçiçek (M; 3), Yara otu (T; common).
- Ranunculus caucasicus* Bieb. subsp. *subleiocarpus* (Som. & Lev.) Davis (Ranunculaceae): Yara otu (T; 2, M; 3), Mustafa çiçeği (T; 2).
- Ranunculus kochii* Ledeb. (Ranunculaceae): Kar çiçeği (T; 2, 3), Mayıs çiçeği (A; 3).
- Ranunculus oreohilus* Bieb. (Ranunculaceae): Mustafa çiçeği (T; 2), Sarı çiçek (M; 3).
- Rapistrum rugosum* (L.) All. (Brassicaceae): Eşek türpengi, Türpek, Türpenk (T; common).
- Reichardia glauca* Matthews (Asteraceae): Gara sakgız (T; common).
- Reseda lutea* L. var. *lutea* (Resedaceae): Sarı ot (İğdır; common).
- Rhamnus pallasii* Fisch. & Mey. (Rhamnaceae): Garaçalı, Karaçalı (İğdır; common).
- Rheum ribes* L. (Polygonaceae): Gavalak, Gavalat (K; 1), Işgın (İğdır; common).
- Rosa canina* L. (Rosaceae): İtburnu, Kuşburnu (İğdır; common).
- Rosa hemisphaerica* J. Herrm. (Rosaceae): Yemişen (İğdır; common).
- Rosa pimpinellifolia* L. (Rosaceae): Koyungözü (T; common, A; 3).
- Rosa pulverulenta* Bieb. (Rosaceae): Gillica, Kıllica (İğdır; common).
- Rumex acetosella* L. (Polygonaceae): Çimen turşusu, Kır turşusu (İğdır; common), Kuş turşusu (T; 2)
- Rumex crispus* L. (Polygonaceae): Adam eveliği (T; common), Evelik (İğdır; common).
- Rumex patientia* L. (Polygonaceae): At eveliği (T; common), Evelik (İğdır; common).
- Rumex scutatus* L. (Polygonaceae): Taş turşusu (İğdır; common).
- Rumex tuberosus* L. subsp. *horizontalis* (Koch) Rech. (Polygonaceae): Köme turşusu (T; common), Turşu (İğdır; common).
- Salvia aethiopsis* L. (Lamiaceae): Maldili (T; 1, 2, 3), Öküzgulağı (A; 3, M; 3).
- Salvia brachyantha* (Bordz.) Pobed. (Lamiaceae): Gazangulpu, Kazankulpu (T; 1, 2).
- Salvia hydrangea* DC. ex Bentham (Lamiaceae): Çöl çayı (İğdır; common), Koçotu (T; 1).
- Salvia limbata* C.A. Meyer (Lamiaceae): Maldili (T; common).
- Salvia nemorosa* L. (Lamiaceae): Çöl çayı, Kara ot (T; common).
- Salvia staminea* Montbret & Aucher ex Bentham (Lamiaceae): Gazankulpu (T; 1, 2).

