

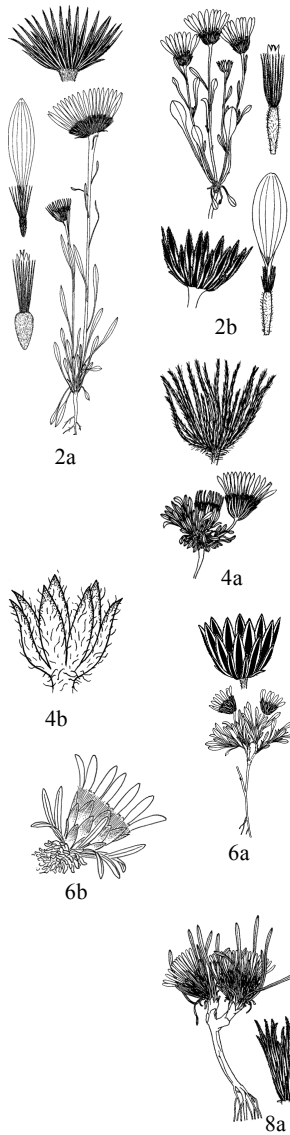
Revisions by David E. Giblin, 4 January 2024

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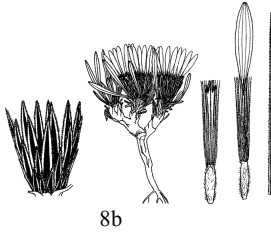
Key revised to include *Townsendia lemhiensis*, a recently (2022) described species endemic to Lemhi County, ID.

Townsendia Hook. Townsend Daisy; *Townsendia*

Heads radiate, solitary, ± sessile in basal rosette or at ends of lfy sts, or on scapiform peduncles; ray fls ♀ and fertile, white or anthocyanic; phyllaries narrow, ± imbricate, gen with a green center and fringed margins; recep flat, naked; disk fls ∞, ♂, anthers entire or nearly so at base; style brs flattened, with introrsely marginal stigmatic lines and short or elongate, externally hairy appendage; achenes flattened, 2-nerved (or those of the rays triangular), gen pubescent, but occ glab; pappus of the disk fls a single series of ∞ rigid, narrow, barbellate, bristlelike scales, that of the rays similar or sometimes reduced and chaffy; taproot ann to per herbs with alt or all basal, entire lvs. (For David Townsend, 1787–1858, amateur botanist of W Chester, PA).



