

TWO NEW SPECIES OF *SENECIO* (ASTERACEAE) FROM MEXICO

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ABSTRACT

Two new species of *Senecio* are described from México: *S. ritovegana* B.L. Turner, from Sinaloa and western Chihuahua (related to *S. parryi* A. Gray); and *S. sandersii* B.L. Turner, from Sonora and western Chihuahua (related to *S. lemmonii* A. Gray).

KEY WORDS: Asteraceae, Senecioneae, *Senecio*, México, systematics

Routine identification of species in connection with a treatment of the tribe Senecioneae for México has occasioned the following novelties.

SENECIO RITOVEGANA B.L. Turner, *spec. nov.* Figure 1. TYPE: MEXICO. Sinaloa: Mpio. Badiraguato, 15 km N of Surutato on the road to Sta. Rita, pine-oak forests, 2000-2200 m, 9 Dec 1987, *Rito Vega* 2550 (with F. Hernández & A. Hernández) (HOLOTYPE: TEX!)

Similis *S. parryi* A. Gray sed caulibus foliisque sparsim aut moderate glandulosis-pubescentibus (vice folii dense pilosi-viscidi), indumento plerumque 2.5 mm alto (vice 0.8-1.5 mm longi), involucris moderate capitatis-glandulosis (vice dense villosi), bracteis exterioribus interioribus 1/2 plo longioribus aut minus (vice 1/2 plo longiorum aut magis).

Erect annual herbs 30-80 cm high. Stems moderately to densely glandular-pubescent. Leaves clasping, linear-lanceolate to oblanceolate, gradually to somewhat abruptly reduced upwards. Midstem leaves 7-14 cm long, 1.0-2.5 cm wide, sparsely to densely glandular-pubescent, irregularly serrate. Heads 5-20, arranged in rather flat-topped or rounded, very open, terminal cymes, the ultimate peduncles glandular-pubescent, mostly 2-4 cm long. Involucres broadly campanulate, ca. 1 cm high, 1.5 cm wide (pressed); principal bracts linear-lanceolate, tufted apically, glandular-pubescent with mostly short stipitate-glandular hairs 0.2 mm long or less. Outer bracts (the calyculus) of 10 or more spreading bracts 3-5 mm long. Ray florets ca. 13, the ligules yellow, 6-10 mm long, ca. 1 mm wide. Disk florets numerous (100+),

the corollas yellow, ca. 8 mm long, the limb ca. 4 mm long, glabrous; lobes 5, the outer surfaces smooth or nearly so. Achenes cylindric, ca. 3 mm long, densely short-strigose throughout, the pappus of numerous readily deciduous, slender bristles 7-10 mm long.

ADDITIONAL SPECIMEN EXAMINED: MEXICO. Chihuahua: La Reforma (Rancho Quemado), 108° 55' W × 28° 05' 30" N, 1800 m, 7-9 Nov 1986, *Howell et al.* 724 (TEX).

When first received, this plant was tentatively identified as *Senecio parryi*. The latter is typified by material collected in Coahuila, México, just across the Río Grande from the Big Bend Region of trans-Pecos Texas. In my opinion, *S. parryi* is largely confined to the Chihuahuan Desert habitats of northern Coahuila and closely adjacent Chihuahua, although the name has been applied to plants from the Sonoran Desert regions which I have described here as *S. ritovegana*. These two taxa differ by a number of features, as noted in my diagnosis, and are not likely to be confused either among themselves or with yet other species.

It is a pleasure to name this species for Sr. Rito Vega, botanist working out of the Univ. of Sinaloa, Culiacán, Sinaloa, an exceptionally skilled field collector.

SENECIO SANDERSII B.L. Turner, *spec. nov.* Figure 2. TYPE: MEXICO. Sonora: Mpio. Alamos, NE slope of Sierra de Alamos, Cañon de Huerta, on Chalaton Trail from Alamos (108° 59' W × 26° 59' N), ca. 1000 m, 16 Oct 1992, *A.C. Sanders 13075* (HOLOTYPE: TEX).

Similis *S. lemmonii* A Gray sed differt caulibus plerumque simplicibus et non ramosis, indumento glanduloso en caulibus capitulisque, involucris parvioribus (7-8 mm altis vice 8-10 mm altis) et bracteis singulia involucrorum caespitosis.

