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AUTHORS: Resit ILARSLAN

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New Floristic Records From A6 (Tokat)

by

Reşit İLARSLAN*

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New Floristic Records From A6 (Tokat)

Reşit İLARSLAN*

Department of Systematic Botany, Faculty of Science,
University of Ankara.

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ABSTRACT

93 species listed are new records for the province of Tokat which is situated in the transitory region between inner and north Anatolia. These species were published as new grid square records using the system adopted in Davis's Flora of Turkey; they belong to the families dealt with in the first seven volumes of the Flora.

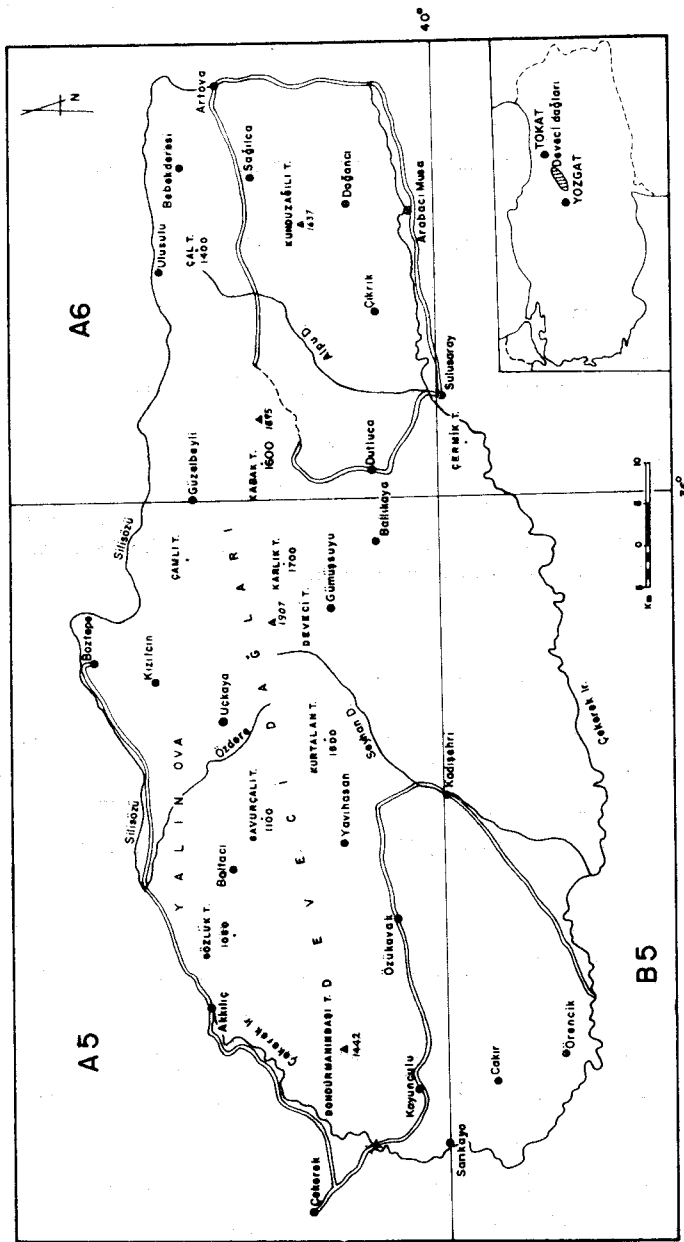
INTRODUCTION

The plants listed in this paper were collected by the author from the Deveci mountains. The Deveci is a mountain range which stretches out from Çekerek of Yozgat towards to the Artova of Tokat province. The highest point of the mountain range is Deveci hill at an altitude of 1.907 m.

This mountain range are bounded by Boztepe in the north, Çekerek river in the south, Çekerek town in the west and Artova town in the east (Map.1).

In bold relief of the study area are Kunduzağlı at an altitude of 1637 m, Kabak hill at an altitude of 1600 m, and Çal hill at an altitude of 1400 m.

