

## The Flora of Hatila Valley National Park and its Close Environs (Artvin)

Özgür EMİNAĞAOĞLU

Kafkas University, Faculty of Forestry, Department of Forest Botany, 08000, Artvin - TURKEY  
eminagaoglu@hotmail.com

Rahim ANŞİN

Black Sea Technical University, Faculty of Forestry, Department of Forest Botany, 61080, Trabzon - TURKEY  
rahimansin@hotmail.com

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**Abstract:** This investigation was carried out between 1994 and 1997 in order to contribute to knowledge on Artvin's flora. The Artvin area reflects the eastern part of the Black Sea region's rich floristic composition. The research area under review is in the Colchic province of the Euro-Siberian floristic area in the Holarctic region and is found in the A8 square according to grid system of Davis. In the studied area, 769 taxa belonging to 374 genera and 95 families were determined. Of the 769 taxa, 26 *Pteridophytes* and 743 *Spermatophytes* were detected. *Spermatophytes* also contained 10 *Gymnospermae* and 733 *Angiospermae* taxa. The largest five families are *Compositae* with 73 taxa (9.5%), *Leguminosae* with 67 taxa (8.7%), *Rosaceae* with 50 taxa (6.5%), *Cruciferae* with 49 taxa (6.4%) and *Labiatae* with 42 taxa (5.5%). The largest genus is *Trifolium* L. (14 taxa) and the second is *Astragalus* L. (13 taxa). The distribution of the taxa according to the phytogeographical regions was as follows: 35.6% Euro-Siberian, 6.9% Irano-Turanian, 2.2% Mediterranean and 55.3% unknown. Endemism is 7.4% and included 57 endemic taxa.

**Key Words:** Flora, National Park, Hatila Valley, Artvin.

### Hatila Vadisi Milli Parkı ve Yakın Çevresinin Florası (Artvin)

**Özet:** Bu çalışma, 1994-1997 yılları arasında, Doğu Karadeniz Bölgesinin kuzeyinde, oldukça zengin floristik içeriğe sahip Artvin'in florasına katkıda bulunmak amacıyla gerçekleştirilmiştir. Araştırma alanı, Davis tarafından uygulanan grid sistemine göre A8 karesinde yer almaktır, Holarktik fitocoğrafik bölgenin, Avrupa-Sibirya flora alanının Kolşık kesimde yer almaktadır. Araştırma sonuçlarına göre; 95 familya ve 374 cinsle ilişkin toplam 769 takson kaydedilmiştir. Bu taksonların 26'sı *Pteridophyta*, 743'ü *Spermatophyta* bölümünde ilişkindir. *Spermatophyta* bölümünde, 10 takson *Gymnospermae* ve 733 takson *Angiospermae*'dir. Araştırma alanında en fazla türe sahip beş familya sırasıyla *Compositae* 73 takson (% 9.5), *Leguminosae* 67 takson (% 8.7), *Rosaceae* 50 takson (% 6.5), *Cruciferae* 49 takson (% 6.4) ve *Labiatae* 42 takson (% 5.5). En büyük cins *Trifolium* L. (14 takson), ikincisi ise *Astragalus* L. (13 takson)'tur. Taksonların, fitocoğrafik bölgelere göre dağılımları ise şöyledir: Avrupa-Sibirya % 35.6, İran-Turan % 6.9, Akdeniz % 2.2 ve orijini bilinmeyenler % 55.3'tür. Taksonların 57 adeti (% 7.4) endemiktir.

**Anahtar Sözcükler:** Flora, Milli Park, Hatila Vadisi, Artvin.

### Introduction

The aim of this study was to contribute to knowledge about Artvin's flora, as this area reflects the eastern part of the Black Sea region's rich floristic composition.

In nearby areas, some floristic and vegetation studies were carried out by Anşin (1979, 1983, 1984), Düzenli (1988), Vural (1996), and Küçük (1998).

The study area is in the A8 square according to Davis (1971)'s grid system and within the Colchic province of

the Euro-Siberian floristic area in the Holarctic region (Zohary, 1973). The altitude of the area is between 170 and 3224 m. The area under review has a length of 24.4 km and extends from the Çoruh River (170 m) to Mount Kurt (3224 m) and has a width of 14.3 km from Alacadağ (2844 m) to Mount Keçi (2047 m). The study area includes a sharp valley water catchment area that has about 3000 m elevation differences. The area is situated between lat 41°3'-41°13'30" N and long 41°31'- 41°48' E and is some 25 000 ha in area (Figure 1).

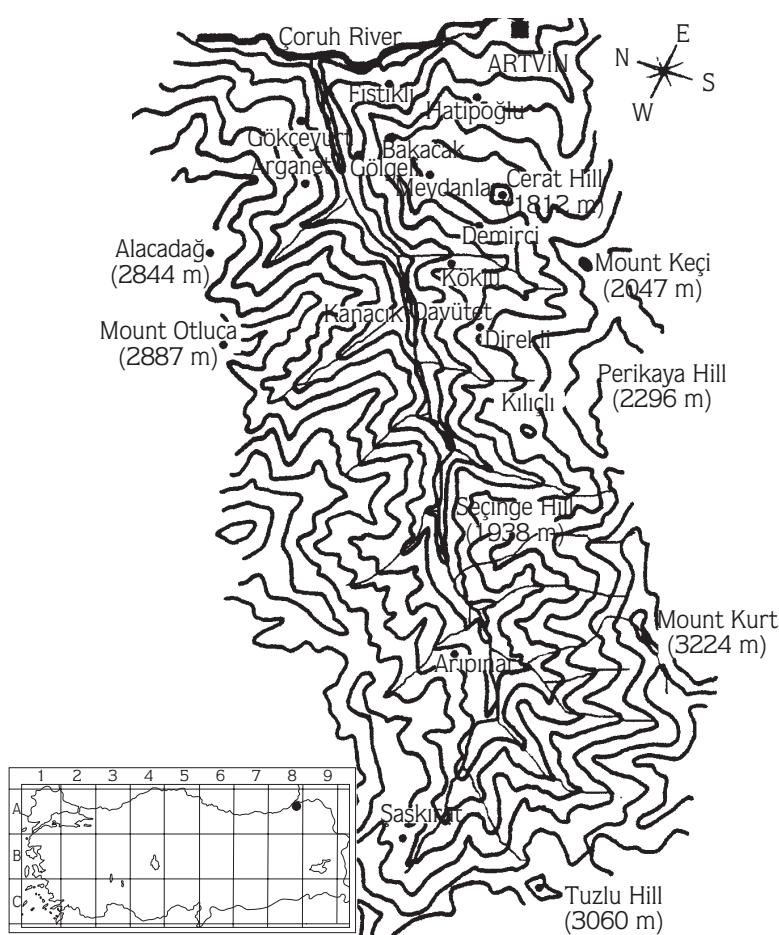


Figure 1. Topographical map of the study area.

Climatological data were obtained from Artvin Meteorological station. The annual average rainfall is 661.03 mm and the average warmth is 12.3 °C in the area (Meteoroloji Bülteni, 1995). The climate type of the area is semi-humid and the main vegetation type of the area is humid forest (Çepel, 1966). The rainfall regime of the study area is “winter-spring-autumn-summer” (Central Mediterranean) of Mediterranean origin. The region is in line with the rainfall-heat formula ( $Q = 89.4$ ) and a low precipitation/cold bioclimate type is dominant (Akman, 1999).

Upper Cretaceous aged volcanic blocks (basalt, gabbro and peritoneum) form the main geologic structure. There are seven large soil groups in the study area, namely, brown forest soils, noncalcareous brown forest soils, chestnut soils, alluvial soils, colluvial soils, red-yellow podzolic soils and high mountain meadow soils. The most widespread is the brown forest soils type (Topraksu Genel Müdürlüğü, 1975).

## Materials and Methods

The materials of this study included some 2000 plant samples collected from the research area between 1994 and 1997. Efforts were made to collect both flowering and fruiting specimens. The plant samples were prepared according to established herbarium techniques. The Flora of Turkey (Davis, 1965-85; Davis et al., 1988) and other sources (Komarov, 1934-60; Grosheim, 1939-1967) were utilised in the identification of the plant samples. This identification was carried out in the Herbarium of the Forestry Faculty, Black Sea Technical University, Trabzon (KATO) and ISTO (Istanbul) herbarium. All plant samples were kept in KATO.

The list of plants is presented according to the sequence given in the Flora of Turkey (Davis, 1965-85). The taxa we were unable to collect during this study but were cited in the Flora of Turkey were added to the floristic list. Since the research area was wholly situated within the A8 grid square, this information was not

repeated after the taxa names. After the name of every species in the floristic list, the geographical location, habitat of plant, altitude, collection date, collector name and number, endemism, IUCN threat categories, and phytogeographical region are given. Author abbreviations of plant names are given according to Brummitt and Powell (1992). Since 19 taxa defined as new records for the A8 square in this manuscript were published before (Anşin et al., 1997), only the names of these 19 taxa are given in this study. The endemic and rare non-endemic plants in the study area have been classified according to IUCN threat categories (Ekim et al., 2000).

### Abbreviations

The abbreviations used in the text and in the floristic list are as follows: Cosm: Cosmopolitan, DD: Data Deficient, E: East, EN: Endangered, Euro-Sib: Euro-Siberian element, Eux.: Euxine element, Hyr-Eux: Hyrcano-Euxine element, Ir-Tur: Irano-Turanian element, LR: Lower Risk, (lc: least concern, cd: conservation dependent, nt: near threatened), m: metre, Medit.: Mediterranean element, mt: mountain, ÖE: Özgür Eminağaoğlu, and VU: Vulnerable.

### Results and Discussion

In this study, a total of 769 taxa from 87 families and 324 genera were identified. Twenty-six of them belonged to *Pteridophyta*, and the remaining 743 taxa were *Spermatophyta*, which included 10 taxa from the

*Gymnospermae* and 733 taxa from the *Angiospermae*. The *Angiospermae* also included 644 taxa from the *Magnoliopsida* and 89 taxa from the *Liliopsida*. The dispersion of the plant taxa that were defined in the study area according to the large taxonomical groups is shown in Table 1.

After the identification of all taxa, the phytogeographical distributions of 344 taxa were determined. The percentage of phytogeographical origins of 344 taxa was 274 (35.6%) Euro-Siberian, 53 (6.9%) Irano-Turanian, and 17 (2.2%) Mediterranean. Twenty-nine taxa are cosmopolitan (3.8%). The rest of the 396 taxa (51.5%) are either multi-area elements or single elements which have not yet been accepted as members of the phytogeographical area (Table 2).

Euro-Siberian elements were higher in ratio when the phytogeographical distribution of taxa was compared with the other elements in the study area. The abundance of Euro-Siberian elements (35.6%) and widespread presence of taxa such as *Picea orientalis* (L.) Link, *Abies nordmanniana* (Stev.) Spach. subsp. *nordmanniana*, *Pinus sylvestris* L. (*Pinaceae*), and *Alnus glutinosa* (L.) Gaertn subsp. *barbata* (C.A.Mey.) Yalt. (*Betulaceae*) can be attributed to the high influence of the Colchic province in the study area. However, the contribution of the Irano-Turanian (6.9%) and Mediterranean (2.2%) elements to the flora of the area cannot be overlooked. As seen in Table 2, the results of our study area were in agreement with those of neighboring areas because it is in the same phytogeographical region. The percentage of

Table 1. The dispersion of taxa according to the large taxonomical groups.

	Number of Families	Number of Genera	Number of Taxa
<i>Pteridophyta</i>	12	15	26
<i>Gymnospermae</i>	4	6	10
<i>Dicotyledones</i>	71	305	644
<i>Monocotyledones</i>	8	48	89
Total	95	374	769

Table 2. Distribution of species in phytogeographical regions and comparison with studies carried out in nearby areas.

	Number of taxa (%)				
	Euro-Sib.	Ir-Tur.	Medit.	Cosm.	Pluriregional
Present study	35.6	6.9	2.2	3.8	51.5
Küçük (1998)	34.4	7.9	1.1	1.6	55.0
Düzenli (1988)	50.5	7.5	5.0	1.0	36.0

Mediterranean elements in our study was higher than that stated by Küçük (1998). A possible explanation is that our study area is under the influence of the Mediterranean climate and a local Mediterranean climate occurs in some areas close to the Black Sea region. The flora of the study area mainly resembles Caucasian flora, but it also shares similarities with Japanese and North American flora.

A comparison of families in terms of the largest number of species found in this study and to previous studies carried out in nearby regions is given in Table 3. As seen in Table 3, the results of this article were also in agreement with the other similar studies. Differences in several taxa might be derived from the results of dissimilarities in climate and habitat.

The largest families in terms of number of genera are *Compositae* (39), *Cruciferae* (26), *Gramineae* (23), *Rosaceae* (22), *Leguminosae* (19), *Labiatae* (19), *Boraginaceae* (15), *Ranunculaceae* (14), *Umbelliferae* (12), *Liliaceae* (11), *Scrophulariaceae* (11), and *Caryophyllaceae* (11).

The richest families in terms of number of taxa are *Compositae* (73), *Leguminosae* (67), *Rosaceae* (50), *Cruciferae* (49), *Labiatae* (42), *Gramineae* (38), *Scrophulariaceae* (32), *Ranunculaceae* (32), *Caryophyllaceae* (28), *Boraginaceae* (25), and *Liliaceae* (21).

The richest genera in terms of the number of taxa are *Trifolium* L. (14), *Astragalus* L. (13), *Ranunculus* L. (10), *Veronica* L. (10), *Campanula* L. (10), *Geranium* L. (8) and *Vicia* L. (8).

Endemism was 7.4% and included 57 endemic taxa. The endemism ratio of the study area is very low compared with the average endemism ratio (34.5%) of the Flora of Turkey in volume 11 (Güner et al., 2000). The reasons for the low endemism ratio of the study area may lie in the similarities between Caucasian flora and the studied area.

Pseudomacchie, forest, subalpine, alpine and stream are the main vegetation types in the area (Anşin et al., 2000). Forest vegetation is the most common formation type in this area. In conclusion, the study area is mainly under the influence of a semi-humid climate, which is suitable for growing Euro-Siberian, Euxine, Hyrcano-Euxine and Colchic elements. Pseudomacchie vegetation was distributed throughout the area, especially at altitudes of 200-600 m. There are a few *Pinus pinea* L. (*Pinaceae*) stands distributed sporadically at the junction of the Hatila valley and the Çoruh River named Fıstıklı village (formerly Naşviye). On the other hand, it has been questioned whether *Pinus pinea* L. stands here are natural distribution or plantation. In the stands of *Pinus pinea* L. in Fıstıklı village, many herbaceous and woody plants specifically growing in the Mediterranean region are located in the transition zone between the Euro-Siberian and Mediterranean regions. Anşin et al. (1997) believed that the *Pinus pinea* L. stands had distributed indigenously because of the many other herbaceous and woody Mediterranean taxa. They are as follows: *Trachomitum venetum* (L.) Woodson subsp. *sarmatiense* (Woodson) Avet. (*Apocynaceae*), *Ostrya carpinifolia* Scop. (*Betulaceae*), *Cistus creticus* L., *C. salviifolius* L.

Table 3. Comparison of the 10 families containing the most species in studies conducted in nearby regions.

Families	Present study	Number of taxa (%)		
		Anşin (1979)	Düzenli (1988)	Küçük (1998)
<i>Compositae</i>	9.5	8.9	14.0	10.2
<i>Leguminosae</i>	8.7	8.1	8.1	4.5
<i>Rosaceae</i>	6.5	5.6	6.0	6.8
<i>Cruciferae</i>	6.4	3.6	3.8	2.7
<i>Labiatae</i>	5.5	4.7	4.7	6.0
<i>Gramineae</i>	4.9	4.0	4.9	3.9
<i>Scrophulariaceae</i>	4.2	3.9	3.4	3.7
<i>Caryophyllaceae</i>	3.7	2.9	5.2	2.7
<i>Boraginaceae</i>	3.3	1.9	2.5	2.1
<i>Liliaceae</i>	2.7	2.4	2.0	2.4
Others	44.6	54.1	45.4	55.0

(*Cistaceae*), *Olea europaea* L. var. *sylvestris* (Mill.) Lehr, *Jasminum fruticans* L. (*Oleaceae*), *Cotinus coggygria* Scop., *Rhus coriaria* L. (*Anacardiaceae*), *Silene italicica* (L.) Pers. (*Caryophyllaceae*), *Trifolium campestre* Schreb (*Leguminosae*), *Euphorbia paralias* L., *E. pepulis* L. (*Euphorbiaceae*), *Erodium malacoides* (L.) L'Hérit. (*Geraniaceae*), *Sideritis montana* L. subsp. *montana* (*Labiatae*). Botanists have been interested in Fistıklı village because of its rich flora. This richness depends on the climatic variety and geographical structure of the area. Many botanists have studied the flora, vegetation and plant-geography of the surrounding area including, Mirov (1967) and Zohary (1973).

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Although the economy of the area depends on agriculture and forest products, there is no visible vegetation destruction in the area. The exception to this is the roadsides. As a result, the Hatila Valley National Park has a very rich flora mainly because of its different climates and habitats. Unfortunately, COMINCO runs a gold mine in this area and has been destroying the flora. Therefore, it is important that this area be protected as soon as possible. Being a detailed floristic study, this report may be a significant basis to measure possible variations in the future due to economic, industrial and pollution effects, and the most evident contribution is to the flora of Turkey.

## APPENDIX

The sequence of families, genera and species in the following list follows the system adopted in the Flora of Turkey.

### PTERIDOPHYTA

#### EQUISETACEAE

*Equisetum hyemale* L.

Karadağ hill, streamside, 1555 m, 14.04.1995, ÖE 1100.

*E. ramosissimum* Desf.

Taşlıca village, Kılıçlı, moist meadow, 1750 m, 10.06.1997, ÖE 1831.

*E. fluviatile* L.

Taşlıca village, Köklü, streamside, 1800 m, 04.06.1997, ÖE 1832.

*E. palustre* L.

Taşlıca village, Köklü, roadside, moist soil, 1400 m, 13.09.1995, ÖE 1101.

*E. arvense* L.

Taşlıca village, Kanacık, waste place, 1750 m, 21.05.1997, ÖE 1833.

*E. telmateia* Ehrh.

Taşlıca village, Köklü, streamside, 1250 m, 10.06.1997, ÖE 1834.

### LYCOPODIACEAE

*Lycopodium selago* L.

Taşlıca village, Bakacak, rocky place, 1200 m, 21.05.1997, ÖE 1835.

*L. clavatum* L.

Taşlıca village, Arıpinar, shady bank, 1900 m, 02.06.1997, ÖE 1836.

*L. alpinum* L.

Taşlıca village, Şarkırat plateau, alpine slope, 2200 m, 10.06.1997, ÖE 1837.

### OSMUNDACEAE

*Osmunda regalis* L.

Cerat hill, open *Picea* Dietr. forest, moist soil, 1250 m, 21.05.1995, ÖE 1102.

### ADIANTHACEAE

*Adiantum capillus-veneris* L.

Taşlıca village, Direkli, stony slope, 1650 m, 12.06.1996, ÖE 1838.

