

NEW SPECIES AND NEW PLANT RECORDS FROM IRAN

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Jurinea cartilaginea, *Polygonum botuliforme*, *Taverniera echinata* and *Verbascum scoparium* are described as new species. *Amberboa lippii*, *Cadaba farinosa*, *Chenopodium ambrosoides*, *Crepis aspera*, *Fagonia glutinosa* var. *glutinosa*, *Lomatogonium carinthiacum*, *Medicago intertexta* var. *ciliaris*, *Medicago rugosa*, *Omphalodes luciliae* subsp. *kurdica*, *Putoria calabrica*, *Rhyncosia minima*, *Rumex pictus*, *Scilla autumnalis* and *Scutellaria ariana* are reported as new records to the flora of Iran.

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گونه‌ها و گزارشات جدید از علم گیاهشناسی و ایران

از: ولی‌الله مظفریان

چهارگونه جدید بنام‌های:

Jurinea cartilaginea, *Polygonum botuliforme*, *Taverniera echinata*,
Verbascum scoparium,

نامگذاری و شرح داده می‌شوند. علاوه براین گونه‌های زیر برای اولین بار از ایران گزارش می‌گردند:

Amberboa lippii, *Cadaba farinosa*, *Chenopodium ambrosoides*,
Crepis aspera, *Fagonia glutinosa* var. *glutinosa*, *Lomatogonium*
carinthiacum, *Medicago intertexta* var. *ciliaris*, *Medicago rugosa*,
Omphalodes luciliae subsp. *kurdica*, *Putoria calabrica*, *Rhyncosia*
minima, *Rumex pictus*, *Scilla autumnalis*, *Scutellaria ariana*.

INTRODUCTION

The author during several excursions to different parts of Iran and working in the herbarium of Research Institute of forests and Rangelands has come across some new plant records and new species for the flora of Iran. The new records are explained and the new species are described here. Herbarium materials collected in the excursions are preserved in TARI.

NEW SPECIES

Jurinea cartilaginea Mozaffarian, sp. Nov.

Diagnose:

a *J. pulchella* DC. differt foliis late ovatis vel sublyratis cartilagineis nec linearis.

Suffrutex multicaulis. Ca. 20 -- 40 cm altus, intricate ramosissimus, viridiusculus, glabrus basi fere lignosus. Folia basalia longe petiolata, manifeste dentata vel sensim lobata, margine versus cartilaginea, cum petiolo ca. 3 -- 6.5 cm longa et 1.5 -- 2 cm lata, basi abrupte attenuata, apice acuta, utrinque glabra; folia superiora decreſcentia vel filiforme. Capitula singula, terminalia. Pedunculus evolutus, ca. 3 -- 7 cm longus. Involucrum 3 -- 15 mm longum, valde imbricatum, infundibulare, dense arachnoido-

pulverulentum. Phylla quinquo seriata; anguste ovata, coriacea, apice longe attenuata, pungentia. Flores homogami hermaphroditi; corolla intense purpurea; tubus ca. 15 mm longus, dentes minuti, ca. 2 mm longi. Filamenta libera, glabra, anthera longe appendiculata, a basi sagitata, breviter auriculata, apice subcylindracea, purpurea; stigma unica (juvenilla). Achenia 3 -- 4 mm longa, \pm tetragona, obpyramidata; pappus biseriatus, scabrus.

Typus. Khuzestan: between Behbahan and Deh - Dasht, Tange Takab, 550 m, 14.5.1986, V. Mozaffarian 58838 (holotypus TARI).

Polygonum botuliforme Mozaffarian, sp. nov.Section *Polygonum*

Ab *Polygonum serpyllaceum* Jaub. et Spach differt foliis articularis, botuliformibus, nec \pm ovatis vel anguste spathulatis.