Till now no detail investigations have been done on the flora of the study area. But there are only a few studies which are about the collected material.



During the field studies 1250 specimens were collected by the author from the study area. Most of them determined by the author and 630 species were found.

The study area falls into the A6 square of the grid system adopted by Davis in the Flora of Turkey volumes (I). Among the specimens 93 of them are new records for A6 square. In order to ensure that the records listed are new for A6, some floristic works, especially Davis's Flora of Turkey (I-VII), have been consulted in addition to Huber-Morath (1973, 1977, 1980, 1981), Sorger (1971, 1978).

The collected specimens are kept in the Herbarium (ANK).

Pure stands of *Fagus orientalis* in the area are found on the north of the area at an altitudes from 1600 to 1700 m.

While the *Fagus orientalis* constitutes mixed forest with the species of *Carpinus orientalis* and *Coryllus avellana* at the lower altitudes. It has been last point of the southern boundries for these *Fagus orientalis* forest in the inner Anatolia. This species has not be found in the another research (Ekim and Düzenli 1982) was made on the southern part of the study area.

Vicinity of the Çal hill in the area, *Carpinus orientalis* occurs being the pure stands at an altitudes of 1100–1300 m, but sometimes it constitutes mixed forest with the *Quercus pubescens*.

The groups of *Cistus laurifolius* occur as a Chapparal vegetation in the plantation area of Arabacı Musa village and in Arabacı Musa district.

In the area, steppic vegetation are represented by the species of *Astragalus*, such as *A. densifolius*, *A. noeanus*, *A. andrachneifolius*, *A. acicularis*, *A. podperae*.

The list of the plants follow the sequence of families, genera and species adopted in Flora of Turkey volumes (I-VII). The figures in square brackets after the name of the species refer to the volume and page number in Flora.

PTERIDOPHYTA

EQUISETACEAE

Equisetum palustre L. (I: 33)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1300-1400 m., 23.6.1980, İlarslan 1069.

SPERMATOPHYTA

PAPAVERACEAE

Roemeria hybrida (L.) DC.subsp.*hybrida* (I:218)

A6 Tokat: Artova, Çermik to Çöte, 1200-1300 m., 25.6.1980, İlarslan 1121.

Fumaria vaillantii Boiss. (I: 247)

A6 Tokat: Artova, Dutluca village, Tekneli kaya, rocky places, 1250 m., 16.7.1979, İlarslan 589.

CRUCIFERAE

Conringia orientalis (L.) Andr. (I: 276)

A6 Tokat: Artova, Yenice village, 1300 m., 12.6.1981, İlarslan 1305.

Lepidium perfoliatum L. (I: 282)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1200-1300 m., 11.6.1981, İlarslan 1304.

Alyssum contemptum Schott et Kotschy (I: 379)

A6 Tokat: Artova, Aktaş, village, Çal Tepe, mixed forest, 1450 m., 13.6.1981, İlarslan 1161.

A. hirsutum Bieb. (I: 383)

A6 Tokat: Artova, Sineburnu Tepe, *Quercus pubescens* forest, 1300-1400 m., 12.6.1981, İlarslan 1288, (Det.T.Ekim).

Arabis sagittata (Bertol) DC. (I: 427)

A6 Tokat: Artova, Yenice village, Guz kırım, *Quercus cerris* forest, 1500 m., 23.6.1980, İlarslan 952.

Barbarea plantaginea DC. (I: 437)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1300 m., 23.6.1980, İlarslan 966.

RESEDACEAE

Reseda lutea L.var.*nutans* Boiss. (I:504)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1300–1400 m., 23.6.1980, İlarslan 1070.

CARYOPHYLLACEAE

Dianthus zederbaueri Vierh. (II: 113)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1300–1400 m., 16.7.1979, İlarslan 722.

