TWO NEW RECORDS OF LOTUS (FABACEAE) AND PHALARIS (POACEAE) FROM RAN

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Received 10.03.2009. Accepted for publication 15.04.2009

Maroofi, H. 2009: Two new records of Lotus (Fabaceae) and Phalaris (Poaceae) from Iran. -Iran. J. Bot. 15 (1); 76-79. Tehran.

Among the materials collected from Kurdistan and West Azerbaijan, two new records to Iran namely Lotus aegaeus and Phalaris canariensis were determined. The species are reported and illustrated in this paper. Descriptions of the species are presented.

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Key words. Lotus aegaeus, Fabaceae, Phalaris canariensis, Poaceae, new records, Kurdestan, Iran.

Introduction

During the study of herbarium specimens in Kurdistan herbarium, two plants belonging to the genera Lotus and Phalaris seemed to be interesting. Further studies showed that the two species are Lotus aegaeus and Phalaris canariensis, none of them have formerly been recorded from Iran. In this paper the two species are reported, illustrated and described as new records to Iran.

Lotus aegaeus (Griseb.) Boiss. -Fig. 1.

West Azerbaijan: ca. 15 Km from Piranshahr to Sardasht, 1400 m. 09.06.2008, Maroofi & Karegar 8556.

Plant villous, perennial, erect, 25-36 cm. tall. Stem usually branched at the base. Leaflets 7-18×6-11 mm., rhomboid-ovate; uppermost often subacuminate; lower leaflets usually acute and broader; petiolules about 1 mm. long; rachis up to 3.5 mm. long. Stipules leaf-like, but smaller, broadly ovate-lanceolate, as long as the broad; the uppermost leaves rarely lacking the basal stipule-like pair of leaflets. Flowers large, pale yellow, (1-) 3-6 together on peduncles; peduncles 2.5-4 cm. long. Bracts 3 in number, smaller, equaling or longer than the calyx, sometimes falling at flowering time. Pedicels very short or absent, villous. Flowers 17-19 mm. long. Calyx 7.5-9.5 mm. long, subcampanulate, glabrous or sparsely pubescent; teeth shorter or about as long as the tube, triangular-subulate, with long hairs at the margin. Corolla about twice as long as the calyx. Standard 18-19 mm. long, obovate, sometimes at the inner surface with purple veins, much larger than the wings and keel, entire and round at the apex, distinctly clawed (3-4 mm. long); claw broadly involute at the below margin; wings c. 14 mm. long; lamina obliquely ovate; claw short (3-3.5 mm. long); auricles broad and blunt; keel c. 12 mm. long, arched, with rather long beak; claw about 3 mm. long. Legume glabrous, 25-35× 2.5-3.5 mm., straight, slightly torulose, rarely constricted by non-ripen seeds.

Lotus aegaeus is close to Lotus gebelia, but differs from it by having uniformly pale yellow flowers. Flowers in Lotus gebelia are variegated white or pale pink with the wings flushed with deep crimson-pink (Heyn 1970; Ball 1969). The species is distributed from Balkan to Turkey, northern Iraq to western Iran. The closest record of L. aegaeus to the Iranian gathering is in Turkey (Heyn 1970).
Fig. 1. *Lotus aegaeus* (× 0.74); details (× 1.4).
**Phalaris canariensis** L. -Fig. 2.
Kurdistan: North-West of Sanandaj, Saral area, Hanaglan village, 2300 m, 28.05.2007, Mehdi Aslani 8333; Tehran: Karaj, Hasarak, 17.07.1962, 13387; Tehran: Karaj, Belghan, 28.05.2007, Solmaz Haidarinejad 8935.

Annual. Culms 25-56 cm. tall, more or less erect, usually branching at near the base. Leaf blades 11-20 cm. long and up to 8 mm. broad, long acute; sheath of terminal leaf inflated; ligule 2.8-4 mm. long. Panicle ovate to obovate-oblong, 1.8- 4×1- 2.2 cm.; spiklets with short pedicel about 1-2 mm. long. Glumes 6-7.5 mm. long, acute, whitish, with spare hairs, broader at the upper half, with a green band along the wing; wing entire. Sterile spikelets usually smaller than the fertile spikelets, about 5 mm. long; fertile lemma 4.5-5.5 mm. long, subacuminate, adpressed hairy; sterile lemmas 2, subequal, acute, 2.5-3.5 mm. long, glabrous to sparsely hairy on the outer surface, hairy at the margin, acute. Anthers 3 mm. long.

**Phalaris canariensis** closely allied to **Phalaris brachystachys** Link, but differs from it by the two important characters: sterile lemma 2-3.5 mm. long and without tuft of hairs at the base of lemma in **Phalaris canariensis**. While sterile lemma shorter than 1 mm. long in **Phalaris brachystachys** and base of lemma with a tuft of hairs. **Ph canariensis** is mainly a Mediterranean element distributed from Canary Islands through Mediterranean region to Turkey, Caucasus and Iran (Baytop 1985; Tutin 1980).

**Phalaris canariensis** was reported by Parsa (1950) from S-E of Balouchestan, but it is more probable that this report has been based on Flora of Balouchestan in Pakistan.

**References**


Fig. 2. *Phalaris canariensis* (× 0.38); details (× 4.5).