

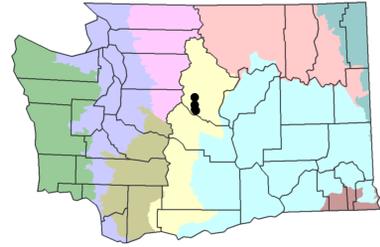
Hackelia species novum

Taylor's Stickseed

Boraginaceae - borage family

status: State Threatened, USFS strategic

rank: G2 / S2



General Description: Adapted from Harrod et al. (unpublished): Perennial herb 1-2 dm tall; stems many from a slender taproot, erect or spreading. Leaves hairy with straight, stiff, appressed hairs and marginal cilia. Stem leaves linear to linear-lanceolate, sessile, the lowermost 2.2-3.5 x 0.6-1.2 cm, reduced upward, becoming small bracts.

Floral Characteristics: Inflorescence appearing like a panicle, generally with several to many flowers. Pedicels 2.3-5.1 mm in flower. Calyx 2.6-3.4 mm long, linear-lanceolate, with straight, appressed hairs. Corolla with a slender tube and abruptly spreading, flattened limb; limb blue, 3-5 mm wide. Small crests in the throat of the corolla are showy, white (sometimes tinged with pink), papillate-hairy, rising 0.8-1 mm above the throat.

Fruits: Nutlets 4.8-6.4 mm long, lanceolate-ovate; dorsal surface warty to minutely hairy, with 7-13 intramarginal prickles. Marginal prickles fused for up to 1/2 their length, forming a broad cuplike base around the nutlet, 1.5-2 mm wide. Blooms late July to early August; seeds mature within 2 weeks of initial flower.

Identification Tips: This taxon is similar to *Hackelia venusta* and was included within *H. venusta* by Gentry & Carr (1976). However, *H. venusta* grows at lower elevations and can be distinguished by its taller stature (2-4 dm), primarily white corollas, and much wider corolla limbs (up to 22 mm). In contrast, this species of *Hackelia* grows only 1-2 dm tall, has deep blue corollas, and limbs only 3-5 mm wide. Other *Hackelia* taxa occurring in central WA are generally taller and have longer leaves.

Range: Known from 4 locations in Chelan Co., WA.

Habitat/Ecology: Steep mountain slopes dominated by granitic scree, talus, or gravel. Substrates are extremely unstable. Elevations: 2130-2290 m (6540-7500 ft). Associates are sparse, but include buckwheat (*Eriogonum* spp.), Elmer's ragwort (*Senecio elmeri*), woolly sunflower (*Eriophyllum lanatum*), twinflower sandwort (*Minuartia obtusiloba*), and Suksdorf's silene (*Silene suksdorfii*).

Comments: This taxon is awaiting a published name and description.

References: Gentry & Carr 1976; Harrod et al., unpublished; Harrod et al. 1999; Hipkins et al. 2003.



photo by Joe Arnett



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