

April 1983

First Record of the Mosquitoes *Aedes Dupreei Psorophora* *Horrída*, and *Psorophora Mathesoni* (Diptera: Culicidae) in St. Joseph County, Indiana

Roger S. Nasci
University of Notre Dame

David B. Taylor
University of Notre Dame

Leonard E. Munsterman
University of Notre Dame

Follow this and additional works at: <https://scholar.valpo.edu/tgle>



Part of the [Entomology Commons](#)

Recommended Citation

Nasci, Roger S.; Taylor, David B.; and Munsterman, Leonard E. 1983. "First Record of the Mosquitoes *Aedes Dupreei Psorophora Horrída*, and *Psorophora Mathesoni* (Diptera: Culicidae) in St. Joseph County, Indiana," *The Great Lakes Entomologist*, vol 16 (1)
Available at: <https://scholar.valpo.edu/tgle/vol16/iss1/5>

This Entomological Note is brought to you for free and open access by the Department of Biology at ValpoScholar. It has been accepted for inclusion in The Great Lakes Entomologist by an authorized administrator of ValpoScholar. For more information, please contact a ValpoScholar staff member at scholar@valpo.edu.

ENTOMOLOGICAL NOTES

FIRST RECORD OF THE MOSQUITOES *AEDES DUPREEI*,
PSOROPHORA HORRIDA, AND *PSOROPHORA MATHESONI*
(DIPTERA: CULICIDAE) IN ST. JOSEPH COUNTY, INDIANA¹

Adult females of *Aedes* (*Ochlerotatus*) *dupreei* (Coquillett), *Psorophora* (*Janthinosoma*) *horrida* (Dyar and Knab), and *Psorophora* (*Janthinosoma*) *mathesoni* (Belkin and Heinemann) were collected on 18 and 19 June 1981, in an oak woodlot in South Bend, Indiana. These constitute new species records for St. Joseph County (Shroyer et al. 1977, Taylor 1981). The single *Ae. dupreei* was collected with a battery-powered suction device used to sample mosquitoes resting in the herbaceous understory of the woodlot (Nasci 1981). The two *Psorophora* species were collected in human-baited collections. In addition, one *Ps. horrida* larva was collected in a temporary pool in the center of the woodlot.

All three mosquitoes are woodland species, their larvae developing in forest pools formed in depressions covered with heavy leaf litter. These species are considered rare in northern Indiana because rainfall does not usually occur in sufficient quantity to create free-standing water on forest floors during mid-summer (Siverly 1972). Rainfall during the three weeks preceding capture of the specimens was extremely heavy, causing flooding in sections of northern Indiana, including a portion of the woodlot in which the collections were made.

Ae. dupreei is distributed from the southeastern United States north to New Jersey and west to Kansas and Texas (Carpenter and La Casse 1955). In Indiana it has been recorded only in Spencer and Posey counties in the southern portion of the state (Siverly 1972). This report extends the distribution of the species in Indiana northward 480 km.

The two *Psorophora* species are found throughout the southeast United States, north to Pennsylvania, and west to Texas (Carpenter and La Casse 1955). They have been reported in several counties in the southern third of Indiana (Siverly 1972). This is the first record of these species in the northern portion of the state.

LITERATURE CITED

- Carpenter, S. J. and W. J. La Casse. 1955. Mosquitoes of North America (north of Mexico). Univ. California Press. 360 p.
- Nasci, R. S. 1981. A lightweight, battery-powered aspirator for collecting resting mosquitoes in the field. *Mosq. News* 41:808-811.
- Shroyer, D. A., R. F. Beach, L. Munsterman, J. Peloquin, J. L. Peterson, R. P. Smith, and D. B. Taylor. 1977. Mosquito diversity in St. Joseph County, Indiana (Diptera:Culicidae). *Proc. Indiana Acad. Sci.* 86:238-241.
- Siverly, R. E. 1972. Mosquitoes of Indiana. Indiana State Board of Health. Indianapolis. 126 p.
- Taylor, D. B. 1981. New distribution records for mosquitoes (Diptera:Culicidae) in St. Joseph County, Indiana. *Proc. Indiana Acad. Sci.* 80:274-280.

Roger S. Nasci, David B. Taylor, and
Leonard E. Munsterman
Vector Biology Laboratory
University of Notre Dame
Notre Dame, IN 46556

¹Supported by National Institute of Health grants AI06123 and AI02753.