D.pallens Sibth.et Sm.var.*pallens* (II: 114)

A6 Tokat: Artova, Sineburnu Tepe, *Quercus pubescens* forest, 1300 m., 16.7.1979, İlarslan 712.

D.crinitus Sm.var.*crossopetalus* Boiss. (II: 119)

A6 Tokat: Artova, Çermik to Çöte, 1200–1300 m., 25.6.1980, İlarslan 1111. and Atmaca to Sulusaray, rock places, 1200 m., 1.10.1979, İlarslan 734.

D.lydus Boiss. (II: 130)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1250 m., 16.7.1979, İlarslan 399.

Silene otites (L.) Wibel (II: 203)

A6 Tokat: Artova, Sineburnu Tepe, *Quercus pubescens* forest, 1300 m., 16.7.1979, İlarslan 386.

S.cappadocica Boiss.et Heldr. (II: 205)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1200–1300 m., 11.6.1981, İlarslan 1242.

S.alba (Miller) Krause subsp.*divaricata* (Reichb.) Walters (II: 226)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1200–1300 m., 11.6.1981, İlarslan 1244.

ILLECEBRACEAE

Herniaria glabra L. (II: 246)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1300 m., 13.6.1981, İlarslan 1248.

GUTTIFERAE

Hypericum hyssopifolium Chaix subsp.*elongatum* (Ledeb.) Woron. var. *microcalycinum* (Boiss.et Heldr.) Boiss. (II: 372)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1300–1400 m., 13.6.1981, İlarslan 1397.

MALVACEAE

Malva sylvestris L. (II: 406)

A6 Tokat: Artova, Mertekli, roadside, 1100–1200 m., 24.6.1980, İlarslan 1096.

LINACEAE

Linum mucronatum Bertol.subsp.*armenum* (Bordz.) Davis (II: 431)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1400 m., 13.6.1981, İlarslan 1160.

L.hirsutum L. subsp.*pseudoanatolicum* Davis (II: 440)

A6 Tokat: Artova, Yenice village, Guz Kırım, *Quercus cerris* forest, 1100 m., 14.6.1981, İlarslan 1366.

RUTACEAE

Haplophyllum thesioides (Fisch.ex DC.) G.Don, (II : 499)

A6 Tokat: Artova, Yenice village, Guz Kırım, *Quercus cerris* forest, 1300 m., 12.6.1981, İlarslan 1348.

ACERACEAE

Acer hyrcanum Fisch.et Mey.subsp.*hyrcanum* (II: 514)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1300 m., 13.6.1981, İlarslan 1341.

LEGUMINOSAE

Astragalus densifolius Lam., (III: 72)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1200–1300 m., 25.6.1980, İlarslan 771.

A.fraxinifolius DC., (III: 97)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1300 m., 13.6.1981, İlarslan 1263.

A.noeanus Boiss., (III: 123)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1200–1300 m., 25.6.1980, İlarslan 765.

A.pennatus Bunge, subsp.*eriocalyx* (Bunge) Chamb.et Matt., (III: 141)

A6 Tokat: Artova, Sineburnu, *Quercus pubescens* forest, 1300 m., 16.7.1979, İlarslan 681, (Det: T.Ekim).

A.albifolius Freyn et Sint. (III: 145)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1400 m., 17.7.1979, İlarslan 577.

A.andrachneifolius Fenzl, (III: 151)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1200–1300 m., 25.6.1980, İlarslan 772.

A.acicularis Bunge, (III: 158)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1250 m., 16.7.1979, İlarslan 576.

A.condensatus Ledeb., (III: 159)

A6 Tokat: Artova, Sineburnu, *Quercus pubescens* forest, 1300 m., 23.6.1980, İlarslan 774.

A.podperae Sirj. (III: 159)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1250 m., 16.7.1979, İlarslan 733.

A.brachypterus Fischer (III: 160)

A6 Tokat: Artova, Sineburnu, *Quercus pubescens* forest, 1400 m., 24.6.1980, İlarslan 777.

