

## گونه اسکورزونرا اینسیزا از تیره کاسنیان، به عنوان گزارشی جدید از شمال غرب ایران

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**چکیده.** *Scorzonera incisa* که گیاهی انحصاری ترکیه محسوب می‌شده است، از استان آذربایجان غربی در شمال غرب ایران جمع‌آوری گردیده و برای اولین بار از کشور گزارش می‌شود؛ این گونه بسیار شبیه به *Scorzonera calyculata* است که در نیمه غربی ایران و شرق عراق پراکنش دارد ولی به دلیل شکل خاص فندقه از آن جدا می‌شود. در این مقاله شرح، تصویر نمونه هرباریومی و نقشه پراکنش این گونه ارائه می‌شود.

**واژه‌های کلیدی.** آذربایجان غربی، تیره مرکبان، رده‌بندی گیاهی، فلور ایران، لاکتوسه

### *Scorzonera incisa* (Asteraceae), as a new record from NW Iran

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**Abstract.** *Scorzonera incisa*, known as an endemic plant to Turkey, has been collected from West Azarbayegan Province, NW. Iran. The species is reported for the first time from the country; it is very similar to *Scorzonera calyculata*, which is distributed in the western half of Iran and east of Iraq. However, with regard to the particular shape of the achenes of *Scorzonera incisa*, this species could be separated from *Scorzonera incisa*. In this paper, the description, the image of the herbarium sample and the distribution map of this species are presented.

**Keywords.** Compositae, Iran's flora, Lactuceae, plant taxonomy, West Azarbayegan

## INTRODUCTION

The author has worked on the project "Flora of Iran (Asteraceae, Lactuceae)" in the herbarium of the Research Institute of Forests and Rangelands (TARI) since 1998. During a scientific excursion in 2003, a new record species of *Scorzonera* L. was collected from West Azarbayejan Mountains, in NW Iran. Since the genus *Scorzonera* was revised by Rechinger (1977) in the "Flora Iranica", two new species (Safavi, 2006a & 2016) and one new variety to the world (Safavi, 2006b) as well as two species as new records (Dyanat-Nejad *et al.* 1998; Safavi, 2004) have been added to the flora of Iran.

## MATERIALS AND METHODS

During the work on the taxonomy of *Lactuceae* tribe in Iran, some specimens of *Scorzonera* were

collected from West Azarbayejan Province in NW Iran and deposited in TARI by the author. After a thorough determination of the specimens, a new record of *Scorzonera* from Iran was recognized. The new record was compared with a large number of specimens belonging to the *Scorzonera* species deposited in the herbaria of TARI and the Iranian Research Institute of Plant Protection (IRAN); it was also compared with the published descriptions of *Scorzonera* species in the flora of Iran and neighboring countries (Chamberlain, 1975; Lipschits, 1964; Rechinger, 1955, 1977; Safavi *et al.* 2013). After a careful consideration, it was concluded that the specimen was a new record for the flora of Iran, belonging to the *Scorzonera incisa* DC.



Fig.1. *Scorzonera incisa* DC. (Safavi & Nikchehreh 86132, TARI).



Fig. 2. *Scorzonera incisa* DC. Achene & Capitule, (Safavi & Nikchehreh 86132, TARI)

## RESULTS

### New Record to Iran

*Scorzonera incisa* DC. Iran. West Azarbayejan: Makou, Chaldoran to Khoy, Mahlamlou, 4 Km on the road from Navar to Yekmaleh, N: 38° 54' 09"; E: 44° 14' 09", 2451m., 28 Jun 2003, Rocky slopes, Safavi & Nikchehreh 86132 (TARI) (Figs. 1 & 2).

Erect caulescent perennial 20-40 cm; rootstock cylindrical. Basal leaves dentate to pinnatifid entire, 10-23×2.4-8 cm, stem leaves at most half size of basal leaves. Capitula 1-2-(4) (-many) per stem, (35-) 40-50 mm long. Inner phyllaries 25 mm. Flowers

yellow with dark purple tube. Achenes 12-17 mm, deeply sulcate, with warty wings, sometimes swollen above base (galled) so appearing pyriform and stipitate, glabrous; pappus dirty white, hairs short and plumose or longer, barbellate above and plumose below.

Habitat: Mountainous steppe and Rocky slopes and cliffs, 800 to 2800 m.

Distribution: Subendemic of Turkey, with one record from NW. Iran, An Ir.-Tur. element (Fig 3).