### PTERIDACEAE

*Pteris cretica* L.

Taşlıca village, Arganet, stony slope, 1200 m, 11.07.1996, ÖE 1839.

### HYPOLEPIDACEAE

*Pteridium aquilinum* (L.) Kuhn

Saçinge hill, open forest, roadside, 1950 m, 13.05.1995, ÖE 1103.

Cosm.

### THELYPTERIDACEAE

*Thelypteris limbosperma* (All.) Fuchs

Taşlıca village, Meydanlar, in the *Picea* Dietr. forest, 1400 m, 06.06.1995, ÖE 1104.

### ASPLENIACEAE

*Asplenium trichomanes* L.

Taşlıca village, Gökcayurt, rocky and stony slope, 970 m, 13.07.1995, ÖE 1106.

*A. adiantum-nigrum* L.

Hatipoğlu rocky and stony slope, 550 m, 13.07.1995, ÖE 1105.

*A. septentrionale* (L.) H.Hoffm.

Fistikli village, rocky and stony slope, 1930 m, 13.07.1995, ÖE 1107.

*Ceterach officinarum* DC.

Fistikli village, pathside, rocky and stony slope, 300 m, 06.04.1995, ÖE 1108.

*Phyllitis scolopendrium* (L.) Newman

Taşlıca village, Gölgelei, open area, stony and moist soil, shady area, 1300 m, 15.07.1995, ÖE 1109.

### ATHYRIACEAE

*Athrium filix-femina* (L.) Roth

Taşlıca village, Bakacak, along the water channel side, mixed forest, moist soil, 1150 m, 17.05.1995, ÖE 1110.

Cosm.

### ASPIDIACEAE

*Polystichum lonchitis* (L.) Roth

Taşlıca village, Demirci, roadside, rocky and stony slope, 1700 m, 16.08.1995, ÖE 1112.

*Dryopteris abbreviata* (DC.) Newman

Taşlıca village, Arıpinar, rocky slope, 1800 m, 10.07.1997, ÖE 1840.

*D. dilatata* (Hoffm.) Gray

Saçinge hill, rocky slope, 1750 m, 08.07.1997, ÖE 1841.

*D. liliiana* Golitsin

Taşlıca village, Direkli, open area, wet soil, 1600 m, 16.08.1995, ÖE 1111.

VU.

### BLECHNACEAE

*Blechnum spicant* (L.) Roth

Taşlıca village, Demirci, shady bank, 1250 m, 12.07.1997, ÖE 1842.

### POLYPODIACEAE

*Polypodium vulgare* L. subsp. *vulgare*

Taşlıca village, Arganet, roadside, rocky area, 1450 m, 16.05.1995, ÖE 1113.

Cosm.

### SPERMATOPHYTA

#### GYMNOSPERMAE

##### PINACEAE

*Abies nordmanniana* (Stev.) Spach subsp. *nordmanniana*

Saçinge hill, mixed forest, 1500 m, 13.07.1995, ÖE 1114, Mount Kurt, mixed forest, 1950 m, 10.06.1996, ÖE 1676,

Eux.

*Picea orientalis* (L.) Link

Taşlıca village, Gökcayurt, mixed forest, 650 m, 16.05.1995, ÖE 1677, Taşlıca village, Meydanlar, as pure stand or mixed forest with *Pinus sylvestris* L., *Fagus orientalis* Lipsky, *Abies nordmanniana* (Stev.) Spach, 1300 m, 13.07.1995, ÖE 1115, Şarkırat plateau, mixed forest, 2250 m, 10.06.1996, ÖE 1678,

Eux.

*Pinus sylvestris* L.

Taşlıca village, Meydanlar, as pure stand or mixed forest with *Picea orientalis* (L.) Link, *Fagus orientalis* Lipsky, *Abies nordmanniana* (Stev.) Spach, 850 m, 13.07.1995, ÖE 1116, Mount Kurt, mixed forest, 2200 m, 10.06.1996, ÖE 1679,

Euro-Sib.

*P. pinea* L.

Fistikli village, together with shrub species as follow: *Cistus creticus* L., *C. salviifolius* L., *Cotinus coggygria* Scop., *Carpinus orientalis* Miller, *Buxus sempervirens* L., 550 m, 13.07.1995, ÖE 1117,

Medit.

### TAXACEAE

*Taxus baccata* L.

Saçinge hill, solitary in mixed forest, 1000 m, 13.07.1995, ÖE 1118.

CUPRESSACEAE	<i>A. nasutum</i> Fisch. ex Rchb. Taşlıca village, Alacadağ, stony slope, 1800 m, 13.07.1995, ÖE 1119.	<i>Ranunculus cappadocicus</i> Willd Taşlıca village, Meydanlar, <i>Picea</i> Dietr. forest, 1200 m, 21.05.1995, ÖE 1134.
<i>Juniperus communis</i> L. subsp. <i>hemisphaerica</i> (Presl) Nyman	Eux.	Eux.
Taşlıca village, Alacadağ, stony slope, 1800 m, 13.07.1995, ÖE 1119.	<i>Delphinium flexuosum</i> M.Bieb. Taşlıca village, Arıpinar, slope, 1750 m, 13.07.1995, ÖE 1131.	<i>R. buhsei</i> Boiss. Mount Keçi, rocky slope, 1900 m, 10.07.1997, ÖE 1853.
<i>J. communis</i> L. subsp. <i>alpina</i> (Sm.) Celak.	Eux.	Hyr-Eux (mt).
Taşlıca village, Alacadağ, subalpine slope, 2300 m, 16.06.1996, ÖE 1522.	<i>Consolida hohenackeri</i> (Boiss.) Grossh. Fistikli village, dry slope, 400 m, 16.07.1997, ÖE 1847	<i>R. oreophilus</i> M.Bieb. Mount Otluca, stony slope, 2400 m, 06.08.1997, ÖE 1854.
<i>J. oxycedrus</i> L. subsp. <i>oxycedrus</i>	Ir-Tur.	Euro-Sib.
Fistikli village, rocky and stony slope, 1450 m, macchie, 13.07.1995, ÖE 1120.	<i>C. orientalis</i> (Gay) Schröd. Perikaya hill, rocky slope, 1900 m, 18.08.1997, ÖE 1848.	<i>R. dissectus</i> M.Bieb. subsp. <i>napellifolius</i> (DC.) P.H.Davis Alacadağ, rocky slope, 2300 m, 10.07.1997, ÖE 1855.
<i>J. foetidissima</i> Willd.	Ir-Tur.	<i>R. repens</i> L. Taşlıca village, Meydanlar, moist meadows, 1450 m, 03.06.1995, ÖE 1590.
Taşlıca village, Gökçeyurt, rocky and stony slope, together with <i>Quercus</i> L. and <i>Carpinus</i> L., 1200 m, 13.07.1995, ÖE 1121.	<i>C. regalis</i> Gray subsp. <i>regalis</i> Çoruh: above Artvin, 800 m, D. 29695.	<i>R. grandiflorus</i> L. Taşlıca village, Arıpinar, water meadow, 1750 m, 25.05.2997, ÖE 1856.
EPHEDRACEAE	Çoruh: above Artvin, 800 m, D. 29695.	<i>R. constantinopolitanus</i> (DC.) d' Urv. Taşlıca village, Meydanlar, meadow, 1150 m, 21.05.1995, ÖE 1135.
<i>Ephedra major</i> Host	<i>Anemone narcissiflora</i> L. subsp. <i>narcissiflora</i> Mount Kurt, subalpine slope, 2400 m, 17.07.1997, ÖE 1849.	<i>R. muricatus</i> L. Fistikli village, muddy roadside, 700 m, 21.05.1997, ÖE 1857.
Çoruh riverside, rocky slope, open area in the mixed forest, together with <i>Acer</i> L., <i>Rhus</i> L., <i>Ficus</i> L., <i>Paliurus</i> Mill., 400 m, 13.07.1995, ÖE 1123.	Euro-Sib.	<i>R. arvensis</i> L. Taşlıca village, Konacık, waste place, 1650 m, 13.07.1995, ÖE 1591.
ANGIOSPERMAE	<i>A. blanda</i> Schott & Kotschy	<i>R. pinardii</i> (Stev.) Boiss. Taşlıca village, Meydanlar, <i>Picea</i> Dietr. forest, 1200 m, 21.05.1995, ÖE 1592.
DICOTYLEDONAE	Taşlıca village, Konacık, moist rocky and stony slope, 1900 m, 12.04.1995, ÖE 1125.	<i>Aquilegia olympica</i> Boiss. Taşlıca village, Şarkırat plateau, streamside, open forest, 2100 m, 03.06.1995, ÖE 1127.
RANUNCULACEAE	<i>A. caucasica</i> Willd. ex Rupr.	<i>Thalictrum minus</i> L. var. <i>minus</i> Taşlıca village, Arıpinar, damp meadow, 1850 m, 10.07.1997, ÖE 1858.
<i>Helleborus orientalis</i> Lam.	Mount Keçi, roadside, moist soil, 1980 m, 12.04.1996, ÖE 1126.	BERBERIDACEAE
Fistikli village, open forest, 470 m, 04.04.1995, ÖE 1132.	VU, Eux.	<i>Berberis vulgaris</i> L.
Eux.	<i>A. albana</i> Stev.	Hatipoğlu, open forest, 1970 m, 12.10.1995, ÖE 1136.
<i>Nigella latifolia</i> P.H.Davis	Mount Otluca, alpine slope, 2650 m, 10.06.1997, ÖE 1850.	Eux.
Taşlıca village, Meydanlar, meadow, 1250 m, 12.07.1997, ÖE 1843.	Ir-Tur.	
Ir-Tur.	<i>Clematis vitalba</i> L.	
<i>N. segetalis</i> M.Bieb.	Taşlıca village, Meydanlar, roadside, as climbing form on <i>Carpinus</i> L., 1350 m, 13.07.1995, ÖE 1129.	
Fistikli village, roadside, 670 m, 13.06.1995, ÖE 1133.	<i>C. orientalis</i> L.	
<i>Trollius ranunculinus</i> (Smith) Stearn	Fistikli village, roadside, 400 m, 13.07.1995, ÖE 1130.	
Taşlıca village, Arıpinar, streamside, 1850 m, 17.06.1996, ÖE 1844.	<i>Adonis aestivalis</i> L. subsp. <i>aestivalis</i>	
<i>Actaea spicata</i> L.	Taşlıca village, Direkli, stony slope, 1450 m, 10.07.1997, ÖE 1851.	
Saçinge hill, <i>Picea</i> Dietr. forest, 1400 m, 13.07.1995, ÖE 1124.	<i>A. flammea</i> Jacq.	
<i>Caltha palpetala</i> Hochst. ex Lorent	Taşlıca village, Arıpinar, stony place, 1700 m, 16.06.1997, ÖE 1852.	
Tuzlu hill, streamside, 2800 m, 07.04.1996, ÖE 1128.	Eux.	
<i>Aconitum orientale</i> Mill.		
Taşlıca village, Arıpinar, meadow, 1700 m, 21.06.1997, ÖE 1845.		
Eux.		

<b>PAPAVERACEAE</b>	<i>Rapistrum rugosum</i> (L.) All.	<i>Alyssum desertorum</i> Stapf var. <i>Desertorum</i>
<i>Chelidonium majus</i> L.	Fıstıklı village, cultivated place, 450 m, 10.06.1997, ÖE 1863.	Fıstıklı village, fieldside, 360 m, 18.06.1995, ÖE 1211.
Hatipoğlu, roadside, 435 m, 27.05.1995, ÖE 1137.	<i>Conringia perfoliata</i> (C.A.Mey.) Busch	<i>A. xanthocarpum</i> Boiss.
Euro-Sib.	Fıstıklı village, roadside, 650 m, 12.05.1997, ÖE 1864.	Cerat hill, rocky slope, 1700 m, 10.06.1997, ÖE 1869.
<i>Glaucium leiocarpum</i> Boiss.	<i>Lepidium campestre</i> (L.) R.Br.	<i>A. pseudo-mouradicum</i> Hausskn. & Bornm. ex Baumg.
Taşlıca village, Bakacak, open forest, 950 m, 13.07.1995, ÖE 1139.	Taşlıca village, Meydanlar, waste place, 1250 m, 10.06.1997, ÖE 1865.	Taşlıca village, Kılıçlı, open area, 2100 m, 18.06.1995, ÖE 1210.
<i>Papaver orientale</i> L. var. <i>parviflora</i> Busch	<i>L. perfoliatum</i> L.	Endemic, LR(Ic).
Mount Otluca, stony slope, 2100 m, 15.08.1997, ÖE 1859.	Taşlıca village, Gökcayurt, stony slope, 1150 m, 05.06.1997, ÖE 1866.	<i>A. peltaroides</i> Boiss. subsp. <i>peltaroides</i>
Ir-Tur.	<i>Cardaria draba</i> (L.) Desv. subsp. <i>chaleensis</i> (L.) O.E.Schulz	Taşlıca village, Arıpinar, roadside, 2200 m, 27.06.1995, ÖE 1209.
<i>P. fugax</i> Poiret var. <i>fugax</i>	Taşlıca village, Demirci, roadside, 1750 m, 14.04.1996, ÖE 1219.	Endemic, LR(Ic), Ir-Tur.
Perikaya hill, dry slope, 2000 m, 10.06.1997, ÖE 1860.	<i>Thlaspi arvense</i> L.	<i>A. paphlagonicum</i> (Hausskn.) Dudley
<i>P. dubium</i> L.	Taşlıca village, Bakacak, slope, moist soil, 1000 m, 09.05.1995, ÖE 1232.	Taşlıca village, Konacık, open forest, 1450 m, 27.06.1995, ÖE 1208.
Fıstıklı village, roadside, 670 m, 12.04.1996, ÖE 1140.	Cosm.	Endemic, LR(Ic), Ir-Tur.
<i>P. arenarium</i> M.Bieb.	<i>T. huetii</i> Boiss.	<i>A. murale</i> Waldst. & Kit. var. <i>murale</i>
Fıstıklı village, stony slope, 550 m, 10.06.1997, ÖE 1861.	Taşlıca village, Arıpinar, waste place, 1700 m, 10.06.1997, ÖE 1867.	Tuzlu hill, subalpine slope, rocky place, 2200 m, 10.06.1997, ÖE 1870.
<i>Corydalis conorhiza</i> Ledeb.	<i>Pachyphragma macrophyllum</i> (Hoffm.) Busch	<i>Draba bruniifolia</i> Stev. subsp. <i>armeniaca</i> Coode & Cullen
Tuzlu hill, alpine vegetation, 2700 m, 10.07.1997, ÖE 2008.	Taşlıca village, Kılıçlı, roadside, 1850 m, 12.04.1996, ÖE 1228.	Perikaya hill, slope, 1800 m, 16.06.1995, ÖE 1220.
Eux.	Eux.	Endemic, LR(Ic).
<i>C. caucasica</i> DC.	<i>Capsella bursa-pastoris</i> (L.) Medik.	<i>D. hispida</i> Willd.
Taşlıca village, Direkli, moist soil, 1500 m, 28.02.1996, ÖE 1138.	Taşlıca village, Davütet, roadside, open forest, 1450 m, 13.07.1995, ÖE 1213.	Mount Keçi, alpine slope, 2000 m, 13.04.1996, ÖE 1221.
Eux.	Cosm.	Eux (mt).
<i>Fumaria officinalis</i> L.	<i>Neslia paniculata</i> (L.) Desv.	<i>D. siliquosa</i> M.Bieb.
Fıstıklı village, open area, cultivated ground, 350 m, 1142, 13.04.1996, ÖE 1673.	Taşlıca village, Arıpinar, rocky slope, 1800 m, 21.07.1997, ÖE 1868.	Şaşkırat plateau, alpine slope, 2200 m, 26.07.1997, ÖE 1871.
<i>F. microcarpa</i> Boiss. ex Hausskn.	<i>Alyssoides utriculata</i> (L.) Munoz Med.	Hyr-Eux (mt).
Mount Keçi, roadside, 1750 m, 12.07.1995, ÖE 1141.	Taşlıca village, Gökcayurt, roadside, 1250 m, 21.04.1995, ÖE 1207.	<i>D. muralis</i> L.
<i>F. asepala</i> Boiss.	<i>Fibigia clypeata</i> (L.) Medik.	Taşlıca village, Kılıçlı, fieldside, 1550 m, 09.04.1996, ÖE 1222.
Taşlıca village, Gökcayurt, roadside, 1050 m, 10.07.1997, ÖE 2009.	Fıstıklı village, rocky slope, 600 m, 21.04.1995, ÖE 1225.	<i>D. nemorosa</i> L.
<b>CRUCIFERAE (BRASSICACEAE)</b>	<i>F. eriocarpa</i> (DC.) Boiss.	Tuzlu hill, alpine slope, 2400 m, 10.06.1997, ÖE 1872.
<i>Brassica elongata</i> Ehrh.	Fıstıklı village, roadside, rocky area, 470 m, 12.04.1996, ÖE 1223.	<i>Erophila verna</i> (L.) Chevall. subsp. <i>verna</i>
Taşlıca village, Meydanlar, cultivated field, 1350 m, 10.06.1997, ÖE 1862.	<i>F. suffruticosa</i> (Vent.) Sweet	Taşlıca village, Arıpinar, slope, 1800 m, 20.06.1997, ÖE 1873.
Ir-Tur.	Suçinge hill, roadside, stony slope, 1850 m, 21.04.1995, ÖE 1224.	<i>Arabis brachycarpa</i> Rupr.
<i>Hirschfeldia incana</i> (L.) Lag.-Foss.	Eux (mt).	Tuzlu hill, alpine pasture, 2800 m, 10.06.1997, ÖE 1874.
Çoruh: beside the river Çoruh, Koch.		
<i>Raphanus raphanistrum</i> L.		
Fıstıklı village, open forest, 350 m, 15.04.1995, ÖE 1229.		