A.sigmoideus Bunge, (III: 240)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1200–1300 m., 25.6.1980, İlarslan 790.

Vicia cracca L., subsp.*stenophylla* Vel., (III: 284)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1500 m., 23.6.1980, İlarslan 1138.

V.noeana Reuter ex Boiss., var.*noeana*. (III: 307)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1200–1300 m., 11.6.1981, İlarslan 1267.

Pisum sativum L., subsp.*sativum*.var.*arvense* (L.) Poiret. (III: 371)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1200–1300 m., 11.6.1981, İlarslan 1279.

P.sativum L., subsp.*elatus* (Bieb.) Aschers.et Graebn., var *elatus*. (III: 371)

A6 Tokat: Artova, Yenice village, Kayalıdere Tepe, mixed forest 1400 m., 14.6.1981, İlarslan 1278.

Ononis spinosa L., subsp.*leiosperma* (Boiss.) Sirj. (III: 382)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1300–1400 m., 16.7.1979, İlarslan 557.

Trifolium nigrescens Viv., subsp. *petrisavii* (Clem.) Holmboe, (III: 396)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1400 m.
17.7.1979, İlarslan 565.

Trigonella lunata Boiss., (III: 459)

A6 Tokat: Artova, Düzçam village, Karaçoban yatağı, rocky places, 1200–1300 m., 12.6.1981, İlarslan 1273.

T.aurantiaca Boiss., (III: 467)

A6 Tokat: Artova, Yenice village, Guz Kırım, *Quercus cerris* forest, 1300 m., 12.6.1981, İlarslan 1272.

Medicago radiata L., (III: 486)

A6 Tokat: Artova, Düzçam village, Karaçoban yatağı, rocky places, 1200–1300 m., 12.6.1981, İlarslan 1274.

M.falcata L., (III: 490)

A6 Tokat: Artova, Yenice village, Guz Kırım, *Quercus cerris* forest, 1300 m., 25.6.1980, İlarslan 802.

M.rigidula (L.) All., var. *rigidula*. (III: 504)

A6 Tokat: Artova, Yenice village, Guz Kırım, *Quercus cerris* forest, 1300 m., 12.6.1981, İlarslan 1275.

Coronilla coronata L., (III: 541)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1200–1300 m., 11.6.1981, İlarslan 1260.

Hedysarum nitidum Willd., (III: 555)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1200–1300 m., 25.6.1980, İlarslan 798.

ROSACEAE

Crataegus orientalis Pallas ex Bieb., var. *orientalis*. (IV: 136)

A6 Tokat: Artova, Sineburnu, *Quercus pubescens* forest, 1300 m., 16.7.1979, İlarslan 620.

Sorbus torminalis (L.) Crantz, var. *orientalis* (Schön.-Tem.) Gabr., (IV: 156)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1450 m., 13.6.1981, İlarslan 1410.

Amelanchier rotundifolia (Lam.) Dum.-Courset, (IV: 168)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1450 m., 13.6.1981, İlarslan 1406.

CRASSULACEAE

Sedum sempervivoides Bieb., (IV: 236)

A6 Tokat: Artova, Düzçam village, Karaçoban yatağı, rocky places, 1250-1300 m., 12.6.1981, İlarslan 1372.

UMBELLIFERAE

Pimpinella anthriscoides Boiss., var. *anthriscoides*. (IV: 363)

A6 Tokat: Artova, Yenice village, Guz Kırım, *Quercus cerris* forest, 1500 m., 25.6.1980, İlarslan 877.

Malabaila pastinacifolia Boiss.et Bal., (IV: 485)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1250 m., 16.7.1979, İlarslan 641.

Turgenia latifolia (L.) Hoffm., (IV: 527)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1300 m., 23.6.1980, İlarslan 876.

VALERIANACEAE

Valerianella coronata (L.) DC., (IV: 576)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1200-1300 m., 11.6.1981, İlarslan 1358.