- 1a Pls bien or short-lived per with a mere crown on the taproot, gen several-std from the base, the fl sts lfy, (2–)3–15(–20) cm (excluding the heads)
- 2a Heads large, the disk gen 1.5–3.5 cm wide, the longer phyllaries 10–16 mm; rays 10–20 mm, lavender or purplish to blue (rarely pink to white), gen with bluish tinge when dried; sts ± erect, occ decumbent, (1.5–)2–5 mm wide; grassl to sagebr lvs and dry woodl, mont to subalp; se BC and sw Alta s in w MT to e ID, ne OR, NV, UT, and WY; Parry’s t. 1 **T. parryi** D.C. Eaton
- 2b Heads smaller, the disk gen 1–2 cm wide, the longer phyllaries 6–9(–11) mm; rays 7–12 mm, pinkish; sts decumbent to ascending, occ erect, 1–2(–2.5) mm wide; gravelly areas, often with sagebr, plains and foothills; e Cas, c WA to NV, e in s ID to sw MT and WY; showy t. 2 **T. florifer** (Hook.) A. Gray
- 3b Pls cespitose, nearly acaulescent per, 1–3(–4) cm, the taproot surmounted by an evident br caudex, the fl sts 0–3(–4) cm (excluding the heads)
- 3a Pls loosely woolly-villous, the longer hairs > 1 mm; pappus readily deciduous at maturity; compact, cespitose pls 1–2 cm tall, with white or pinkish rays
- 4a Longer phyllaries 9–11 mm; invol (12–)16–30 mm wide, with 45–60+ phyllaries; rocky alp slopes; scattered, sw Alta and Glacier Co, MT, sw MT to adj wc ID and nw WY, s UT, and c CA; cushion t. 3 **T. condensata** Parry
- 4b Longer phyllaries 5–8(–9) mm; invol 6–12(–16) mm wide, with 16–26+ phyllaries; grassl to open ridges, mont to alp; sw MT to w WY; sword t. 4 **T. spatulata** Nutt.
- 5b Pls short-hairy to subglab, the hairs < 1 mm; pappus persistent
- 5a Mont or alp spp. in RM; phyllaries lanceolate-ovate to oblanceolate, 2.5–5 × as long as wide, tips obtuse to broadly acute; achenes glab, or sparsely hairy near base; rays blue or violet to white; herbage sparsely strigose
- 6a Heads gen on peduncles 0.5–3(–4) cm (occ sessile); rays often glandular-puberulent on outer surface of lamina, bluish-purple (pink or white); lvs 2–5 mm wide; rocky slopes and meadows; wc MT to ec ID, s to UT and CO, disjunct in Wallowa Mts, OR; mt t. (*T. m.* var. *m.*) 5 **T. montana** M.E. Jones
- 6b Heads gen sessile (rarely on peduncles 0.5–1.5 cm); rays glab or glabrate on outer surface of lamina, white to pinkish; lvs 1–2(–3) mm wide; rocky ridges and sandy slopes; sw MT and adj ec ID, s to s RM, GB, and CA; common t. 6 **T. leptotes** (A. Gray) Osterh.
- 5b Plains and valley spp. (mostly e of Cont Div, w to valleys of se BC, w MT, and se ID); phyllaries narrowly elliptic-lanceolate to linear-lanceolate, 6–9 × as long as wide, tips gen acute to attenuate; achenes persistently hairy, at least toward the base; rays white or pinkish; herbage rather sparsely to densely grayish-strigose
- 7a Pls with hairs spreading only; phyllaries appressed, narrowly elliptic-lanceolate, 6–7 × 1 mm, ciliate at the acute to acuminate tips; rays 7–8 mm; disk corolla 4 mm; lvs narrowly oblanceolate to narrowly elliptic-oblanceolate, to 2 mm wide; ashy white slopes of eroded rhyolite tuff; endemic to Lemhi Co. ID 7. **T. lemhiensis** C.Lee, Björk & J.Whitton,
- 7b Pls with appressed hairs only, or spreading hairs few and inconspicuous
- 8a Longer phyllaries 7–11(–13) × ca 1 mm, with a tuft of tangled cilia at the attenuate tip; rays gen 8–12 mm; disk corollas 4–6(–8) mm; lvs linear or nearly so, 1–2(–3) mm wide; gravelly benches and sandy slopes; se BC to sw



8b

MT and adjacent ID, s and e to UT, CO, and n Gr Pl; Hooker's t. (*T. mensana* misapplied)

8 **T. hookeri** Beaman

8b Longer phyllaries (10–)12–14(–17) × 1.5–2.5 mm, without a tuft of tangled cilia at the merely acute tip; rays (9–)12–18 mm; disk corollas 6.5–9(–12) mm, lvs oblanceolate, the larger ones 2–6 mm wide; gravelly to sandy slopes; Alta to wc MT (where just entering our area), GP, s RM, and sw US; Easter daisy

9 **T. exscapa** (Richardson) Porter

Treatment Metadata:

Family: Asteraceae

Authors: Ben Legler, David Giblin

Comments:

Newly described *T. lemhiensis* added to key.

Illustrations:

T. lemhiensis needed.

References:

Lee, C., C. R. Björk, J. Whitton. 2022. *Townsendia lemhiensis* (Asteraceae, Astereae): A narrowly endemic new species from Idaho, USA. *PhytoKeys* 193: 68, figs. 1-3.