Caudex crassus, lignosus, multiceps, dense pulvinato-caespitosus, glaber. Rami floriferi usque ad 1 -- 2 cm longi flexuosi \pm ascendentes, pauciramosi, manifeste breviter articulati; ochreae manifeste diminutae, inferiores \pm fuscae,

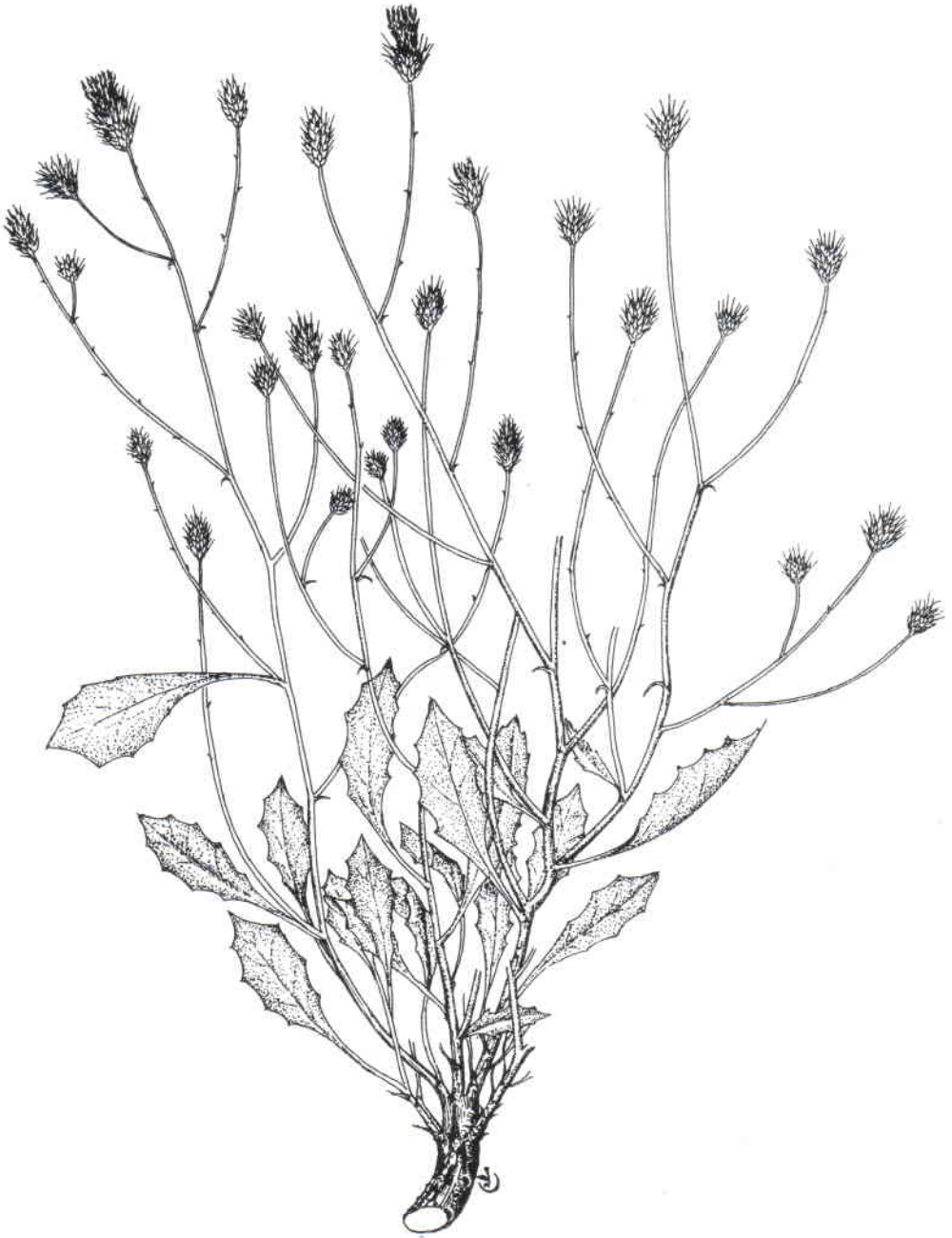


Fig. 1. *Jurinea cartilaginea* (x 0.55).

bifidae, superiores membranaceae albidae. Folia articulata, botuliformia, 2 -- 4 mm longa, obtusa vel acuta, mucronulata. Flores 1 -- 3 ni - fasciculati, erecti, breviter pedicellati, perigonium florendi tempore \pm 2 mm longum, infundibuliformi - campanulatum usque ad basi 5 - lobatum. Nux perigonio breviora, \pm 1 -- 1.5 mm longa, triquetra, laevia, nitida. Styli 3

Typus. Prov. Tehran: Arak, kumijan, Vafs mnt. 2100 -- 2500 m, V. Mozaffarian 63722 (hol. TARI).