- Salvia verticillata* L. subsp. *amasiaca* (Freyn. & Bornm.) Bornm. (Lamiaceae): Karabaş otu (İğdir; common).
- Salvia verticillata* L. subsp. *verticillata* (Lamiaceae): Karabaş otu (İğdir; common).
- Scabiosa argentea* L. (Dipsacaceae): Süpürge otu (İğdir; common).
- Scilla siberica* Haw. subsp. *armena* (Grossh.) Mordak (Liliaceae): Camışgıran (İğdir; genel).
- Scorzonera cana* (C.A. Meyer) Hoffm. var. *jacquiniana* (W. Koch) Chamberlain (Asteraceae): Yelmik, Yemlik (İğdir; common).
- Scorzonera laciniata* L. subsp. *laciniata* (Asteraceae): Yelmik, Yemlik (İğdir; common).
- Scorzonera mollis* Bieb. subsp. *szowitzii* (DC.) Chamberlain (Asteraceae): Adam yemliği (İğdir; common), Dombalan (T; common).
- Scorzonera suberosa* C. Koch subsp. *suberosa* (Asteraceae): Gızbaldırı (M; common), Yelmik, Yemlik (İğdir; common).
- Scutellaria orientalis* L. subsp. *sosnowskyi* (Takht.) Fed. (Lamiaceae): Sancı otu (A; 3, T; 2).
- Sedum sempervivoides* Bieb. (Crassulaceae): Çobançöreği, Çobandürmeği (T; common).
- Sempervivum armenum* Boiss. & Huet var. *armenum* (Crassulaceae): Çobançöreği, Çobandürmeği (T; 1, 2, 3).
- Senecio vernalis* Waldst. & Kit. (Asteraceae): Acı papatya, Sarı çiçek (İğdir; common).
- Serratula coriacea* Fisch. & Mey. ex DC. (Asteraceae): Çıt otu (İğdir; common).
- Silene alba* (Miller) Krause subsp. *divaricata* (Reichb.) Walters (Caryophyllaceae): Garagile (İğdir; common).
- Silene compacta* Fischer (Caryophyllaceae): Horuz pipiği (T; common).
- Sobolewskia clavata* (Boiss.) Fenzl (Brassicaceae): Yel otu (T; 2, 3).
- Sophora alopecuriodes* L. var. *alopecuriodes* (Fabaceae): Acıbiyan (İğdir; common).
- Stachys annua* (L.) L. subsp. *annua* var. *lycaonica* Bhattacharjee (Lamiaceae): Dağ çayı (İğdir; common).
- Stachys iberica* Bieb. subsp. *georgica* Rech. fil. (Lamiaceae): Dağ çayı (T; 3).
- Stachys iberica* Bieb. subsp. *stenostachya* (Boiss.) Rech. fil. (Lamiaceae): Dağ çayı (İğdir; common).
- Stachys lavandulifolia* Vahl. var. *lavandulifolia* (Lamiaceae): Dağ çayı (İğdir; common).
- Stipa pulcherrima* C. Koch subsp. *crassiculmis* (P. Smirnov) Tzvelev (Poaceae): Davşanotu (İğdir; common).
- Tamarix smyrnensis* Bunge (Tamaricaceae): Ilgın, Ilgın (İğdir; common).
- Tamarix tetrandra* Pallas ex Bieb. (Tamaricaceae): Ilgın, Ilgın (İğdir; common).
- Tanacetum argyrophyllum* (C. Koch) Tzvel. var. *argyrophyllum* (Asteraceae): Çeren, Ormadere (İğdir; common).
- Tanacetum chiliophyllum* (Fisch. & Meyer) Schultz Bip. var. *chiliophyllum* (Asteraceae): Çeren, Ormadere, Yavşan (İğdir; common).

- Tanacetum punctatum* (Desr.) Grierson (Asteraceae): Sendel Sender (T; 1).
- Taraxacum androssovii* Schischkin (Asteraceae): Acıgıcı, Zeze (İğdir; common).
- Taraxacum fedtschenkoii* Hand.-Mazz. (Asteraceae): Acıgıcı, Zeze (İğdir; common), Hapşuruk otu (M; common)
- Taraxacum macrolepium* Schischkin (Asteraceae): Acıgıcı, Zeze (İğdir; common).
- Teucrium polium* L. (Lamiaceae): Daşkekiği (İğdir; common).
- Thalictrum minus* L. var. *microphyllum* Boiss. (Ranunculaceae): Kaytaran (T; common), Kahramankaytaran (T; 2).
- Thlaspi arvense* L. (Brassicaceae): Süpürge otu (T; common).
- Thymus fallax* Fisch. & Mey. (Lamiaceae): Kekik, Keklikotu, Kekotu (İğdir; common).
- Thymus kotschyanus* Boiss. & Hohen. subsp. *glabrescens* Boiss. (Lamiaceae): Kekik, Keklikotu, Kekotu (İğdir; common).
- Thymus migricus* Klokov & Des.-Shost. (Lamiaceae): Kekik, Keklikotu, Kekotu (İğdir; common).
- Thymus praecox* Opiz. subsp. *grossheimii* (Ronniger) Jalas var. *grossheimii* (Lamiaceae): Kekik, Keklikotu, Kekotu (İğdir; common).
- Thymus transcaucasicus* Ronniger (Lamiaceae): Kekik, Keklikotu, Kekotu (A; 3, T; 2)
- Tragopogon coloratus* C.A. Meyer (Asteraceae): At yelmiği, At yemliği (İğdir; common).
- Tragopogon dubius* Scop. (Asteraceae): At yelmiği, At yemliği (T; 2), Yemlik (İğdir; common).
- Tragopogon pratensis* L. subsp. *orientalis* (L.) Celak (Asteraceae): At yemliği (İğdir; common).
- Tragopogon reticulatus* Boiss. & Huet (Asteraceae): At yemliği (T; common).
- Trifolium ambiguum* Bieb. (Fabaceae): Alma otu, Eşekyoncası, Pişikkulağı, Üçkulak otu (A, T; common).
- Trifolium campestre* Schreb. (Fabaceae): Üzüm (İğdir; common).
- Trifolium pratense* L. var. *pratense* (Fabaceae): Alma otu (T; common), Eşek yoncası, Üçkulak otu (İğdir; common).
- Trifolium repens* L. var. *repens* (Fabaceae): Alma otu (T; common), Eşek yoncası, Üçkulak otu (İğdir; common).
- Trifolium spadiceum* L. (Fabaceae): Tut, Üzüm (T; common).
- Trifolium trichocephalum* Bieb. (Fabaceae): Üçkulak otu, Yonca (A, T; common).
- Tripleurospermum monticulum* (Boiss. & Huet) Bornm. (Asteraceae): Kır papatyası, (T; 2)
- Tripleurospermum parviflorum* (Willd.) Pobed. (Asteraceae): Papatya (İğdir; 2).
- Turgenia latifolia* (L.) Hoffm. (Apiaceae): Pıtrak (İğdir; common).
- Typha angustifolia* L. (Typhaceae): Cil (İğdir; common).
- Typha latifolia* L. (Typhaceae): Cil (İğdir; common).
- Typha laxmannii* Lepechin (Typhaceae): Cil (İğdir; common).
- Typha minima* Funck var. *minima* (Typhaceae): Cil (İğdir; common).

