

SOME NEW AND NOTEWORTHY PLANT RECORDS FROM IRAN

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Hamzeh'ee, Behnam, 2000 08 01: Some new and noteworthy plant records from Iran. *-Iran. Journ. Bot. 8 (2): 271-277. Tehran.*

Arrhenatherum elatius var. *elatius*, *A. elatius* var. *subhirsutum*, *Bromus mollis*, *Leptochloa uninervia*, *Paspalum paspaloides*, *Poa longifolia* subsp. *longifolia* var. *nigrescens*, *Trigonella brachycarpa* and *Trigonella gladiata* are recorded as new and noteworthy plants from Iran. Exact localities based on herbarium specimens are given and geographical distribution of the plants are explained.

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Key words. Gramineae, Arrhenatherum, Bromus, Leptochloa, Paspalum, Poa, Leguminosae, Trigonella, Iran, new records.

گزارش تعدادی گیاه جدید و جالب از ایران

بهنام حمزه

گونه‌های: *A. elatius* var. *subhirsutum* *Arrhenatherum elatius* var. *elatius* *Poa* و *Paspalum paspaloides* *Leptochloa uninervia* *Bromus mollis* *Trigonella* و *Gramineae* از تیره *longifolia* subsp. *longifolia* var. *nigrescens* و *brachycarpa* و *Trigonella gladiata* از تیره *Leguminosae* به عنوان گزارش جدید و گونه‌های جالب از ایران ذکر می‌گردند. رویشگاه دقیق گیاهان براساس محل جمع‌آوری نمونه‌های هرباریومی مشخص و پراکندگی آنها در دنیا توضیح داده می‌شود.

Introduction

For the phytosociological studies at the Arasbaran protected area in N.W. of Iran (Azarbayejan), herbarium specimens from the area were collected. After naming plants of Arasbaran, and some specimens which have been collected by the other Iranian botanists, in the herbarium of Research Institute of Forests and Rangelands (TARI) following species are reported as new or noteworthy records for the flora of Iran.

Arrhenatherum elatius (L.) J. & C.

Presl var. **elatius**

Azarbayejan: Arasbaran protected area, W. slope of Doghroon Mt., 2000 m, Runemark and Assadi 21988; between Kalaleh and Mahmudabad, 1800 m, Assadi, 73919; Near a brook and N. slope of *Quercus petraea* L. woodland.

Bor (1970) only mentioned *A. elatius* from Iran. According to N. N. Tsvelev (1976), this species has three varieties: var. *elatius* with awnless or almost awnless lemma in upper flowers and glabrous leaf sheaths and stems, var. *biaristatum* (Peterm.) Peterm. with fully developed awn of lemma in upper bisexual flowers and var. *subhirsutum* (Aschers.) Tzvel. with pilose

stems below nodes and leaf sheaths of lower leaves. There are two varieties (var. *elatius* and var. *subhirsutum*) in Arasbaran protected area. The former was found in wet places and the latter which is mentioned later in drier conditions. General distribution of the species is Scandinavia (southern part), Central and Atlantic Europe, Mediterranean area, Caucasia, N. Iraq, W. Iran and N. Africa.

Arrhenatherum elatius (L.) J. & C.

Presl var. **subhirsutum** (Aschers.) Tzvel.

Azarbayejan: Arasbaran protected area, Kalaleh, 1420 m, Hamzeh'ee and Asri 80075.

In N. W. slope of *Fraxinus excelsior* L. community.

Bromus mollis L.

Ardabil: 35 km. road of Ardabil to Astara, Fandughlou, 1560 m, Azimi.

In abandoned places. This is a noteworthy plant which was not included by Bor (1970) in K. H. Rechinger Flore Iranica, but Parsa (1948) in Flore de l'Iran was mentioned it from Arak. Its general distribution is Europe, Asia and America.



Fig. 1. *Arrhenatherum elatius* var. *subhirsutum* ($\times 0.58$).

Leptochloa uninervia (Presl) Hitchc. & Chase.

Khorasan: Kashmar, 1098 m, H. Ramazanian 80073.

The genus *Leptochloa* has 27 species in tropical and warm temperate regions (Thomas 1982). The specimen was not seen in field and therefore no information about the habitat of the material is available, but as the species occurs in America (Hitchcock 1950), it should have been imported as a weed.

Paspalum paspaloides (Michx.) Scribner

Azarbayejan: Arasbaran protected area, Heydarkanlou, 350 m, Hamzeh'ee and Asri 80074; Mazandaran: Nowshahr, Kheyroud - Kenar forest, 200 - 600 m, M. Assadi 33756; Gilan: near Shaft, 50 m, P. Wendelbo and M. Assadi 18624.

In ditch and wet places. This species was not recorded from Iran in Flora Iranica (Bor 1970). According to C. C. Townsend (1968) in Flora of Iraq, general distribution of the species is W. & S. Europe (more or less in Spain, France, Italy and Greece), Turkey, Caucasia, Palestine, Egypt, India, China, Japan, Macaronesia and America. Originally a native of America, now

widespread. The specimens 33756 & 18624 were determined by Assadi and Kaffash in TARI, but had not been reported from Iran.

Poa longifolia Trin subsp. **longifolia** var. **nigrescens** Roshev. ex Grossh.

Azarbayejan: Hacha yourd (Sahand chackiri), 2600 m, Y. Youssefy 8049.