COMPOSITAE

Anthemis cretica L., subsp.*albida* (Boiss.) Grierson, (V: 185)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1200–1300 m., 11.6.1981, İlarslan 1442, (Det: T. Ekim)

Tripleurospermum transcaucasicum (Manden.) Pobed., (V: 307)

A6 Tokat: Artova, Karaçay village, Ketenlik, steppe, 1400 m., 16.7.1979, İlarslan 445.

Carduus nutans L., subsp.*leiophyllus* (Petr.) Stoj.et Stef., (V: 425)

A6 Tokat: Artova, Düzçam village, Karaçoban yatağı, rocky places, 1200–1300 m., 12.6.1981, İlarslan 1468.

Centaurea pulchella Ledeb., (V: 504)

A6 Tokat: Artova, Çermik to Çöte, 1200 m, 26.6.1980, İlarslan 1018.

C.triumfettii All., Group A (V: 576)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1300 m., 13.6.1981, İlarslan 1472.

C.depressa Bieb., (V: 580)

A6 Tokat: Artova, Yenice village, Guz Kırım, *Quercus cerris* forest, 1300 m, 12.6.1981, İlarslan 1474.

Chardinia orientalis (L.) O.Kuntze, (V: 608)

A6 Tokat: Artova, Yenice village, Guz Kırım, *Quercus cerris* forest, 1300 m, 12.6.1981, İlarslan 1475.

Scorzonera suberosa C.Koch subsp.*suberosa*. (V: 638)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1200–1300 m., 11.6.1981, İlarslan 1478.

S.mollis Bieb., subsp.*szowitzii* (DC.) Chamb., (V: 640)

A6 Tokat: Artova, Düzçam village, Karaçoban yatağı, rocky places, 1200–1300 m., 12.6.1981, İlarslan 1159.

Tragopogon latifolius Boiss., var.*angustifolius* Boiss., (V: 663)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1300–1400 m., 16.7.1979, İlarslan 454.

T.aureus Boiss., (V: 667)

A6 Tokat: Artova, Yenice village, Kayalıdere, mixed forest, 1400 m., 14.6.1981, İlarslan 1482.

Leontodon asperrimus (Willd.) J.Ball (V: 674)

A6 Tokat: Artova, Düzçam village, Karaçoban yatağı, rocky places, 1200–1300 m., 12.6.1981, İlarslan 1466.

L.crispus Vill., subsp.*asper* (Waldst.et Kit.) Rohl. var.*asper*, (V: 675)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1200–1300 m., 11.6.1981, İlarslan 1430.

Cicerbita variabilis (Bornm.) Bornm. (V: 770)

A6 Tokat: Artova, Yenice village, Guz Kırım, *Quercus cerris* forest, 1500 m., 23.6.1980, İlarslan 1022.

Mulgedium tataricum (L.) DC., (V: 773)

A6 Tokat: Artova, Aktaş village, Gazi Baba, *Fagus orientalis* forest, 1400–1500 m., 16.7.1979, İlarslan 699.

Cephalorrhynchus tuberosus (Stev.) Schchian (V: 774)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1450 m., 13.6.1981, İlarslan 1485.

Lapsana communis L., subsp.*intermedia* (Bieb.) Hayek (V: 787)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1200–1300 m., 11.6.1981, İlarslan 1464.

CAMPANULACEAE

Campanula propinqua Fisch.et Mey. (VI: 48)

A6 Tokat: Artova, Mertekli, roadsides, 1100–1200 m., 24.6.1980, İlarslan 764.

PRIMULACEAE

Lysimachia verticillaris Sprengel, (VI: 136)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1300–1400 m., 23.6.1980, İlarslan 1084.

APOCYNACEAE

Vinca herbacea Waldst.et Kit., (VI: 162)

A6 Tokat: Artova, Aktaş village, Horoz kayası, rocky slopes, 1300–1400 m., 12.6.1981, İlarslan 1353.

