

A New Record for Turkey: *Euclidium tenuissimum* (Pall.) B.Fedtsch. (*Brassicaceae*)

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Abstract: *Euclidium tenuissimum* (Pall.) B.Fedtsch. (*Brassicaceae*) is recorded for the first time (B9 Van) for the flora of Turkey. Some variations of the species bearing differences from its known description are given.

Key Words: *Euclidium*, new record, Turkey, *Cruciferae*

Türkiye İçin Yeni Bir Kayıt: *Euclidium tenuissimum* (Pall.) B.Fedtsch. (*Brassicaceae*)

Özet: *Euclidium tenuissimum* (Pall.) B.Fedtsch. (*Brassicaceae*) türü Türkiye'den (B9 Van) ilk defa kaydedilmiştir. Türün bilinen özelliklerinden farklılık gösteren bazı varyasyonları verilmiştir.

Anahtar Sözcükler: *Euclidium*, yeni kayıt, Türkiye, *Cruciferae*

Introduction

During floristic investigations, the authors collected some interesting *Brassicaceae* specimens from Başet Mountain (Gürpınar, Van). Among them was a specimen which could not be identified using the account in the Flora of Turkey (Hedge, 1965; Davis et al., 1988; Güner et al., 2000). Eventually, using the generic account in the Flora Iranica (Hedge, 1968) and Flora of the USSR (Vasil, 1970), the specimens were identified as *Euclidium tenuissimum* (Pall.) B.Fedtsch. It was a new record for the Flora of Turkey. The record is not surprising since the species also grows in nearby Yerevan (Transcaucasus) and Azerbaijan (Iran).

Euclidium tenuissimum (Pall.) B.Fedtsch. Bull. Herb. Boiss. 2, 4 : 915 (1904). Syn.: *Vella tenuissima* Pall., Reise 5: 506 (1793). *Bunias tatarica* Willd., Spec. Plant. 3: 43 (1800). *Euclidium tataricum* (Willd.) DC., Rej. Vej. Syst. Nat. 2: 422 (1821). *Litwinowina tenuissima* (Pall.) Woron. ex Pavlov, Fl. Centr. Kazakhstana 2: 302 (1935); Busch in Fl. URSS. 8: 327 (1939).

Type: Inderia et Jaikum australe, Pall.

Annual. Stem slender, erect usually branching from above or middle, 10-20 cm high, covered mainly in lower part with long, rigid, spreading hairs. Basal and lower cauline leaves linear-lanceolate, entire or sinuate-dentate, middle and the upper leaves linear-lanceolate, entire. Raceme 4-15 cm long, 10-40-flowered, long rigid spreading and short glandular hairs. Flowers whitish. Sepals oblong, 2-2.5 mm, with often 1-7 rigid spreading hairs at apex. Petals 3-5 mm, longer than sepals, linear-spathulate, dilated at apex. Siliqua 2-2.5 mm with 3 mm long straight beak, long spreading eglandular and short thick glandular hairs; mature fruits with small blunt ribs. Seeds rounded, flattened. Fl. and Fr. May. Steppe, mountain slopes, 2500-2800 m.

Turkey, East Anatolia, B9 Van, Gürpınar, south slopes of Başet Mountain and around Koçgüden village, 2500-2800 m, 22 v 2001, 27 v 2001 M.Ünal (MÜ 4780, MÜ 4800).

The herbarium specimens are deposited at VANF and GAZI.

Discussion

Euclidium tenuissimum, was not recorded so far in Turkey, with a distribution in Yerevan (Transcaucasus) and Azerbaijan (Iran) in parts adjacent to eastern Turkey. For that reason its distribution in east of Turkey is not surprising. This case is explained in the Flora of Turkey (Hedge, 1965).

E. tenuissimum differs from *E. syriacum* (L.) R.Br. according to the features indicated below:

The number of species of *Euclidium* R.Br. in Turkey (Hedge, 1965; Davis et al., 1988; Güner et al., 2000) reaches two with the addition of *Euclidium tenuissimum*. The key to these species is provided as follows:

Characters	<i>E. syriacum</i>	<i>E. tenuissimum</i>
Indumentum	branched and simple eglandular hairs	simple, long, eglandular hairs and short glandular hairs
Siliques	3 x 1.5-2 mm, including the beak which is curved away from stem	5.5 x 2-2.5 mm, including the straight beak
Stem (included inflorescence)	15-40 cm, usually much branched at the base	10-20 cm, branched from above or middle
Flower (length)	1-1.5 mm	2.5-3.5 (-5) mm
Sepal (length)	0.8-1 mm	2-2.5 mm
Petal (length)	1-1.5 mm	2.5-3.5 (-5) mm

In the Flora of the USSR (Vasil, 1970) *E. tenuissimum* has only eglandular rigid spreading hairs and in the Flora of Iran (Hedge, 1968) and Russia its fruits are glabrous. However, our specimens have both long rigid spreading eglandular and short thick glandular hairs in parts of inflorescence and fruits. While the length of our specimens is 10-20 cm, it is 20-50 cm in the Flora of Iran (Hedge, 1968).

1- Stem or leaves with branched and simple hairy; flowers 1-1.5 mm; fruit beak persistent, curved away from stem, 2 mm long, branched hairy.

E. syriacum

1- Stem or leaves with simple hair only; flowers 2.5-5 mm; fruit with articulated, deciduous, 3 mm long and not curved beak, glabrous or simple hairy.

E. tenuissimum

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