<i>A. caucasica</i> Willd. subsp. <i>caucasica</i>	<i>H. matronalis</i> L. subsp. <i>adzharica</i> (Tzvelev) Cullen	<b>VIOLACEAE</b>
Fıstıklı village, roadside, stony slope, 540 m, 05.04.1996, ÖE 1212.	Taşlıca village, Meydanlar, meadow, 1300 m, 23.06.1995, ÖE 1226.	<i>Viola odorata</i> L.
<i>A. nova</i> Vill.	<i>H. transcaucasica</i> Tzvelev	Taşlıca village, Meydanlar, moist soil, shady area, 1250 m, 15.04.1995, ÖE 1191.
Perikaya hill, stony slope, 2100 m, 20.06.1997, ÖE 1875.	Çoruh: Artvin, 2100 m, Stn. & Hend. 5931.	Cosm.
<i>Turritis glabra</i> L.	<i>Erysimum cuspidatum</i> (M.Bieb.) DC.	<i>V. suavis</i> M.Bieb.
Mount Otluca, slope, 2200 m, 12.07.1997, ÖE 1876.	Taşlıca village, Direkli, stony slope, 1500 m, 10.06.1997, ÖE 1880.	Fıstıklı village, open forest, 740 m, 15.04.1996, ÖE 1194.
<i>Nasturtium officinale</i> R.Br.	<i>Alliaria petiolata</i> (M.Bieb.) Cavara & Grande	<i>V. alba</i> Besser
Taşlıca village, Bakacak, open forest, streamside, wet soil, 950 m, 16.06.1995, ÖE 1127.	Taşlıca village, Meydanlar, open forest, 1150 m, 04.04.1995, ÖE 1206.	Taşlıca village, Demirci, open forest, 1540 m, 13.04.1996, ÖE 1187.
<i>Rorippa austriaca</i> (Crantz) Besser	<i>Sisymbrium officinale</i> (L.) Scop.	<i>V. sieheana</i> Becker
Taşlıca village, Davütet, wet place, 1350 m, 10.06.1997, ÖE 1877.	Hatipoğlu, roadside, wet soil, 650 m, 11.03.1996, ÖE 1231.	Taşlıca village, Demirci, stony slope, 1350 m, 12.05.1995, ÖE 1193.
<i>R. sylvestre</i> (L.) Bess.	<i>S. loeselii</i> L.	<i>V. canina</i> L.
Taşlıca village, Meydanlar, streamside, 1250 m, 12.09.1995, ÖE 1230.	Taşlıca village, Meydanlar, roadside, 1250 m, 10.06.1997, ÖE 1881.	Fıstıklı village, roadside, 470 m, 15.04.1996, ÖE 1192.
<i>Barbarea plantaginea</i> DC.	<b>CAPPARACEAE</b>	<i>V. altaica</i> Ker Gawl. subsp. <i>oreades</i> (M.Bieb.) Becker
Taşlıca village, Arıpinar, streamside, 1750 m, 10.07.1997, ÖE 1878.	<i>Capparis ovata</i> Desf. var. <i>herbacea</i> (Willd.) Zohary	Tuzlu hill, alpine slope, 2900 m, 14.05.1996, ÖE 1189.
<i>Cardamine bulbifera</i> (L.) Crantz	Taşlıca village, Çoruh riverside, roadside, 250 m, 16.05.1996, ÖE 1205.	<i>V. kitaibeliana</i> Roem. & Schult.
Taşlıca village, Direkli, <i>Picea Dietr.</i> forest, moist soil, 1600 m, 12.04.1996, ÖE 1214.	<b>CISTACEAE</b>	Fıstıklı village, fieldside, 550 m, 14.05.1996, ÖE 1190.
Euro-Sib.	<i>Cistus creticus</i> L.	<i>V. arvensis</i> Murray
<i>C. quinquefolia</i> (M.Bieb.) Schmalh.	Fıstıklı village, 350 m, 15.04.1996, ÖE 1195.	Taşlıca village, Demirci, meadow, 1400 m, 06.06.1997, ÖE 1883.
Taşlıca village, Kılıçlı, roadside, open forest, 1680 m, 12.04.1996, ÖE 1216.	<i>Omní-Medit.</i>	<b>POLYGALACEAE</b>
Euro-Sib.	<i>C. salviifolius</i> L.	<i>Polygala supina</i> Schreb.
<i>C. raphanifolia</i> Pourr. subsp. <i>acris</i> (Gris) O.E.Schulz	Fıstıklı village, <i>Pinus pinea</i> L. forest, 370 m, 15.04.1996, ÖE 1196.	Suçinge hill, open area, stony slope, 1850 m, 17.05.1995, ÖE 1396.
Cerat hill, open area, streamside, 1850 m, 20.06.1995, ÖE 1217.	<i>Medit.</i>	<i>P. pruinosa</i> Boiss. subsp. <i>pruinosa</i>
Euro-Sib.	<i>Helianthemum nummularium</i> (L.) Mill. subsp. <i>tomentosum</i> (Scop.) Schinz & Thell.	Fıstıklı village, open area, slope, 570 m, 07.05.1995, ÖE 1395.
<i>C. tenera</i> Gmel.	Fıstıklı village, stony and rocky slope, 700 m, 03.05.1995, ÖE 1197.	<i>P. major</i> Jacq.
Taşlıca village, Direkli, streamside, 1540 m, 16.06.1995, ÖE 1218.	<i>H. nummularium</i> (L.) Mill. subsp. <i>ovatum</i> Viv.	Taşlıca village, Meydanlar, stony slope, 900-1350 m, 07.05.1995, ÖE 1394.
Hyr-Eux.	Taşlıca village, Meydanlar, stony and rocky slope, 1300 m, 21.08.1995, ÖE 1198.	Euro-Sib.
<i>C. impatiens</i> L.var. <i>pectinata</i> (Palla) Trautv.	<i>Fumana arabica</i> (L.) Spach var. <i>arabica</i>	<i>P. anatolica</i> Boiss. & Heldr.
Taşlıca village, Demirci, mixed forest, wet soil, shady area, 1550 m, 12.04.1996, ÖE 1215.	Taşlıca village, Direkli, mixed forest, 1450 m, 20.07.1997, ÖE 1882.	Fıstıklı village, slope, 450 m, 17.05.1995, ÖE 1393.
Euro-Sib.		<i>P. vulgaris</i> L.
<i>Hesperis bicuspidata</i> (Willd.) Poiret		Taşlıca village, Meydanlar, open forest, 1300 m, 07.05.1995, ÖE 1397.
Taşlıca village, Arıpinar, rocky slope, 1750 m, 20.07.1997, ÖE 1879.		Euro-Sib.

- CARYOPHYLLACEAE**
- Arenaria rotundifolia* M.Bieb. subsp. *rotundifolia*
    - Taşlıca village, Bakacak, meadow, 1350 m, 12.08.1995, ÖE 1593.
    - A. pseudacantholimon* Bornm.
      - Tuzlu hill, alpine slope, 2600 m, 06.06.1997, ÖE 1884.
      - Endemic, LR (lc), Ir-Tur.
    - A. armeniaca* Boiss.
      - Taşlıca village, Arıpinar, dry rocky slope, 1700 m, 16.06.1997, ÖE 1885.
      - Endemic, LR (lc), Ir-Tur.
    - Minuartia imbricata* (M.Bieb) Woronow
      - Tuzlu hill, rocky-stony slope, 2750 m, 10.06.1997, ÖE 1886.
      - Eux (mt).
    - M. aizoides* (Boiss.) Bornm.
      - Taşlıca village, Gökçeyurt, roadside, damp places, 1200 m, 10.06.1994, ÖE 1674.
      - M. circassica* (Albow) Woron.
        - Perikaya hill, alpine slope, 2050 m, 06.06.1997, ÖE 1887.
        - Eux (mt).
      - Stellaria media* (L.) Vill. subsp. *media*
        - Fistıklı village, Hatila streamside, 470 m, 14.04.1996, ÖE 1175.
      - S. holostea* L.
        - Taşlıca village, Arıpinar, slope, 1850 m, 12.07.1997, ÖE 1888.
        - Euro-Sib.
      - Myosoton aquaticum* (L.) Moench
        - Fistıklı village, streamside, moist soil, 400 m, 15.05.1996, ÖE 1167.
        - Euro-Sib.
      - Cerastium cerastioides* (L.) Britt.
        - Taşlıca village, Bakacak, meadow, 1250 m, 12.08.1995, ÖE 1595.
      - C. armeniacum* Gren.
        - Saçinge hill, slope, 1750 m, 10.06.1997, ÖE 1889.
        - Endemic, LR (lc).
      - C. chlorifolium* Fisch. & Mey.
        - Taşlıca village, Arıpinar, meadow, 1550 m, 10.07.1997, ÖE 1890.
- C. gnaphalodes* Fenzl
  - Tuzlu hill, slope, 2700 m, 24.08.1997, ÖE 1891.
  - Endemic, LR (lc).
- C. glomeratum* Thuill.
  - Fistıklı village, slope, 600 m, 28.04.1997, ÖE 1892.
  - Cosm.
- Sagina procumbens* L.
  - Mount Otluca, waste place, 2200 m, 20.07.1997, ÖE 1893.
- Dianthus floribundus* Boiss.
  - Taşlıca village, Direkli, roadside, 1600 m, 16.08.1995, ÖE 1166.
  - Ir-Tur.
- D. crinitus* Sm. var. *crinitus*
  - Taşlıca village, Bakacak, rocky and dry soil, 800 m, 13.07.1995, ÖE 1165.
- D. artwinensis* Schischk.
  - Taşlıca village, Meydanlar, roadside, 950 m, 03.08.1995, ÖE 1163.
  - Endemic, LR(lc).
- D. calocephalus* Boiss.
  - Taşlıca village, Kılıçlı, roadside, rocky and stony slope, open forest, 1450 m, 21.07.1995, ÖE 1164.
- Petrorhagia saxifraga* (L.) Link
  - Taşlıca village, Meydanlar, dry soil, 1100 m, 03.08.1995, ÖE 1168.
  - Euro-Sib.
- Saponaria orientalis* L.
  - Taşlıca village, Bakacak, rocky and dry soil, 800 m, 13.07.1995, ÖE 1596.
- Gypsophila tenuifolia* M.Bieb.
  - Taşlıca village, Meydanlar, meadow, 1300 m, 06.08.1995, ÖE 1597.
  - Eux (mt).
- Silene italica* (L.) Pers.
  - Hatipoğlu, open forest, 745 m, 13.07.1995, ÖE 1169.
  - Medit.
- S. spergulifolia* (Desf.) M.Bieb.
  - Taşlıca village, Arıpinar, stony slope, 1700 m, 10.06.1997, ÖE 1894.
  - Ir-Tur.
- S. vulgaris* (Moench) Garcke var. *vulgaris*
  - Saçinge hill, roadside, open forest, 1800 m, 21.07.1995, ÖE 1174.
- S. compacta** Fisch.
  - Taşlıca village, Arıpinar, open forest, roadside, 1450 m, 17.07.1995, ÖE 1173.
- S. alba* (Mill.) Krause subsp. *divaricata* (Rchb.) Walters
  - Cerat hill, roadside, 1400 m, 13.07.1995, ÖE 1170, Arıpinar, roadside 2200 m, 21.07.1995, ÖE 1171.
- S. alba* (Mill.) Krause subsp. *eriocalycina* (Boiss.) Walters
  - Taşlıca village, Gökcayurt, roadside, 950 m, 21.07.1995, ÖE 1172.
- ILLECEBRACEAE**
- Scleranthus uncinatus* Schur
  - Çoruh: mountain above Artvin, D 29805.
- POLYGONACEAE**
- Polygonum alpinum* All.
  - Tuzlu hill, alpine slope, 2850 m, 12.08.1997, ÖE 1895.
  - Euro-Sib.
- P. bistorta* L. subsp. *carneum* (Koch) Coode & Cullen
  - Saçinge hill, moist slope, 1850 m, 13.07.1995, ÖE 1176.
  - Eux (mt).
- Rumex acetocella* L.
  - Taşlıca village, Arıpinar, streamside, open forest, 1500 m, 15.07.1995, ÖE 1177.
  - Cosm.
- R. scutatus* L.
  - Taşlıca village, Arıpinar, meadow, 1700 m, 10.06.1997, ÖE 1896.
- R. tuberosus* L. subsp. *horizontalis* (C.Koch) Rech.
  - Taşlıca village, Şaşkırat plateau, subalpine slope, 2100 m, 11.06.1995, ÖE 1178.
- R. caucasicus* Rech
  - Mount Keçi, slope, 1900 m, 12.08.1997, ÖE 1897.
- R. crispus* L.
  - Taşlıca village, Köklü, meadow, 1450 m, 10.06.1997, ÖE 1898.
- CHENOPodiaceae**
- Chenopodium foliosum* (Moench) Asch.
  - Fistıklı village, roadside, 450 m, 10.06.1997, ÖE 1899.

<b>PHYTOLACCACEAE</b>	<i>A. calvertii</i> (Boiss.) Boiss.	<i>G. pyrenaicum</i> Burm.
<i>Phytolacca americana</i> L.	Taşlıca village, Arıpinar, rocky slope, 1600 m, 20.07.1997, ÖE 1902.	Taşlıca village, Meydanlar, open forest, 970 m, 18.07.1995, ÖE 1384.
Fıstıklı village, roadside, 530 m, 13.07.1995, ÖE 1162.	Endemic, LR (lc), Ir-Tur.	<i>G. platypetalum</i> Fisch. & Mey.
Cosm.	<i>A. excubita</i> Ilijin	Mount Keçi, mixed forest, 2000 m, 18.07.1995, ÖE 1383.
<b>TAMARICACEAE</b>	Taşlıca village, Bakacak, roadside, 1450 m, 17.06.1995, ÖE 1599.	Hyr-Eux (mt).
<i>Tamarix tetrandra</i> Pall. ex M.Bieb.	<i>Althaea cannabina</i> L.	<i>Erodium oxyrrhynchum</i> M.Bieb.
Çoruh riverside, 350 m, 07.10.1995, ÖE 1199.	Taşlıca village, Meydanlar, meadow, 1300 m, 16.07.1996, ÖE 1600.	Taşlıca village, Gölgeli, rocky slope, 850 m, 16.07.1996, ÖE 1601.
<i>T. smyrnensis</i> Bunge	<b>TILIACEAE</b>	Ir-Tur.
Çoruh riverside, 170 m, 10.06.1997, ÖE 1900.	<i>Tilia rubra</i> DC. subsp. <i>caucasica</i> (Rupr.) V.Engl.	<i>E. malacoides</i> (L.) L' Hér.
<b>GUTTIFERAE</b>	Saçinge hill, roadside, mixed forest, 1320 m, 12.08.1995, 10549, ÖE 1185.	Fıstıklı village, open forest, 300 m, 14.03.1996, ÖE 1380.
<i>Hypericum androsaemum</i> L.	Eux.	Medit.
Taşlıca village, Meydanlar, roadside, streamside, 1300 m, 13.07.1995, ÖE 1179.	<b>LINACEAE</b>	<i>E. amanum</i> Boiss. & Kotschy
Fıstıklı village, streamside, 370 m, 15.06.1996, ÖE 1180.	<i>Linum aroanium</i> Boiss. & Orph.	Taşlıca village, Direkli, rocky area, 1450 m, 11.04.1996, ÖE 1379.
Euro-Sib.	Taşlıca village, Meydanlar, stony slope, 1300 m, 07.05.1995, ÖE 1390.	Endemic, LR(lc).
<i>H. bupleuroides</i> Gris.	<i>L. bienne</i> Mill.	<b>OXALIDACEAE</b>
Taşlıca village, Davütet, open area in mixed forest, moist soil, 1300 m, 11.08.1995, ÖE 1182.	Fıstıklı village, fieldside, 550 m, 07.05.1995, ÖE 1391.	<i>Oxalis acetosella</i> L.
Eux.	Medit.	Taşlıca village, Meydanlar, <i>Picea</i> Dietr. forest, moist soil, 1070 m, 15.07.1995, ÖE 1378.
<i>H. montanum</i> L.	<i>L. catharticum</i> L.	<i>O. corniculata</i> L.
Tuzlu hill, stony slope, 2250 m, 20.07.1997, ÖE 1901.	Taşlıca village, Arıpinar, stony slope, 1750 m, 16.07.1995, ÖE 1392.	Taşlıca village, Bakacak, mixed forest, 1500 m, 10.07.1996, ÖE 1602.
Euro-Sib.	Euro-Sib.	Cosm.
<i>H. bithynicum</i> Boiss.	<b>GERANIACEAE</b>	<b>BALSAMINACEAE</b>
Taşlıca village, Gölgeli, moist soil, 750 m, 21.08.1995, ÖE 1181.	<i>Geranium lucidum</i> L.	<i>Impatiens noli-tangere</i> L.
Eux.	Hatipoğlu, <i>Picea</i> Dietr. forest side, 450 m, 14.03.1996, ÖE 1381.	Taşlıca village, Demirci, streamside, 1150 m, 19.07.1995, ÖE 1389.
<i>H. orientale</i> L.	<i>G. purpureum</i> Vill.	Euro-Sib.
Taşlıca village, Şarkırat plateau, subalpine slope, 2200 m, 17.06.1995, ÖE 1183, Arıpinar, roadside, 1650 m, 11.05.1996, ÖE 1675.	Taşlıca village, Gölgeli, rocky and stony slope, 1000 m, 18.07.1995, ÖE 1386.	<b>ACERACEAE</b>
<i>H. perforatum</i> L.	<i>G. robertianum</i> L.	Taşlıca village, Şarkırat plateau, mixed forest, 2550 m, 14.05.1996, ÖE 1375.
Saçinge hill, open forest, wet soil, 1900 m, 03.08.1995, ÖE 1184.	Taşlıca village, Bakacak, open forest, 1025 m, 21.06.1995, ÖE 1387.	Eux.
<b>MALVACEAE</b>	<i>G. molle</i> L. subsp. <i>molle</i>	<i>A. cappadocicum</i> Gled. var. <i>cappadocicum</i>
<i>Malva sylvestris</i> L.	Fıstıklı village, fieldside, 500 m, 13.03.1995, ÖE 1382.	Taşlıca village, Direkli, mixed forest, 800-1850 m, 17.08.1995, ÖE 1370.
Taşlıca village, Bakacak, roadside, 1400 m, 17.06.1995, ÖE 1598.	<i>G. psilostemon</i> Ledeb.	Hyr-Eux.
<i>Alcea hohenackeri</i> (Boiss. & Huet) Boiss.	Taşlıca village, Konacık, <i>Picea</i> Dietr. forest, 1950 m, 21.06.1995, ÖE 1385.	<i>A. cappadocicum</i> Gled. var. <i>stenocarpum</i> Yalt.
Taşlıca village, Direkli, roadside, open forest, 1450 m, 21.07.1995, ÖE 1186.	Eux.	Taşlıca village, Konacık, mixed forest, 1370 m, 17.08.1995, ÖE 1371.
	<i>G. sylvaticum</i> L.	Endemic, VU, Eux.
	Taşlıca village, Arıpinar, mixed forest, 1950 m, 18.07.1995, ÖE 1388.	
	Euro-Sib.	

