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A taxonomic revision of *Bromus* (Poaceae: Pooideae: Bromeae) in México and Central America

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Abstract

A taxonomic treatment of *Bromus* in México and Central America is presented. Twenty-two species and one variety are recognized in the region. Twelve of these species are native, and ten are adventive and introduced. *Bromus* section *Mexibromus* is newly described, representing a distinct lineage in molecular studies of the genus. It includes two species endemic to México (*B. attenuatus*, *B. densus*) and one endemic to México and Guatemala (*B. dolichocarpus*), distinguished from species in other *Bromus* sections by their 3(–5)-nerved lemmas. *Bromus pinetorum* is a poorly understood species of *Bromus* sect. *Bromopsis* endemic to Coahuila. Taxa that have been variously treated in the past are discussed in detail. *Bromus mucroglumis* and *B. thysanoglottis* are treated as synonyms of *B. richardsonii*, and *B. meyeri* is treated as a synonym of *B. anomalus*. Two varieties are recognized in *B. carinatus*, *B. carinatus* var. *carinatus* and *B. carinatus* var. *marginatus*. Lectotypes are designated for the names *B. carinatus* var. *californicus*, *B. hookeri* var. *schlechtendalii*, *B. trinii*, *B. trinii* var. *pallidiflorus* and *B. trinii* var. *stricta*. A second-step neotype is designated for *B. rigidus*. Keys for determining the species in English and Spanish, descriptions, synonymies, illustrations, distribution maps, comments and lists of all specimens examined are provided for each species.

collector given on the specimen label) and originally determined as *B. commutatus*; the specimen is *B. japonicus*. This species was again reported recently from the same experimental station by Royo Márquez & Melgoza Castillo (2012), likely based on the same mis-identified specimen.

Bromus grandis (Shear 1900: 243) Hitchcock in Jepson (1912: 175)

Wiggins (1980) reported this taxon from N Sierra Juárez, Baja California. Gould & Moran (1981) noted that they did not see specimens of this taxon and did not treat it. We have not seen specimens of this taxon from Baja California or elsewhere in México.

Bromus orcuttianus Vasey (1885a: 223)

Wiggins (1980: 912) reported this taxon from "northernmost Baja California". Gould & Moran (1981) noted that they did not see specimens of this taxon and did not treat it. We have not seen specimens of this taxon from Baja California or elsewhere in México. A specimen determined originally as *B. orcuttianus* from southwestern Chihuahua (Aug–November 1883, Palmer 233, NY!) is a species of *Brachypodium*. Another specimen from Chihuahua (*Jones s.n.*, RSA-POM), incorrectly determined as *B. orcuttianus*, is *B. carinatus* var. *marginatus*.

Bromus porteri (Coulter 1885: 425) Nash (1895: 512)

See comments under *B. anomalus*.

Bromus sterilis Linnaeus (1753: 77)

Espejo-Serna *et al.* (2000) reported *B. sterilis* from Baja California. This report may be based on Paulin & Morales 218 (MEXU-1098059) and MEXU-109768, both collected in Baja California and originally determined as *B. sterilis*; the former specimen is *B. carinatus*, the latter is *B. madritensis*.

Bromus texensis (Shear 1900: 41) Hitchcock (1913: 381)

Reported from México by Hitchcock (1913), on the basis of a specimen in US (*Pringle 2052*). Wagnon (1952) noted that this specimen is *B. anomalus*, a determination with which we agree.

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