Taverniera echinata Mozaffarian, sp. nov.

Mihi specie *T. nummulariae* similis sed differt foliis ovato - orbicularibus vel obovatis, supra glabris atrobrunneo - punctatis; leguminibus segmentis glabris, ad marginem compressis, echinatis, utrinque elevatim paralleliter nervosis, in parte mediano foveolatis vel manifeste reticulato - echinatis.

Perennis, fruticosus, 70 -- 200 cm altus, tota planta excepto rami anni precedentis dense appresse brevissime pilosi. Stipulae 1 -- 2 mm longae, cunneatae, brunneae. Folia unifoliolata, petiolata; petioli 8 -- 13 mm longi; petiolula 0.5 -- 1.5 mm longa; lamina orbiculato - ovata, interdum

obovata, apiculata, leviter mucronulata; mucrone 0.5 mm longo et atro - purpureo, basi truncata, vel leviter cordata, (15) 20 -- 45 mm longa et 17 -- 45 mm lata; supra glabra, manifeste atrobrunneo - punctata, subtus dense brevissime appresse pilosa. Inflorescentiae 2--7 florum, pedunculo abbreviato ca. 10--20 mm longo. Pedicelli 1 -- 2 mm longi. Bracteeae 1.5 mm longae, lanceolatae. Bracteoleae ca. 1 mm longae, calycibus basi adnatae. Calyx tubulosus, 7 mm longus; dentibus 1/2 tubi attingentibus, linearibus. Corolla glabra, ochroleuca, demum brunnea. Vexillum 14 mm longum; lamina obovata apice truncata. Alae ca. 12 mm longae; lamina anguste oblonga, apice acutissima, basi distincte auriculata; auricula ca. 1 mm longa; ungue lamina \pm duplo brevior. Carina vexillum \pm aequantes; lamina oblique oblonga, curvata, apice rotundata, basi breviter angulata; ungue lamina \pm duplo brevior. Ovarium lanato - pubescens. Stylus basi parce pilosus. Legumen sessile, lomentaceum; segmentis 2--3, 9 mm longis et 8 mm latis marginam versus manifeste compressis echinatis utrinque elevatim parallele nervosis; in parte mediano foveolatis vel reticulatis.

Typus. Bandar - Abbas: Bastak, 500 m, 24 . 4 . 1984, Mozaffarian 44386 (holotypus TRAI); Bandar Lengeh, Garestaneh,

