

A NEW COMBINATION IN *EUPATORIUM* SECTION  
*VERTICILLATA* (ASTERACEAE)

Eric E. Lamont

New York Botanical Garden, Bronx, New York 10458 U.S.A.

ABSTRACT

*Eupatorium purpureum* L. var. *holzingeri* comb. nov. is presented. Distribution, pertinent synonymy, and a key to the varieties of *E. purpureum* are included.

KEY WORDS: *Eupatorium*, Eupatorieae, Asteraceae, Joe Pye weed, systematics, North America

As a result of a comprehensive systematic study of *Eupatorium* section *Verticillata* (Lamont, unpubl.), a new nomenclatural change is found necessary. The new combination is herewith published to validate the name for edition 2 of *Manual of Vascular Plants of Northeastern United States and Adjacent Canada* (Gleason & Cronquist, in press). The taxonomic monograph of the section will be completed soon.

*Eupatorium purpureum* L. is widespread throughout eastern U.S.A. Although the species is morphologically variable and hybridizes with other species in the section, two distinct varieties can be differentiated. The two taxa are morphologically distinct but only weakly differentiated geographically. The two varieties may be keyed as follows:

1. Abaxial leaf surface densely and persistently puberulent to villose throughout; S Minnesota, Iowa, and NE Kansas to S Wisconsin, N Illinois, and N Missouri ..... var. *holzingeri*
- 1' Abaxial leaf surface glabrous or nearly so, sometimes sparsely pubescent along the major veins; S New Hampshire to N Florida, west to SE Minnesota, Iowa, and E Oklahoma ..... var. *purpureum*

*Eupatorium purpureum* L. var. *holzingeri* (Rydberg) E. Lamont, *comb. nov.* BASIONYM: *Eupatorium holzingeri* Rydberg, *Brittonia* 1:97. 1931. TYPE: UNITED STATES. Minnesota: Winona Co., without specific locality, Aug 1906, *Holzinger s.n.* (HOLOTYPE: NY!).

*Eupatorium purpureum* L. var. *purpureum*, *Sp. Pl.* 838. 1753. *Cunigunda purpurea* (L.) Lunnell, *Amer. Midl. Naturalist* 5:35. 1917. *Eupatoriadelphus purpureus* (L.) King & Robinson, *Phytologia* 19:432. 1970. TYPE: Without locality, date or collector (see Savage 1945, page 143) (HOLOTYPE: LINN [microfiche at NY!, photo at GH!]).

*Eupatorium trifoliatum* L., *Sp. Pl.* 837. 1753.

*Eupatorium americanum* Hill, *Brit. Herb.* 453. 1756.

*Eupatorium verticillatum* Lam., *Encycl.* 2:405. 1786.

*Eupatorium fusco-rubrum* Walt., *Fl. Carol.* 199. 1788.

*Eupatorium falcatum* Michx., *Fl. Bor.-Amer.* 2:99. 1803.

*Eupatorium amoenum* Pursh, *Fl. Amer. Sept.* 2:514. 1814.

*Eupatorium harnedii* Steele *ex* Harned, *Wildflowers Alleghanies* 501. 1931.

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#### LITERATURE CITED

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