

-1985, 3 ♂, 2 ♀, EDC, HDB, WJW & TEV; 29-VIII-1985, spring-fed streams with limestone substrate, 1 ♀, TEV. These records extend the range of this species to the north.

Argomphus maxwelli (Ferguson) — Massac Co.: Mermet Lake Conservation Area, 5-VI-1985, perched on a log near shoreline near a tupelo swamp, 1 ♂, EDC, HDB, WJW & TEV. Johnson Pulaski Co.: Cache River, 1 km N of Karnak, 14-V-1986, 1 ♂, TEV; 16-VI-1986, 1 ♂, TEV. The range of the species is hereby extended to the north.

Gomphurus hybridus (Williamson) — Pope Co.: Cretaceous Hills, 2-VI-1984, 1 ♂, TEV; in the Entomology Collection of Southern Illinois University at Carbondale. This record represents a range extension to the north.

Erpetogomphus designatus Hagen — Logan Co.: Salt Creek, 6.5 km SW of Lincoln, 30-VIII-1986, perched on riprap at roadside, late afternoon, 1 ♀, EDC & TEV. Vermilion Co.: Middle Fork Vermilion River at Kickapoo State Park, 28-VII-1986, perched on water willow (*Justicia americana* L.) at river bank, 1 ♂, EDC & HDB.

Macromia alleghaniensis Williamson — Pope Co.: Lusk Creek, 5 km SE of Eddyville, 25-VII-1984, 1 ♂, TEV; 22-VII-1985, patrolling creek near bridge at mid-morning, 3 ♂, WJW; 22-VII-1985, 8 ♂, 1 ♀, EDC & WJW; 8-VIII-1985, 11 ♂, 1 ♀, EDC, HDB & TEV; 22-VIII-1985, found dead in water, 1 ♂, TEV.

Nannothemis bella (Uhler) — McHenry Co.: spring Hill Farm Fen, north of Lake in the Hills, 18-VI-1985, 7 ♂, 4 ♀, EDC, HDB, WJW & TEV; 3-VIII-1986, 1 ♂, 1 ♀, TEV and G.J. Derkovitz, Jr. This species is often associated with sphagnum bog ponds (E.M. WALKER & P. S. CORBET, 1975, *The Odonata of Canada and Alaska*, Vol. 3, Pt 3, Univ. Toronto Press, Toronto), however, it survives here at a calcareous seep and fen complex.

The following species were known from Illinois, but have not been collected in recent years. Since World War II aquatic habitats in Illinois apparently rapidly deteriorated from the increase and change in farming and industrial activities. These records confirm the continued presence of these species in Illinois, although they are rare or found in small localized populations.

NEW STATE RECORDS, RANGE EXTENSIONS, AND CONFIRMED RECORDS OF ODONATA FROM ILLINOIS, UNITED STATES

An extensive field survey of Odonata of Illinois in 1984-1986 resulted in a number of new state records (including some range extensions), and a re-discovery of some species that have not been collected since 1933-1958. In addition to the species collected by the authors, others noted below were discovered in existing collections in the state. According to recent literature (J.G. NEEDHAM & M.J. WESTFALL, 1955, *A manual of the dragonflies of North America*, Univ. Calif. Press, Berkeley; B.E. MONTGOMERY, 1967, *Proc. N. cent. Brch ent. Soc. Am.* 22: 121-129; T.E. VOGT & J.E. McPHERSON, 1985, *Gr Lakes Entomol.* 18: 7-13) the listed species were not known to occur in Illinois. Except where noted, all specimens are in the Illinois State Museum Entomology Collection.

Argia plana Calvert — Hancock Co.: Alice L. Kibbe Life Science Station, 13-VI-1985, small spring-fed stream with limestone substrate, 1 ♂, 1 ♀, EDC, HDB, WJW & TEV; confluence of Crystal and Glen Creeks near Warsaw, 13-VI-

Hagenius brevistylus Selys — Pope Co.: Big Grand Pierre Creek, 24-VIII-1986, 1 ♂, TEV. Although this species is relatively common in Missouri, we have found no other Illinois records since 1939 (VOGT & McPHERSON, 1985).

Argomphus cornutus (Tough) — Winnebago Co.: Shirland, USA Vacations Campground, 19-VI-1986, at pond, 12:30 pm CDST, 1 ♂, TEV. The last known record from Illinois was in 1941 Cook Co.: Willow Springs, 1-VI-1941, 1 ♀, H. Dybas, in the collection of the Field Museum of Natural History, Chicago).

Stylurus amnicola (Walsh) — Whiteside Co.: Rock Creek, 1.6 km south of Morrison, 20-VIII-1984, 1 ♂, EDC, HDB & WJW. Winnebago Co.: Sugar River at Yale Bridge Road, 8-VI-1986, 2:00 CDST, newly emerged, 1 ♀, TEV; SE of Sugar River and Yale Bridge Road, 17-VIII-1986, degraded savanna, perched on herbaceous vegetation, 2 ♀, TEV; 30-VIII-1986, 3 ♂, 2 ♀, TEV. The last known record was in 1958 (Henderson Co.: Carman, 13-VI-1958, 1 ♂, no collector given, Western Illinois University Entomology Collection).

Gomphurus fraternus (Say) — Vermilion Co.: Vermilion Co. Conservation Area, Middle Fork Vermilion River, 26-VI-1985, perched on gravel bar, 1 ♂, EDC, HDB & TEV; Middle Fork State Fish and Wildlife Area, Middle Fork Vermilion River, 26-VI-1985, 2 ♂, EDC, HDB & TEV; Middle Fork Vermilion River, ca. 2 km S of Potomac, 27-VI-1985, perched on small boulder in river, 1 ♂, EDC, HDB & TEV. Winnebago Co.: Kishwaukee River at I-39 (Hwy 51), 8-VI-1986, 2 ♂, TEV; Sugar River at Yale Bridge Road, 8-VI-1986, 1:30 — 2:30 pm CDST, 2 ♂, 2 ♀, TEV; Sugar River Forest Preserve, near Sugar River, 8-VI-1986, 2 ♂, 1 ♀, TEV; Colored Sands Bluff Forest Preserve, Sugar River, 19-VI-1986, 2:30 — 3:00 pm CDST, 1 ♂, TEV; Sugar River at Yale Bridge Road, 29-VI-1986, 1 ♂, TEV. The last known record for Illinois was in 1939 (Vermilion Co.: Catlin, Camp Drake, 11-VI-1939, 1 ♀, J.E. Porter, Illinois State Natural History Survey).

Ophiogomphus rupinsulensis (Walsh) — Vermilion Co.: Vermilion Co. Conservation Area, Middle Fork Vermilion River, 23-VII-1985, perched on boulder in river, 1 ♂, EDC, HDB & TEV. The last known Illinois record

was in 1933 Vermilion Co.: Oakwood, 16-VII-1933, 1 ♂, H.H. Ross, Illinois State Natural History Survey).

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