This species was only mentioned from Iran by Davis (1985) in Flora of Turkey and Tsvelev (1976) in Grasses of the Soviet Union, but Bor (1970) in K. H. Rechinger Flora Iranica vol. 70 was not mentioned it from Iran. According to Tsvelev, some specimens with dense pinkish violet panicles could be separated as var. *nigrescens* Roshev. ex Grossh.. General distribution of the species is Caucasia, Iraq and N.W. of Iran. The specimen was not seen in the field and the materials are preserved in the herbarium of Tabriz University and TARI.

Trigonella brachycarpa (Fisch.) Moris

Azarbayejan: Arasbaran protected area, between Asheghlou and Kalaleh, 400 m, Hamzeh'ee, Asri and Ghahremani 79164.

In stony places of the *Paliurus*



Fig. 2. *Trigonella brachycarpa* ($\times 0.58$).

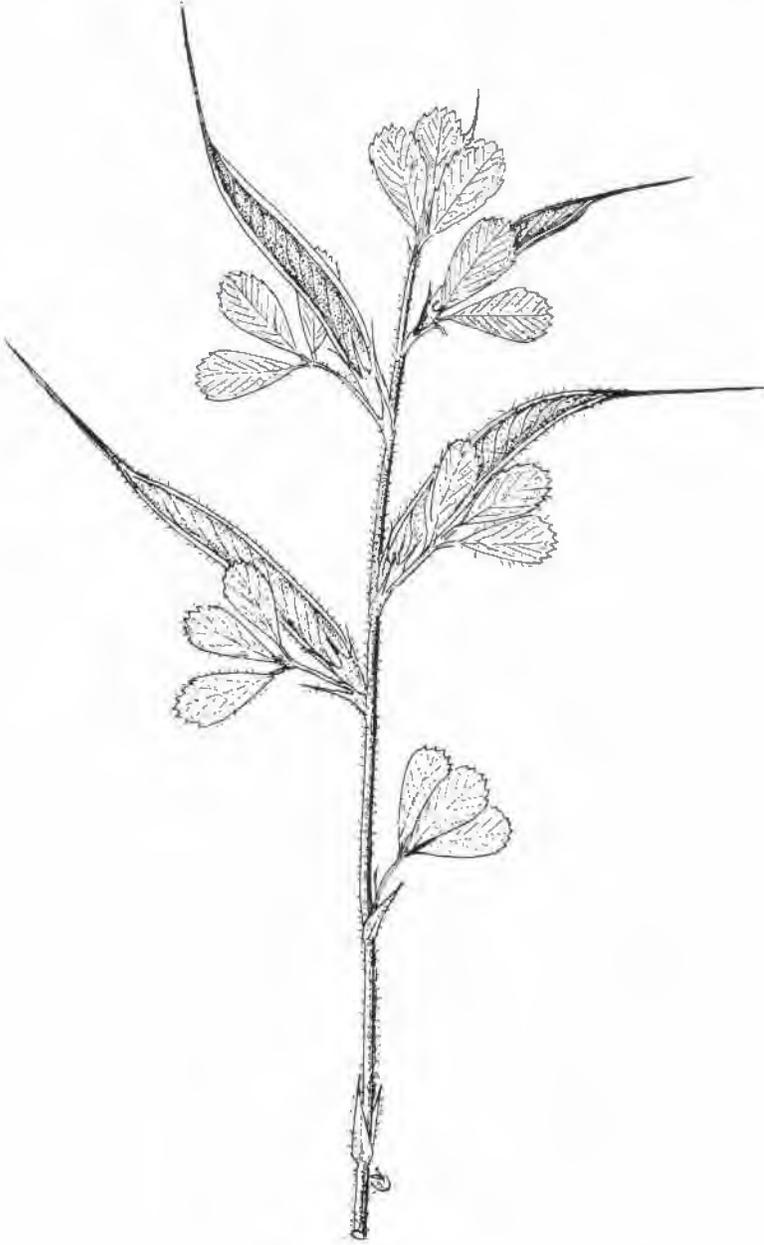


Fig. 3. *Trigonella gladiata* ($\times 1.3$).

spina-christi Miller and *Satureja macrantha* C. A. Mey. -*Chrysopogon gryllus* (L.) Trin. communities.

This species was not recorded from Iran in Flora Iranica (Rechinger 1984) but Parsa in Flore de l'Iran (1948) mentioned it in one locality, Karabagh, which is not in Iran. Therefore, it is a new record for Iran. According to the K. H. Rechinger (1984) in Flora Iranica, general distribution of the species is Anatolia, Libanon, Iraq, Caucasia and Transcaucasia.

Trigonella gladiata Stev.

Azarbayejan: Arasbaran protected area, ca. 4 km. after Kalaleh to Mahmoodabad, 1400 m, Hamzeh'ee and Asri 80078.

In stony places of *Astragalus microcephalus* Willd. - *Juniperus feotidissima* Willd. community. A new record for Iran which was not included by K. H. Rechinger (1948) in Flora Iranica. General distribution of the species is Mediterranean area, Anatolia, Romania, Crimea, Caucasia and Transcaucasia.

Acknowledgment

The author wishes to thank Mr. E. Moradi,

the artist in the Central Herbarium of Iran for preparation of the illustrations.

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