

## TAXONOMIC TREATMENT

**Shinnersoseris Tomb, gen. nov.**

Herbae annuae. Folia fasciaria, integra, non rosulata, foliis inferioribus oppositis, foliis superioribus alternis et parvioribus. Capitula terminalia, floribus paucis. Involucra cylindracea, 7 vel 8 bracteis principalibus appendiculatis apicem versus, appendiculis carinoideis; bractee exteriores breves, 2-seriales, calyculum formantes. Flosculi ligulati, ligulis lavandulaceis, quinquedentatis, per anthesin erectis; rami stylosum breves. Cypselae 8-10-sulcatae, subcylindraceae, prope apices abrupte angustatae et scabrellae. Pappus 2-serialis, capillaceus, candidus.

**Shinnersoseris rostrata (Gray) Tomb, comb. nov.**

*Lygodesmia juncea* var. *rostrata* Gray, Proc. Acad. Philad. 1863: 69. 1863. HOLOTYPE (GH!): Colorado; "On the plains; Rare." (between latitude 39° and 41°); Sep 1862; *Elihu Hall & J. P. Harbour* 347. Isotypes: GH! NY! From the above latitudinal data, the type was probably collected in the sandhill region of northeastern Colorado.

*Lygodesmia rostrata* (Gray) Gray, Proc. Amer. Acad. 9: 217. 1874.

Herbaceous taprooted annual, 1.0-8.5 dm tall (usually ca 3.0 dm tall); stems glabrous, green, sparingly branched and not striate in the basal third, becoming paniculately branched and striate in the upper two-thirds; lower leaves opposite for the first 5-8 nodes, not forming a basal rosette, linear, 6-10 cm long, 2-4 mm wide, entire, glabrous, obscurely 1-3 veined; upper leaves similar to lower except alternate, 6 cm or less in length, reduced to linear bracts below the heads; heads several to numerous, of 8-11 florets; involucre narrowly cylindrical, 1.2-1.5 cm long, 3-4 mm wide; the 7 or 8 principal involucral bracts narrowly linear, 1.6-1.9 cm long at maturity, glabrous, the midribs obscure, the apices bearing a small keel-shaped appendage; outer involucral bracts lanceolate, in ca 2 series, forming a calyculum; ligules lavender with white apices, ca 6 mm long, 1 mm wide, erect at anthesis (i.e., not reflexed); corolla tube ca 8 mm long; anthers purple, ca 2 mm long, exerted ca 1.5 mm; style column purple, exerted ca 2 mm above the anthers; style branches white, ca 0.3 mm long; achenes subcylindric, 8-10 sulcate, 0.8-1.0 cm long, abruptly narrowed and scabrate just below the summit; pappus 6-8 mm long, usually bright white (rarely sordid white), basally connate; sap cream colored; pollen grains echinate, tricolporate, apertures lacunate, mean equatorial diameter 44  $\mu$ m; chromosome number,  $n = 6$  (Fig. 3D).

## DISTRIBUTION

Sandy stream banks, sand dunes, and sand hills, growing with *Muhlenbergia*, *Oryzopsis*, *Helianthus petiolaris*, and *Liatris squarrosa*, from the Texas Panhandle through the plains to Canada (Fig. 4); 2500-4500 ft; Jul-Oct. *Representative Specimens*:

UNITED STATES. COLORADO: Adams Co., near Lakeside, 15 Sep 1910, *Eastwood* 136 (COLO, GH, UC, US); Fremont Co., Canon City, sand bar, Arkansas River, Oct 1877, *Brandege* s.n. (UC); Logan Co., Sterling, 11 Jun