

Linum hirsutum subsp. *platyphyllum*, stat. nov. (Linaceae)

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Linum hirsutum L. subsp. *platyphyllum* (P.H. Davis) Yılmaz & Kaynak stat. nov. is proposed in the Linaceae. The taxon is a local endemic in northwest Anatolia. There are now five subspecies of *L. hirsutum* in Turkey.

Key words: Linaceae, *Linum hirsutum*, nomenclature, taxonomy

Linum hirsutum belongs in the section *Dasylinum*. It is a highly polymorphic species (Davis 1957, 1967) and represented by five subspecific taxa in Turkey. All of them, except *L. hirsutum* subsp. *byzantinum*, are endemic to Anatolia. The distributions of these taxa overlap in the west and central Anatolia, but they grow in different habitats.

The posture of stem (erect, ascending, prostrate), leaf shape, presence or absence of stalked glands at margins of median cauline leaves, the number of flowers in inflorescence and flower colour are used to distinguish the subspecific taxa within *L. hirsutum* (Davis 1957).

During a taxonomical revision of *Linum* in Turkey, we have collected *L. hirsutum* subsp. *anatolicum* var. *anatolicum* and *L. hirsutum* subsp. *anatolicum* var. *platyphyllum* in northwest and central Anatolia. These materials were compared with the specimens in ANK and BULU. After careful examination it was realized that these two varieties have so many and consistent morphological differences that we think *L. hirsutum* subsp. *anatolicum* var. *platyphyllum* should be recognized as a subspecies.

***Linum hirsutum* L. subsp. *platyphyllum*
(P.H. Davis) Yılmaz & Kaynak, stat. nov.**

SYNONYM: *L. hirsutum* L. subsp. *anatolicum* (Boiss.) Hayek var. *platyphyllum* P.H. Davis, Notes Royal Bot. Garden Edinburgh 22: 142, 1957. — TYPE: Turkey. [A2 Bursa] Keschisch Dağ (Uludağ), 200 m, 1889 Bornmüller 4216 (holotype K).

Linum hirsutum subsp. *platyphyllum* is a robust perennial and sometimes suffrutescent at base with sterile shoots. It is morphologically distinct from *L. hirsutum* subsp. *anatolicum* by its taller habit and erect flowering stems, and oblong–spathulate, semiamplexicaule and larger cauline leaves with 3–5 nerves (Table 1).

Linum hirsutum subsp. *platyphyllum* belongs in the Mediterranean element and is a local endemic to northwest Anatolia, confined to Bursa area, chiefly north side of Uludağ mountain. It grows in rocky places and fallow fields between 150–900 m altitude. *Linum hirsutum* subsp. *anatolicum*, in comparison, belongs in the Irano-Turanian element and is distributed mainly in central Anatolia and grows on calcareous steppe at 200–2200 m above sea level.

Fig. 1. Distribution of *Linum hirsutum* subsp. *platyphyllum* (▲) and *L. hirsutum* subsp. *anatolicum* (■) in Turkey.

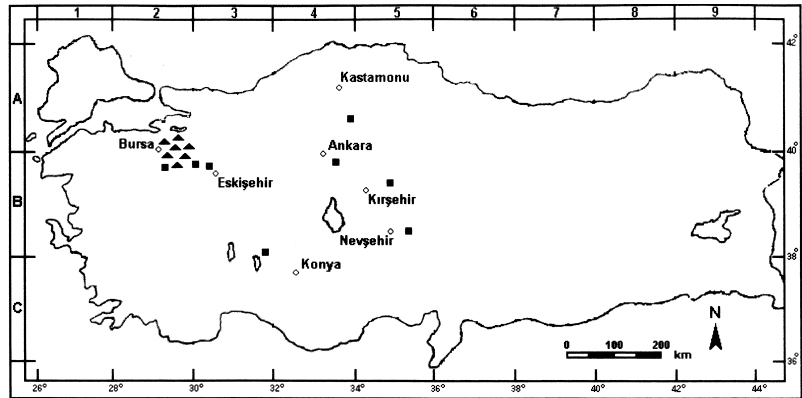


Table 1. Morphological comparison of *Linum hirsutum* subsp. *anatolicum* and *L. hirsutum* subsp. *platyphyllum*.

	subsp. <i>anatolicum</i>	subsp. <i>platyphyllum</i>
Plant height	20–50 cm	35–75 cm
Stems	ascending	erect or slightly ascending
Cauline leaves	oblong-linear 6–14 × 2–5 mm 1–3 nerved	oblong–spathulate 14–27 × 5–12 mm 3–5 nerved
Sepals	5.5–10 × 2 mm	6–13 × 2–3.5 mm
Petals	26–32 × 12–14 mm	21–27 × 8–12 mm
Anthers	0.75–1 mm long	2 mm long
Seeds	3 × 1.5 mm	1.5–2 × 1.5 mm

As we have observed in the field, the geographical distributions of these two taxa overlap in southern part of Bursa, but they grow in different localities (Fig. 1).

SELECTED SPECIMENS EXAMINED. — *Linum hirsutum* subsp. *anatolicum*. **Turkey.** A2 Bursa: Keles, 1080 m, *G. Kaynak*, *Ö. Yılmaz* 11491 (BULU). A4 Kastamonu: Tosya, Ortakça köyü, 700 m, *M. Kılınç* 3918 (ANK). B3 Konya: Akşehir, Sultan Dağ'ları, Kızıltepe, 2200 m, *Y. Akman* 13997 (ANK).

B3 Eskişehir: Bozüyük–Eskişehir, Bozüyük'ün 19 km doğusu, 890 m, *R. Çetlik* 3512 (ANK). B4 Ankara: Beytepe, Maslak Vadisi, 1000 m, *S. Erik* 1169 (ANK). B5 Kırşehir: Mucur–Seyfegölü, *P. H. Davis* 21811 (ANK). B5 Nevşehir: Avanos, Çavuşin köyü sit alanı, 1089 m, *Ö. Yılmaz* 18106B (BULU). — *Linum hirsutum* subsp. *platyphyllum*. **Turkey.** A2 Bursa: Çekirge, *Gassner* 577 (ANK). Çekirge, 300 m, *Ö. Yılmaz* 11998 (BULU). Kestel, Derekızık–Osmaniye, 2. km, *Ö. Yılmaz* 12250 (BULU). Katırlı Dağı, Gürsu–Dışkaya, 5. km, 450 m, *G. Kaynak*, *R. Günay*, *Ö. Yılmaz*, *E. Erdoğan* 15906 (BULU). Kestel–İnegöl, 5 km, 95 m, *Ö. Yılmaz* 19912 (BULU). İnegöl–Domanıç, Domanıç yol ayrımından 5 km sonra, 350 m, *Ö. Yılmaz* 19913 (BULU). B2 Bilecik: Pazaryeri–Bilecik, Bilecik–Eskişehir yol ayrımı, 699 m, *Ö. Yılmaz* 19948 (BULU). B2 Bursa: Tahtaköprü, 580 m, *Ö. Yılmaz* 19914 (BULU). Keles, Denizler–Keles, 3 km, 640 m, *Ö. Yılmaz* 19927 (BULU).

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