<b>A. platanoides L.</b>	<b>Rhus coriaria L.</b>	<b>A. glycyphyllos L. subsp. glycyphylloides (DC.) Matthews</b>
Fistıklı village, roadside, 1300 m, 13.06.1995, ÖE 1374.	Çoruh riverside, roadside, stony slope, 750 m, 18.08.1995, ÖE 1377.	Taşlıca village, Arganet, open forest, 1350 m, 11.07.1995, ÖE 1300.
Euro-Sib.	Medit.	Euro-Sib.
<b>A. divergens Pax var. divergens</b>	<b>Pistacia terebinthus L. subsp. palaestina (Boiss.) Engler</b>	<b>A. fraxinifolius DC.</b>
Çoruh riverside, 350 m, 17.07.1995, ÖE 1372.	Taşlıca village, Gölgeli, mixed forest, 1100 m, 20.07.1997, ÖE 1903.	Taşlıca village, Arıpinar, mixed forest, 1850 m, 11.07.1995, ÖE 1301.
Endemic, VU.	<b>CELASTRACEAE</b>	Ir-Tur.
<b>A. campestre L. subsp. campestre</b>	<b>Euonymus latifolius (L.) Mill. subsp. latifolius</b>	<b>A. aureus Willd.</b>
Taşlıca village, Arganet, mixed forest, 1300 m, 24.08.1995, ÖE 1368.	Taşlıca village, Köklü, mixed forest, 1300 m, 15.07.1995, ÖE 1358.	Taşlıca village, Meydanlar, stony slope, 1350 m, 10.07.1997, ÖE 1904.
<b>A. campestre L. subsp. leiocarpum (Opiz) Pax</b>	Euro-Sib.	Ir-Tur.
Hatipoğlu, rocky and stony slope, 850 m, 24.08.1995, ÖE 1369.	<b>E. latifolius (L.) Mill. subsp. cauconis Coode &amp; Cullen</b>	<b>A. sommieri Freyn</b>
Euro-Sib.	Taşlıca village, Direkli, mixed forest, moist soil, 1450 m, 15.07.1995, ÖE 1357.	Cerat hill, open forest, 1600 m, 12.06.1996, ÖE 1606.
<b>A. hyrcanum Fisch. &amp; Mey. subsp. hyrcanum</b>	Endemic, LR(nt).	<b>A. woronowii Bornm.</b>
Taşlıca village, Meydanlar, roadside, stony slope, 1400 m, 13.06.1995, ÖE 1373.	<b>LEGUMINOSAE (FABACEAE)</b>	Taşlıca village, Şarkırat plateau, alpine vegetation, 2500 m, 12.06.1996, ÖE 1607.
Euro-Sib.	<b>Chamaecytisus hirsutus (L.) Link</b>	<b>A. falcatus Lam.</b>
<b>RHAMNACEAE</b>	Fistıklı village, roadside, 650 m, 12.05.1996, ÖE 1303.	Mount Keçi, <i>Pinus</i> L. forest, 1700 m, 10.06.1997, ÖE 1905.
<b>Paliurus spina - christi Mill.</b>	<b>Genista tinctoria L.</b>	Eux (mt).
Fistıklı village, roadside, stony slope, dry soil, 470 m, 12.09.1995, ÖE 1365.	Fistıklı village, roadside, 460 m, 19.04.1995, ÖE 1309.	<b>A. adzharicus Popov</b>
<b>Frangula alnus Mill. subsp. alnus</b>	Euro-Sib.	Cerat hill, waste place, 1650 m, 16.07.1996, ÖE 1608.
Taşlıca village, Gölgeli, streamside, 1700 m, 12.09.1995, ÖE 1366.	<b>G. albida Willd.</b>	<b>A. sanguinolentus M.Bieb.</b>
Euro-Sib.	Taşlıca village, Gölgeli, rocky and stony slope, 950 m, 24.04.1996, ÖE 1310.	Taşlıca village, Arganet, dry soil, 1350 m, 20.07.1997, ÖE 1906.
<b>Rhamnus imeretinus Booth</b>	<b>Argyrolobium biebersteinii Ball</b>	<b>A. frickii Bunge</b>
Taşlıca village, Demirci, mixed forest, 1500 m, 12.09.1995, ÖE 1367.	Fistıklı village, rocky place, 540 m, 15.05.1995, ÖE 1298.	Perikaya hill, mixed forest, 2100 m, 17.05.1995, ÖE 1302.
Eux.	<b>Galega officinalis L.</b>	Eux (mt).
<b>R. microcarpus Boiss.</b>	Taşlıca village, Meydanlar, open forest, 1200 m, 13.07.1995, ÖE 1308.	<b>A. taochius Woron.</b>
Taşlıca village, Meydanlar, open forest, 1200 m, 16.06.1996, ÖE 1603.	<b>Colutae armena Boiss. &amp; Huet</b>	Fistıklı village, roadside, 600 m, 10.06.1997, ÖE 1907.
Eux (mt).	<b>Astragalus oreades Mey.</b>	<b>Psoralea acaulis Stev.</b>
<b>AQUIFOLIACEAE</b>	Taşlıca village, Meydanlar, waste place, 1200 m, 10.06.1996, ÖE 1604.	Taşlıca village, Direkli, slope, 1560 m, 06.06.1997, ÖE 1908.
<b>Ilex colchica Pojark.</b>	<b>A. flaccidus M.Bieb.</b>	Eux.
Taşlıca village, Davütet, mixed forest, moist soil, 970 m, 13.07.1995. ÖE 1359.	Taşlıca village, Bakacak, roadside, 1400 m, 22.08.1996, ÖE 1605.	<b>Vicia crocea (Desf.) B.Fedtsch.</b>
Eux.	<b>A. glycyphyllos L. subsp. glycyphyllos</b>	Taşlıca village, Demirci, <i>Picea orientalis</i> (L.) Link forest, 1320 m, 17.09.1995, ÖE 1342.
<b>ANACARDIACEAE</b>	Taşlıca village, Bakacak, forestside, 1300 m, 17.05.1995, ÖE 1299.	Hyr-Eux.
<b>Cotinus coggygria Scop.</b>	Euro-Sib.	<b>V. dadianorum Sommer &amp; Lév.</b>
Çoruh riverside, roadside, 500 m, 21.06.1995, ÖE 1376.		Taşlıca village, Meydanlar, slope, 1300 m, 21.07.1997, ÖE 1908.
Medit.		Eux.

<i>V. cassubica</i> L.	<i>L. cicera</i> L.	<i>T. ochroleucum</i> Huds.
Taşlıca village, Meydanlar, roadside, 1200 m, 22.05.1995, ÖE 1340.	Taşlıca village, Meydanlar, <i>Pinus</i> L. forest, 1350 m, 17.03.1996, ÖE 1312.	Taşlıca village, Demirci, roadside, 1370 m, 12.07.1995, ÖE 1333.
Euro-Sib.	<i>L. nissolia</i> L.	<i>T. canescens</i> Willd.
<i>V. cracca</i> L subsp. <i>cracca</i>	Fistıklı village, roadside, fieldside, 340 m, 25.04.1995, ÖE 1314.	Taşlıca village, Arganet, roadside, 1400 m, 12.07.1995, ÖE 1329.
Taşlıca village, Gölgeli, mixed forest, 1100 m, 22.05.1995, ÖE 1341.	<i>Pisum sativum</i> L. subsp. <i>elatius</i> (M.Bieb.) Asch. & Graebn. var. <i>elatius</i>	Hyr-Eux.
Euro-Sib.	Saçinge hill, open slope, 1700 m, 16.04.1996, ÖE 1325.	<i>T. trichocephalum</i> M.Bieb.
<i>V. villosa</i> Roth subsp. <i>villosa</i>	<i>Ononis arvensis</i> L.	Taşlıca village, Arıpinar, open forest, 1680 m, 12.07.1995, ÖE 1338.
Taşlıca village, Davütet, roadside, stony slope, 1350 m, 12.07.1995, ÖE 1346.	Taşlıca village, Meydanlar, moist and dry slope, 1400 m, 21.07.1997, ÖE 1909.	<i>T. alpestris</i> L.
<i>V. sepium</i> L.	Euro-Sib.	Taşlıca village, Arıpinar, open forest, 1850 m, 12.07.1995, ÖE 1328.
Taşlıca village, Kılıçlı, mixed forest, wet soil, 1600 m, 25.06.1995, ÖE 1345.	<i>Trifolium repens</i> L. var. <i>repens</i>	<i>T. arvense</i> L. var. <i>arvense</i>
Euro-Sib.	Mount Kurt, roadside, 1900 m, 23.05.1996, ÖE 1337.	Taşlıca village, Meydanlar, meadow, 1250 m, 16.06.1995, ÖE 1607.
<i>V. grandiflora</i> Scop. var. <i>grandiflora</i>	Cosm.	<i>Melilotus officinalis</i> (L.) Desr.
Fistıklı village, roadside, 600 m, 13.05.1995, ÖE 1343.	<i>T. montanum</i> L. subsp. <i>humboldtianum</i> (A.Br. & Asch.) Hossain	Taşlıca village, Gölgeli, open area, 750 m, 13.07.1995, ÖE 1323.
Euro-Sib.	Mount Keçi, open slope, 1850 m, 22.08.1995, ÖE 1334.	Cosm.
<i>V. sativa</i> L. subsp. <i>nigra</i> (L.) Ehrh. var. <i>nigra</i>	<i>T. ambiguum</i> M.Bieb.	<i>Medicago lupulina</i> L.
Taşlıca village, Meydanlar, roadside, rocky slope, 1350 m, 28.06.1995, ÖE 1344.	Saçinge hill, open area, 1900 m, 12.07.1995, ÖE 1327.	Taşlıca village, Bakacak, open forest, wet soil, 1100 m, 07.03.1996, ÖE 1321.
<i>Lathyrus aureus</i> (Stev.) Brândză	Euro-Sib.	<i>M. sativa</i> L. subsp. <i>sativa</i>
Fistıklı village, open forest, 450 m, 12.04.1995, ÖE 1311.	<i>T. hybridum</i> L. var. <i>hybridum</i>	Mount Keçi, stony slope, 1850 m, 19.06.1995, ÖE 1322.
Eux.	Taşlıca village, Demirci, roadside, 1400 m, 21.08.1995, ÖE 1331.	<i>M. arabica</i> (L.) Huds.
<i>L. vernus</i> (L.) Bernh.	Cosm.	Fistıklı village, open forest, 450 m, 07.03.1996, ÖE 1320.
Fistıklı village, roadside, 560 m, 16.07.1995, ÖE 1317.	<i>T. campestre</i> Schreb.	Cosm.
Euro-Sib.	Fistıklı village, open forest, 400 m, 22.08.1995, ÖE 1330.	<i>Dorycnium graecum</i> (L.) Ser.
<i>L. laxiflorus</i> (Desf.) Kuntze subsp. <i>laxiflorus</i>	<i>T. tumens</i> Stev. ex M.Bieb.	Fistıklı village, open slopes, 370 m, 15.07.1995, ÖE 1307.
Taşlıca village, Demirci, <i>Pinus</i> Dietr. forest, 1320 m, 13.07.1995, ÖE 1313.	Taşlıca village, Arganet, roadside, 900 m, 23.05.1996, ÖE 1339.	Eux.
<i>L. roseus</i> Stev.	Hyr-Eux.	<i>D. pentaphyllum</i> Scop. subsp. <i>herbaceum</i> (Vill.) Rouy
Taşlıca village, Kanacık, <i>Pinus</i> L. forest, 1500 m, 10.06.1997, ÖE 1908.	<i>T. pratense</i> L. var. <i>pratense</i>	Taşlıca village, Meydanlar, roadside, 1400 m, 20.07.1997, ÖE 1909.
Hyr-Eux.	Taşlıca village, Bakacak, open forest, 1100 m, 22.08.1995, ÖE 1335.	<i>Lotus corniculatus</i> L. var. <i>corniculatus</i>
<i>L. tuberosus</i> L.	Cosm.	Hatipoğlu, roadside, 690 m, 13.07.1995, ÖE 1318.
Saçinge hill, open forest, moist soil, 1500 m, 16.07.1995, ÖE 1315.	<i>T. pratense</i> L. var. <i>sativum</i> Schreb.	<i>L. corniculatus</i> L. var. <i>tenuifolius</i> L.
Euro-Sib.	Taşlıca village, Arganet, open area, 1300 m, 23.05.1996, ÖE 1336.	Taşlıca village, Kılıçlı, streamside, 1500 m, 13.07.1995, ÖE 1319.
<i>L. rotundifolius</i> Willd. subsp. <i>miniatus</i> (M.Bieb. ex Stev.) P.H. Davis	<i>T. medium</i> L. var. <i>medium</i>	<i>Anthyllis vulneraria</i> L. subsp. <i>polyphylla</i> (DC.) Nyman
Taşlıca village, Meydanlar, meadow pasture, 1350 m, 16.07.1995, ÖE 1316.	Taşlıca village, Meydanlar, open forest, 1050 m, 22.08.1995, ÖE 1332.	Taşlıca village, Meydanlar, open forest, 1350 m, 15.05.1995, ÖE 1297.
	Cosm.	Euro-Sib.

<i>Coronilla coronata</i> L.	<i>R. caucasicus</i> Focke	<i>Sanguisorba minor</i> Scop. subsp. <i>muricata</i> (Spach) Briq.
Alacadağ, alpine vegetation, 2750 m, 16.06.1996, ÖE 1608.	Mount Otluca, mixed forest, 1800 m, 10.06.1997, ÖE 1913.	Taşlıca village, Bakacak, roadside, dry soil, 1550 m, 10.06.1996, ÖE 1613.
<i>C. orientalis</i> Mill. var. <i>orientalis</i>	Eux.	<i>Alchemilla sericea</i> Willd.
Taşlıca village, Direkli, roadside, 1470 m, 13.06.1995, ÖE 1305.	<i>Potentilla rupestris</i> L.	Taşlıca village, Şaşkirat plateau, alpine vegetation, 2600 m, 20.07.1996, ÖE 1614.
<i>C. varia</i> L. subsp. <i>varia</i>	Cerat hill, roadside, 1540 m, 23.07.1995, ÖE 1287.	Eux (mt).
Taşlıca village, Bakacak, open forest, 750 m, 13.06.1995, ÖE 1306.	Euro-Sib.	<i>A. caucasica</i> Buser
<i>Onobrychis armena</i> Boiss. & Huet	<i>P. argentea</i> L.	Taşlıca village, Şaşkirat plateau, alpine vegetation, 2800 m, 20.07.1996, ÖE 1615.
Taşlıca village, Arıpinar, meadow, 1650 m, 10.06.1997, ÖE 1910.	Taşlıca village, Köklü, open forest, 1300 m, 23.07.1995, ÖE 1282.	Eux (mt).
Endemic, LR (lc).	<i>P. recta</i> L.	<i>A. sinterisii</i> Rothm.
<i>O. altissima</i> Grossh.	Taşlıca village, Demirci, open area, 1350 m, 23.07.1995, ÖE 1283.	Taşlıca village, Şaşkirat plateau, alpine slope, 1800 m, 05.05.1995, ÖE 1268.
Taşlıca village, Meydanlar, open forest, 1230 m, 19.06.1995, ÖE 1324.	<i>P. crantzii</i> (Crantzow) Beck ex Fritsch var. <i>crantzii</i>	Endemic, LR(nt), Eux.
<i>O. huetiana</i> Boiss.	Taşlıca village, Arıpinar, open area, 1970 m, 23.07.1995, ÖE 1284.	<i>A. retinervis</i> Buser
Taşlıca village, Direkli, meadow, 1700 m, 21.07.1997, ÖE 1911.	Euro-Sib.	Tuzlu hill, alpine pasture, 3000 m, 10.06.1997, ÖE 1916.
Endemic, LR (nt), Ir-Tur.	<i>P. reptans</i> L.	Eux (mt).
<b>ROSACEAE</b>	Fıstıklı village, fieldside, 480 m, 08.08.1995, ÖE 1286.	<i>Rosa pimpinellifolia</i> L.
<i>Aruncus vulgaris</i> Raf.	Eux.	Taşlıca village, Bakacak, open forest, 1550 m, 20.07.1996, ÖE 1616.
Taşlıca village, Arıpinar, mixed forest, wet soil, 1575 m, 13.07.1995, ÖE 1270.	<i>P. micrantha</i> Ramond ex DC.	<i>R. elymaitica</i> Boiss. & Hausskn.
<i>Laurocerasus officinalis</i> Roem.	Taşlıca village, Gökcayurt, open forest, 970 m, 23.07.1995, ÖE 1285.	Taşlıca village, Kılıçlı, roadside, 1600 m, 28.06.1997, ÖE 1917.
Taşlıca village, Davütet, Hatila streamside, mixed forest, 1350 m, 16.05.1996, ÖE 1280.	<i>Fragaria vesca</i> L.	<i>R. iberica</i> Stev.
<i>Prunus spinosa</i> L. subsp. <i>dasyphylla</i> (Schur) Domin	Taşlıca village, Meydanlar, open forest, wet soil, 1200 m, 12.05.1995, ÖE 1279.	Taşlıca village, Kanacık, open area, 1450 m, 10.06.1997, ÖE 1918.
Taşlıca village, Meydanlar, mixed forest, 1300 m, 16.06.1996, ÖE 1609.	<i>Sibbaldia parviflora</i> Willd. var. <i>parviflora</i>	<i>R. montana</i> Chaix subsp. <i>woronowii</i> (Lonacz.) O.Nilsson
Taşlıca village, Davütet, mixed forest, 1650 m, 12.06.1996, ÖE 1610.	Alacadağ, alpine vegetation, 2600 m, 10.06.1995, ÖE 1612.	Mount Keçi, open forest, 1800 m, 28.06.1997, ÖE 1919.
<i>Rubus saxatilis</i> L.	<i>Geum coccineum</i> Sm.	<i>R. canina</i> L.
Cerat hill, open place, 1750 m, 30.06.1997, ÖE 1912.	Tuzlu hill, marshy slope, 2500 m, 06.06.1997, ÖE 1914.	Fıstıklı village, open forest, 450 m, 08.06.1995, ÖE 1289
<i>R. idaeus</i> L.	Euro-Sib.	Cosm.
Taşlıca village, Köklü, roadside, stony slope, 1370 m, 21.08.1995, ÖE 1290.	<i>G. urbanum</i> L.	<i>Mespilus germanica</i> L.
Cosm.	Saçinge hill, in forest, 1600 m, 12.07.1996, ÖE 1613.	Taşlıca village, Demirci, open forest, 1550 m, 18.07.1995, ÖE 1281.
<i>R. caesius</i> L.	<i>Agrimonia eupatoria</i> L.	Hyr-Eux.
Taşlıca village, Bakacak, open forest, 1570 m, 22.07.1996, ÖE 1611.	Taşlıca village, Direkli, open forest, wet soil, 1480 m, 12.09.1995, ÖE 1267.	<i>Cotoneaster nummularia</i> Fisch. & Mey.
<i>R. platypyllos</i> C.Koch.	<i>Aremonia agrimonoides</i> (L.) DC.	Taşlıca village, Meydanlar, open forest, rocky and stony slope, 1200 m, 18.08.1995, ÖE 1271.
Taşlıca village, Meydanlar, slope, 1270 m, 21.08.1995, ÖE 1291.	Taşlıca village, Meydanlar, meadow, 1350 m, 06.06.1997, ÖE 1915.	<i>C. transcaucasicus</i> Pojark.
Eux.	Euro-Sib.	Taşlıca village, Demirci, stony slope, 1500 m, 12.09.1995, ÖE 1272.
		VU.

