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**New Floristic Records From A<sub>5</sub>  
(Kastamonu-Çorum)**

By

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Adres: Fen Fakültesi Tebliğler Dergisi Fen Fakültesi, Ankara, Turquie.

## New Floristic Records From A<sub>5</sub> (Kastamonu-Çorum)

Mahmut KILINÇ\*

### SUMMARY

96 species are listed which are new records for the provinces of Kastamonu and Çorum in the transitional area along the boundries of Central Anatolia and Black Sea regions. 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 five volumes of the Flora.

### INTRODUCTION

The plant listed in this paper were collected by the author from the area between Devrez Stream and Kızılırmak River (it belongs to the city boundries of Kastamonu and Çorum) which is transitional area along the boundries of Central Anatolia and Black Sea regions while studying the ecology and phytosociology of study area in between 1974 and 1976.

Area studied takes part in between Irano-Turanien and Euro-Siberian phytogeographic regions in Turkey, including these two regions plants. The eastern part of the study area is bounded by Kızılırmak River. In the north-west of the area studied Devrez Stream runs. There are Kargı and Bayat towns in the north and the south of the studied area respectively. The accompanying map (fig. 1) shows some of the frequently cited localities in the study area. The average altitude from the sea level varies from 1000 to 1500 m. The elevations vary from 350 m. up to 2000 m. It is approximately 400 m. along Kızılırmak River, 450 m. in the Devrez streamside but goes up to 2015 m. in the Sırıkh Tepe (Öbek T.), 2020 m. in the Ardıçlı Tepe and 2087 m. in the Kös Da.

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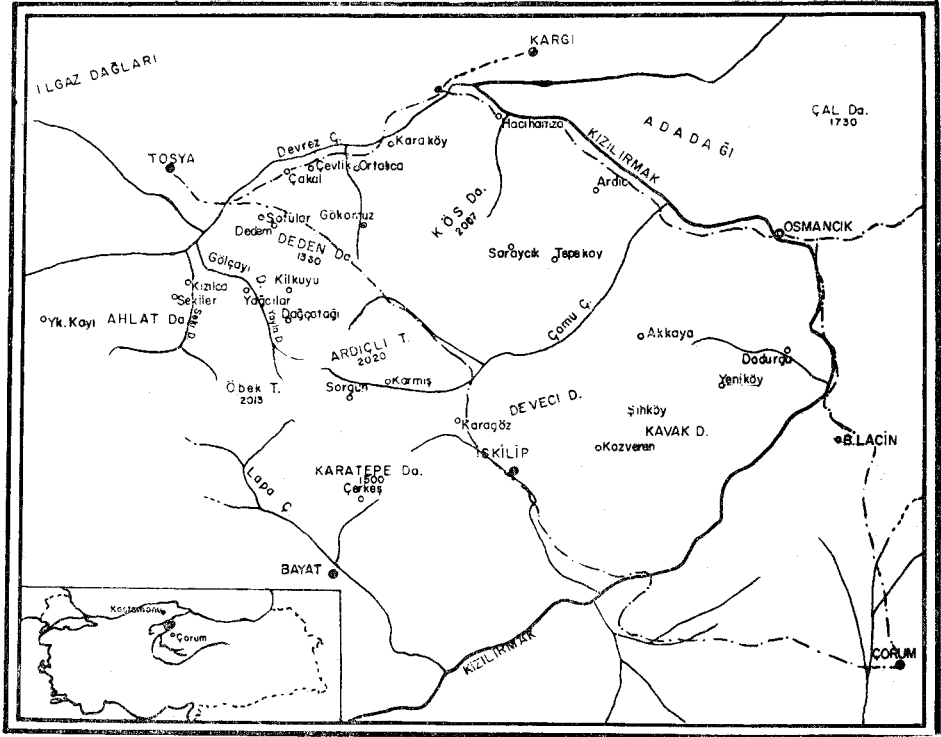


Fig.1- Some localities cited in the study area.

