

## TWO NEW TAXA FOR FLORA OF TURKEY

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**ABSTRACT:** *In this paper two new taxa for Flora of Turkey are given:* *Papaver monanthum* (*Papaveraceae*), *Malus sylvestris subsp. sylvestris* (*Rosaceae*).

*Key Words:* *Papaver, Malus*

## TÜRKİYE FLORASI İÇİN İKİ YENİ TAKSON

**ÖZET:** *Bu makalede Türkiye Florası için 2 yeni takson,* *Papaver monanthum* (*Papaveraceae*), *Malus sylvestris subsp. sylvestris* (*Rosaceae*) *verilmiştir.*

*Anahtar Kelimeler:* *Papaver, Malus*

## INTRODUCTION

The taxa presented in this paper were collected between 1982-1986 during our floristic study in provinces of Kars, Erzurum and Artvin in Eastern Anatolia. These taxa were checked from related references (1-7). The specimens are kept in the herbarium of Hacettepe University, at the Department of Biology (HUB).

## RESULTS

### Papaveraceae

*Papaver monanthum* Trautv. Fl. Cauc. crit. HI, 4(1905). A species new for Turkey is easily distinguished from *P. oreophilum* Pupr. and *P. latentium* Koch by its scapose stem, more stigma rays (6-7) and smaller capsule (12-15 X 5-6 mm) (Figure 1, Table 1),(1-4).

Habitat; Stony places in alpine zone rather rare.

Flowering time: June-July.

Type: Described from Shombobel Mountain in Askhaltsikne region (In Leningrad).

A9 Artvin: Ardanuç, Lahşet Fields to Kurdevan Mountain, c. 2800 m, 29.7.1982, De-mirkuş 1642.



Figure 1. *Papaver monanthum* a scapose stem and leaves b. petal c. capsule.

Table 1. Comparison of Diagnostic Characters of *P. monanthum* With *P. oreophilum* and *P. lateritium*

Species	<i>P. monanthum</i>	<i>P. oreophilum</i>	<i>P. lateritium</i>
Stem	scapose	stem leafy	stem leafy
Stigma rays	6-7	5-7	5-6
Capsule	12-15 X 5-6 mm	15-17 X 6-7 mm	15-25 X 10-12 mm

A9 Artvin: Ardanuç, Kurdevan Mountain, c. 2500 m, 8.8.1984, Demirkuş 2481.

Geographical Distribution: Caucasus, N. E. Turkey.

#### Rosaceae

*Malus sylvestris* Mill, subsp. *sylvestris* Gard. Diet. ed. 8. No. 1 (1768).

A new subspecies for the Flora of Turkey. Differs from *M. sylvestris* subsp. *orientalis* (A. Uglitzkich) Browicz, by its glabrous mature leaves and rounded leaf base (4-7). Differs from *M. sylvestris* subsp. *mitts* (Wallr.) Mansf. by its smaller pome length (Figure 2, Table 2).

Habitat: Deciduous and mixed forests.

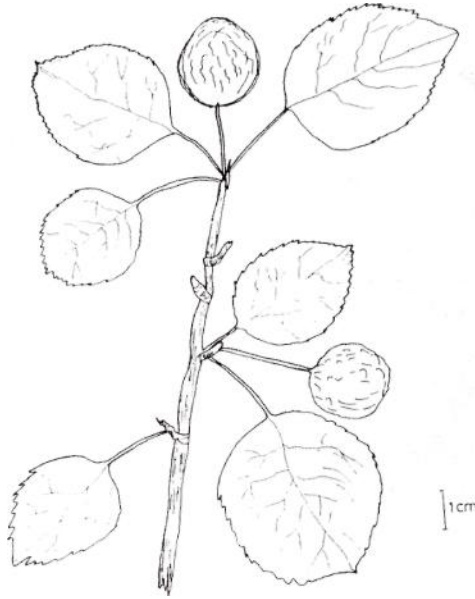


Figure 2. *Malus sylvestris* subsp. *sylvestris* stem, leaves and pome (fruit).

Table 2. Comparison of Diagnostic Characters of *M. sylvestris* subsp. *sylvestris* With subsp. *orientalis* and subsp. *mitis*

Subspecies	subsp. <i>sylvestris</i>	subsp. <i>orientalis</i>	subsp. <i>mitis</i>
Stem	dirty white	dark	dark
Mature leaves	glabrous	hairy	hairy
Leaf base	rounded	cuneat	cuneat to rounded
Pome length	2-3 cm	2-3 cm	5-15 cm
Pedicels	equal or longer than pome and glabrous	equal or shorter than pome and hairy	shorter than pome and hairy glabrous

Flowering time: May-June.

Type: Unknown described from England.

A9 Kars: Posof, Yutbekler Village Forest, 1100-1600 m, 27.9.1986, Demirkuş, 3850.

Geographical Distribution: Wide spread in Europe, N. E Turkey

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