<i>C. morulus</i> Pojark.	<i>Pyrus communis</i> L. subsp. <i>communis</i>	<i>S. stoloniferum</i> Gmel.
Fistikli village, rocky and stony slope, 750 m, 12.09.1995, ÖE 1273.	Taşlıca village, Bakacak, open forest, 1400 m, 10.06.1996, ÖE 1618.	Saçinge hill, <i>Picea</i> Dietr. forest, 850-1850 m, 21.08.1995, ÖE 1262.
<i>Pyracantha coccinea</i> Roem.	<i>P. elaeagnifolia</i> Pall. subsp. <i>elaeagnifolia</i>	Hyr-Eux (mt).
Çoruh riverside, 550 m, 15.05.1996, ÖE 1288.	Taşlıca village, Demirci, open forest, 1570 m, 11.09.1995, ÖE 1292.	<i>S. alpestre</i> Vill.
<i>Crataegus pentagyna</i> Waldst., Kit. ex Willd.	<i>Amelanchier rotundifolia</i> (Lam.) Dum.Cours. subsp. <i>rotundifolia</i>	Taşlıca village, Davütet, roadside, rocky place, 1400 m, 06.06.1997, ÖE 1923.
Taşlıca village, Meydanlar, stony slope, 1250 m, 20.07.1997, ÖE 1920.	Fistikli village, open forest, 700 m, 10.08.1995, ÖE 1269.	<i>S. album</i> L.
Euro-Sib.	<b>PUNICACEAE</b>	Cerat hill, roadside, stony slope, 1500 m, 13.05.1996, ÖE 1257.
<i>C. orientalis</i> Pall. ex M.Bieb. var. <i>orientalis</i>	<i>Punica granatum</i> L.	Taşlıca village, Arıpinar, rocky area, 2400 m, 13.05.1996, ÖE 1258.
Saçinge hill, open forest, 1870 m, 11.08.1995.	Çoruh riverside, 260 m, 16.05.1996, ÖE 1349.	Hyr.-Eux.
<i>C. curvicephala</i> Lindm.	<b>LYTHRACEAE</b>	<i>S. gracile</i> C.A.Mey.
Taşlıca village, Arıpinar, open forest, 1870 m, 23.09.1995, ÖE 1274.	<i>Lytrum salicaria</i> L.	Taşlıca village, Arıpinar, rocky area, 2400 m, 13.05.1996, ÖE 1258.
<i>C. monogyna</i> Jacq. subsp. <i>monogyna</i>	Fistikli village, open area, streamside, 450 m, 08.08.1995, ÖE 1347.	<i>S. pallidum</i> M.Bieb. var. <i>pallidum</i>
Taşlıca village, Demirci, open forest, 1370 m, 11.08.1995, ÖE 1277.	Euro-Sib.	Taşlıca village, Kılıçlı, roadside, rocky slope, 1350 m, 21.08.1995, ÖE 1260.
<i>C. monogyna</i> Jacq. subsp. <i>azarella</i> (Gris.) Franco	<b>ONAGRACEAE</b>	<i>S. pallidum</i> M.Bieb. var. <i>bithynicum</i> (Boiss.) Chamb.
Taşlıca village, Gökçeyurt, open forest, 720 m, 27.08.1995, ÖE 1276.	<i>Circeae lutetiana</i> L.	Taşlıca village, Demirci, roadside, <i>Picea</i> Dietr. forest, 1570 m, 18.07.1995, ÖE 1259.
<i>C. microphylla</i> C.Koch	Taşlıca village, Gölgeli, mixed forest, 750 m, 13.07.1995, ÖE 1352.	Eux.
Taşlıca village, Demirci, open forest, 1325 m, 23.09.1995, ÖE 1275.	<i>C. alpina</i> L.	<i>Sempervivum glabrefolium</i> Boriss.
Hyr-Eux.	Taşlıca village, Kılıçlı, mixed forest, 1400 m, 20.07.1997, ÖE 1921.	Fistikli village, rocky and stony slope, 750 m, 16.08.1995, ÖE 1264.
<i>Sorbus aucuparia</i> L.	<i>Epilobium angustifolium</i> L.	Endemic, LR (cd).
Taşlıca village, Şaşkırat plateau, subalpine slope, 2400 m, 11.08.1995, ÖE 1293.	Saçinge hill, roadside, open forest, 1600 m, 13.07.1995, ÖE 1350.	<i>S. davisii</i> Muirhead
Euro-Sib.	<i>E. montanum</i> L.	Taşlıca village, Gökçeyurt, stony slope, 1050 m, 06.06.1997, ÖE 1926.
<i>S. umbellata</i> (Desf.) Fritsch var. <i>cretica</i> (Lindl.) Schneid.	Mount Keçi, open forest, 1850 m, 13.07.1995, ÖE 1351.	<b>SAXIFRAGACEAE</b>
Fistikli village, Quercus scrub, rocky area, 2250 m, 17.08.1995, ÖE 1294.	Euro-Sib.	<i>Saxifraga paniculata</i> Mill. subsp. <i>cartilaginea</i> (Willd.) D.A.Webb
<i>S. umbellata</i> (Desf.) Fritsch var. <i>orbiculata</i> (Kárpáti) Gabr.	<b>DATISCACEAE</b>	Taşlıca village, Demirci, open forest, rocky area, 1470 m, 18.05.1995, ÖE 1265.
Taşlıca village, Meydanlar, mixed forest, 1450 m, 17.08.1995, ÖE 1295.	<i>Datisca cannabina</i> L.	Hyr-Eux.
<i>S. torminalis</i> (L.) Crantz var. <i>torminalis</i>	Taşlıca village, Gölgeli, streamside, 1000 m, 10.06.1997, ÖE 1922.	<i>S. artvinensis</i> Matthews
Taşlıca village, Meydanlar, mixed forest, 1250 m, 11.07.1995, ÖE 1296.	<b>CRASSULACEAE</b>	Perikaya hill, stony slope, 1800 m, 20.07.1997, ÖE 1927.
Euro-Sib.	<i>Sedum telephium</i> L. subsp. <i>maximum</i> (L.) Krock.	Endemic, VU, Eux (mt).
<i>Malus sylvestris</i> Mill. subsp. <i>orientalis</i> (Uglitzk.) Browicz var. <i>orientalis</i>	Taşlıca village, Bakacak, roadside, rocky slope, 1070 m, 16.08.1995, ÖE 1263.	<i>S. rotundifolia</i> L.
Taşlıca village, Meydanlar, mixed forest, 1300 m, 10.06.1996, ÖE 1617.	Euro-Sib.	Taşlıca village, Meydanlar, stony slope, 1170 m, 12.06.1995, ÖE 1266.
	<i>S. spurium</i> M.Bieb.	Euro-Sib.
	Taşlıca village, Kılıçlı, rocky area, 1800 m, 25.07.1995, ÖE 1261.	<i>S. cymbalaria</i> L. var. <i>cymbalaria</i>
	Hyr.-Eux.	Taşlıca village, Köklü, streamside, 1500 m, 06.06.1997, ÖE 1928.

<b>GROSSULARIACEAE</b>	<b>Daucus carota L.</b>	<b>Lonicera caucasica Pall. subsp. caucasica</b>
<i>Ribes biebersteinii</i> Berl. ex DC.	Taşlıca village, Köklü, open area, 1500 m, 16.06.1996, ÖE 1625.	Taşlıca village, Arıpinar, stony slope, 1950 m, 18.07.1995, ÖE 1498.
Taşlıca village, Şakirat plateau, subalpine slope, 2250 m, 18.07.1995, ÖE 1256.		<i>L. caucasica</i> Pall. subsp. <i>orientalis</i> (Lam.) Chamb. & Long
Eux.		Mount Kurt, open area, alpine slope, 2600 m, 10.9.1995, ÖE 1499.
<i>R. alpinum</i> L.	Cosm.	Endemic, LR (lc).
Tuzlu hill, subalpine slope, 2300 m, 20.07.1997, ÖE 1929.	<i>H. colchica</i> (C.Koch) C.Koch	<b>VALERIANACEAE</b>
<b>UMBELLIFERAE (APIACEAE)</b>	Taşlıca village, Meydanlar, mixed forest, 1400 m, ÖE 1399.	<i>Valeriana alliariifolia</i> Adams
<i>Sanicula europaea</i> L.	Eux.	Saçinge hill, roadside, 1870 m, 23.06.1995, ÖE 1505.
Taşlıca village, Arıpinar, <i>Picea</i> Dietr. forest, 1750 m, 29.06.1995, ÖE 1402.	<b>CORNACEAE</b>	Cosm.
Euro-Sib.	<i>Cornus sanguinea</i> L. subsp. <i>australis</i> (C.A.Mey.) Jav.	<i>Centranthus longiflorus</i> Stev. subsp. <i>longiflorus</i>
<i>Astrantia maxima</i> Pall. subsp. <i>maxima</i>	Taşlıca village, Gölgeli, roadside, mixed forest, 960 m, 23.05.1995, ÖE 1354.	Hatipoğlu, roadside, 600 m, 10.07.1996, ÖE 1626.
Taşlıca village, Meydanlar, meadow, 1130 m, 29.06.1995, ÖE 1400	Euro-Sib.	Ir-Tur.
Eux.	<i>C. sanguinea</i> L. subsp. <i>cilicica</i> (Wangerin) Chamb.	<i>Valerianella lasiocarpa</i> (Stev.) Betcke
<i>Eryngium caeruleum</i> M.Bieb.	Fistıklı village, mixed forest, 560 m, 23.05.1995, ÖE 1355.	Taşlıca village, Meydanlar, meadow, 1300 m, 06.06.1997, ÖE 1932.
Saçinge hill, open forest, 1500 m, 26.08.1996, ÖE 1619.	E.Medit.	Ir-Tur.
<i>Chaerophyllum bulbosum</i> L.	<i>C. mas</i> L.	<b>DIPSACACEAE</b>
Taşlıca village, Meydanlar, open area, 1350 m, 16.06.1996, ÖE 1620.	Hatipoğlu, mixed forest, 760 m, 23.05.1995, ÖE 1353.	<i>Dipsacus pilosus</i> L.
<i>Carum carvi</i> L.	Euro-Sib.	Taşlıca village, Davütet, roadside, 1450 m, 23.06.1995, ÖE 1507.
Taşlıca village, Bakacak, open area, 1400 m, 22.06.1996, ÖE 1621.	<b>CAPRIFOLIACEAE</b>	<i>Cephalaria aristata</i> C.Koch
<i>C. caucasicum</i> (M.Bieb.) Boiss.	<i>Sambucus ebulus</i> L.	Fistıklı village, fieldside, 770 m, 23.06.1995, ÖE 1506.
Mount Kurt, alpine slope, 2400 m, 20.07.1997, ÖE 1930.	Taşlıca village, Davütet, roadside, 1200 m, 06.07.1995, ÖE 1500.	<i>Scabiosa columbaria</i> L. subsp. <i>columbaria</i> var. <i>columbaria</i>
<i>Pimpinella affinis</i> Ledeb.	Euro-Sib.	Mount Keçi, stony slope, 1950 m, 23.06.1995, ÖE 1508.
Taşlıca village, Arganet, open forest, 1350 m, 29.06.1995, ÖE 1401.	<i>S. nigra</i> L.	<i>S. caucasica</i> M.Bieb.
<i>Foeniculum vulgare</i> Mill.	Taşlıca village, Arıpinar, roadside, 1900 m, 06.07.1995, ÖE 1501.	Taşlıca village, Arıpinar, stony slope, 2300 m, 17.08.1995, ÖE 1509.
Taşlıca village, Meydanlar, open forest, 1300 m, 10.08.1996, ÖE 1622.	Euro-Sib.	<b>COMPOSITAE (ASTERACEAE)</b>
<i>Ferulago latiloba</i> Schischkin	<i>Viburnum lantana</i> L.	<i>Xanthium strumarium</i> L. subsp. <i>strumarium</i>
Hatipoğlu, open slope, 800 m, 06.06.1997, ÖE 1931.	Mount Keçi, mixed forest, 1950 m, 09.06.1995, ÖE 1502.	Taşlıca village, Gökçeyurt, open place, 1100 m, 10.06.1996, ÖE 1627.
<i>Heracleum apiifolium</i> Boiss.	Euro-Sib.	<i>Telekia speciosa</i> (Schreb.) Baumg.
Taşlıca village, Arganet, streamside, 1800 m, 08.09.1996, ÖE 1623.	<i>V. orientale</i> Pall.	Taşlıca village, Bakacak, <i>Picea</i> Dietr. forest, moist soil, 1170 m, 15.07.1995, ÖE 1551.
<i>Torilis japonica</i> (Houtt.) DC.	Saçinge hill, open forest, 1750 m, 12.07.1995, ÖE 1504.	Euro-Sib.
Taşlıca village, Meydanlar, open forest, shady area, 1240 m, 19.07.1995, ÖE 1403.	Eux.	
<i>Caucalis platycarpos</i> L.	<i>V. opulus</i> L.	
Taşlıca village, Meydanlar, meadow, 1200 m, 10.08.1996, ÖE 1624.	Taşlıca village, Meydanlar, roadside, 1400 m, 09.06.1995, ÖE 1503.	
	Euro-Sib.	

- Pallenis spinosa* (L.) Cass.  
Fıstıklı village, fieldside, 250 m, 08.04.1995, ÖE 1539.
- Cosm.
- Inula helenium* L. subsp. *orgyalis* (Boiss.) Grierson  
Mount Kurt, streamside, open area, 2650 m, 07.09.1995, ÖE 1534.
- Endemic, LR(nt), Eux.
- Helichrysum artvinense* P.H.Davis & Kupicha  
Taşlıca village, Şarkırat plateau, open area, dry soil, 2650 m, 27.07.1995, ÖE 1531.
- Endemic, EN.
- H. orientale* (L.) DC.  
Taşlıca village, Arıpinar, open area, 2350 m, 27.07.1995, ÖE 1532.
- Solidago virgaurea* L. subsp. *virgaurea*  
Taşlıca village, Köklü, streamside, 1500 m, 23.09.1995, ÖE 1547.
- Aster alpinus* L.  
Tuzlu hill, alpine pasture, 2800 m, 10.06.1997, ÖE 1933.
- A. caucasicus* Willd.  
Taşlıca village, Arıpinar, open area, 1900 m, 24.08.1995, ÖE 1514.
- Eux.
- Bellis perennis* L.  
Taşlıca village, Bakacak, open area, 750 m, 12.03.1996, ÖE 1515.
- Euro-Sib.
- Doronicum orientale* Hoffm.  
Fıstıklı village, 370 m, 12.03.1996, ÖE 1530.
- Senecio pandurifolius* C.Koch  
Fıstıklı village, stony slope, 350 m, 14.04.1996, ÖE 1544.
- Eux.
- S. taraxacifolius* (M.Bieb.) DC. var. *taraxacifolius*  
Tuzlu hill, rocky area, 2980 m, 09.09.1995, ÖE 1545.
- S. vernalis* Waldst. & Kit.  
Taşlıca village, Gölgeli, moist soil, shady area, 800 m, 04.06.1995, ÖE 1546.
- S. viscosus* L.  
Taşlıca village, Direkli, rocky slope, 1600 m, 20.07.1997, ÖE 1934.
- Tussilago farfara* L.  
Taşlıca village, Gölgeli, roadside, moist soil, 1300 m, 02.03.1996, ÖE 1556.
- Euro-Sib.
- Petasites hybridus* (L.) Gaertn.  
Taşlıca village, Gökcayurt, streamside, 1300 m, 12.06.1996, ÖE 1628.
- Eur-Sib.
- P. albus* (L.) Gaertn.  
Taşlıca village, Gölgeli, streamside, open forest, 1250 m, 04.04.1995, ÖE 1540.
- Euro-Sib.
- Eupatorium cannabinum* L.  
Taşlıca village, Gökcayurt, open area, wet soil, 1000 m, 06.08.1995, ÖE 1529.
- Euro-Sib.
- Anthemis calcarea* Sosn. var. *calcarea*  
Mount Kurt, slope, 2400 m, 10.06.1997, ÖE 1935.
- Endemic, CR.
- A. marschalliana* Willd. subsp. *pectinata* (Boiss.) Grierson  
Taşlıca village, Şarkırat plateau, alpine vegetation, 2800 m, 22.06.1996, ÖE 1629.
- Eux.
- A. cotula* L.  
Tuzlu hill, alpine pasture, 2750 m, 20.07.1997, ÖE 1936.
- A. tinctoria* L. var. *tinctoria*  
Taşlıca village, Bakacak, roadside, 1100 m, 05.07.1995, ÖE 1511.
- A. tinctoria* L. var. *pallida* DC.  
Saçinge hill, roadside, 1700 m, 05.07.1995, ÖE 1512.
- Achillea biserrata* M.Bieb.  
Taşlıca village, Arıpinar, wet place, 1800 m, 11.07.1995, ÖE 1510.
- Eux.
- Leucanthemum vulgare* Lam.  
Hatipoğlu, roadside, 760 m, 19.07.1995, ÖE 1537.
- Euro-Sib.
- Tanacetum macrophyllum* (Waldst. & Kit.) Schultz  
Taşlıca village, Demirci, roadside, 1450 m, 11.08.1995, ÖE 1548.
- Euro-Sib.
- T. parthenium* (L.) Sch.Bip.  
Taşlıca village, Konacık, roadside, waste place, 1560 m, 11.08.1995, ÖE 1549.
- Tripleurospermum oreades* (Boiss.) Rech. var. *oreades*  
Taşlıca village, Köklü, open forest, 1200 m, 12.03.1996, ÖE 1554.
- T. fissurale* (Sosn.) E.Hossain  
Fıstıklı village, roadside, rocky slope, 380 m, 14.04.1996, ÖE 1555.
- Endemic, LR(cd).
- Artemisia vulgaris* L.  
Fıstıklı village, rocky slope, 650 m, 10.06.1996, ÖE 1630.
- Cousinia woronowii* Bornm.  
Alacadağ, rocky slope, 1900 m, 20.07.1997, ÖE 1937.
- Endemic, LR (nt), Ir-Tur.
- Arctium minus* (hill) Bernh. subsp. *pubens* (Bab.) Arènes  
Taşlıca village, Mount Keçi, open area, 1950 m, 12.07.1995, ÖE 1513.
- Euro-Sib.
- Onopordum acanthium* L.  
Taşlıca village, Arıpinar, slope, 1700 m, 10.06.1997, ÖE 1938.
- Circium caucasicum* (Adams) Petr.  
Mount Otluca, alpine vegetation, 2400 m, 04.08.1996, ÖE 1631.
- Eux (mt).
- C. pseudopersonata* Boiss. & Bal. subsp. *pseudopersonata*  
Mount Keçi, open stony slope, 1800 m, 20.06.1997, ÖE 1939.
- Endemic, LR (lc), Eux.
- C. obvalatum* (M.Bieb.) Fisch.  
Perikaya hill, roadside, 2250 m, 13.08.1995, ÖE 1524.
- VU, Hyr-Eux.
- C. arvense* (L.) Scop. subsp. *arvense*  
Taşlıca village, Kanacık, roadside, streamside, 1230 m, 14.10.1995, ÖE 1525.
- Carduus hamulosus* Ehrh. subsp. *hamulosus*  
Taşlıca village, Demirci, roadside, 1450 m, 02.06.1995, ÖE 1516.