According to De Martonne-Gottman (1942) and Erinç (1965), the climate of study area is transitional type within semi-arid and humid climatic types. The annual precipitation varies from 350 to 700 mm., depending on the altitude and aspect of the hills. It usually falls in winter and spring.

Following vegetation types can be distinguished in the area studied:

I- Forest vegetation: It is a predominant vegetation type in the study area, consists following plant communities depending on the topography and altitude, such as *Pinus brutia* (400 to 800 m.), *Quercus pubescens* (500 to 1000 m.), *Carpinus betulus* (800 to 1200 m.), *Pinus nigra* subsp. *pallasiana* (1000 to 1400 m.), *P. sylvestris* (1400 to 1700 m.) and *Abies bornmuelleriana* (1500 to 1900 m.).

II- Degraded forest vegetation: This type of vegetation is prevalent in Devrez valley within 350 to 600 m., includes following shrubs, such as *Spirea crenata*, *Paliurus spina-christi*, *Berberis crataegyna*, *Pistacia terebinthus* subsp. *palaestina*, *Crataegus monogyna* subsp. *monogyna*, *Fraxinus oxycarpa* subsp. *parviflora*, *Juniperus excelsa* and so on.

III- Deforested vegetation:

i- Steppe vegetation: It is prevalent in the local area of degraded forest and the transitional area of the steppe and forest vegetation. The dominant and constant species of the steppic vegetation area *Astragalus microcephalus* and *A. angustifolius* subsp. *angustifolius*.

ii- Humid meadows vegetation: This vegetation type is most common in pasture within the forest and along the slowly moving streams.

At about 650 to 700 gatherings have been collected from the study area in between 1974 and 1976. Most of the specimens were identified by the author in the herbarium of the Department of Systematic Botany, Faculty of Science, University of Ankara (ANK). Some plants have been determined by difficulties were sent to Dr. Huber-Morath for identification. In this respect, I am grateful to him for co-operation.

The area studied falls within A<sub>5</sub> of the grid system adopted by Dr. P. H. Davis in *Flora of Turkey* (1965-1976). The following plant list includes the new records for A<sub>5</sub>, depending on the first five volumes of *Flora*. The list of the plants follow the sequence of families, genera and species adopted *Flora of Turkey* volumes I-V. The figures in square brackets after the name of the species refer to the volume and page number in *Flora*. All the specimens cited are in the Ankara Herbarium (ANK).

In order to ensure that the records listed below are new for A<sub>5</sub>, some floristic works, such as Sorger (1971) and Huber-Morath (1973) have been consulted in addition to *Flora of Turkey* (I-V).

## PTERIDOPHYTA

## EQUISETACEAE

*Equisetum arvense* L. [I: 33]

A<sub>5</sub> Kastamonu: Tosya, Yağcılar village, Karanlık Dere (Yayla Deresi), *Abies bornmuelleriana* and *Pinus sylvestris* forests, 1600 m., 12. 6. 1975, *Kılınç* 3817.

## SINOPTERIDACEAE

*Cheilanthes fragrans* (L. fil.) Sw. [I: 41]

A<sub>5</sub> Kastamonu: Tosya; around Ortahca village, on the degraded places, 400 m., 30. 5. 1976, *Kılınç* 5033.

*C. marantae* (L.) Domin [I: 42]

A<sub>5</sub> Kastamonu: Tosya: around Çevlik village, on the degraded places, 400–500 m., 30. 5. 1976, *Kılınç* 5032.

## ATHYRIACEAE

*Cystopteris fragilis* (L.) Bernh. [I: 54]

A<sub>5</sub> Kastamonu: Tosya; Ahlat Da., *A. bornmuelleriana* and *P. sylvestris* forests, 1700–1800 m., 4. 7. 1976, *Kılınç* 5024.

## ASPIDIACEAE

*Polystichum lonchitis* (L.) Roth [I: 56].

A<sub>5</sub> Çorum: Kargı; Kös Da., *P. sylvestris* forest, meadows, 1700 m., 1. 7. 1976, *Kılınç* 5030.