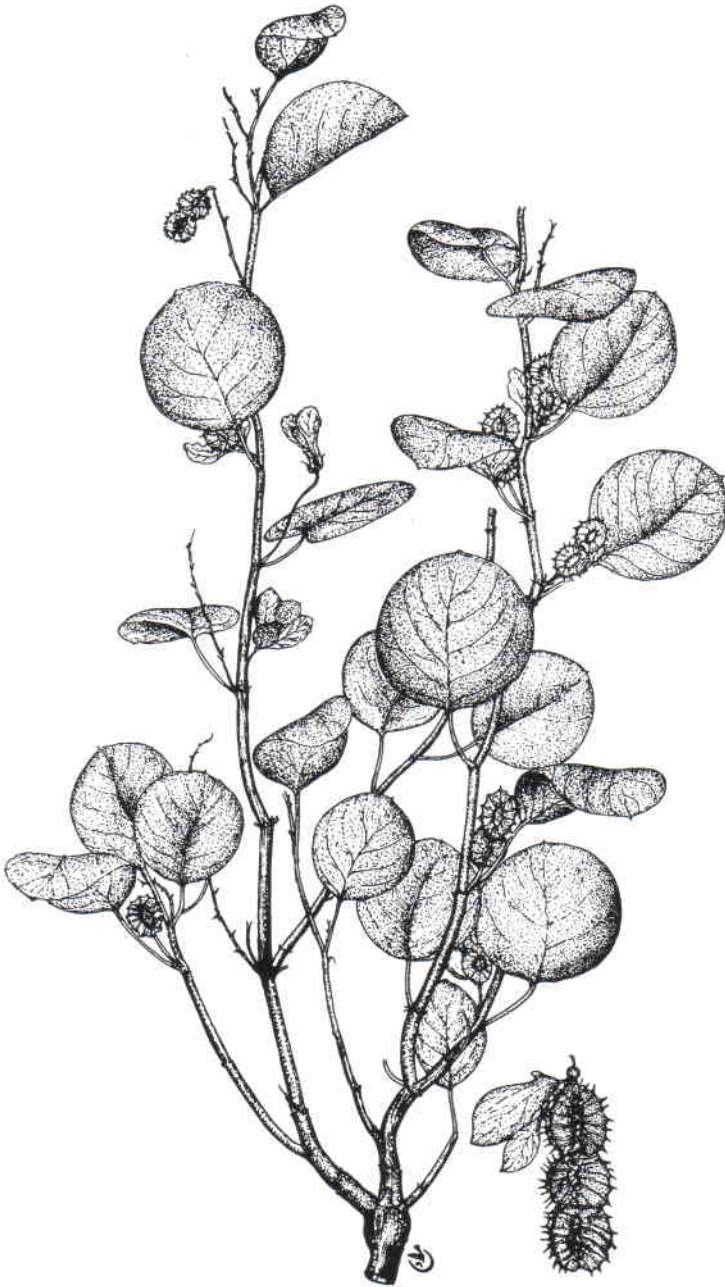


Fig. 2. *Taverniera echinata* (x 0.55; fruit x1.1).

40 m, 25. 4. 1984, V. Mozaffarian 49415.

***Verbascum scoparium* Mozaffarian, sp. nov.**

Planta perennis, suffruticosa, pluricaulis, rami precedenti indurate distincta, 50 cm alta. Caulis stricte erectus, teretis, scoparius, vetuli lignosi, albo grisei vel brunescens glabrati, novelli recti rigidi, viridi, demum saepe \pm glabrescentes, in partibus inflorescentiae superioribus vero laxiusculo pilis glanduliferis obsita. Prope basin foliosi, folia subnulla, parva, vix 2 cm longa et 0.5 cm lata, crassiuscula subcoriacea, novelli glabri vel inferne albido - pannosa, vetuli utrinque dense albido - pannosa, in petiolum brevissimum attenuata, lamina oblongo - elliptica, obtusiuscula, crenato - dentata vel integerrima. Folia superioria bracteiformia vel nulla. Inflorescentia laxa, ramossissime racemosa, rhachis 1.5 - 5 cm longa, glanduloso - stipitata. Bractee parvae, lineares, pedicellis multo brevioribus, pedicelli 9 mm logi. Calycis lacinae 2 mm longae, oblongo - ovatae, acutiusculae, extus punctato - glandulosae, margine stipitato - glandulosae intus glabrae, Corolla purpurea, ca. 10 mm diam., extus glandulosa, intus glabra. Stamina 4, filamenta in tertia parte superiore dense lanata, antherae reniformes, mediofixae

