

NEW COMBINATIONS IN *PYRROCOMA* (ASTERACEAE: ASTEREAE)

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ABSTRACT

Seven new combinations in *Pyrrocoma* are proposed to provide a complete, formal nomenclature for the genus.

KEY WORDS: Asteraceae, Astereae, *Pyrrocoma*, *Haplopappus*, North America

We plan to treat *Pyrrocoma* as a genus distinct from *Haplopappus* in upcoming floristic treatments. Mayes (1976) in an unpublished dissertation prepared a revision of *Pyrrocoma*, but did not validate any of the nomenclatural changes he proposed. Combinations are not available in *Pyrrocoma* for several taxa we plan to recognize. We therefore propose the following new combinations to provide a complete, formal nomenclature for the genus. See Kartesz & Gandhi (1991) for additional nomenclatural changes in *Pyrrocoma*.

***Pyrrocoma carthamoides* Hook. var. *subsquarrosa* (E. Greene) G. Brown & Keil, *comb. nov.* BASIONYM: *Pyrrocoma subsquarrosa* E. Greene, *Erythea* 3:22. 1895. TYPE: UNITED STATES. Wyoming: Park Co., Sunlight Basin, 5 Sep 1893, *Rose 334* (HOLOTYPE: US; Isotype: UC).**

***Pyrrocoma clementis* Rydb. var. *villosa* (Rydb.) Mayes *ex* G. Brown & Keil, *comb. nov.* BASIONYM: *Pyrrocoma villosa* Rydb., *Bull. Torrey Bot. Club* 27:625. 1900. TYPE: UNITED STATES. Wyoming: Sheridan Co., Willow Creek, Big Horn Mts., Aug 1899, *Tweedy 2063* (HOLOTYPE: NY).**

Pyrrocoma crocea (A. Gray) E. Greene var. **genuflexa** (E. Greene) Mayes ex G. Brown & Keil, *comb. nov.* BASIONYM: *Pyrrocoma genuflexa* E. Greene, *Pittonia* 3:348. 1898. TYPE: UNITED STATES. Arizona: Coconino Co., near Flagstaff, 5 Sep 1894, *Toumey* 25 (HOLOTYPE: NDG; Isotype: UC).

Pyrrocoma hirta (A. Gray) E. Greene var. **lanulosa** (E. Greene) Mayes ex G. Brown & Keil, *comb. nov.* BASIONYM: *Pyrrocoma lanulosa* E. Greene, *Leafl. Bot. Observ. Crit.* 2:16. 1909. TYPE: UNITED STATES. Oregon: Lake Co., Bear Flat, 18 Aug 1894, *Leiberg* 748 (HOLOTYPE: US; Isotypes: F,GH,MO,NY,UC).

Pyrrocoma lanceolata (Hook.) E. Greene var. **subviscosa** (E. Greene) Mayes ex G. Brown & Keil, *comb. nov.* BASIONYM: *Pyrrocoma subviscosa* E. Greene, *Proc. Acad. Nat. Sci. Philadelphia* 1895:549. 1896. TYPE: UNITED STATES. Nevada: Elko Co., near Humboldt Wells, 25 Jul 1893, *Greene s.n.* (HOLOTYPE: NDG; Isotype: UC).

Pyrrocoma racemosa (Nutt.) Torrey & A. Gray var. **congesta** (E. Greene) Mayes ex G. Brown & Keil, *comb. nov.* BASIONYM: *Pyrrocoma congesta* E. Greene, *Pittonia* 3:23. 1896. TYPE: UNITED STATES. Oregon: Josephine Co., W base of Coast Mts. near Waldo, Sep 1892, *Howell* 1438 (HOLOTYPE: NDG; Isotypes: NY,UC).

Pyrrocoma racemosa (Nutt.) Torrey & A. Gray var. **sessiliflora** (E. Greene) Mayes ex G. Brown & Keil, *comb. nov.* BASIONYM: *Pyrrocoma sessiliflora* E. Greene, *Leafl. Bot. Observ. Crit.* 2:11. 1909. TYPE: UNITED STATES. Nevada: Nye Co., Twin springs, 1898, *Purpus* 6340 (HOLOTYPE: US; Isotypes: NY,PH,UC).

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