*Dryopteris filix-mas* (L.) Schott [I: 58]

A<sub>5</sub> Çorum: Kös Da., *P. sylvestris* forest, 1700 m., 15. 7. 1976, *Kılınç* 5031.

## SPERMATOPHYTA

## PINACEAE

*Pinus brutia* Ten. [I: 74]

A<sub>5</sub> Kastamonu: Tosya; Devrez valley, around Ortahca village, 400–800 m., 15. 6. 1976, *Kılınç* 6784.

## RANUNCULACEAE

*Caltha polypetala* Hochst. ex Lorent [I: 106]

A<sub>5</sub> Çorum: Kargı; Kös Da., *P. sylvestris* forest, meadows, 1700–1800 m., 16. 5. 1975, *Kılınç* 3368.

*Ranunculus damascenus* Boiss. et Gaill. [I: 172]

A<sub>5</sub> Çorum: Osmaniçık; around Yeniköy, in the *Quercus pubescens* shrubs, 17. 5. 1975, *Kılınç* 1021, Det. A. Baytop.

*Ceratocephalus testiculatus* (Cronz) Roth [I: 198]

A<sub>5</sub> Kastamonu: Tosya; Kös Da., Acıkavak Yaylası, 1. 6. 1976, 1600 m., *Kılınç* 3984.

*Thalictrum orientale* L. [I: 200]

A<sub>5</sub> Kastamonu: Tosya; Ortahca Yaylası, in the *Q. pubescens* shrubs, 1000–1300 m., 13. 6. 1975, *Kılınç* 3362.

## PAEONIACEAE

*Paeonia peregrina* Miller [I: 206]

A<sub>5</sub> Kastamonu: Tosya; Yağcılar village, Karanlık Dere, *A. bornmuelleriana* forest, 1500–1800 m., 31. 5. 1976, *Kılınç* 4066.

## PAPAVERACEAE

*Glaucium leiocarpum* Boiss. [I: 217]

A<sub>5</sub> Kastamonu: Tosya; between Ortahca and Karaköy villages, 400 m., 1. 7. 1976, *Kılınç* 3917.

*Fumaria cilicica* Hausskn. [I: 246]

A<sub>5</sub> Çorum: Around İskilip, 800 m., 18. 5. 1975, *Kılınç* 2322.

*F. microcarpa* Boiss. ex Hausskn. [I: 246]

A<sub>5</sub> Çorum: Osmaniçık; around Ardiç village, 1000 m., 3. 6. 1976, *Kılınç* 3916

## CRUCIFERAE

*Brassica elongata* Ehrh. [I: 264]

A<sub>5</sub> Kastamonu: Tosya; between Sofular and Dedem villages, 1000 m., 17. 6. 1975, *Kılınç* 3650. (Det. A. Hub.–Mor).

*Sinapis arvensis* L. ([I: 266 ]

A<sub>5</sub> Çorum: İskiliip; around Karagöz village, 1000 m., 18.5.1975, *Kılınç* 3640. (Det. A. Hub. -Mor.)

*Thlaspi arvensis* L. [I: 331 ]

A<sub>5</sub> Kastamonu: Tosya; Yağcılar village, Göl Yaylası, 1800 m., 12. 6. 1975, *Kılınç* 3612.

*T. lilacinum* Boiss. et Huet [I: 336 ]

A<sub>5</sub> Kastamonu: Tosya; between Seki Deresi and Eğriçayır Yaylası, *Abies bornmuelleriana* and *P. sylvestris* forests, 1500-1500 m., *Kılınç* 3989

*Fibigia clypeata* (L.) Medik. [I: 357 ]

A<sub>5</sub> Kastamonu: Tosya; Ahlat Da.. *Pinus nigra* forest, 1400 m., 11. 6. 1975, *Kılınç* 3626.

*Alyssum murale* Waldst. et Kit. subsp. *murale* [I: 403 ]

A<sub>5</sub> Kastamonu: Tosya; between Devres Stream and Y. Dikmen village, in the *Q. pubescens* shrubs, 500-1300 m., 12. 6. 1976, *Kılınç* 3653.