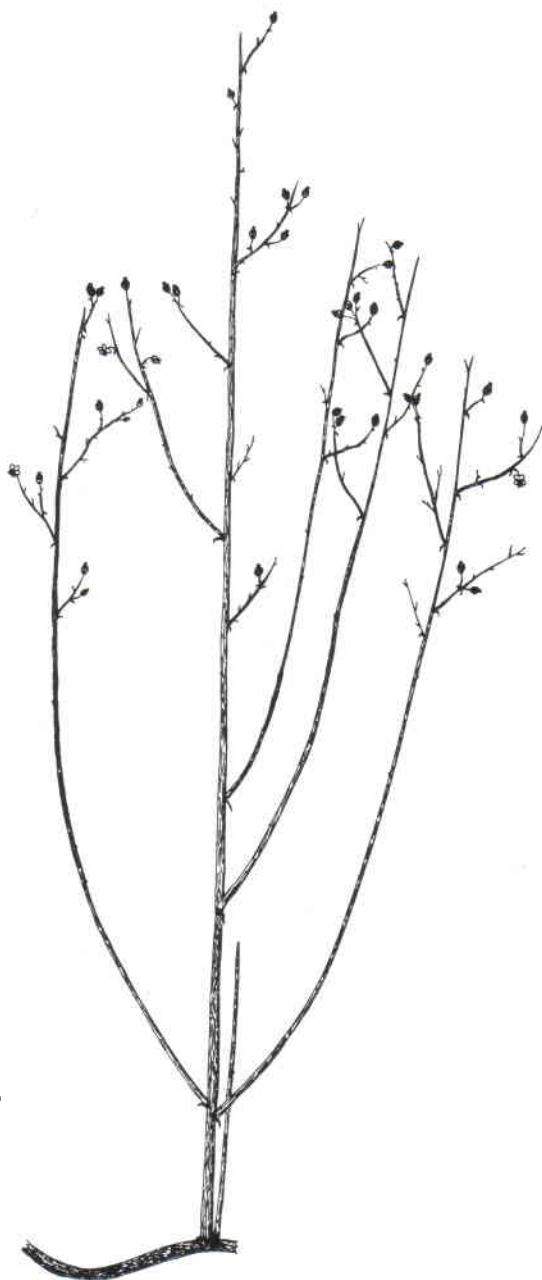


Fig. 3. *Verbascum scoparium* (x 0.53).

Stylus ca. 3 mm longus, glaberrimus apice subcapitatus. Ovarium glabrum, capsula ovoidea. Fl. et Fr. May - Nov.

Holotypus. Bandar Abbas: Hajiabad, Shamil-e Bala, Bokhon, 1700 m, 23.11.1985, V. Mozaffarian 58724 (TARI).

Other specimens seen; Bandar - Abbas: Ghotbabad, Baghestan, Damtang village, Baz Mnt., 500 - 2000 m, 28.4.1985, V. Mozaffarian 49965; Kuh-e Genu, 2000 m, V. Mozaffarian 58839.

NEW RECORDS

Amberboa lippii (L.) DC.

Bandar - Abbas: Minab ca. 29 m, V. Mozaffarian 63671; Sarkhon, ca. 80 m, V. Mozaffarian 63537.

The species is new to flora of Iran. General distribution of the species is Saharo - Arabian.

Cadaba farinosa Forssk.

Baluchestan: Chahbahar, between Pasabandar and Gouatr, ca. 10 m, V. Mozaffarian 52846.

A. Parsa (1951 p.917) reported the species from Baluchestan but not

recorded from Iran by Hedge & Lamond (1970) in *Flora Iranica*. The distribution of the species is from Tropical and N. Africa through Arabia to Pakistan.

Chenopodium ambrosoides L.

Gillan: Hashtapar, Karkan river bed, 200 m, V. Mozaffarian, 59480; Astara, Abbas - abad, 50 m, V. Mozaffarian 59208. — Gorgan: Bandar-e Turkman, Ashuradeh, ca. 10 m, V. Mozaffarian 59634.

A new species record for Iran.

Crepis aspera L.

Khuzestan: Haft Tapeh, Railways station, 80m, V. Mozaffarian 62783.

In *Flora Iranica* area (cf. Rechinger 1977. p 377) only known from Iraq.

Fagonia glutinosa Delile var. *glutinosa*

Khuzestan: Susangerd, Bostan, Allaha - akbar sand dunes, 50 m, V. Mozaffarian 58836.