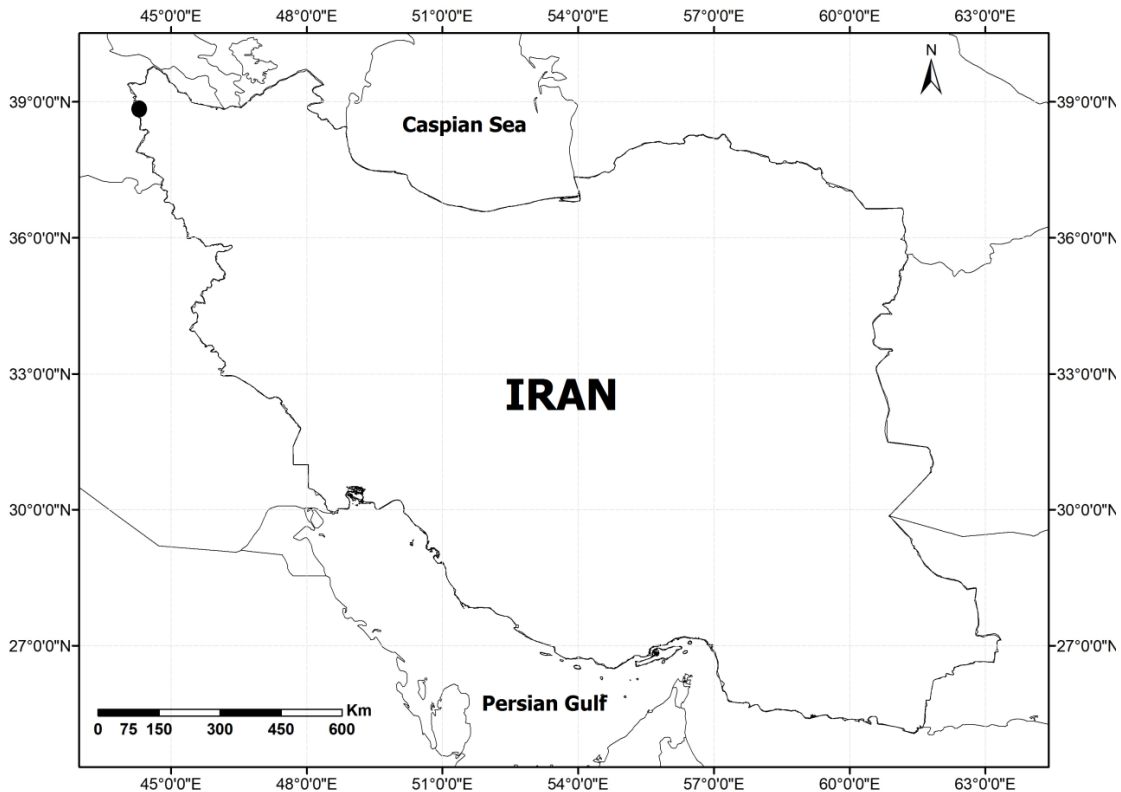


Fig. 3. Distribution of *Scorzonera incisa* DC. in Iran (●)

## DISCUSSION AND CONCLUSION

*Scorzonera incisa* is similar to *Scorzonera calyculata* Boiss., which is distributed in Iran (N., NW., W., S. & C.) and Iraq (Safavi *et al.*, 2013). *S. incisa* belongs to subgen. *Scorzonera* sect. *Incisa* Lipsch. Also, it differs from *S. calyculata* in many features; for instance, achenes 12-17 mm, deeply sulcate, with warty wings, sometimes swollen above base (galled) so appearing pyriform and stipitate, glabrous (not 18 mm, cylindrical-fusiform, glabrous, costate, costa suberose-pallescens, nonstipitate); Pappus dirty white, hairs short and plumose or longer, barbellate above and plumose below (not clear white, almost as long as achene, hairs plumose and scabrous in the upper part).

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## REFERENCES

- Chamberlain, D.F.** 1975. *Scorzonera incisa* DC. – In: Davis, P.H. (ed.), Flora of Turkey and East Aegean Islands 5: 639, 644, 645 & 649. – Univ. Press, Edinburgh.
- Dyanat-Nejad, H., Mozaffarian, V. and Safavi, S.R.** 1998. *Scorzonera Koelpinoides* (Asteraceae), a new

record for the flora of Iran. – Iranian J. Bot. 7: 265-267.

**Lipschits, S.Yu.** 1964. *Scorzonera* L. – In: Bobrov, E.G. and Tzvelev N.N. (eds.), Flora of the USSR 29: 31-144. – Botanical Institute of the Academy of Science of the USSR Press, Moscow, Leningrad.

**Rechinger, K.H.** 1955. *Scorzonera* L. Symbolae Afghanicae 2: 19-202. – Akademische Druck- u. Verlagsanstalt, Graz.

**Rechinger, K.H.** 1977. *Scorzonera* L. – In: Rechinger, K.H. (ed.), Flora Iranica 122: 16-79. – Akademische Druck- u. Verlagsanstalt, Graz.

**Safavi, S.R.** 2004. A new record and an interesting species of the genus *Scorzonera* L. from Iran. – Iranian J. Bot. 10: 159-162.

**Safavi, S.R.** 2006a. A new species of *Scorzonera* (Asteraceae) from Khorasan, Iran. – Nord. J. Bot. 24: 261-264.

**Safavi, S.R.** 2006b. Notes on the genera *Scorzonera* L. and *Scolymus* L. (Asteraceae) in Iran. – Iranian J. Bot. 12: 59-62.

**Safavi, S.R., Naseh, Y., Jafari, E., Tavakoli, Z. and Heydarnia, N.** 2013. *Scorzonera* L. – In: Assadi, M., Maassoumi, A.A., Mozaffarian, V. and Safavi, S.R. (eds.), Flora of Iran (Asteraceae, tribe Cichorieae) 70: 352-442. – Research Institute of Forests & Rangelands Press, Tehran, Iran.

**Safavi, S.R.** 2016. A new species of *Scorzonera* L. (Asteraceae) from Natanz, Iran. – Iranian J. Bot. 22: 1-5.

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