*A. strigosum* Banks et Sol. subsp. *strigosum* [I: 382 ]

A<sub>5</sub> Kastamonu: Tosya; between Devrez Stream and Y. Dikmen village, in the *Q. pubescens* shrubs, 500-1300 m., 12. 6. 1976, *Kılınç* 3664.

*A. stylare* (Boiss. et Bal.) Boiss. [I: 374 ]

A<sub>5</sub> Çorum: Osmancık; between Dodurga and Yeniköy, roadsides, 900, m., 17. 5. 1975, *Kılınç* 3651.

*Turritis laxa* (Sibth. et Sm.) Hayek [I: 429 ]

A<sub>5</sub> Kastamonu: Tosya; Ahat Da., *P. nigra* forest, 1500 m., 11.6. 1975, *Kılınç* 3618.

*Malcolmia africana* (L.) R. Br. [I: 460 ]

A<sub>5</sub> Çorum: İskilip; around Şihköyü, 1250 m., 17. 5. 1975, *Kılınç* 3600,

*Erysimum crassipes* Fisch. et Mey. [I: 475 ]

A<sub>5</sub> Kastamonu: Tosya; Ortahca village, around Belen Mahallesi, in the *Q. pubescens* shrubs, 1000 m., 14. 5. 1975, *Kılınç* 3592.

*E. symyrnaeum* Boiss. et Bal. [I: 476]

A<sub>5</sub> Kastamonu: Tosya; between Devrez Stream and Y. Dikmen village, in the *Q. pubescens* shrubs, 800 m., 31. 5. 1976, *Kılınç* 4036. Tosya; Ahlat Da., *P. nigra* forest, 1500 m., 11. 6. 1975, *Kılınç* 3601.

*Camelina rumelica* Vel. [I: 491]

A<sub>5</sub> Çorum: Kargı; between Hacıhamza and Osmancık, 450-500 m., *Kılınç* 3628.

#### CAPPARIDACEAE

*Capparis ovata* Desf. var. *canescens* (Coss.) Heywood [I: 497]

A<sub>5</sub> Kastamonu: Tosya; Devrez valley, between İnceçay and Karaköy, 450, m., 14. 7. 1976, *Kılınç* 3926.

#### CISTACEAE

*Helianthemum nummularium* (L.) Miller subp. *ovatum* (Viv.) Schiz et Thellung [I: 513]

A<sub>5</sub> Kastamonu: Tosya; Seki Deresi, *P. nigra* forest, plantation area, 1500 m., 18. 6. 1975, *Kılınç* 2038.

*H. canum* (L.) Baung. [I: 514]

A<sub>5</sub> Kastamonu: Tosya; Dedem Da., *P. nigra* forest, 1400-1500 m., 17. 6. 1975, *Kılınç* 2024.

*Fumana procumbens* (Dun.) Gren. et Godr. [I: 519.]

A<sub>5</sub> Çorum: Kargı; between Hacıhamza and Abdullah Yaylası, 500 m., 16. 5. 1975, *Kılınç* 2026.

#### VIOLACEAE

*Viola occulta* Lehm. [I: 529]

A<sub>5</sub> Çorum: Kargı; between Hacıhamza and Osmancık, foothills, 500 m., 16. 5. 1975, *Kılınç* 3556.

#### CARYOPHYLLACEAE

*Arenaria serpyllifolia* L. [II: 28]

A<sub>5</sub> Kastamonu: Tosya; Dedem Da., *P. nigra* forest, 1200-1400 m., 17. 6. 1976, *Kılınç* 2005.

*Stellaria media* (L.) Vill. subsp. *media* [II: 69]

A<sub>5</sub> Kastamonu: Tosya; Ahlat Da., *A. bornmuelleriana* forest, 1500–1700 m., 4. 7. 1976, *Kılınç* 5058.