Perennial simple-stemmed herbs to 1 m high. Midstems green, moderately glandular-pubescent to nearly glabrous, the vestiture ca. 0.15 mm high. Leaves numerous and gradually reduced upward. Midstem leaves sessile, clasping, mostly linear-lanceolate, 8-10 cm long, 0.5-1.5 cm wide, sparsely glandular-pubescent to nearly glabrous, the margins irregularly dentate, the apices acute. Heads 5-9, arranged terminal in stiffly erect flat-topped cymes, the ultimate peduncles mostly 1-2 cm long, glandular-pubescent to nearly glabrous. Involucres campanulate, 7-8 mm high, ca. 6 mm wide (pressed); bracts 13-21, linear-lanceolate, sparsely glandular-pubescent to glabrate, the apices lanceolate to apiculate, tufted, reddish or not; calyculus of 5-8 linear-lanceolate, appressed bracts 2-3 mm long. Ray florets 6-8, the ligules yellow, 6-8 mm long, ca. 1.5 mm wide; disk florets 20-40, glabrous, the corollas 5-lobed, yellow, sparsely warty on the exterior, if at all. Achenes (immature), densely short-pubescent throughout; pappus of numerous white, readily detached slender bristles 5-6 mm long.

ADDITIONAL COLLECTION EXAMINED: MEXICO. Chihuahua: Nabogame (108° 59' W × 28° 30' N), 1800 m, 20 Sep 1987, *J.E. Leferriere 1195* (TEX).

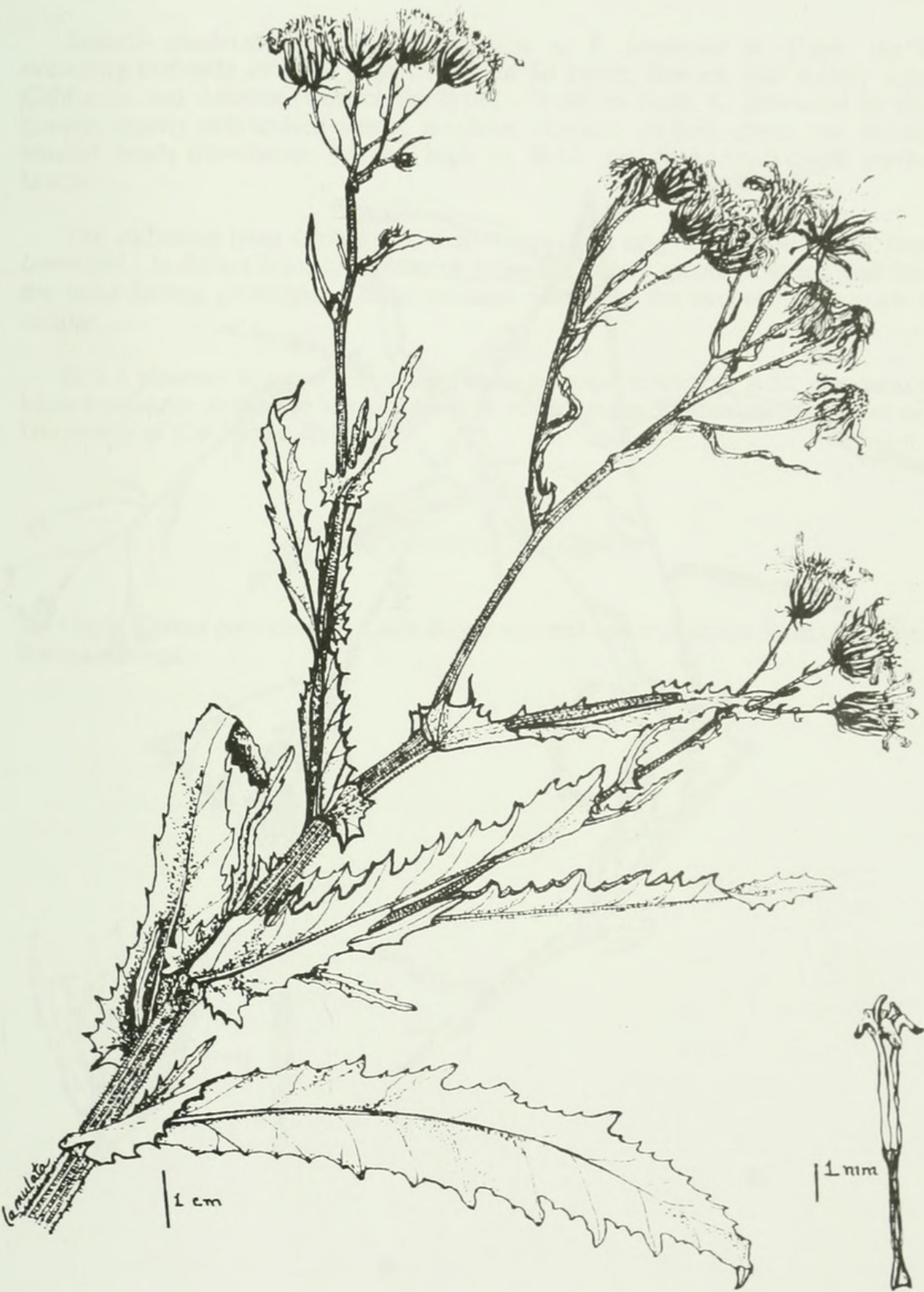


Figure 1. *Senecio ritovegana* from holotype.