<i>Centaurea salicifolia</i> M.Bieb. ex Willd. subsp. <i>abbreviata</i> C.Koch	<i>S. seidlitzii</i> Boiss.	<i>H. artvinense</i> (Woronow & Zahn) Juxip
Taşlıca village, Davütet, rocky and stony slope, 1370 m, 07.08.1995, ÖE 1519.	Saçinge hill, rocky slope, 1750 m, 09.08.1995, ÖE 1632.	Artvin, in pineto supra Ghurdzan, Woronow.
Eux.	<i>S. tomentosa</i> L.	Endemic, DD, Eux.
<i>C. simplicicaulis</i> Boiss. & Huet	Mount Otluca, rocky slope, 2050 m, 18.07.1997, ÖE 1942.	<i>H. subartvinense</i> Juxip
Taşlıca village, Kılıçlı, open forest, 1860 m, 13.08.1995, ÖE 1520.	Endemic, LR (lc), Ir-Tur.	Artvin, prope stationem Gurdshani, 26.07.1911, Woronow.
Eux.	<i>Tragopogon reticulatus</i> Boiss. & Huet	Endemic, DD, Eux.
<i>C. pecho</i> Albov	Fistıklı village, open area, stony slope, 560 m, 15.06.1995, ÖE 1552.	<i>Pilosella x ruprechtii</i> (Boiss.) Sell & West
Fistıklı village, roadside, 650 m, 21.07.1995, ÖE 1518.	<i>T. aureus</i> Boiss.	Taşlıca village, Gölgeli, rocky slope, 1600 m, 12.08.1996, ÖE 1635.
Endemic, VU, Eux.	Taşlıca village, Arıpinar, open area, subalpine slope, 2100 m, 17.06.1995, ÖE 1553	<i>P. piloselloides</i> (Vill.) Soják subsp. <i>megalomastix</i> (NP.) Sell & West
<i>C. hedgei</i> Wagenitz	Endemic, LR(lc).	Taşlıca village, Demirci, open area, slope, 1560 m, 13.07.1995, ÖE 1541.
Tuzlu hill, alpine slope, 2850 m, 06.06.1997, ÖE 1940.	<i>Leontodon asperimus</i> (Willd.) Ball.	<i>Prenanthes abietina</i> (Boiss. & Ball.) Kirp.
Endemic, VU.	Fistıklı village, grassy slope, 560 m, 17.07.1995, ÖE 1536.	Taşlıca village, Direkli, mixed forest, 1850 m, 17.09.1995, ÖE 1542.
<i>C. nigrifimbria</i> (C.Koch) Sosn.	<i>L. crispus</i> Vill. subsp. <i>asper</i> (Waldst. & Kit.) Röhl. var. <i>asper</i>	Eux.
Mount Otluca, subalpine slope, 2060 m, 21.08.1995, ÖE 1517.	Taşlıca village, Gökcayurt, rocky slope, 1200 m, 10.08.1996, ÖE 1633.	<i>P. cacaliifolia</i> (M.Bieb.) Beauverd
Eux (mt).	<i>Sonchus asper</i> (L.) hill subsp. <i>glaucescens</i> (Jord.) Ball.	Cerat hill, mixed forest, 1780 m, 10.10.1997, ÖE 1946.
<i>C. woronowi</i> Bornm.	Cerat hill, open woods, 1600 m, 17.04.1996, ÖE 1634.	Eux.
Taşlıca village, Meydanlar, stony slope, 1100 m, 14.04.1996, ÖE 1521.	<i>Hieracium variegatisquamum</i> (Zahn) Juxip	<i>Mycelis muralis</i> (L.) Dum.
Endemic, LR(cd).	Taşlıca village, Demirci, mixed forest, 1600 m, 28.06.1997, ÖE 1943.	Taşlıca village, Bakacak, open forest, 1230 m, 13.07.1995, ÖE 1538.
<i>Xeranthemum annuum</i> L.	Endemic, DD, Eux.	Euro-Sib.
Fistıklı village, open area, dry soil, 300 m, 17.07.1995, ÖE 1557.	<i>H. subhastulatum</i> (Zahn) Juxip	<i>Lapsana communis</i> L. subsp. <i>intermedia</i> (M.Bieb.) Hayek
Ir-Tur.	Tuzlu hill, alpine pasture, 2800 m, 20.07.1997, ÖE 1944.	Taşlıca village, Meydanlar, mixed forest, 1370 m, 17.07.1995, ÖE 1535.
<i>X. cylindraceum</i> Sm.	Endemic, DD, Eux.	<i>Taraxacum buttleri</i> Soest
Alacadağ, stony slope, dry soil, 1600 m, 10.06.1997, ÖE 1941.	<i>H. diaphanoidiceps</i> (Woronow & Zahn) Juxip	Taşlıca village, Meydanlar, rocky and stony slope, 1100 m, 12.06.1995, ÖE 1550.
<i>Echinops galaticus</i> Freyn	Artvin:inter Selalet et Chinzart ad margines sylvae, Woronow.	<i>Crepis paludosa</i> (L.) Moench
Taşlıca village, Demirci, roadside, 1450 m, 09.08.1995, ÖE 1528.	Endemic, EN, Eux.	Taşlıca village, Kılıçlı, open forest, 1700 m, 05.07.1995, ÖE 1526.
Eux.	<i>H. bornmuelleri</i> Freyn	Euro-Sib.
<i>E. pungens</i> Trautv. var. <i>pungens</i>	Mount Otluca, rocky place, 2000 m, 10.08.1997, ÖE 1945.	<b>CAMPANULACEAE</b>
Hatipoğlu, open forest, 750 m, 09.08.1995, ÖE 1527.	Endemic, LR (lc).	<i>Campanula latifolia</i> L.
Ir-Tur.	<i>H. subrosulatum</i> Freyn & Sint.	Perikaya hill, slope, 1800 m, 10.06.1997, ÖE 1947.
<i>Cichorium intybus</i> L.	Taşlıca village, Meydanlar, roadside, 1230 m, 08.08.1995, ÖE 1533.	Euro-Sib.
Hatipoğlu, cultivated fields, moist soil, 250 m, 16.04.1996, ÖE 1523.	Endemic, DD.	<i>C. rapunculoides</i> L. subsp. <i>rapunculoides</i>
Cosm.		Taşlıca village, Gökcayurt, open area, wet soil, 850 m, 14.06.1995, ÖE 1488.
<i>Scorzonera inaequiscapa</i> Boiss.		Euro-Sib.
Fistıklı village, dry soil, open area, 340 m, 07.06.1995, ÖE 1543.		
Endemic, LR(nt).		

- C. rapunculoides* L. subsp. *cordifolia* (C.Koch) Damboldt  
Taşlıca village, Bakacak, *Picea* Dietr. forest, stony slope, 920 m, 14.06.1996, ÖE 1489.
- C. alliariifolia* Willd.  
Taşlıca village, Direkli, roadside, 1830 m, 11.07.1995, ÖE 1484.  
Eux.
- C. collina* Sims  
Mount Keçi, open slope, 1650 m, 10.06.1997, ÖE 1948.  
Eux.
- C. aucheri* A.DC.  
Mount Kurt, alpine vegetation, 2700 m, 12.06.1996, ÖE 1636.  
Eux (mt).
- C. lactiflora* M.Bieb.  
Taşlıca village, Şarkırat plateau, mixed forest, 2400 m, 10.08.1995, ÖE 1485.  
Eux.
- C. stevenii* M.Bieb. subsp. *stevenii*  
Taşlıca village, Şarkırat plateau, open area, stony slope, 2200 m, 14.06.1996, ÖE 1490.  
Hyr-Eux.
- C. pontica* Albov  
Taşlıca village, Arıpinar, subalpine slope, 1970 m, 14.04.1996, ÖE 1487.  
Eux.
- C. olympica* Boiss.  
Perikaya hill, subalpine slope, 1950 m, 19.07.1995, ÖE 1486.  
Eux.
- ERICACEAE**
- Rhododendron luteum* Sweet  
Taşlıca village, Meydanlar, mixed forest, 1200 m, 16.05.1996, ÖE 1237.  
Eux.
- R. ungernii* Trautv.  
Taşlıca village, Şarkırat plateau, subalpine slope, 2550 m, 21.06.1995, ÖE 1240.  
VU, Eux.
- R. smirnovii* Trautv.  
Taşlıca village, Şarkırat plateau, subalpine slope, 2400 m, 16.05.1996, ÖE 1239.  
Endemic, EN, Eux.
- R. caucasicum* Pall.  
Taşlıca village, Şarkırat plateau, subalpine slope, 2200 m, 16.05.1996, ÖE 1236.  
Eux.
- R. ponticum* L. subsp. *ponticum* var. *ponticum*  
Taşlıca village, Meydanlar, mixed forest, 1700 m, ÖE 1238.  
Eux.
- R. x sochadzeae* Kharadze & Davlian.  
Taşlıca village, Meydanlar, open forest, 1400 m, 12.03.1996, ÖE 1241.
- Epigaea gaultherioides* (Boiss. & Ball.) Takht.  
Taşlıca village, Şarkırat plateau, subalpine slope, moist soil, 2230 m, 17.05.1996, ÖE 1234.  
VU, Eux.
- Arbutus andrachne* L.  
Çoruh riverside, slope, 500 m, 14.05.1996, ÖE 1233.  
Medit.
- Vaccinium myrtillus* L.  
Taşlıca village, Şakırat plateau, subalpine slope, 2170 m, 16.08.1996, ÖE 1243.  
Euro-Sib.
- V. arctostaphylos* L.  
Taşlıca village, Meydanlar, mixed forest, 1350 m, 19.07.1995, ÖE 1242.  
Eux.
- Pyrola media* Sw.  
Cerat hill, *Picea* Dietr. forest, 1570 m, 13.07.1995, ÖE 1235.  
Euro-Sib.
- Orthilia secunda* (L.) House  
Taşlıca village, Meydanlar, rocky area, acid soil, 1450 m, 17.07.1995, ÖE 1244.
- Monotropa hypopithys* L.  
Cerat hill, mixed forest, 1370 m, 13.07.1995, ÖE 1245.
- PRIMULACEAE**
- Primula vulgaris* Huds. subsp. *vulgaris*  
Taşlıca village, Meydanlar, wet soil, *Picea* Dietr. forest, 1400 m, 13.07.1995, ÖE 1254.  
Euro-Sib.
- P. vulgaris** Huds. subsp. *sibthorpii* (Hoffmanns.) W.W.Sm. & Forrest  
Taşlıca village, Meydanlar, roadside, 1300 m, 13.03.1996, ÖE 1255.  
Eux.
- P. elatior* (L.) hill subsp. *pallasii* (Lehm.) W.W.Sm. & Forrest  
Taşlıca village, Şarkırat plateau, subalpine slope, 2370 m, 12.04.1996, ÖE 1252.  
Euro-Sib.
- P. elatior* (L.) hill subsp. *pseudoelatior* (Kusn.) W.W.Sm. & Forrest  
Mount Kurt, subalpine slope, 2400 m, 14.05.1996, ÖE 1253.  
VU, Eux (mt).
- P. auriculata* Lam.  
Tuzlu hill, streamside, alpine slope, 2700 m, 14.05.1996, ÖE 1251.  
Ir-Tur.
- P. algida* Adams  
Tuzlu hill, alpine vegetation, wet pasture, 2700 m, 10.07.1996, ÖE 1637.
- Cyclamen coum* Mill. var. *coum*  
Fistikli village, *Pinus pinea* L. forest, 480 m, 13.03.1996, ÖE 1248.
- C. coum* Miller var. *caucasicum* (C.Koch) Medik.  
Fistikli village, rocky and stony slope, 370 m, 13.03.1996, ÖE 1249.
- Lysimachia verticillaris* Spreng.  
Taşlıca village, Arıpinar, moist soil, 1750 m, 19.07.1995, ÖE 1250.  
Hyr-Eux.
- Anagallis arvensis* L. var. *arvensis*  
Çoruh riverside, 350 m, 12.07.1995, ÖE 1247.
- EBENACEAE**
- Diospyros lotus* L.  
Hatipoğlu, roadside, mixed forest, wet soil, 580 m, 17.08.1995, ÖE 1246.
- OLEACEAE**
- Jasminium fruticans* L.  
Fistikli village, open area, 350 m, 16.05.1996, ÖE 1462.  
Medit.
- Fraxinus angustifolia* Vahl subsp. *oxycarpa* (M.Bieb.ex Willd.) Franco & Rocha Afonso  
Taşlıca village, Gökçeyurt, roadside, 900 m, 19.09.1995, ÖE 1461.  
Euro-Sib.

<i>Olea europaea</i> L. var. <i>sylvestris</i> (Mill.) Lehr	<i>G. caucasea</i> (G.Lodd. ex Sims) Holub Tuzlu hill, subalpine pasture, 2300 m, 10.06.1997, ÖE 1951. Eux (mt).	<i>C. montanum</i> L. Perikaya hill, alpine slope, 2200 m, 18.06.1997, ÖE 1952. Euro-Sib.
Fıstıklı village, open area, 350 m, 06.06.1996, ÖE 1638. Medit.	<i>Swertia iberica</i> Fisch. ex C.A.Mey. Tuzlu hill, alpine vegetation, wet place, 2750 m, 10.07.1996, ÖE 1639.	<i>Lithospermum officinale</i> L. Taşlıca village, Şaşkırat plateau, slope, 2200 m, 10.07.1997, ÖE 1954.
Osmanthus <i>decorus</i> (Boiss. & Ball.) Kasapgil	<b>CONVOLVULACEAE</b> <i>Convolvulus cantabrica</i> L. Fıstıklı village, <i>Pinus pinea</i> L. stand, 350 m, 12.04.1995, ÖE 1414.	Euro-Sib. <i>L. purpurocaeruleum</i> L. Taşlıca village, Gökçeyurt, roadside, 1100 m, 12.03.1996, ÖE 1421.
Taşlıca village, Davütet, streamside, mixed forest, 1230 m, 16.03.1996, ÖE 1463. VU, Eux.	<i>C. arvensis</i> L. Fıstıklı village, roadside, dry soil, 500 m, 06.06.1996, ÖE 1640. Cosm.	Euro-Sib. <i>Buglossoides arvensis</i> (L.) Johnston Mount Kurt, slope, 2700 m, 18.07.1997, ÖE 1953.
<b>APOCYNACEAE</b> <i>Trachomitum venetum</i> (L.) Woodson subsp. <i>sarmatiense</i> (Woodson) Avet. Çoruh riverside, 260 m, 17.08.1996, ÖE 1408. E. Medit.	<i>Calystegia silvatica</i> (Kit.) Griseb. Taşlıca village, Davütet, roadside, 1450 m, 14.07.1995, ÖE 1413.	<i>Echium vulgare</i> L. Fıstıklı village, roadside, 750 m, 13.06.1995, ÖE 1419.
Vinca <i>herbacea</i> Waldst. & Kit. Fıstıklı village, sunny stony slope, 470 m, 12.03.1996, ÖE 1409.	<b>CUSCUTACEAE</b> <i>Cuscuta epithymum</i> (L.) L. var. <i>epithymum</i> Taşlıca village, Gölgeli, roadside, on the <i>Sambucus ebulus</i> L., 1450 m, 14.07.1995, ÖE 1415.	Euro-Sib. <i>Onosma sericeum</i> Willd. Cerat hill, open forest, 1700 m, 18.07.1997, ÖE 1955.
<b>GENTIANACEAE</b> <i>Centaurium erythraea</i> Rafn subsp. <i>erythraea</i> Taşlıca village, Meydanlar, stony slope, dry soil, 900 m, 27.07.1995, ÖE 1404. Euro-Sib.	<b>BORAGINACEAE</b> <i>Heliotropium ellipticum</i> Ledeb. Taşlıca village, Bakacak, roadside, dry soil, 950 m, 13.06.1995, ÖE 1420. Ir-Tur.	Ir-Tur. <i>O. circinatum</i> Riedl Fıstıklı village, roadside, 900 m, 17.06.1995, ÖE 1426. Endemic, EN, Eux.
Gentiana <i>asclepiadea</i> L. Taşlıca village, Demirci, roadside, mixed forest, 1500 m, 14.09.1995, ÖE 1405. Euro-Sib.	<i>Myosotis lazica</i> Popov Taşlıca village, Köklü, roadside, moist soil, 1100 m, 17.07.1995, ÖE 1423. VU, Eux.	<i>O. microcarpum</i> Steven ex DC. Fıstıklı village, open forest, 470 m, 13.04.1996, ÖE 1427. Ir-Tur.
<i>G. pyrenaica</i> L. Saçinge hill, open forest, 1650 m, 18.07.1997, ÖE 1949. Euro-Sib.	<i>M. sylvatica</i> Ehrh. ex Hoffm. subsp. <i>cyannea</i> Vestergr. Perikaya hill, open area, dry soil, 2200 m, 17.07.1995, ÖE 1424.	<i>Cerinthe minor</i> L. subsp. <i>minor</i> Taşlıca village, Konacık, <i>Picea</i> Dietr. forest, 1450 m, 15.07.1995, ÖE 1418. Euro-Sib.
<i>G. septenfida</i> Pall. Taşlıca village, Arıpinar, open area in the <i>Abies</i> Mill. forest, 2150 m, 11.08.1995, ÖE 1406. Hyr-Eux (mt).	<i>M. laxa</i> Lehm. subsp. <i>caespitosa</i> (Schultz) Hyl. ex Nordh. Taşlıca village, Arıpinar, roadside, wet soil, 1800 m, 13.06.1995, ÖE 1422. <i>Omphalodes cappadocica</i> (Willd.) DC.	<i>C. glabra</i> Mill. Taşlıca village, Kılıçlı, open area, 1900 m, 17.07.1995, ÖE 1417. Euro-Sib.
<i>G. verna</i> L. subsp. <i>pontica</i> (Soltok) Hayek Tuzlu hill, alpine slope, 3000 m, 20.06.1997, ÖE 1950. Hyr-Eux (mt).	Fıstıklı village, roadside, 750 m, 12.03.1996, ÖE 1425. Eux.	<i>Symphtym asperum</i> Lepech. Taşlıca village, Arıpinar, slope, 1550 m, 10.07.1997, ÖE 1956. Hyr-Eux.
Gentianella <i>ciliata</i> (L.) Borkh. subsp. <i>blepharophora</i> (Bordz.) Pritch. Saçinge hill, open area, 1450 m, 12.09.1995, ÖE 1407. Hyr-Eux (mt).	<i>Cynoglossum creticum</i> Mill. Taşlıca village, Arıpinar, subalpine vegetation, 2300 m, 26.07.1996, ÖE 1641.	<i>S. armeniacum</i> Buckn. Saçinge hill, stony slope, 1800 m, 15.07.1997, ÖE 1956. Endemic, DD, Eux.