*Petrorhagia alpina* (Habl.) Ball et Heywood subsp. *alpina* [II:133]

A<sub>5</sub> Çorum: İskilip; above Sorgun village, *A. bornmuelleriana* forest, 1800 m., 17. 7. 1976, *Kılınç* 5095.

#### ILLECEBRACEAE

*Scleranthus uncinatus* Schur [II: 265]

A<sub>5</sub> Kastamonu: Tosya; Ortahca village, Acıkavak Yaylası, 1600 m., 1. 6. 1976, *Kılınç* 6533.

#### POLYGONACEAE

*Polygonum bistorta* L. subsp. *bistorta* [II: 272]

A<sub>5</sub> Çorum: Kargı; Köş Da., *P. sylvestris* forest, meadows, 1600–1700 m., 15. 7. 1976. *Kılınç* 3930.

*Rumex scutatus* L. [II: 284]

A<sub>5</sub> Çorum: İskilip; around Karagöz village, 800–1100 m., 16. 6. 1975, *Kılınç* 3353

#### CHENOPODIACEAE

*Chenopodium botrys* L. [II: 300]

A<sub>5</sub> Kastamonu: Tosya; Devrez valley roadsides, 350–500 m., 14. 9. 1976 *Kılınç* 3934.

*Ch. foliosum* (Moench) Aschers. [II: 301]

A<sub>5</sub> Kastamonu: Tosya; Çukurhan, *P. sylvestris* forest, plantation area, 1600 m., 12. 9. 1976, *Kılınç* 3935.

#### GUTTIFERAE

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

A<sub>5</sub> Çorum: Between İskilip and Karagöz village, 800–1000 m., 16. 6. 1975, *Kılınç* 3141. A<sub>5</sub> Kastamonu: Tosya, Yağcılar village, Karanlık Dere, 1300–1500 m., 18. 7. 1976, *Kılınç* 5022.

## ACERACEAE

*Acer tataricum* L. [II: 510]

A<sub>5</sub> Çorum: İskilip; around Karagöz village, 1100 m., 16. 6. 1975, *Kılınç* 1025.

## ANACARDIACEAE

*Pistacia terebinthus* L. subsp. *palaestina* (Boiss.) Engler [II: 548]

A<sub>5</sub> Kastamonu: Between Tosya and Kargı, Devrez valley, 350–500 m., 12. 6. 1975, *Kılınç* 1030 and 1031.

## LEGUMINOSAE

*Chamaecytisus hirsitus* (L.) Link [III: 17]

A<sub>5</sub> Kastamonu: Tosya; Dedem Da., Dereseki region, *P. nigra* forest, 1400 m., 31.5.1976, *Kılınç* 6262.

*Genista lydia* Boiss. var. *lydia* [III: 26]

A<sub>5</sub> Kastamonu: Tosya; between Yenidoğan and Göközü vil-  
lages, *P. nigra* forest, 1500 m., 13. 6. 1975. *Kılınç* 3242.

*Astragalus coadunatus* Hub.–Mor. et Chamb. [III: 72]

A<sub>5</sub> Kastamonu: Tosya; Yağcılar village, Karanlık Dere, *A. born-  
muelleriana* forest, 1700–1800 m., 12. 6. 1975, *Kılınç* 3227. Det.  
A. Hub. –Mor.

*A. glycyphyllos* L. subsp. *glycyplloides* (DC.) Matthews [III: 96]

A<sub>5</sub> Kastamonu: Tosya; Seki Deresi, 1100 m., 4. 7. 1976, *Kılınç*  
6251.

*A. leporinus* Boiss. var. *leporinus* [III: 112]

A<sub>5</sub> Çorum: Between İskilip and Karagöz village, 800–1100 m.,  
m., 16. 6. 1975. *Kılınç* 3222.

*A. plumosus* Willd. var. *plumosus* [III: 136]

A<sub>5</sub> Kastamonu: Tosya; between Y. Dikmen and Kilkuyu, *P.  
nigra* forest, 1500 m., 12. 6. 1975, *Kılınç* 3270.

