

TWO NEW SPECIES FROM TURKEY

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ABSTRACT. Two new species are described from Turkey: *Potentilla aladaghensis* Leblebici (Rosaceae) and *Polygonum alyonicum* Leblebici & Gemici (Polygonaceae). New combinations are *Polygonum patulum* Bieb. subsp. *pulchellum* (Lois.) Leblebici and *P. setosum* Jacq. subsp. *luzuloides* (Jaub. & Spach) Leblebici. In addition, *Polygonum rottboelliioides* Jaub. & Spach and *P. salsugineum* Bieb. are reported as new to Turkey.

Potentilla aladaghensis Leblebici, sp. nov. (Subgen. *Potentilla*).

Affinis *P. pulvinari* Fenzl sed foliis breviter pinnatis ambitu late ovatis, foliolis 5-7, segmenta calycis obtusa, sepalis oblongo-ovatis 4.5-6mm longis (non 3.5-4mm) differt.

Herba perennis, caespitosa, pulvinato-indurata, basibus foliorum persistentibus brunneis membranaceis adpresse-pilosis oblecta. *Stipula* ovata vel lanceolata, adnata, c.2.5mm longa. *Petiolum* 13-18mm longum, adpresse pilosum. *Folia* breviter pinnata, ambitu late ovata, sericea, 7-18 x 4.5-8mm, foliolis 5-7, ad $\frac{1}{6}$ - $\frac{1}{2}$ cm lobatis, lobulis subobtusis. *Pedunculi* uniflori, 2-3cm longi, patentes, foliis 1-2, 2-3mm longis sessilibus 3-4-fidis provisi. *Calyx* extus villosulus, segmenta epicalycis 2.5-3mm longa, oblongo-elliptica, obtusa; sepala 4.5-6mm longa, subacuta. *Petala* aurea, suborbicularia, subretusa. *Stamina* c.20. *Filamenta* 2.5-3mm longa, glabra. *Antherae* oblongo-orbiculares, 0.5-0.7mm longa. *Receptaculum* conicum, dense pilosum. *Achenia* numerosa, reniformia, c.0.4mm longa, glabra. *Stylus* subterminalis, filiformis, 1.8-2mm longus, ad basin incrassatus; stigma dilatatum.

Type. Turkey C5 Niğde: Aladağlar, E face of Emli, c.3600m, rock crevice, near summit, 17 viii 1982, *Leblebici* 4318 (holo. EGE, iso. E).

TURKEY. C5 Niğde: Ala Dağları, on Demirkazik, NE rock crevice, *Findlay* 199!

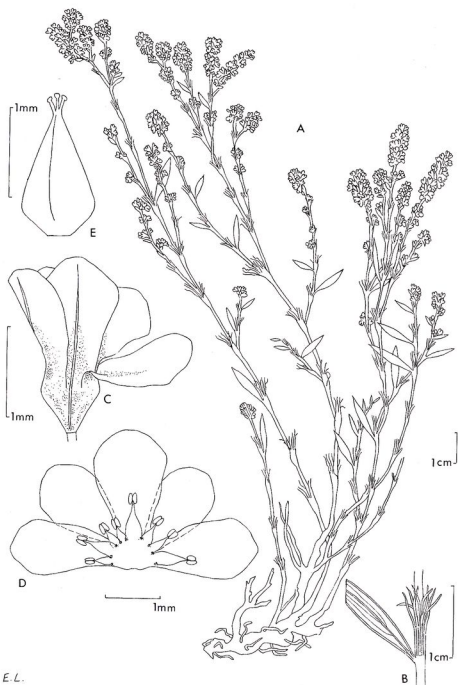
Similar to *Potentilla pulvinaris* Fenzl but leaves shortly pinnate, broadly ovate in outline, leaflets 5-7, epicalyx segments obtuse and sepals oblong-ovate, 4.5-6mm long. *Findlay* 199, mentioned under *P. pulvinaris* Fenzl by Peşmen in *Flora of Turkey* 4:58 (1972), is referred above to *P. aladaghensis*.

Polygonum alyonicum Leblebici & Gemici, sp. nov. (Sect. *Polygonum*). Fig. 1.

Affinis *P. icarico* Rech. fil. sed ochrea $\pm$ 18-nervata, apice setaceo-laciniato, inflorescentia anguste paniculata ramis dense spicatis, bracteis quam floribus brevioribus, floribus axillaribus 5-6-confertis valde differt.

Herba perennis, radice lignosa. *Caules* numerosi, graciles, glabri, simplices vel superne ramosi, ascendentes, 21-32cm longi, tenues, striati, pallido-virides. *Internodia* 1-2.1cm longa. *Ochrea* internodiis brevior, membranacea, 8-12 x 0.5-1mm, ad basin brunnea, ad apicem versus albicans, $\pm$ 18-nervata, apice setaceo-laciniato. *Folia* sparsa, anguste elliptica, 13-18.5 x 2-3.2mm, $\pm$ sessila, integerrima, ad marginem planum

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FIG. 1. *Polygonum afyonicum* Leblebici & Gemici. A, habit; B, ochrea; C, flower; D, dissected perianth; E, fruit.

nervis prominentibus provisa. *Inflorescentia* anguste paniculata ramis dense spicatis, infra interrupta. *Flores* axillaris, 5–6-conferti, pedicellis inaequalibus, ad 3–5mm longis. *Perigonum* 2–2.7mm longum, basi atosanguineum lobis pallide roseis. *Nux* trigona, 1.5–1.7mm longa, nitida, in perigonio persistente inclusa.

Type. Turkey B3 Afyon: Sandikli, Akdağ, District Kocayayla, c.1500m, destroyed forest area, 8 ix 1982, *Y. Gemici* 1299 & *L. Bekat* (holo. EGE, iso. E).

Although this very distinct suffrutescent species bears a superficial resemblance to *P. icaricum* Rech. fil. it differs in so many characters that a close relationship must be excluded. *P. afyonicum* differs from the E Aegean *P. icaricum* in having the ochrea more than 6-nerved, inflorescence narrowly paniculate, branches densely spicate, flowers axillary and 5–6, and bracts shorter than flowers, etc.

NEW COMBINATIONS

***Polygonum patulum* Bieb. subsp. *pulchellum* (Lois.) Leblebici, comb et stat. nov.**

Syn.: *Polygonum pulchellum* Lois. in Mem. Soc. Linn. Paris 6:441 (1827).

***Polygonum setosum* Jacq. subsp. *luzuloides* (Jaub. & Spach) Leblebici, comb. et stat. nov.**

Syn.: *Polygonum luzuloides* Jaub. & Spach, Ill. Pl. Orient. 2: f. 126 (1845).

NEW RECORDS FOR TURKEY

***Polygonum rottboellioides* Jaub. & Spach, Ill. Pl. Orient. 2:32 (1845).**

C10 Hakkari: Başkale to Yüksekova, 62km to Yüksekova, 1800m, 29 vii 1978, *A. Baytop* (ISTE 41263).

***Polygonum salsugineum* Bieb., Fl. Taur.-Cauc. 1:304 (1808).**

A1 (E) Kirklareli/Edirne: Babaeski to Edirne, under *Populus* plantation, 4 xi 1966, *A. Baytop* (ISTE 10381).

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