New species record for Iran. According to M. Nabil el Hadidi (1972, p. 3) in K.H. Rechinger *Flora Iranica* general distribution of the species is: *Shahra occidentalis*, *centralis et borealis*, Mauritania, Tunisia, Libya, Aegyptus, Transjordan, Iraq, Arabia.

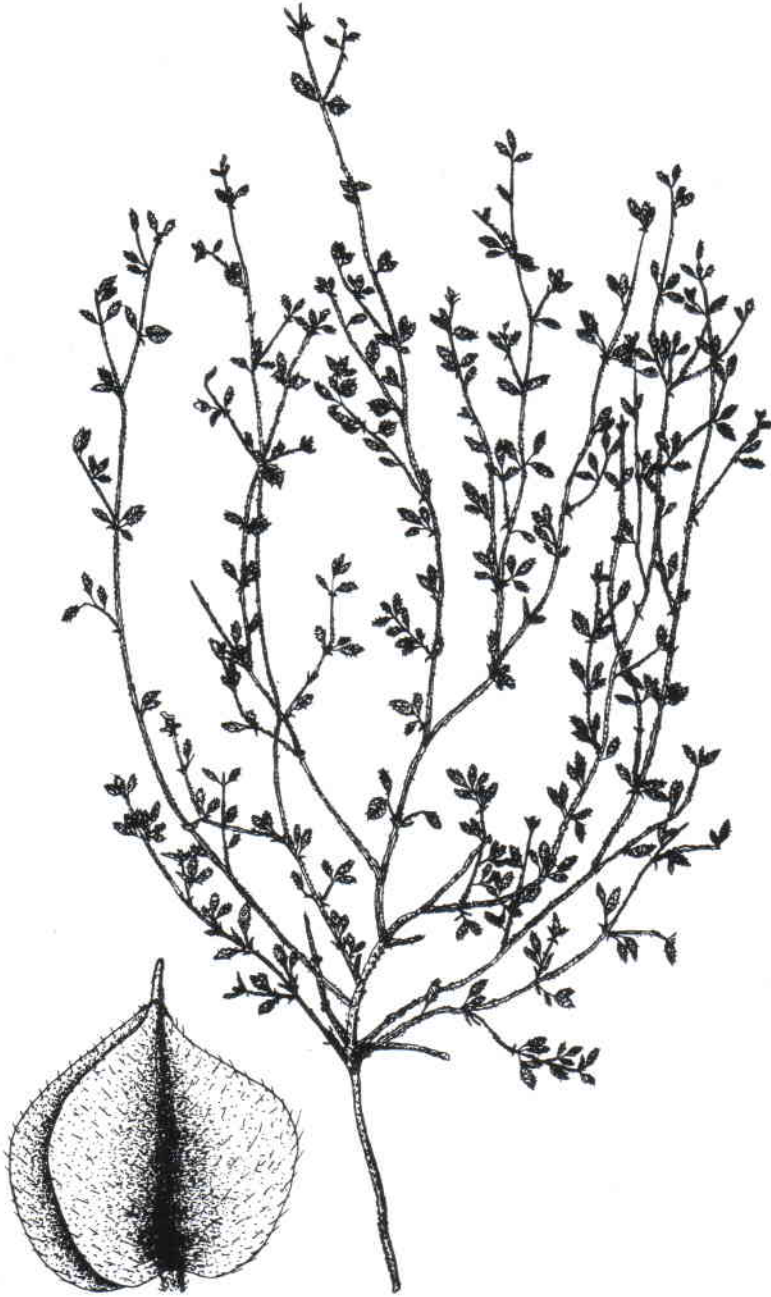


Fig. 4. *Fagonia glutinosa* (x 0.77; fruit 11.2).

Lomatogonium carinthiacum (Wulfen) A. Br.

Azarbyejean: N. of Savalan Mnt. 3350 — 3700 m, Javanshir, 1158 (Tabriz University Herbarium).

The Genus is new to flora of Iran.