*A. anthylloides* Lam. [III: 179]

A<sub>5</sub> Kastamonu: Tosya, between Y. Dikmen and Yağcılar villages,  
in the *Q. pubescens* shrubs, 1200 m., 31. 5. 1976, *Kılınç* 6314.

*A. lydius* Boiss. [III: 200]

A<sub>5</sub> Kastamonu: Tosya; between Yenidoğan and Gökömuz villages, *P. nigra* forest, 1500 m., 13. 6. 1975, *Kılınç* 3273.

*A. lycius* Boiss. [III: 206]

A<sub>5</sub> Çorum: Osmancık; around Ardıç village, *P. nigra* forest, 1400 m., 15. 6. 1975, *Kılınç* 3283, Det. A. Hub. –Mor.

*A. campylosema* Boiss. subsp. *campylosema* [III: 237]

A<sub>5</sub> Kastamonu: Tosya; Seki Deresi, *P. nigra* forest, 1400 m., 18. 6. 1975. *Kılınç* 3219.

*A. cinereus* Willd. [III: 239]

A<sub>5</sub> Kastamonu: Tosya; Yağcılar village, Karanlık Dere, *A. bornmuelleriana* forest, 1800 m., 12. 6. 1975, *Kılınç* 3229

*Glycyrrhiza galabra* L. var. *glabra* [III: 261]

A<sub>5</sub> Çorum: Kargı; between Beygircioğlu and Mandıra villages, banks of *Oryza* fields, 350 m., 30. 5. 1976, *Kılınç* 6255.

*Vicia cracca* L. subsp. *tenuifolia* (Roth) Gaudin [III: 283]

A<sub>5</sub> Kastamonu: Tosya; Karaköy, Orta Yayla, *P. nigra* forest, 1200 m., 13. 6. 1975. *Kılınç* 3213.

*V. tetrasperma* (L.) Schreb. [III: 300]

A<sub>5</sub> Kastamonu: Between Tosya and Kilkuyu, in the *Q. pubescens* shrubs, 850 m., 2. 7. 1976, *Kılınç* 6302.

*V. lathyroides* L. [III: 317]

A<sub>5</sub> Çorum: Osmancık; around Yeniköy, in the *Q. pubescens* shrubs, 1050 m., 17. 5. 1975, *Kılınç* 3278. Det. A. Hub. –Mor.

*Trifolium hybridum* L. var. *hybridum* [III: 395]

A<sub>5</sub> Kastamonu: Tosya; around Kilkuyu village, meadows, 1500 m., 2. 7. 1976. *Kılınç* 6240.

*T. aureum* Poll. [III: 402]

A<sub>5</sub> Çorum: İskilip; above Sorgun village, *A. bornmuelleriana* forest, 1800 m., 17. 7. 1976, *Kılınç* 6178.

*T. pratense* L. var. *sativum* [III: 416]

A<sub>5</sub> Kastamonu: Tosya; Dağçatağı village, Çukurhan region, cultivated area, 1600 m., 2. 7. 1976, *Kılınç* 6230.

*T. medium* L. var. *medium* [III: 418]

A<sub>5</sub> Kastamonu: Tosya; between Karaköy Yayası and Çukurhan, *P. nigra* forest, 1400 m., 29. 6. 1976, *Kılınç* 6207. and Seki Deresi, *P. nigra* and *P. sylvestris* forests, 1400-1600 m., 18. 6. 1975, *Kılınç* 3188.

*T. caudatum* Boiss. [III: 421]

A<sub>5</sub> Kastamonu: Tosya; Çukurhan, Büyük Yazı, meadows, 1800 m., 12. 9. 1976, *Kılınç* 6242.

*Medicago rigidula* (L.) All. var. *cinerascens* (Jord.) Rouy [III: 504]

A<sub>5</sub> Çorum: Between İskilip and Karagöz village, 800-1100 m., 16. 6. 1975, *Kılınç* 3172.

*Onobrychis argyrea* Boiss. subsp. *argyrea* [III: 581.]