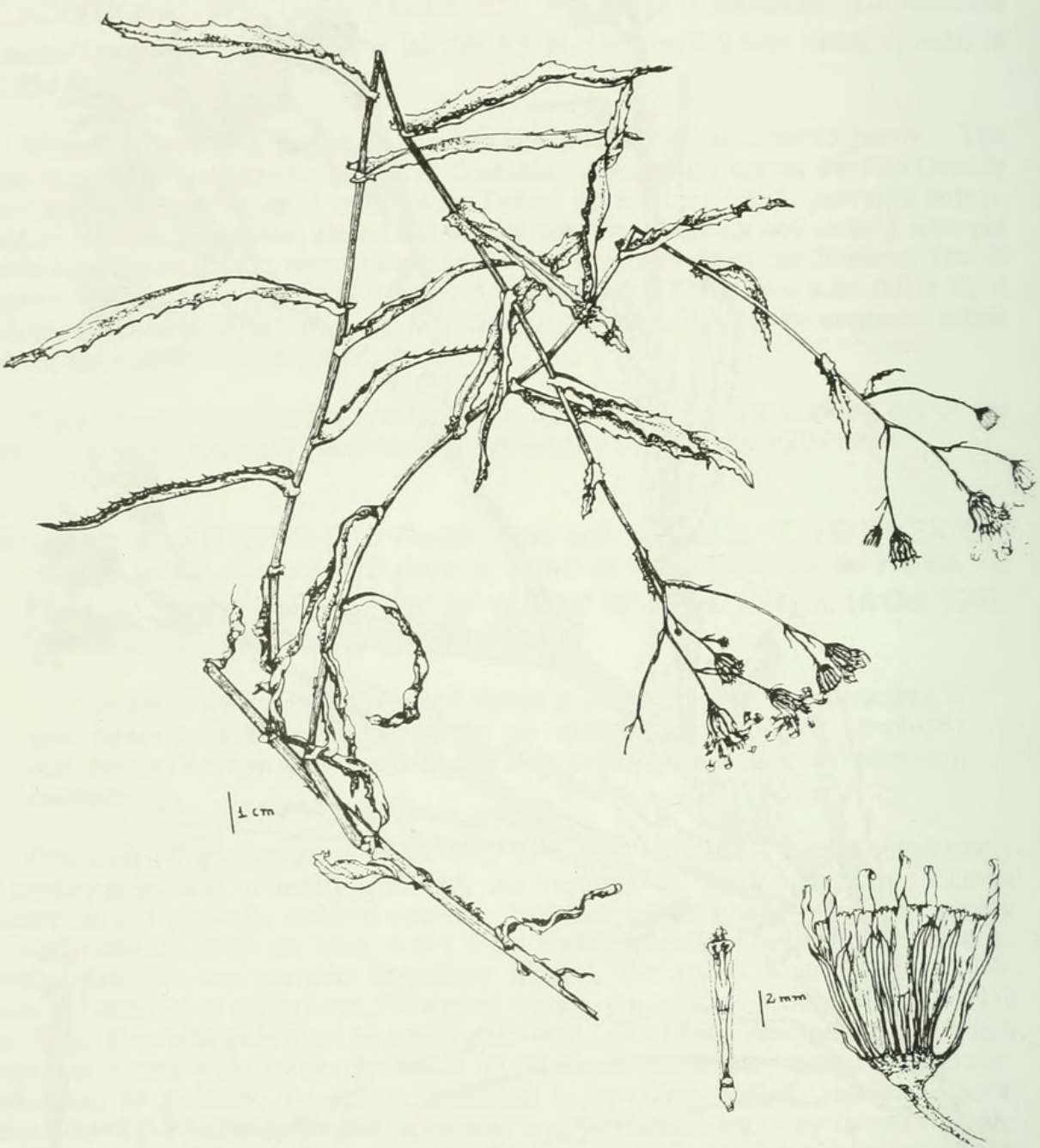


Figure 2. *Senecio sandersii* from holotype.

Senecio sandersii is superficially similar to *S. lemmonii* A. Gray, the latter occurring primarily in upper Baja California del Norte, Sonora, and closely adjacent California and Arizona (whence the type). It differs from *S. lemmonii* in having simple, mostly unbranched stems, glandular vestiture on both stems and involucre, smaller heads (involucres 7-8 mm high vs. 8-10 mm high), and tufted involucre bracts.

The collection from Chihuahua, cited above, was originally identified as *Senecio lemmonii*. It differs from type material in having nearly glabrous stems and leaves, the latter having pronounced basal auricles, otherwise the two accessions are very similar.

It is a pleasure to name this taxon for its principal collector, A.C. Sanders, well known collector in the Río Mayo Region of northwestern México, working out of the University of California, Riverside.

ACKNOWLEDGMENTS

Gayle Turner provided the Latin diagnoses, and she and Justin Williams reviewed the manuscript.



Turner, B. L. 1996. "Two new species of Senecio (Asteraceae) from Mexico." *Phytologia* 80, 95–99.

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