<i>S. tauricum</i> Willd.	<i>V. thapsus</i> L.	<i>V. anagallis-aquatica</i> L.
Taşlıca village, Kanacık, mixed forest, 1450 m, 12.05.1995, ÖE 1428.	Taşlıca village, Arıpinar, stony slope, dry soil, 12.07.1999, ÖE 1645.	Taşlıca village, Arıpinar, streamside, 1500 m, 18.07.1997, ÖE 1963.
Euro-Sib.	<i>V. saccatum</i> C.Koch	Cosm.
<i>Trachystemon orientalis</i> (L.) G.Don	Taşlıca village, Demirci, roadside, 1300 m, 01.07.1995, ÖE 1476.	<i>V. jacquinii</i> Baumg.
Hatipoğlu, open slope, 750 m, 07.03.1996, ÖE 1429.	Ir-Tur.	Fistikli village, open forest, 350 m, 06.04.1996, ÖE 1478.
Eux.	<i>V. artvinense</i> Wulf	Euro-Sib.
<i>Brunnera macrophylla</i> (Adams) Johnst.	Artvin, Lomaşen, Machluse, 09.06.1909, Nesterow (holo. LE)	<i>V. liwanensis</i> C.Koch
Taşlıca village, Meydanlar, open area in the <i>Picea</i> Dietr. forest, 1350 m, 12.03.1996, ÖE 1416.	Endemic, DD, Eux.	Çoruh riverside, on the rocks, 250 m, 03.03.1995, ÖE 1479.
VU, Eux.	<i>Scrophularia chrysanthia</i> Jaub. & Spach	VU, Eux.
<i>Anchusa azurea</i> Mill. var. <i>azurea</i>	Taşlıca village, Davütet, on rocks, 1600 m, 06.04.1996, ÖE 1473.	<i>V. orientalis</i> Mill. subsp. <i>orientalis</i>
Taşlıca village, Arıpinar, waste place, 2200 m, 28.06.1996, ÖE 1642.	Eux.	Taşlıca village, Arıpinar, roadside, 1660 m, 06.06.1995, ÖE 1481.
<i>Nonea versicolor</i> (Steven) Sweet	<i>S. kotschyana</i> Benth.	<i>V. peduncularis</i> M.Bieb.
Saçinge hill, stony slope, 1750 m, 06.06.1996, ÖE 1643.	Taşlıca village, Gölgeli, open area, 800 m, 06.04.1996, ÖE 1474.	Taşlıca village, Şarkırat plateau, alpine slope, 2450 m, 01.04.1996, ÖE 1482.
<i>N. intermedia</i> Ledb.	<i>S. umbrosa</i> Dum.	Eux.
Mount Keçi, alpine slope, 1950 m, 10.06.1997, ÖE 1957.	Taşlıca village, Meydanlar, streamside, 1400 m, 20.07.1997, ÖE 1959.	<i>V. officinalis</i> L.
<i>Alkanna cordifolia</i> C.Koch	<i>Linaria genistifolia</i> (L.) Mill. subsp. <i>artvinensis</i> P.H.Davis	Taşlıca village, Demirci, open forest, 1350 m, 06.06.1995, ÖE 1480.
Çoruh: Artvin, 500 m, Stainton 8184.	Çoruh: Artvin, 400 m, Stainton 8290.	<i>Melampyrum arvense</i> L. var. <i>arvense</i>
Endemic, LR (lc), Ir-Tur.	Endemic, VU, Eux.	Taşlıca village, Direkli, open forest, 1400 m, 16.05.1996, ÖE 1467.
<b>SOLANACEAE</b>	<i>L. vulgaris</i> Mill.	Euro-Sib.
<i>Solanum dulcamara</i> L.	Taşlıca village, Meydanlar, meadow, 1300 m, 20.08.1997, ÖE 1960.	<i>M. arvense</i> L. var. <i>elatius</i> Boiss.
Taşlıca village, Arıpinar, streamside, 1550 m, 20.07.1997, ÖE 1958.	<i>Digitalis ferruginea</i> L. subsp. <i>ferruginea</i>	Taşlıca village, Arıpinar, open area, 1750 m, 08.07.1995, ÖE 1468.
<i>Physalis alkekengi</i> L.	Taşlıca village, Meydanlar, open forest, 1150 m, 21.06.1995, ÖE 1464.	Endemic, LR(nt).
Taşlıca village, Bakacak, roadside, wet soil, 1450 m, 16.10.1995, ÖE 1412.	Euro-Sib.	<i>Euphrasia hirtella</i> Jordan ex Reuter
<i>Atropa belladonna</i> L.	<i>Veronica gentianoides</i> Vahl.	Alacadağ, slope, 1900 m, 12.07.1997, ÖE 1964.
Taşlıca village, Kılıçlı, roadside, 1700 m, 13.07.1995, ÖE 1410.	Tuzlu hill, alpine pasture, 2850 m, 10.06.1997, ÖE 1961.	Euro-Sib.
Euro-Sib.	Hyr-Eux (mt).	<i>E. pectinata</i> Ten.
<i>Datura stramonium</i> L.	<i>V. verna</i> L.	Taşlıca village, Şarkırat plateau, subalpine slope, 2100 m, 13.05.1996, ÖE 1465.
Fistikli village, open area, 600 m, 06.06.1996, ÖE 1644.	Tuzlu hill, alpine pasture, 2900 m, 10.06.1997, ÖE 1962.	Euro-Sib.
Cosm.	Euro-Sib.	<i>Pedicularis caucasica</i> M.Bieb.
<i>Hyoscyamus niger</i> L.	<i>V. persica</i> Poir.	Mount Kurt, alpine slope, 2700 m, 10.06.1997, ÖE 1965.
Hatipoğlu, roadside, open area, 850 m, 13.04.1996, ÖE 1411.	Fistikli village, open area, 450 m, 12.03.1996, ÖE 1483.	Hyr-Eux (mt).
<b>SCROPHULARIACEAE</b>	<i>V. ceratocarpa</i> C.A.Mey.	<i>P. atropurpurea</i> Nordm.
<i>Verbascum gracilescens</i> Hub.-Mor.	Taşlıca village, Meydanlar, meadow, 1300 m, 08.06.1995, ÖE 1477.	Taşlıca village, Şarkırat plateau, subalpine slope, 2300 m, 16.08.1995, ÖE 1469.
Taşlıca village, Meydanlar, roadside, 1050 m, 17.07.1995, ÖE 1475.	VU, Hyr-Eux.	VU, Eux (mt).
Endemic, EN, Ir-Tur.		

<i>P. condensata</i> M.Bieb.	<i>Teucrium chamaedrys</i> L. subsp. <i>trapenzuntinus</i> Rech.	<i>Galeobdolon luteum</i> Hudson subsp. <i>montanum</i> (Pers.) R.Mill
Taşlıca village, Demirci, slope, 1700 m, 08.07.1995, ÖE 1470.	Taşlıca village, Demirci, rocky slope, 1350 m, 04.06.1995, ÖE 1455.	Taşlıca village, Köklü, meadow, 1500 m, 28.06.1997, ÖE 1972.
Eux.	Eux.	<i>Galeopsis bifida</i> Boem.
<i>P. nordmanniana</i> Bunge	<i>T. orientale</i> L.	Taşlıca village, Kanacık, slope, 1500 m, 20.06.1997, ÖE 1973.
Perikaya hill, subpine slope, 1900 m, 20.07.1997, ÖE 1966.	Taşlıca village, Gökçeyurt, roadside, 1050 m, 07.09.1995, ÖE 1456.	<i>Leonurus quinquelobatus</i> Gilib.
Eux (mt).	Ir-Tur.	Taşlıca village, Arıpinar, meadow, 1600 m, 10.06.1997, ÖE 1973.
<i>Rhinanthus angustifolius</i> C.C.Gmel. subsp. <i>grandiflorus</i> (Wallr.) D.A.Webb	<i>T. polium</i> L.	Euro-Sib.
Taşlıca village, Meydanlar, meadow, wet soil, 1250 m, 05.06.1995, ÖE 1471.	Taşlıca village, Gölgeli, stony slope, rocky area, 850 m, 20.09.1995, ÖE 1457.	<i>Ballota nigra</i> L. subsp. <i>nigra</i>
<i>Rhynchocorys orientalis</i> (L.) Benth.	<i>Scutellaria albida</i> L. subsp. <i>colchica</i> (Rech.) Edm.	Taşlıca village, Köklü, open forest, 28.06.1997, ÖE 1974.
Taşlıca village, Şarkırat plateau, meadow, 2000 m, 08.07.1997, ÖE 1967.	Fıstıklı village, stony slope, 600 m, 18.06.1997, ÖE 1971.	<i>Sideritis armeniaca</i> Bornm.
Eux.	Eux.	Taşlıca village, Demirci, stony slope, 1350 m, 03.09.1995, ÖE 1450.
<i>R. stricta</i> (C.Koch) Albov	<i>S. orientalis</i> L. subsp. <i>orientalis</i>	Endemic, LR(cd), Ir-Tur.
Taşlıca village, Gökçeyurt, open area, meadow, 950 m, 05.06.1995, ÖE 1472.	Tuzlu hill, alpine slope, 2780 m, 12.08.1995, ÖE 1449.	<i>S. montana</i> L. subsp. <i>montana</i>
Eux.	Ir-Tur.	Fıstıklı village, open area, 330 m, 12.05.1995, ÖE 1451.
<i>Lathraea squamaria</i> L.	<i>Lamium purpureum</i> L. var. <i>purpureum</i>	Medit.
Taşlıca village, Köklü, stony slope, 1230 m, 14.04.1996, ÖE 1466.	Taşlıca village, Direkli, mixed forest, moist soil, 1480 m, 14.06.1995, ÖE 1437.	<i>Stachys sylvatica</i> L.
<b>OROBANCHACEAE</b>	Euro-Sib.	Taşlıca village, Meydanlar, mixed forest, 1350 m, 07.09.1995, ÖE 1454.
<i>Orobanche bungeana</i> Beck	<i>L. album</i> L.	Euro-Sib.
Taşlıca village, Arıpinar, roadside, 1550 m, 10.06.1997, ÖE 1968.	Taşlıca village, Arıpinar, rocky slope, 1670 m, 12.04.1996, ÖE 1434.	<i>S. iberica</i> M.Bieb. subsp. <i>iberica</i> var. <i>iberica</i>
Hyr-Eux.	Euro-Sib.	Hatipoğlu, open forest, 550 m, 12.05.1995, ÖE 1452.
<b>VERBENACEAE</b>	<i>L. crinitum</i> Montbret & Aucher ex Benth.	Ir-Tur.
<i>Verbena officinalis</i> L.	Mount Otluca, <i>Picea</i> Dietr. forest, 1850 m, 12.09.1995, ÖE 1435.	<i>S. macrantha</i> (C.Koch) Stearn
Taşlıca village, Arıpinar, roadside, 1800 m, 19.08.1995, ÖE 1430.	Eux.	Mount Kurt, mixed forest, 2350 m, 07.09.1995, ÖE 1453.
Cosm.	<i>L. tomentosum</i> Willd. var. <i>tomentosum</i>	Eux.
<b>LABIATAE (LAMIACEAE)</b>	Fıstıklı village, stony slope, 450 m, 24.08.1995, ÖE 1439.	<i>Prunella vulgaris</i> L.
<i>Ajuga orientalis</i> L.	Ir-Tur.	Taşlıca village, Arıpinar, fieldside, 1920 m, 12.08.1995, ÖE 1445.
Tuzlu hill, alpine slope, 2900 m, 16.06.1996, ÖE 1431.	<i>L. sulfureum</i> Hausskn. & Sint ex R.B.Mill.	Euro-Sib.
<i>A. genevensis</i> L.	Mount Kurt, in crevices on rocks, 2880 m, 16.07.1995, ÖE 1438.	<i>P. laciniata</i> (L.) L.
Mount Kurt, alpine slope, 2700 m, 10.06.1997, ÖE 1969.	Endemic, DD, Ir-Tur.	Taşlıca village, Arganet, <i>Pinus</i> L. forest, 1200 m, 06.06.1997, ÖE 1975.
Euro-Sib.	<i>L. galactophyllum</i> Boiss. & Reut.	<i>Origanum rotundifolium</i> Boiss.
<i>A. reptans</i> L.	Taşlıca village, Arıpinar, roadside, 1670 m, 18.07.1996, ÖE 1436.	Taşlıca village, Meydanlar, roadside, 1350 m, 14.06.1995, ÖE 1442.
Taşlıca village, Meydanlar, meadow, 1350 m, 20.06.1997, ÖE 1970.	Endemic, LR(lc), Ir-Tur.	Eux.
Euro-Sib.		

<i>O. vulgare</i> L. subsp. <i>vulgare</i>	<i>S. huberi</i> Hedge	<i>E. amygdaloides</i> L. var <i>amygdaloides</i>
Taşlıca village, Demirci, slope, dry soil, 1280 m, 14.06.1995, ÖE 1444.	Alacadağ, stony slope, 1700 m, 20.06.1997, ÖE 1977.	Perikaya hill, mixed forest, dry soil, 1950 m, 12.07.1995, ÖE 1361.
Euro-Sib.	Endemic, LR (cd), Ir-Tur.	Euro-Sib.
<i>O. vulgare</i> L. subsp. <i>viride</i> (Boiss.) Hayek	<i>S. pachystachys</i> Trautv.	<b>BUXACEAE</b>
Taşlıca village, Meydanlar, roadside, 1270 m, 14.06.1995, ÖE 1443.	Taşlıca village, Şarkırat plateau, subalpine vegetation, 2000 m, 06.07.1997, ÖE 1978.	<i>Buxus sempervirens</i> L.
<i>Satureja spicigera</i> (C.Koch) Boiss.	Ir-Tur.	Fıstıklı village, mixed forest, stony slope, 350 m, 12.03.1996, ÖE 1360.
Taşlıca village, Gölgeli, moist soil, 1250 m, 03.09.1995, ÖE 1448.	<i>S. sclarea</i> L.	Euro-Sib.
Eux.	Saçinge hill, roadside, 1350 m, 06.06.1997, ÖE 1979.	<b>URTICACEAE</b>
<i>Calamintha grandiflora</i> (L.) Moench	<i>S. verticillata</i> L. subsp. <i>verticillata</i>	<i>Urtica dioica</i> L.
Taşlıca village, Demirci, roadside, moist soil, 1350 m, 15.07.1995, ÖE 1432.	Taşlıca village, Demirci, mixed forest, 1450 m, 14.07.1995, ÖE 1447.	Taşlıca village, Gölgeli, roadside, open forest, 1050 m, 13.07.1995, ÖE 1149.
Euro-Sib.	<b>PLANTAGINACEAE</b>	Euro-Sib.
<i>Clinopodium vulgare</i> L. subsp. <i>vulgare</i>	<i>Plantago major</i> L. subsp. <i>major</i>	<b>MORACEAE</b>
Taşlıca village, Arganet, stony slope, 1760 m, 13.06.1995, ÖE 1433.	Taşlıca village, Arıpinar, open area, waste place, 1800 m, 28.06.1996, ÖE 1646.	<i>Morus alba</i> L.
Euro-Sib.	<i>P. lanceolata</i> L.	Taşlıca village, Köklü, fieldside, 1360 m, 14.07.1995, ÖE 1148.
<i>Micromeria elliptica</i> C.Koch	Taşlıca village, Gökcayurt, roadside, 890 m, 13.05.1995, ÖE 1460.	<i>Ficus carica</i> L. subsp. <i>carica</i>
Çoruh riverside, 350 m, 18.07.1997, ÖE 1976.	<b>THYMELAEACEAE</b>	Fıstıklı village, open area in the <i>Pinus pinea</i> L. stand, 570 m, 13.07.1995, ÖE 1146, Çoruh riverside, 250 m, 16.05.1996, ÖE 1147.
<i>Thymus fallax</i> Fisch. & Mey.	<i>Daphne glomerata</i> Lam.	<b>ULMACEAE</b>
Taşlıca village, Köklü, stony slope, dry soil, 1450 m, 20.09.1995, ÖE 1458.	Tuzlu hill, subalpine slope, 2000 m, 13.07.1995, ÖE 1348.	<i>Ulmus glabra</i> Huds.
Ir-Tur.	<b>LORANTHACEAE</b>	Taşlıca village, Meydanlar, mixed forest, moist soil, 1250 m, 13.07.1995, ÖE 1144.
<i>T. praecox</i> Opiz subsp. <i>grossheimii</i> (Ronniger) Jalas var. <i>grossheimii</i>	<i>Viscum album</i> L. subsp. <i>album</i>	Euro-Sib.
Taşlıca village, Arıpinar, roadside, open area, 1900 m, 17.08.1995, ÖE 1460.	Taşlıca village, Meydanlar, <i>Pinus</i> L. forest, 1300 m, 13.05.1996, ÖE 1356.	<i>U. minor</i> Mill. subsp. <i>minor</i>
<i>T. longicaulis</i> C.Presl subsp. <i>longicaulis</i> var. <i>subisophyllus</i> (Borbás) Jalas	<b>EUPHORBIACEAE</b>	Hatipoğlu, roadside, 800 m, 15.07.1995, ÖE 1145.
Taşlıca village, Demirci, roadside, open area, 1350 m, 17.08.1995, ÖE 1459.	<i>Mercurialis perennis</i> L.	<b>JUGLANDACEAE</b>
<i>Mentha pulegium</i> L.	Taşlıca village, Meydanlar, meadow, 1200 m, 10.07.1996, ÖE 1647.	<i>Juglans regia</i> L.
Taşlıca village, Meydanlar, streamside, wet soil, 1030 m, 14.06.1995, ÖE 1441.	Euro-Sib.	Taşlıca village, Meydanlar, mixed forest, streamside, 1370 m, 13.07.1995, ÖE 1150.
<i>M. longifolia</i> (L.) Huds. subsp. <i>longifolia</i>	<i>Euphorbia peplis</i> L.	<b>PLATANACEAE</b>
Taşlıca village, Demirci, streamside, 1470 m, 14.06.1995, ÖE 1440.	Taşlıca village, Gölgeli, stony slope, 900 m, 16.08.1995, ÖE 1363.	<i>Platanus orientalis</i> L.
Eux.	Medit.	Çoruh riverside, 300 m, 16.07.1996, ÖE 1143.
<i>Salvia rosifolia</i> Sm.	<i>E. stricta</i> L.	<b>FAGACEAE</b>
Taşlıca village, Meydanlar, mixed forest, 1300 m, 12.07.1995, ÖE 1446.	Taşlıca village, Direkli, <i>Picea</i> Dietr. forest, 1650 m, 12.07.1995, ÖE 1364.	<i>Fagus orientalis</i> Lipsky
Endemic, (LR (lc), Ir-Tur.	Euro-Sib.	Taşlıca village, Şarkırat plateau, subalpine slope, moist soil, 2250 m, 13.07.1995, ÖE 1152.
	<i>E. paralias</i> L.	Euro-Sib.
	Fıstıklı village, open area, dry soil, 350 m, 16.08.1995, ÖE 1362.	<i>Castanea sativa</i> Mill.
	Medit.	Taşlıca village, Arıpinar, mixed forest, 1650 m, 05.05.1996, ÖE 1151.
		Euro-Sib.

