

TWO NEW RECORDS FOR IRAN: BERGIA AQUATICA AND AMMANNIA VERTICILLATA

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Bergia aquatica Roxb. (*Elatinaceae*) and *Ammannia verticillata* (Ard.) Lam. (*Lythraceae*) are recorded as new plant species for the flora of Iran. These plants have been collected from West of Khorramabad in Luristan Province. Geographical distribution of the species are discussed. *Bergia aquatica* is compared with *Bergia ammannioides* Heyen. ex Roth. and *Ammannia verticillata* (Ard.) Lam. is compared with other species of *Ammannia* L. in Iran.

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Key words. *Bergia*, *Ammannia*, Iran, new record.

گزارش دو گونه جدید برای ایران: *Bergia aquatica* و *Ammannia verticillata*
احمد قهرمان و غلام حسن ویسکریمی
دو گونه *Bergia aquatica* و *Ammannia verticillata* برای اولین بار از ایران گزارش
می‌شوند. گونه *Bergia aquatica* با گونه *B. ammannioides* و گونه *A. verticillata* با
دیگر گونه‌های این جنس که در ایران وجود دارند از لحاظ مورفولوژی مقایسه شده،
انتشار گونه‌ها بحث می‌شود.

Introduction

During our researches on the Kuh-e Sefid Region near Khorramabad, two interested species were collected. These plants were identified as *Bergia aquatica* and *Ammannia verticillata*. They have not been previously reported from Iran.

Bergia aquatica Roxb.

Luristan: West of Khorramabad, Veisian & Chegeni rice fields and Kashkan-Gellal riversides in the same area.

This species is distributed in Egypt, India and Talish (USSR).

In Flora Iranica (Rechinger 1966) and Flora of the USSR (Gorshkova 1949) this plant has been said to occur in Lenkoran but, not in Iran. *Bergia aquatica* by its glabrous stem and 8-10 stamens is differed from *B. ammannioides* with hairy stems and 5 stamens.

Ammannia verticillata (Ar.) Lam.

Luristan: West of Khorramabad, Veisian & Chegeni rice fields and Kashkan-Gellal riversides in the same area.

This species is distributed in Southwest

of Asia & Southeast of the former USSR.

In Flora Iranica it is said to occur in Kurdistan (Iraq), and so far has not been found in Iran. *Ammannia verticillata* by its very short style (<0.5 mm long) and sessile flowers, differs from *A. auriculata* and *A. multiflora*. Also by its papillose hypanthium and remarkable epicalyx differs from *A. baccifera* with glabrous hypanthium and reduced epicalyx.

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References

- Gorshkova S. G. 1949: Elatinaceae in Flora of the USSR no. 15. - Moskva & Leningrad.
- Rechinger, K.H. 1966: Elatinaceae in Flora Iranica no. 16. - Graz.
- Rechinger, K. H. 1967: Lythraceae in Flora Iranica no. 51. - Graz.

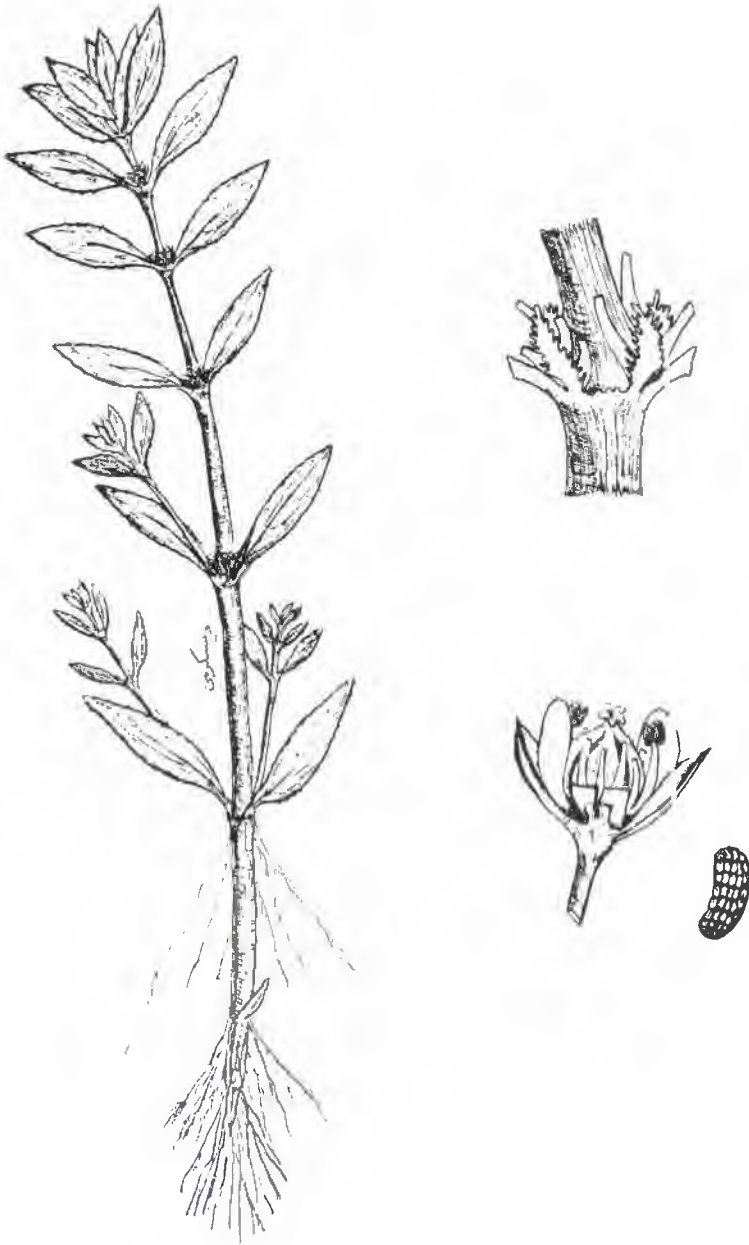


Fig. 1. *Bergia aquatica*. -1. habit (x0.8); 2. flower (x10); 3. seed (x26); 4. stipules (x5).



Fig. 2. *Ammania verticillata* (x0.74); hypanthium (x7).