

## UNCOMMON BUTTERFLIES OF NORTHEASTERN INDIANA

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Indiana has a rich butterfly fauna. If the old records are correct, the State may have as many as one hundred twenty-five species. This paper, however, will not list all of the one hundred or more species collected over a thirty-five year period by the authors, but will include a listing and brief reference to the uncommon species found in northeastern Indiana.

## HESPERIIDAE

*Euphyes dion* (Edwards)

Specimens: July 14, 1952; July 7, 1953; and July 2, 1954, in Lagrange County bogs. June 30, 1968 collected several in Wabash and Kosciusko Counties.

*Euphyes dukesi* (Lindsey)

A single male was collected on July 24, 1962, in Steuben County. This may constitute a new State record.

*Euphyes conspicua* (Edwards)

Specimens have been taken in July in Lagrange, Steuben and Wabash Counties.

*Euphyes bimacula* (Grote & Robinson)

In Lagrange County a single specimen was taken on July 7, 1955 in a bog near Cedar Lake. From late June to early September it is found in boggy or marshy meadows in Kosciusko and Wabash Counties (1966-1968).

*Poanes massasoit* (Scudder)

Ten specimens were taken on July 11, 1950 in the Plato bog, Lagrange County. One male was captured on July 30th. Apparently rare or absent in the other counties of northeastern Indiana.

*Poanes viator* (Edwards)

Three worn specimens at a boggy place along a road in Richland Township, Steuben County, July 24, 1962. Sparingly in Wabash County, July 1967.

*Hesperia leonardus* Harris

One specimen Sept. 4, 1954, Steuben County on blossoms of teasel plant. Collected from July to September (1967 & 1968) in Wabash and Kosciusko Counties on blossoms of the purple boneset plant.

*Hylephila phyleus* Drury

Specimens from August 18 to September 21 (1967 & 1968) on zinnia flowers. Never common.

*Thymelicus lineola* (Ochsenheimer)

Specimens: June 22 and July 1, 1967, grassy field, North Manchester, Wabash County. Identification was confirmed by Dr. Fredrick H. Rindge, Curator of Lepidoptera of the American Museum of Natural History, New York. During June and July (1968) this species was more common in Wabash and Kosciusko Counties.

*Staphylus mazans hayhurstii* (Edwards)

June 19, 1945 a single specimen was taken in a peat bog, Waynesdale, Allen

County. In June and July (1967) collected in wooded areas and along roads of North Manchester, Wabash County.

*Achalarus lyciades* (Geyer)

Specimens: June 11, 1942, at a bushy tract, Fox Lake, Steuben County. June 16 and July 4, 1968 in brier clump in woods, Kosciusko County.

PIERIDAE

*Pieris protodice* Boisduval & LeConte

June 1942 collected in Lagrange County. Scarce in Wabash and Kosciusko Counties from June to October (1966-1968).

*Colias cesonia* (Stoll)

A single specimen near Eel River, North Manchester, Wabash County, September 1934.

*Eurema nicippe* (Cramer)

One male, August 14, 1968, North Webster, Kosciusko County, near *Cassia* plants.

RIODINIDAE

*Calephelis muticum* (McAlpine)

One battered specimen was collected August 8, 1949 and another on July 21, 1956, Plato bog east of Lagrange. Two were taken on July 24, 1954 at the Cedar Lake bogs.

LYCAENIDAE

*Strymon melinus* Hübner

July 24, 1954 one specimen along a road and bog at Cedar Lake. Specimens from June 29 to October 3 (1966-1968) in Wabash and Kosciusko Counties.

*Strymon titus* (Fabricius)

Specimens: July 7, 1953, along a road and bog at Cedar Lake. Collected in late June and July (1967 & 1968) on dogbane, goldenrod and white sweet clover, North Manchester, Wabash County.

*Strymon acadica* (Edwards)

Several specimens were collected every July from 1953 to 1956 near Cedar Lake. In Wabash County specimens were taken on July 9 and 12, 1967; June 30, 1968 on dogbane; and July 7, 1968 on common milkweed flowers, North Manchester, Indiana.

