A New Record for the Flora of Turkey: *Salvia macrosiphon* Boiss. (Labiatae)

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**Abstract:** *Salvia macrosiphon* Boiss. is reported for the first time from Turkey. This new record is confined to Çınar in Diyarbakır. The diagnostic morphological characters of *S. spinosa* L. are discussed. Notes are presented on its ecology and phenology. A distribution map of this new record is also given.

**Key Words:** Labiatae, *Salvia macrosiphon*, New Record, Turkey

**Türkiye Florası İçin Yeni Bir Tür: Salvia macrosiphon** Boiss. (Labiatae)


**Anahtar Sözcükler:** Labiatae, *Salvia macrosiphon*, Yeni Kayıt, Türkiye

**Introduction**

The first revision of *Salvia* L. in Turkey was made by Hedge (1982a) in *Flora of Turkey and the East Aegean Islands, volume 7*, in which he recognized 86 species, and 1 hybrid and 1 doubtful species. Since the publication of the flora, 1 new record and 6 more new species have been described from Turkey (Huber-Morath, 1982; Vural & Adigüzel, 1996; Dönmez, 2001; Hamzaoglu et al., 2005; İlçim et al., 2009; Celep and Doğan, 2009; Celep et al., 2009).

Since 2005, as part of a revisional study of the genus *Salvia* in Turkey, the authors have carried out extensive field studies and collected a large number of specimens. In addition, population size, and phenological and ecological properties were observed in the field (Davis & Heywood, 1973). In 2007, during a field trip to southeast Anatolia (C8 Diyarbakır, C8 sensu Davis, 1965), specimens from 2 unusual populations of *Salvia* were collected from the same locality by Mr. A. Kahraman. Upon closer examination and consultation with the *Flora of Turkey* (Hedge, 1982a) and other relevant floras, such as *Flora Orientalis* (Boissier, 1879), *Flora of Syria, Palestine and Sinai* (Post, 1933), *Flora Iranica* (Hedge, 1982b), *Flora of the USSR* (Pobedimova, 1954), and *Flora Europaea* (Hedge, 1972), they were identified as *S. spinosa* L. and *S. macrosiphon* Boiss. The latter species, known from Iraq, Iran, Pakistan, Afghanistan, and Transcaucasia, has not been previously recorded from Turkey. The specimens of this new record were compared to material housed at various European (E, BM, and K) and Turkish herbaria (ANK, AEF, GAZI, ISTE, ISTF, and HUB). All the plant name authors are given according to Brummit and Powell (1992).

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Results and Discussion

_Salvia macrosiphon_ Boiss. Diagn. Pl. Or. Nov. Ser. 1, 5: 11 (1844) (Figure 1).

Syn.: _S. kotschiyi_ Boiss., l.c.: 46 (1846).

_S. macrosiphon var. cabulica_ Benth. in D.C., Prodr. 12: 282 (1848).

_S. macrosiphon var. kotschiyi_ (Boiss) Boiss. Fl. Or. 4: 615 (1879).


![Image of Salvia macrosiphon](Figure 1. View of _Salvia macrosiphon_.)

_new Locality: C8 Diyarbakır: Mardin to Diyarbakır, 14 km before Çınar, 759 m, field edges, lat 37°39′16″ N, long 40°28′21″ E, 24.05.2007, A. Kahraman 1382 (Figure 2)._

_S. macrosiphon var. brachycalyxina_ Bornm., l.c.


Icon.: Tab. 479, 480, 586 in Flora Iranica.

Type: Persia australi inter Fasa et Schiraz (_Aucher-Eloy_ 5197, holotype G)

Perennial herbs with a woody rootstock at the base. Stems erect, 15-45 (-90) cm, branched above, scarcely eglandular pilose to tomentose below, densely glandular pilose above. Leaves simple, ± thin-textured, elliptical to ovate-oblong, 4-16 (-22) × 1.5-9.5 (-11) cm, eglandular tomentose, margins irregular, serrate to erose. Petiole 2-10 cm. Inflorescence panicle, densely glandular pilose. Verticillasters 2-6-flowered, clearly distant, internodes 2-2.5 cm. Bracts broadly ovate, 10-27 × 7-20 mm, acuminate, eglandular pilose; bracteoles absent. Pedicels 1-3 mm, glandular hairy, rigid, erecto-patent. Calyx tubular, 12-17 mm, up to 22 mm in fruit, 4-5 mm diameter, scarcely expanding in fruit, glandular hirsute with some sessile glands, teeth spiny; upper lip tridentate, less spiny in fruit. Corolla white, 18-35 mm; tube straight below, slightly widening above, 13-25 mm; upper lip falcate, non-squamulate. Stamens 2, staminal connectives clearly longer than filaments; filaments 2-3 mm, fertile anthers hairless, 2-3 mm, upper thecae 10-15 mm. Style glabrous 20-37 mm long, exerted from corolla lips and divided in 2 parts at apex. Nutlets c. 2.8 × 2.3 mm, ovate.

New Locality: C8 Diyarbakır: Mardin to Diyarbakır, 14 km before Çınar, 759 m, field edges, lat 37°39′16″ N, long 40°28′21″ E, 24.05.2007, _A. Kahraman_ 1382 (Figure 2).
Ecology and Phenology

*S. macrosiphon* grows at the edges of fields at an altitude of 759 m in Turkey. The vegetation in this area is formed by herbaceous plants. Flowering occurs in May and fruiting from June. According to the analysis of soil collected from suitable habitats for *S. macrosiphon*, this species generally prefers clayish soils that are slightly alkali (pH 7.86) with low organic content (0.41%). The level of P and K present in the soil was 3.13 and 135.23 ppm, respectively. CaCO$_3$ in the soil was 34.35%.

*S. macrosiphon* is closely related to *S. spinosa*, but it seems to be quite different from it. *S. macrosiphon* differs from *S. spinosa* in that it has less indumentum, is eglandular pilose to tomentose hairy at the lower part of its stem; it has narrower leaves and calyces, less indurate and less spiny fruiting calyces, and a longer corolla tube.

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References