- Ulmus minor* Miller subsp. *minor* (Ulmaceae): Garaağaç, Karaağaç (İğdir; common).
- Urtica dioica* L. (Urticaceae): Gizirkan (T; 2), Isırgan (İğdir; common).
- Verbascum agrimoniifolium* (C. Koch) Hub.-Mor. subsp. *agrimoniifolium* (Scrophulariaceae): Sığırguyruğu, Siğirguyruğu (İğdir; common).
- Verbascum oreophilum* C. Koch var. *joannis* (Bordz.) Hub.-Mor. (Scrophulariaceae): Majak (A; 3, T; 3), Sığırguyruğu, Siğirguyruğu (İğdir; common).
- Verbascum speciosum* Schrader (Scrophulariaceae): Majak (A; 3, T; 3), Sığırguyruğu, Siğirguyruğu (İğdir; common).
- Veronica orientalis* Miller (Scrophulariaceae): Beneşe, Gözmuncuğu çiçeği (İğdir; common).
- Viburnum lantana* L. (Caprifoliaceae): Germeşo (T; common), Germişek (İğdir; common).
- Vicia cracca* L. subsp. *cracca* (Fabaceae): Gürül (İğdir; common).
- Vicia sativa* L. subsp. *nigra* (L.) Ehrh. var. *nigra* (Fabaceae): Eşek gürülü, Gürül (İğdir; common).
- Ziziphora clinopodioides* Lam. (Lamiaceae): Merze, Reyhan (İğdir; common).
- Ziziphora taurica* Bieb. subsp. *taurica* (Lamiaceae): Çöl reyhanı, Merze (İğdir; common).
- Zosima absinthifolia* (Vent.) Link (Apiaceae): Bolu, Pölük (İğdir; common).
- Zygophyllum fabago* L. (Zygophyllaceae): İt üzerliği (T; common).

Acknowledgments: This study was supported by the Research Fund of Istanbul University. Project No. 1441. Thanks are expressed to all the local people who generously collaborated with us and shared their knowledge.

REFERENCES

1. Davis, P.H., Flora of Turkey and the East Aegean Islands, Vol. 1-9. University Press, Edinburgh (1965-1985).
2. Davis, P.H., Mill, R.R., Tan, K., Flora of Turkey and the East Aegean Islands, Vol. 10 (Supplement I). University Press, Edinburgh (1988).
3. Güner, A., Özhatay, N., Ekim, T., Başer, K.H.C., Flora of Turkey and the East Aegean Islands, Vol 11 (Supplement II). University Press, Edinburgh (2000).
4. Özhatay, N., Kültür, Ş., Check List of Additional Taxa to the Supplement Flora of Turkey III. *Turk J Bot*, **30**, 281-316 (2006).
5. Özhatay, N., Kültür, Ş., Aslan, S., Check List of Additional Taxa to the Supplement Flora of Turkey IV. *Turk J Bot*, **33**, 191-226 (2009).

6. Iğdır Kültür ve Turizm Envanteri. Iğdır Valiliği İl Kültür ve Turizm Müdürlüğü. Punto Tasarım, Ankara (2008).
7. Buyruk, H., Tarihi ve Kültürel Varlıklarıyla Iğdır. Iğdır Belediyesi Kültür Yayınları No:2, Iğdır (2006).
8. Sezik, E., Yeşilada, E., Tabata, M., Honda, G., Takaishi, Y., Fujita, T., et al. *Econ Bot*, **51**(3), 195-211 (1997).
9. Shishkin, B.K., Flora of USSR, Vol: 6, 8, 11-13, 16-17, 19, 20-22, 25-30. Moskova, Leningrad (1936-1960).
10. Rechinger, K.H., Flora Iranica, Vol. 48, 57, 90/I, 122/II, 139a/III, 139b/III, 140/I, 145/IV, 150, 154/V, 157/II, 158/VI, 162, 164/VII, 172, 174/III, 175/IV, Akademische Druc-u. Verlagsanstalt, Austria (1969-1998).