*Strymon caryaevorus* McDunnough

Pair collected June 22, 1968 on hickory tree leaf, Kosciusko County. Dr. Fredrick H. Rindge prepared a slide of the male genitalia. Several more were collected in early July. This constitutes a new State record.

*Strymon edwardsii* (Grote & Robinson)

Specimens: June 30, 1968 North Manchester, Wabash County and July 4, 1968 Kosciusko Co. Found in wooded areas.

*Strymon liparops strigosa* (Harris)

One specimen July 7, 1953, along a road at the Cedar Lake bogs, on butterfly weed blossoms. July 12, 1966; June 24 and July 6, 1968 specimens were taken at North Manchester, Wabash County.

*Lycaena helloides* (Boisduval)

Specimens: August 20, 1967 North Manchester, Wabash County. August 24, 1968 Camp Mack, Milford, Kosciusko County.

*Lycaena epixanthe* (Boisduval & LeConte)

A specimen collected in July 1966, North Manchester, Wabash County.

NYMPHALIDAE

*Nymphalis vau-album* (Denis & Schiffermüller)

Two specimens collected in August 1934 in an old apple orchard near Eel River, North Manchester, Wabash County. Not found in recent years.

*Euphydryas phaeton* (Drury)

Specimens: July 7, 1955 and July 6, 1956 in the Cedar Lake bogs, usually on the higher ground.

*Speyeria idalia* (Drury)

Specimens: Two females, June 24, 1942, along the north shore of the Big Turkey Lake, Lagrange County. August 11, 1968, North Manchester, Wabash County.

*Euptoieta claudia* (Cramer)

Two specimens July 6, 1956 on a quaking bog on the east side of Cedar Lake in Lagrange County. Uncommon in July and August (1966 and 1968) in Wabash County.

## SATYRIDAE

*Lethe eurydice applachia* R. L. Chermock

July 17, 1942 two specimens collected along the border of a bog at Hogback Lade, Steuben County. The identification was made by Frank Chermock.

*Lethe eurydice* (subspecies undetermined) was collected July–August 1967 in North Manchester, Wabash County.

*Euthychia mitchellii* (French)

Specimens: July 11, 1950, on a quaking bog on the east side of Cedar Lake in Lagrange County. Many others were collected in July each year from 1952 to 1956.

Specimens were donated to the Ohio State Museum, the Ohio State University Museum and the U. S. National Museum.

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*EUREMA SALOME* IN TEXAS (PIERIDAE)

Within the United States *Eurema salome limoneus* (Felder and Felder) is definitely known to occur only in Arizona (Klots, 1951, "Field Guide to the Butterflies"). The data on old specimens supposedly collected in Texas is vague and uncertain. In fact, in a list of the butterflies and skippers of Texas reproduced by Xerox in 1963 by R. O. Kendall and H. A. Freeman *Eurema salome* is not mentioned. Therefore, it was of some interest to find a female of *Eurema salome* in poor condition among a collection of Texas butterflies donated to the California Insect Survey by J. O. Hunt, of San Diego, California. The specimen was collected by Hunt at Harlingen, Cameron County, Texas on August 18, 1957.—PAUL A. OPLER, *University of California, Berkeley, California*.

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BOOK NOTICE

INDEX LITTERATURAE ENTOMOLOGICAE, Serie II, vol. III (M–R). By W. Derksen and U. Scheiding-Göllner. 528 pp. Published by the German Academy of Agricultural Sciences. Berlin, 1968.

The "Index" contains all entomological papers published in the period 1864 to 1900. The third volume includes the authors' names in alphabetical sequence from Maag to Rzehak. For most authors the important biographical dates are given. The "Index" is very important for all students in entomology. For reviews of the first two volumes, see *Journal Lepid. Society*, 19: 62 (1965) and 21: 144 (1967).—JOSEF MOUCHA, *National Museum, Prague, Czechoslovakia*.