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*Impatiens ecornuta*, a New Name for *Impatiens ecalcarata*  
(Balsaminaceae), a Jewelweed from the United States and Canada

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ABSTRACT. The new name *Impatiens ecornuta* Gerry Moore, Zika & Rushworth (Balsaminaceae) is proposed for the species of western North America currently recognized as *I. ecalcarata* Blank. The latter name is an illegitimate later homonym of *I. ecalcarata* Collett & Hemsl.

*Key words:* Balsaminaceae, *Impatiens*, North America.

In 1905, Joseph Blankinship described a new species of *Impatiens* L. (Balsaminaceae) from the Pacific Northwest using the name *I. ecalcarata* Blank. However, in 1890 Henry Collett and William Hemsley had previously described a new species of *Impatiens* from Burma using the name *I. ecalcarata* Collett & Hemsl. Thus, *I. ecalcarata* Blank. is an illegitimate later homonym that, barring formal conservation, must be replaced (McNeill et al., 2006, Art. 53.1). Formal conservation of the name *I. ecalcarata* Blank. does not seem warranted, since the range of this species is rather restricted and dissemination of a new name will not be difficult. It could be argued that the lack of current usage of the name *I. ecalcarata* Collett & Hemsl. (it is generally treated as a synonym) in Myanmar may warrant conservation of *I. ecalcarata* Blank. However, there is no guarantee that future revisions of *Impatiens* in Myanmar and adjacent areas would not lead to *I. ecalcarata* Collett & Hemsl. being held distinct. Thus, it seems best to leave *I. ecalcarata* Collett & Hemsl. available for use in pending revisions by not proposing *I. ecalcarata* Blank. for conservation over *I. ecalcarata* Collett & Hemsl. Therefore, the following name is provided as a replacement name for *I. ecalcarata* Blank.

***Impatiens ecornuta*** Gerry Moore, Zika & Rushworth, nom. nov. Replaced name: *Impatiens ecalcarata* Blank., Sci. Stud. Montana Coll. Agric., Bot. 1: 84. 1905, nom. illeg., non *Impatiens ecalcarata* Collett & Hemsl., J. Linn. Soc., Bot. 28: 30, tab. 4. 1890. *Impatiens biflora* Walter var. *ecalcarata* M. E. Jones, Bull. Montana Univ., Biol. Ser. 15: 39. 1910. TYPE: U.S.A. Montana: Missoula Co. [now Sanders Co.], along a brook 1 m [ile] E of Plains, 9 Aug. 1901, J. W. Blankinship s.n. (holotype, MONT; isotypes, MONTU, WS, WTU).

Unlike the other native *Impatiens* species in the United States and Canada (e.g., *I. aurella* Rydb., *I. capensis* Meerb., *I. noli-tangere* L., *I. pallida* Nutt.), and as the specific epithet indicates (as well as Blankinship's specific epithet), the petaloid, lower saccate sepal in *I. ecornuta* is spurless. *Impatiens ecornuta* is known from wetlands in British Columbia, Idaho, Montana, Oregon, and Washington, at elevations below 1200 m. West of the Cascade Range in Oregon and Washington, *I. ecornuta* hybridizes with *I. capensis*, which has been introduced into this area (*I. capensis* is a native elsewhere in Canada and the United States; Ornduff, 1966, 1967; Zika, 2006b). The hybrid between *I. capensis* and *I. ecornuta* is known as *I. ×pacificica* Zika, and this hybrid may be genetically threatening the uncommon *I. ecornuta* (Zika, 2006a, 2006b).

Literature Cited

Blankinship, J. W. 1905. Supplement to the flora of Montana. Sci. Stud. Montana Coll. Agric., Bot. 1: 33–109.

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- Collett, H. & W. B. Helmsley. 1890. On a collection of the plants from Upper Burma and the Shan states. *J. Linn. Soc., Bot.* 28: 1–61.
- McNeill, J., F. R. Barrie, H. M. Burdet, V. Demoulin, D. L. Hawksworth, K. Marhold, D. H. Nicolson, J. Prado, P. C. Silva, J. E. Skog, J. H. Wiersema & N. J. Turland (editors). 2006. International Code of Botanical Nomenclature (Vienna Code). *Regnum Veg.* 146.
- Ornduff, R. 1966. *Impatiens capensis* in Oregon: Native or introduced? *Leafl. W. Bot.* 10: 317–319.
- Ornduff, R. 1967. Hybridization and regional variation in Pacific Northwestern *Impatiens* (Balsaminaceae). *Brittonia* 19: 122–128.
- Zika, P. F. 2006a. *Impatiens* × *pacifica* (Balsaminaceae), a new hybrid jewelweed from the Pacific Northwest coast of North America. *Novon* 16: 443–448.
- Zika, P. F. 2006b. The status of *Impatiens capensis* (Balsaminaceae) on the Pacific Northwest coast. *J. Torrey Bot. Soc.* 133: 593–600.