A<sub>5</sub> Çorum: Between İskilip and Karagöz village, 800-900 m., 17. 6. 1975, *Kılınç* 3252.

## ROSACEAE

*Amygdalus orientalis* Miller [IV: 24]

A<sub>5</sub> Çorum: Around İskilip, 800 m., 18. 5. 1975, *Kılınç* 3401.

*Rubus discolor* Wiehe et Nees [IV: 34]

A<sub>5</sub> Çorum: Kargı; Köş Da., *P. nigra* forest, 1300 m., 14. 6. 1975, *Kılınç* 3384.

*Potentilla argentea* L. [IV: 49]

A<sub>5</sub> Çorum: Bayat; Kuru Da., plantation area, 1800, m., 16. 7. 1976, *Kılınç* 6373.

*Alchemilla heterophylla* Rothm. [IV: 93]

A<sub>5</sub> Kastamonu: Tosya; Yağcılar village, Karanlık Dere, meadows, 1500-1800 m., 12. 6. 1975, *Kılınç* 3413.

*Rosa hemisphaerica* J. Herrm. [IV: 114]

A<sub>5</sub> Çorum: Bayat; banks of Kunduzlu Çayı, 850 m., 18. 5. 1975, *Kılınç* 3423.

*R. montana* Chaix subsp. *woronowii* (Lonacz.) Ö. Nilsson [IV: 123]

A<sub>5</sub> Kastamonu: Tosya; between Göközü and Kilkuyu villages, *P. sylvestris* forest, 1700 m., 13. 6. 1975, *Kılınç* 3415.

*Cydonia oblonga* Miller [IV: 157]

A<sub>5</sub> Çorum: Osmaniye; around Ardiç village, *Carpinus betulus* forest, 1200 m., 16. 5. 1975, *Kılınç* 3382.

*Pyrus communis* L. subsp. *communis* [IV: 163]

A<sub>5</sub> Kastamonu: Tosya, around Kızılca village, 1200 m., 11. 9. 1976, *Kılınç* 6774.

*P. amygdaliformis* Vill. var. *lanceolata* Diap. [IV: 164].

A<sub>5</sub> Kastamonu: Tosya; around Kızılca village, 1200 m., 11.9.1976, *Kılınç* 6773.

#### UMBELLIFERAE

*Scandix australis* L. subsp. *grandiflora* (L.) Thell. [IV: 329]

A<sub>5</sub> Çorum: Osmaniye; between Dodurga and Yeniköy, roadsides, 900 m., 17. 5. 1975, *Kılınç* 3539.

*Coriandrum sativum* L. [IV: 331]

A<sub>5</sub> Çorum: Kargı; between Hacıhamza and Abdullah Yaylası, in the *Q. pubescens* shrubs, 700 m., 2. 6. 1976, *Kılınç* 6022.

*Pimpinella anthriscoides* Boiss. var. *anthriscoides* [IV: 363]

A<sub>5</sub> Kastamonu: Tosya; Yağcılar village, Karanlık Dere, 1500 m., 12. 6. 1975, *Kılınç* 3543.

*Falcaria vulgaris* Bernh. [IV: 427]

A<sub>5</sub> Çorum: Kargı; Abdullah Yaylası, *P. nigra* forest, 1200 m., 15. 7. 1976, *Kılınç* 6028.

*Lacer trilobum* (L.) Borkh. [IV: 513]

A<sub>5</sub> Kastamonu: Tosya; Seki Deresi, 1100 m., 4. 7. 1976, *Kılınç* 6027.

#### VALERIANACEAE

*Valerianella orientalis* (Schlech.) Boiss. et Bal. [IV: 568]

A<sub>5</sub> Kastamonu: Tosya; Çukurhan, Kavağın Dere, *P. nigra* forest, 1400 m., 14. 5. 1975, *Kılınç* 3547.