BORAGINACEAE

Heliotropium lasiocarpum Fisch.et Mey. (VI: 253)

A6 Tokat: Artova, Sulusaray, sandy banks, 1000 m., 16.7.1979, İlarslan 364.

Echium italicum L. (VI: 321)

A6 Tokat: Artova, Belpınar village, steppe, 1250 m., 1.10.1979, İlarslan 1131.

SCROPHULARIACEAE

Verbascum splendidum Boiss., (VI: 570)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1250 m., 16.7.1979, İlarslan 710.

Odontites verna (Bellardi) Dumort., subsp. *serotina* (Dumort.) Corb., (VI: 765)

A6 Tokat: Artova, Sineburnu, *Quercus pubescens* forest, 1300 m., 23.6.1980, İlarslan 1072.

OROBANCHACEAE

Orobanche elatior Sutton (VII: 20)

A6 Tokat: Artova, Sineburnu, *Quercus pubescens* forest, 1300 m., 12.6.1981, İlarslan 1140.

GLOBULARIACEAE

Globularia trichosantha Fisch.et Mey., (VII: 29)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1200–1300 m., 25.6.1980, İlarslan 1068.

VERBENACEAE

Verbena officinalis L., (VII: 33)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1300–1400 m., 23.6.1980, İlarslan 1116.

LABIATAE

Salvia sclarea L., (VII: 438)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1300–1400 m., 23.6.1980, İlarslan 835.

PLUMBAGINACEAE

Acantholimon venustum Boiss., var.*laxiflorum* (Boiss.ex Bunge) Bokhari (VII: 486)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1300–1400 m., 16.7.1979, İlarslan 602.

THYMELACEAE

Daphne oleoides Schreber subsp.*oleoides*.(VII: 524)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1300 m., 13.6.1981, İlarslan 1355.

ARISTOLOCHIACEAE

Aristolochia maurorum L., (VII: 558)

A6 Tokat: Artova, Yenice village, Guz Kırım, *Quercus cerris*, forest, 1300 m., 25.6.1980, İlarslan 1086.

EUPHORBIACEAE

Mercurialis ovata Sternb. et Hoppe (VII: 570)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1450 m., 13.6.1981, İlarslan 1391.

Euphorbia apios L., (VII: 586)

A6 Tokat: Artova, Aktaş village, Çal Tepe, mixed forest, 1450 m., 13.6.1981, İlarslan 1390.

E. falcata L., var. *macrostegia* Bornm., (VII: 608)

A6 Tokat: 3 km to Silisözü, *Quercus pubescens* forest, 1100 m., 1.10.1979, İlarslan 685.

E. myrsinites L., (VII: 612)

A6 Tokat: Artova, Düzçam village, Karaçoban yatağı rocky places, 1200–1300 m., 12.6.1981, İlarslan 937.

E. macroclada Boiss., (VII: 615)

A6 Tokat: Artova, Sineburnu, *Quercus pubescens* forest, 1300 m., 16.7.1979, İlarslan 493.

RUBIACEAE

Asperula stricta Boiss., subsp. *latibracteata* (Boiss.) Ehr. (VII: 752)

A6 Tokat: Artova, Sineburnu, *Quercus pubescens* forest, 1300 m., 16.7.1979, İlarslan 625.

A. arvensis L., (VII: 763)

A6 Tokat: Artova, Arabacı Musa village, Selvi Söğüt in plantation area, steppe, 1200–1300 m., 11.6.1981, İlarslan 1342.

ÖZET

Bu bitki listesi İç ve Kuzey Anadolu geçiş bölgesinde Tokat ili için yeni olan 93 bitki türünü ihtiva etmektedir. Bu çalışmada Davis'in Flora of Turkey adlı eserinde Grid sistemine göre kabul ettiği kareleme sistemi benimsenmiş olup bu bitki türleri A6 karesi için yenidir. Ve Floranın ilk yedi ciltinde çıkan familyalara aittir.

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