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**DUFOUREA NOVAEANGLIAE IN ILLINOIS,
WITH CONFIRMATION OF HOST PLANT
(HYMENOPTERA: HALICTIDAE)**

John K. Bouseman¹

Dufourea (Halictoides) novaeangliae was described (as *Panurgus novaeangliae*) by Charles Robertson (1897) on the basis of two males from Connecticut and Massachusetts. Viereck (1904) redescribed the species as *Conohalictoides lovelli* from material of both sexes taken from flowers of pickerelweed, *Pontederia cordata* L. (Pontederiaceae), by J. H. Lovell at Waldoboro, Maine; he also mentioned a male from Pennsylvania and a female from Maryland. Lovell himself (in Lovell and Cockerell 1906) considered the bee to be an oligolege of *P. cordata*. Viereck later (1924) added the District of Columbia and New Hampshire to the known distribution of the species, and he again called attention to the association of *D. novaeangliae* with pickerelweed. He used the association as the basis, in part, for the recognition of a new species, *D. monardae* (as *Conohalictoides monardae* Viereck) from Labiatae, which had been misidentified by Graenicher (1910) as *D. novaeangliae* (as *Halictoides novaeangliae*). The bee has received little subsequent notice, and the only distributional records outside of the northeastern United States are those of Mitchell (1960), who recorded *D. novaeangliae* from unspecified localities in Michigan and Missouri.

The purpose of this paper is to record *D. novaeangliae* from Illinois for the first time and, because Hurd (1979) listed the pollen source for the bee as "unknown," to confirm *Pontederia cordata* as the host of *D. novaeangliae*.

On 5 September 1985, I collected 18 females of *Dufourea novaeangliae* from flowers of *Pontederia cordata* L. at a small natural pond 4.8 km north of Watseka in Iroquois County, Illinois. The bees were collected between 1130 and 1200 h CDT, and all specimens save one had at least partial pollen loads. No male specimens of *D. novaeangliae* were encountered at the time, and no other species of bee were visiting the flowers. The host plant was in late bloom on the date of collection, and on a visit to the site one week later, the pickerelweed was no longer in blossom and no specimens of *D. novaeangliae* were found.

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LITERATURE CITED

- Graenicher, S. 1910. Wisconsin bees—new and little known species. *Canadian Entomol.* 42:101-104.

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- Hurd, P. D., Jr. 1979. Apoidea in K. V. Krombein et al., Catalog of Hymenoptera in America north of Mexico, Vol. 2. Smithsonian Institution Press. Washington, D.C.
- Lovell, J. H., and T. D. A. Cockerell. 1906. Notes on the bees of southern Maine: Anthophoridae, Halictoididae, Macropidae and Panurgidae. Psyche 13:109-113.
- Mitchell, T. B. 1960. Bees of the eastern United States. I. North Carolina Agric. Expt. Sta. Tech. Bull. 141. 538 pp.
- Robertson, C. 1897. North American bees—descriptions and synonyms. Trans. St. Louis Acad. Sci. 7:315-356.
- Viereck, H. L. 1904. A bee visitor of *Pontederia* (pickerel-weed). Entomol. New 15:244:246.
- . 1924. The identity of *Conohalictoides novaeangliae*. Proc. Entomol. Soc. Washington 26:14-15.