Medicago intertexta (L.) Miller var. **ciliaris** (L.) Heyn

Khuzestan: Behbahan to Ramhormoz, Maroon river bed, 300 m, V. Mozaffarian 58837.

New record for Iran, the author of K. H. Rechinger Flora Iranica (cf. C.C. Heyn 1984) has not seen it from the region.

Medicago rugosa Desr.

Khuzestan: Ahvaz, 29m, Hoveizeh s. n.

A new record for Iran. According to C.C. Heyn (1970 p. 494) and M. Zohary (1972 p. 142) it is a Mediterranean element.

Omphalodes luciliae Boiss. subsp. **kurdica** Rech. f. & H. Riedl

Chaharmahal-e Bakhtiari: Zard kuh, opposite to the Tunel-e Kuhrang, 2600 — 3200 m, in crevices of rocks, V. Mozaffarian 57688.

The genus is new to the flora of Iran. This subspecies according to H. Riedl (1948, p. 97) was supposed to be endemic in Iraq.

Putoria calabrica (L.) Pers.

Fars: 10 km SE. of Sarvestan, Post-e Chenar region, 1700 — 2200 m, shrubby calcareous Rocky mnt., V. Mozaffarian 46762.

The Genus not previously recorded from Iran.

Rhyncosia minima (L.) DC.

Baluchestan: Chahbahar, between Pasa-bandar and Gouatr, 20 m, V. Mozaffarian 58745.

The species is new to the flora of Iran, It was recorded from Afghanistan and Pakistan in K.H. Rechinger Flora Iranica.

Rumex pictus Forssk.

Khuzestan: N.E. of Bostan, around Kuh-e Mish - Dagh, sand dunes, 50 — 200 m, V. Mozaffarian 53737.

A new record for Iran. It is said to be E. Mediterranean element extending into adjacent Saharo - Arabian Territories.

***Scilla autumnalis* L.**

Khuzestan: 62 km from Andimeshk to Khorramabad, 6 km after Pol-e-Zal village, gypsum formation soil, 520 m, V. Mozaffarian 58426.

Late flowering species. Tepals pinkish - white with a blackish band on the outer side.

A. parsa (1950 p. 264) reports the species doubtfully from Iran. According to P. Wendelbo (1985 p. 103), general distribution of the species is Iraq, W. & S. Europe, Crete, Cyprus, Syria, Lebanon, Palestine, Turkey, Caucasus, N. Africa.

***Scutellaria ariana* Hedge**

Bandar - Abbas: Hajiabad, Shamil-e Bala, Bokhon, crevices of rocks, 1700 m, 23 . 11 . 1985, V. Mozaffarian 58730.

New record for Iran. It was previously known only from Afghanistan (endem.).

References

Hedge, I.C. & Lamond, J. 1970: Cap-

paridaceae in K.H. Rechinger (ed.) Flora Iranica no. 68 — Graz.

Heyn, C.C. 1970: The genus *Medicago* L. in P.H. Davis (ed.) Fl. of Turkey vol. 3 — Edinburgh.

-- 1980: The genus *Medicago* L. in K.H. Rechinger (ed.) Flora Iranica no. 157: 253 -- 274. — Graz.

Nabil el Hadidi, M. 1972: Zygophyllaceae in K.H. Rechinger (ed.) Flora Iranica No. 98. — Graz.

Parsa, A. 1948: New species and varieties of the Persian flora: II. — Kew Bull. 101 — 228.

— 1950: Fl. de l' Iran vol. 5. — Tehran.

— 1951: Fl. de l' Iran vol. 1. — Tehran.

Polatschek A. 1982: Santalaceae in K.H. Rechinger (ed.) Flora Iranica, no. 155. — Graz.

Riedl, H. 1967: Boraginaceae in K.H. Rechinger (ed.) Flora Iranica no. 48. — Graz.

Wendelbo, P. 1985: Liliaceae in C.C. Townsend et al. Flora of Iraq vol. 8. — Baghdad.

Zohary, M. 1972: Flora Palaestina vol. 2. — Jerusalem.