<b>Quercus hartwissiana</b> Steven	<b>S. caucasica</b> Andersson	<b>MONOCOTYLEDONAE</b>
Taşlıca village, Meydanlar, mixed forest, 1550 m, 13.07.1995, ÖE 1491.	Taşlıca village, Arıpinar, roadside, 1600 m, 12.05.1996, ÖE 1202.	<b>ALISMATACEAE</b>
Eux.	Eux.	<i>Alisma plantago-aquatica</i> L.
<b>Q. petraea</b> (Matt.) Liebl. subsp. <i>iberica</i> (Steven ex M.Bieb.) Krassiln.	<b>S. caprea</b> L.	Hatila streamside, 1500 m, 06.06.1996, ÖE 1648.
Fistıklı village, roadside, mixed forest, 350 m, 13.07.1995, ÖE 1153.	Saçinge hill, open forest, 1800 m, 12.04.1996, ÖE 1203.	Euro-Sib.
<b>BETULACEAE</b>	Euro-Sib.	<b>LILIACEAE</b>
<b>Carpinus betulus</b> L.	<b>S. pseudomedemii</b> E.Wolf	<i>Smilax excelsa</i> L.
Hatipoğlu, mixed forest, 850 m, 13.07.1995, ÖE 1158.	Taşlıca village, Arıpinar, roadside, streamside, 1890 m, 21.04.1996, ÖE 1204.	Hatipoğlu, mixed forest, 750 m, 08.05.1995, ÖE 1586.
Euro-Sib.	Eux.	Eux.
<b>C. orientalis</b> Mill.	<b>Populus tremula</b> L.	<b>Ruscus aculeatus</b> L. var. <i>angustifolius</i> Boiss.
Fistıklı village, mixed forest, 590 m, 13.07.1995, ÖE 1159.	Taşlıca village, Şarkırat plateau, subalpine slope, 2450 m, 12.06.1995, ÖE 1200.	Fistıklı village, open area, 250 m, 03.03.1996, ÖE 1581.
Ostrya carpinifolia Scop.	<b>RUBIACEAE</b>	<i>Polygonatum verticillatum</i> (L.) All.
Taşlıca village, Gökçeyurt, mixed forest, roadside, 1300 m, 16.06.1995, ÖE 1161.	<b>Crucianella gilanica</b> Trin. subsp. <i>pontica</i> (Ehrend.) Ehrend.	Taşlıca village, Meydanlar, mixed forest, wet soil, 1300 m, 08.06.1996, ÖE 1649.
Medit.	Taşlıca village, Bakacak, stony slope, 1075 m, 23.06.1995, ÖE 1492.	Euro-Sib.
<b>Corylus avellana</b> L. var. <i>avellana</i>	Eux.	<b>Allium gramineum</b> C.Koch
Taşlıca village, Bakacak, roadside, 350 m, 16.08.1995, ÖE 1160.	<b>Asperula orientalis</b> Boiss. & Hohen.	Taşlıca village, Arıpinar, subalpine slope, stony slope, 2200 m, 10.07.1996, ÖE 1650.
<b>Betula pendula</b> Roth	Taşlıca village, Gölgeli, roadside, 900 m, 13.05.1995, ÖE 1491.	<b>A. rollovii</b> Grossh.
Taşlıca village, Şarkırat plateau, roadside, 1950 m, 14.05.1995, ÖE 1156.	Ir-Tur.	Perikaya hill, stony slope, 2000 m, 20.06.1997, ÖE 1981.
<b>B. litwinowii</b> Doluch.	<b>Galium rotundifolium</b> L.	<b>Scilla monanthos</b> C.Koch
Taşlıca village, Şarkırat plateau, with shrubs in the mixed forest as follows: <i>Rhododendron caucasicum</i> Pallas, <i>Sorbus aucuparia</i> L., 2200 m, 14.04.1996, ÖE 1155.	Taşlıca village, Meydanlar, open forest, 1270 m, 18.07.1995, ÖE 1494.	Taşlıca village, Şarkırat plateau, subalpine slope, 1900 m, 03.03.1996, ÖE 1583.
Eux.	Euro-Sib.	Eux.
<b>B. recurvata</b> (I.V.Vassil) I. V.Vassil	<b>G. odoratum</b> (L.) Scop.	<b>S. siberica</b> Haw. subsp. <i>armena</i> (Grossh.) Mordak
Taşlıca village, Şarkırat plateau, with shrubs in the mixed forest as follows: <i>Rhododendron</i> L., <i>Lonicera</i> L., <i>Sorbus aucuparia</i> L., 1350 m, 21.05.1996, ÖE 1157.	Taşlıca village, Bakacak, mixed forest, 950 m, 16.05.1995, ÖE 1493.	Tuzlu hill, alpine slope, 2500 m, 07.03.1996, ÖE 1584.
Eux.	Euro-Sib.	Ir-Tur.
<b>Alnus glutinosa</b> (L.) Gaertn. subsp. <i>barbata</i> (C.A.Mey.) Yalt.	<b>G. uliginosum</b> L.	<b>S. leepi</b> Speta
Taşlıca village, Gölgeli, moist soil, along the Hatila streamside, 1100 m, 14.04.1996, ÖE 1154.	Fistıklı village, moist soil, 760 m, 25.06.1995, ÖE 1495.	Fistıklı village, rocky slope, 650 m, 03.03.1996, ÖE 1582.
Eux.	VU, Euro-Sib.	Endemic, LR(nt), Ir-Tur.
<b>SALICACEAE</b>	<b>G. verum</b> L. subsp. <i>verum</i>	<b>Ornithogalum oligophyllum</b> E.D.Clarke
<b>Salix alba</b> L.	Taşlıca village, Köklü, riverside, 1430 m, 07.07.1995, ÖE 1496.	Tuzlu hill, alpine pasture, 3000 m, 20.06.1997, ÖE 1982.
Taşlıca village, Gölgeli, streamside, 850 m, 12.10.1995, ÖE 1201.	Euro-Sib.	<b>O. platyphyllum</b> Boiss.
Euro-Sib.	<b>Cruciata taurica</b> (Pall. ex Willd.) Ehrend.	Taşlıca village, Köklü, open area, 1500 m, 09.05.1996, ÖE 1580.
<b>Rubia tinctorum</b> L.	Taşlıca village, Bakacak, roadside, 970 m, 16.05.1996, ÖE 1497.	Ir-Tur.
Ir-Tur.	Ir-Tur.	<b>O. umbellatum</b> L.
<b>Fistıklı</b> village, dry soil, 350 m, 14.04.1995, ÖE 1579.		

<b>Muscaria coeleste</b> Fomin	<b>Gladiolus atroviolaceus</b> Boiss.	<b>DIOSCOREACEAE</b>
Taşlıca village, Şarkırat plateau, open area, 2200 m, 12.03.1996, ÖE 1577.	Taşlıca village, Meydanlar, open <i>Picea</i> Dietr. forest, 1350 m, 02.05.1996, ÖE 1585.	<i>Tamus communis</i> L. subsp. <i>communis</i>
Endemic, LR(Ic), Ir-Tur.	Ir-Tur.	Taşlıca village, Meydanlar, mixed forest, 1200 m, 28.06.1996, ÖE 1655.
<b>M. armeniacum</b> Leichtlin ex Baker	<b>ORCHIDACEAE</b>	<b>JUNCACEAE</b>
Hatipoğlu, rocky slope, 650 m, 12.03.1996, ÖE 1576.	<b>Cephalanthera rubra</b> (L.) Rich.	<i>Juncus inflexus</i> L.
<b>M. neglectum</b> Guss.	Taşlıca village, Arıpinar, mixed forest, 1650 m, 10.06.1997, ÖE 1983.	Çoruh: Tütüncüler, 35 km from Artvin-Çoruh River junction, 1700 m, Kit-Tan 1290.
Taşlıca village, Gölgeli, roadside, 450 m, 12.03.1996, ÖE 1578.	<b>C. longifolia</b> (L.) Fritsch	<b>J. effusus</b> L.
Lilium carniolicum Bernh. ex W.Koch subsp. <i>ponticum</i> (C.Koch) P.H.Davis & Hend. var. <i>ponticum</i>	Taşlıca village, Arıpinar, open forest, 1700 m, 10.06.1996, ÖE 1653.	Taşlıca village, Arıpinar, streamside, wet soil, 1950 m, 13.07.1995, ÖE 1558.
Taşlıca village, Arıpinar, open <i>Picea</i> Dietr. forest, 1750 m, 15.05.1995, ÖE 1574.	Euro-Sib.	Cosm.
VU.	<b>Epipactis helleborine</b> (L.) Crantz	<b>J. filiformis</b> L.
L. carniolicum Bernh. ex W.Koch subsp. <i>ponticum</i> (C.Koch) P.H.Davis & Hend. var. <i>artvinense</i> (Miscz.) P.H.Davis & Hend.	Taşlıca village, Gökçeyurt, open forest, 900 m, 01.07.1997, ÖE 1984.	Taşlıca village, Bakacak, wet grassland, 1500 m, 22.08.1996, ÖE 1656.
Taşlıca village, Arıpinar, open <i>Picea</i> Dietr. forest, 2000 m, 14.07.1995, ÖE 1575.	<b>E. microphylla</b> (Ehrh.) Sw.	<b>J. bufonius</b> L.
Endemic, EN, Eux.	Taşlıca village, Direkli, open area, wet soil, 1470 m, 18.07.1995, ÖE 1588.	Taşlıca village, Şarkırat plateau, wet place, 2200 m, 01.07.1997, ÖE 1988.
Gagea reticulata (Pall.) Schult.	<b>Limodorum abortivum</b> (L.) Sw.	Cosm.
Fistikli village, open area, 750 m, 12.03.1996, ÖE 1572	Taşlıca village, Arıpinar, mixed forest, 1600 m, 01.07.1997, ÖE 1985.	<b>Luzula forsteri</b> (Sm.) DC.
Ir-Tur.	<b>Goodyera repens</b> (L.) R.Br.	Taşlıca village, Meydanlar, open area, wet place, 1250 m, 1150 m, 20.08.1996, ÖE 1657.
G. bulbifera (Pall.) Schult.	Saçinge hill, mixed forest, 1750 m, 10.06.1997, ÖE 1986.	Euro-Sib.
Saçinge hill, open area, 1870 m, 04.04.1996, ÖE 1571	<b>Platanthera bifolia</b> (L.) Rich.	<b>L. sylvatica</b> (Huds.) Gaudin
Euro-Sib.	Çoruh: above Artvin, 2000 m, D 29705.	Taşlıca village, Arıpinar, damp slope, 1600 m, 01.07.1997, ÖE 1989.
G. tenuissima Miscz.	Euro-Sib.	Euro-Sib.
Fistikli village, stony slope, 370 m, 12.03.1996, ÖE 1573.	<b>P. chlorantha</b> (Custer) Rchb.	<b>L. pseudosudetica</b> (V.I.Krecz.) V.I.Krecz.
Endemic, DD, Eux.	Taşlıca village, Meydanlar, open <i>Picea</i> Dietr. forest, 1200 m, 17.07.1995, ÖE 1589.	Tuzlu hill, alpine pasture, 3000 m, 06.06.1997, ÖE 1990.
Veratrum album L.	<b>Orchis purpurea</b> Huds.	Eux (mt).
Taşlıca village, Şarkırat plateau, alpine vegetation, 2700 m, 10.07.1996, ÖE 1651.	Taşlıca village, Gölgeli, open forest, 1560 m, 10.06.1996, ÖE 1654.	<b>L. campestris</b> (L.) DC.
Eux.	Euro-Sib.	Taşlıca village, Arıpinar, roadside, 1800 m, 03.05.1996, ÖE 1559.
<b>IRIDACEAE</b>	<b>Dactylorhiza urvilleana</b> (Steud.) Baumann & Künkele	Euro-Sib.
<b>Crocus biflorus</b> Mill. subsp. <i>artvinensis</i> (J.Phil.) Mathew	Taşlıca village, Demirci, slope, 1450 m, 12.03.1995, ÖE 1587.	<b>CYPERACEAE</b>
Tuzlu hill, alpine vegetation, 3000 m, 10.04.1996, ÖE 1652.	Eux.	<b>Carex spicata</b> Huds.
Endemic, EN, Euro-Sib.	<b>D. euxina</b> (Nevski) H.Baumann & Künkele var. <i>euxina</i>	Saçinge hill, roadside, 1500 m, 01.07.1997, ÖE 1991.
	Taşlıca village, Arıpinar, wet meadow, 1600 m, 01.07.1997, ÖE 1987.	Euro-Sib.
	Eux.	<b>C. echinata</b> Murray
		Çoruh: Artvin to Atila, 1600-2000 m, Kit-Tan 1068.
		Euro-Sib.

<i>C. rostrata</i> Stokes	<i>B. tectorum</i> L.	<i>F. drymeja</i> Mert. & Koch
Taşlıca village, Şarkırat plateau, 2000 m, marshy place, 10.08.1997, ÖE 1992.	Taşlıca village, Meydanlar, meadow, 1270 m, 10.06.1996, ÖE 1661.	Taşlıca village, Bakacak, mixed forest, 1000 m, 15.07.1995, ÖE 1564.
Euro-Sib.	<i>B. erectus</i> Hudson	Euro-Sib.
<i>C. sylvatica</i> Huds. subsp. <i>latifrons</i> (V.I.Krecz) O.Nilsson	Mount Keçi, dry soil, 1700 m, 20.07.1997, ÖE 1996.	<i>F. djimilensis</i> Boiss. & Bal.
Taşlıca village, Arıpinar, open forest, moist soil, 1750 m, 03.05.1996, ÖE 1560.	<i>Avena sterilis</i> L. subsp. <i>Iudoviciana</i> (Durieu) Gillet	Tuzlu hill, wet alpine meadow, 2400 m, 10.07.1997, ÖE 2003.
Eux.	Taşlıca village, Gökçeyurt, meadow, 1150 m, 22.08.1996, ÖE 1662.	Euro-Sib (mt).
<i>C. digitata</i> L.	<i>Trisetum rigidum</i> (M.Bieb.) Roem. & Schult.	<i>Lolium rigidum</i> Gaudin var. <i>rigidum</i>
Taşlıca village, Şarkırat plateau, grassland, 2200 m, 01.07.1997, ÖE 1993.	Mount Keçi, slope, 1750 m, 16.06.1996, ÖE 1568.	Taşlıca village, Gökçeyurt, meadow, wet soil, 800 m, 19.07.1995, ÖE 1566.
Eux.	Ir-Tur.	<i>Poa annua</i> L.
<i>C. atrata</i> L. subsp. <i>atrata</i>	<i>T. flavescens</i> (L.) P.Beauv.	Taşlıca village, Meydanlar, meadow, 1200 m, 10.07.1996, ÖE 1666.
Saçinge hill, meadow, wet place, 1700 m, 02.08.1996, ÖE 1658.	Mount Kurt, alpine pasture, 2700 m, 01.07.1997, ÖE 1997.	Cosm.
Euro-Sib (mt).	Euro-Sib.	<i>P. trivialis</i> L.
<i>C. nigra</i> (L.) Reichard subsp. <i>nigra</i>	<i>Deschampsia caespitosa</i> (L.) P.Beauv.	Taşlıca village, Meydanlar, meadow, 1300 m, 01.07.1997, ÖE 2004.
Perikaya hill, waste place, 1900 m, 02.08.1996, ÖE 1659.	Saçinge hill, subalpine vegetation, 1950 m, 10.06.1996, ÖE 1663.	<i>P. pratensis</i> L.
<b>GRAMINEAE (POACEAE)</b>	<i>Calamagrostis arundinaceae</i> (L.) Roth	Taşlıca village, Meydanlar, meadow, 1230 m, 10.07.1996, ÖE 1667.
<i>Brachypodium pinnatum</i> (L.) P.Beauv.	Taşlıca village, Arıpinar, slope, 1800 m, 22.07.1996, ÖE 1659.	<i>P. nemoralis</i> L.
Taşlıca village, Meydanlar, meadow, 1200 m, 22.07.1996, ÖE 1659.	Euro-Sib.	Taşlıca village, Meydanlar, meadow, 1230 m, 10.07.1996, ÖE 1668.
Euro-Sib.	<i>Agrostis planifolia</i> C.Koch	<i>P. sterilis</i> M.Bieb.
<i>Elymus nodosus</i> (Nevski) Melderis subsp. <i>sinuatus</i> (Nevski) Melderis	Tuzlu hill, alpine pasture, 2750 m, 10.08.1997, ÖE 1998.	Taşlıca village, Arıpinar, meadow, 1500 m, 20.08.1997, ÖE 2005.
Taşlıca village, Arıpinar, stony slope, 1600 m, 18.07.1997, ÖE 1994.	Ir-Tur.	<i>P. bulbosa</i> L.
Ir-Tur.	<i>A. stolonifera</i> L.	Taşlıca village, Arıpinar, open area, dry soil, 1700 m, 15.05.1996, ÖE 1567.
<i>E. repens</i> (L.) Gould subsp. <i>repens</i>	Taşlıca village, Meydanlar, wet place, 1300 m, 01.07.1997, ÖE 1999.	<i>Dactylis glomerata</i> L. subsp. <i>hispanica</i> (Roth) Nyman
Taşlıca village, Bakacak, meadow, 1500 m, 02.08.1996, ÖE 1660.	<i>Alopecurus arundinaceus</i> Poir.	Taşlıca village, Meydanlar, meadow, 1230 m, 10.07.1996, ÖE 1669.
<i>Triticum monococcum</i> L.	Perikaya hill, wet meadow, 2100 m, 10.06.1997, ÖE 2000.	<i>Cynosurus cristatus</i> L.
Taşlıca village, Arganet, open forest, 970 m, 14.04.1996, ÖE 1569.	<i>Phleum alpinum</i> L.	Taşlıca village, Köklü, open <i>Picea</i> Dietr. forest, moist soil, 1250 m, 13.07.1995, ÖE 1562.
<i>Hordeum geniculatum</i> All.	Tuzlu hill, wet alpine meadow, 2700 m, 20.07.1997, ÖE 2001.	Euro-Sib.
Taşlıca village, Demirci, meadow, wet soil, 1400 m, 13.07.1995, ÖE 1565.	Euro-Sib.	<i>C. echinatus</i> L.
Euro-Sib.	<i>P. pratense</i> L.	Taşlıca village, Arıpinar, meadow, 1850 m, 17.07.1995, ÖE 1563.
<i>Bromus racemosus</i> L.	Taşlıca village, Bakacak, open area, wet place, 1500 m, 07.07.1995, ÖE 1665.	<i>Briza media</i> L.
Taşlıca village, Meydanlar, wet meadow, 1250 m, 28.07.1997, ÖE 1995.	Euro-Sib.	Taşlıca village, Meydanlar, meadow, 1230 m, 10.07.1996, ÖE 1669.
Euro-Sib.	<i>Festuca gigantea</i> (L.) Vill.	<i>Melica uniflora</i> Retz.
<i>B. japonicus</i> Thunb. subsp. <i>japonicus</i>	Taşlıca village, Meydanlar, wet meadow, 1200 m, 01.07.1997, ÖE 2002.	Saçinge hill, open forest, 1600 m, 18.08.1997, ÖE 2006.
Taşlıca village, Şarkırat plateau, meadow, 2300 m, 15.05.1996, ÖE 1561.	Euro-Sib.	Euro-Sib.

*Nardus stricta* L.  
Tuzlu hill, alpine pasture, 2900 m,  
22.08.1996, ÖE 1670.  
*Stipa arabica* Trin. & Rupr.  
Taşlıca village, Arıpinar, meadow, 1850  
m, 10.06.1996, ÖE 1671.

*Cynodon dactylon* (L.) Pers. var.  
*dactylon*  
Saçinge hill, slope, 1400 m, 22.08.1996,  
ÖE 1672.

*Zea mays* L.  
Taşlıca village, Meydanlar, cultivated  
place, 1200 m, 10.08.1997, ÖE 2007.