

NEW COMBINATIONS IN *MONARDELLA* (LAMIACEAE)

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ABSTRACT

The following new combinations are made: ***Monardella odoratissima*** Benth. subsp. ***franciscana*** (Elmer) Brunell, comb. nov.; ***Monardella odoratissima*** Benth. subsp. ***obispoensis*** (Hoover ex Jeps.) Brunell, comb. nov.; ***Monardella odoratissima*** Benth. subsp. ***villosa*** (Benth.) Brunell, comb. & stat. nov.

RESUMEN

Se hacen las siguientes nuevas combinaciones: ***Monardella odoratissima*** Benth. subsp. ***franciscana*** (Elmer) Brunell, comb. nov.; ***Monardella odoratissima*** Benth. subsp. ***obispoensis*** (Hoover ex Jeps.) Brunell, comb. nov.; ***Monardella odoratissima*** Benth. subsp. ***villosa*** (Benth.) Brunell, comb. & stat. nov.

Studies of the genus *Monardella* Benth. (Lamiaceae) for a treatment in the forthcoming Volume 16 of the *Flora of North America North of Mexico* (Brunell, in prep.) require nomenclatural changes.

Analysis of vegetative and floral variation in *Monardella odoratissima* (Benth.) and *M. villosa* (Benth.), in preparation for *The Jepson Manual* (Baldwin et al. 2012) and *Flora of North America North of Mexico* (Brunell, in prep.) treatments of *Monardella*, indicates continuous variation between the two species. In central and northern California, and southern Oregon, traditional characters used to separate the two species (Epling 1925) vary significantly with elevation, longitude and soil type. *Monardella villosa* is a lower elevation taxon whereas *M. odoratissima* occupies higher elevations, however a wide zone of intergradation exists between them. Such intergrades are common at middle elevations on the eastern slope of the North Coast Range and western slope of the Sierra Nevada, and in the southern Klamath and Cascade ranges. Therefore, *M. villosa* and *M. odoratissima* are being combined, retaining the older name *M. odoratissima*. *Monardella villosa* possesses published subspecies that should continue to be recognized, however, combinations for these taxa under *M. odoratissima* do not yet exist.

Monardella odoratissima Benth. subsp. ***franciscana*** (Elmer) Brunell, **comb. nov.** BASIONYM: *Monardella franciscana* Elmer, Bot. Gaz. 41(5):320. 1906; *Monardella villosa* var. *franciscana* (Elmer) Epling, Ann. Missouri Bot. Gard. 12(1):48. 1925; *Monardella villosa* subsp. *franciscana* (Elmer) Jokerst, Phytologia 72(1):14. 1992. TYPE: U.S.A. CALIFORNIA: San Mateo Co.: San Pedro, Jul 1903, A.D.E. Elmer 4766 (HOLOTYPE: CAS-0007363 [JSTOR image]; ISOTYPES: G, MO, UC, US).

Monardella odoratissima Benth. subsp. ***obispoensis*** (Hoover ex Jeps.) Brunell, **comb. nov.** BASIONYM: *Monardella villosa* var. *obispoensis* Hoover ex Jeps., Fl. Calif. 3(2):435. 1943; *Monardella villosa* subsp. *obispoensis* (Hoover ex Jeps.) Jokerst, Phytologia 72(1):14. 1992. TYPE: U.S.A. CALIFORNIA: San Luis Obispo Co.: Cuesta Pass, near summit, 20 Jun 1908, I.J. Condit s.n. (HOLOTYPE: JEPS-2652 [JSTOR image]).

Monardella odoratissima Benth. subsp. ***villosa*** (Benth.) Brunell, **comb. & stat. nov.** BASIONYM: *Monardella villosa* Benth., Bot. Voy. Sulphur 42–43, pl. 21. 1844. TYPE: U.S.A. CALIFORNIA: Bodegas, California, 1841, R.B. Hinds s.n. (HOLOTYPE: K-000248497 [JSTOR image]).

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