## MORINACEAE

*Morina persica* L. [IV: 582 ]

A<sub>5</sub> Kastamonu: Tosya; Yağcılar village, Karanlık Dere, 1300 m., 31. 5. 1976, *Kılınç* 6785.

## COMPOSITAE

*Inula heterolepis* Boiss. [V: 69 ]

A<sub>5</sub> Kastamonu: Tosya; around Yağcılar village, 1200 m., 31. 5. 1976, *Kılınç* 6783,

*Doronicum bithynicum* J. R. Edmondson subsp. *sparsipilosum* J. R. Edmondson [V: 145 ]

A<sub>5</sub> Çorum: Krgı; Kös Da., *P. sylvestris* forest, meadows. 1650 m., 15. 7. 1976, *Kılınç* 6092.

*Anthemis cretica* L. subsp. *pontica* (Willd.) Grierson [V: 185]

A<sub>5</sub> Kastamonu: Tosya; Ortahca village, above Belen Mahallesi, 1000 m., 14. 5. 1975, *Kılınç* 3002.

*Anthemis austriaca* Jacq. [V: 217 ]

A<sub>5</sub> Çorum: Osmancık; around Dodurga, roadsides, 800 m., 17. 5. 1975. *Kılınç* 2095.

*Achillea setacea* Waldst. et. Kit. [V: 245 ]

A<sub>5</sub> Çorum: İskilip; around Yavuköy, roadsides, 800, m., 16. 6. 1975, *Kılınç* 3016.

*Tripleurospermum elongatum* (Fisch. et Mey.) Bornm. [V: 302]

A<sub>5</sub> Kastamonu: Tosya; Kös Da., Acıkavak Yaylası, 1650 m., 1. 6. 1976, *Kılınç* 6081.

*T. parviflorum* (Willd.) Pobed. [V: 302 ]

A<sub>5</sub> Çorum: Krgı; between Hacıhamza and Osmancık, 450-500 m., 16. 5. 1976, *Kılınç* 3021, Det. A. Hub. -Mor.

*Centaurea calcitrapa* L. subsp. *calcitrapa* [V: 545 ]

A<sub>5</sub> Çorum: Between Osmancık and Hacıhamza, roadsides, 400 m., 14. 9. 1976. *Kılınç* 6111.

*Echinops ritro* L. [V: 610]

A<sub>5</sub> Kastamonu: Tosya; around Murat village, 1100 m., 11. 9. 1976, *Kılınç* 6110.

*Cichorium pumilum* Jacq. [V: 628]

A<sub>5</sub> Kastamonu: Tosya; Çukurhan, *P. sylvestris* forest, 1500 m., 12. 6. 1976, *Kılınç* 6108.

*Tragopogon longirostris* Boiss. ex Schultz var. *longirostris* [V: 659]

A<sub>5</sub> Çorum: Between İskilip and Bayat, 800 m., 18. 5. 1975, *Kılınç* 2078.

*Hieracium medianiforme* (Litw. et Zahn.) Juxip [V: 709]

A<sub>5</sub> Çorum: Kargı; Kös Da., *P. sylvestris* forest, 1500-1800 m., 14. 6. 1975, *Kılınç* 2071, Det. A. G. Hub. -Mor.

*Crepis reuterane* Boiss. subsp. *reuterane* [V: 827]

A<sub>5</sub> Kastamonu: Tosya; Seki Deresi, *P. nigra* forest, plantation area, 1400 m., 18. 6. 1975, *Kılınç* 2049.

*C. reuterane* Boiss. subsp. *eigiana* Babç. [V: 827]

A<sub>5</sub> Kastamonu: Tosya; between Ortahca Yaylası and Çukurhan, *P. nigra* forest, plantation area, 1450 m., 13. 6. 1975, *Kılınç* 2050.

#### ÖZET

Bu bitki listesi, İç Anadolu-Karadeniz geçiş bölgesinde Kastamonu ve Çorum il sınırları içinde kalan bölge için yeni olan 96 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 A<sub>5</sub> karesi için yenidir ve Floranın ilk beş ciltinde çıkan familyalara aittir.

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