

PRELIMINARY LIST OF THE BUTTERFLIES OF INDIANA

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Since the publication of a list of Indiana Butterflies by W. S. Blatchley (3) in 1892 many additions have been made to the known distribution of species within the state, and to the list of species occurring in the state. The present paper attempts to bring the records up to date by the use of all available data.

The writer has records from Gibson, Knox, Posey, Tippecanoe and Vigo counties from his own collecting and from Allen, Gibson, Knox, Posey and Tippecanoe counties from material collected by B. Elwood Montgomery. Brandt F. Steele and Dan Luten furnished records from DeKalb, Franklin, Kosciusko, Marion, Marshall, Morgan, Owen, Porter, Steuben and St. Joseph counties. Records from Fountain, Johnson, Morgan, Rush and Wells counties were obtained from specimens in the Student Collection at Purdue University.

Records from Blatchley (3), Kwiat (4) and Weith (6) are indicated by the initials "(B)," "(K)," and "(W)" respectively. In a few cases local citations from Blatchley (3) and Moore (5) are given.

For the listing of seasonal range each month has been divided into thirds; if a species has been taken in all three thirds of a month the name of the month only is given.

The nomenclature and arrangement followed is that of Barnes and McDunnough (2) with a few changes according to Barnes and Benjamin (1).

Papilionidae

1. *Papilio philenor* L. Franklin, Gibson, Johnson, Marion, Posey, St. Joseph and Tippecanoe counties. May 10-31, June, July, August, September, October 1-10.

2. *Papilio polyxenes* Fab. Franklin, Gibson, Johnson, Knox, Lake (K), Marion, Morgan, Owen, Posey and Tippecanoe counties. May 10-31, June, July, August.

3. *Papilio cresphontes* Cram. Johnson, Marion, Montgomery (B), Tippecanoe and Wabash (B) counties. June, July, August.

4. *Papilio turnus* L. Franklin, Gibson, Johnson, Kosciusko (B), Marion, Marshall, Morgan, Porter, Posey, Steuben, St. Joseph, Tippecanoe and Vanderburgh (B) counties. April 21-30, May, June, July, August. form *glaucus* L. Johnson, Posey, Tippecanoe and Vanderburgh (B) counties. May, June, July, August, September, October 1-10.

5. *Papilio troilus* L. Franklin, Gibson, Knox, Lake (K), Marshall, Owen, Porter, Posey and Tippecanoe counties. May 11-31, June, July, August, September.

6. *Papilio ajax* L. Franklin, Gibson, Johnson, Knox, Marion, Marshall, Monroe (B), Morgan, Owen, Posey, Steuben, Tippecanoe and Vigo (B) counties. April 10-30, May, June, July, August, September.

Pieridae

7. *Pieris protodice* Bdv. and Lec. Franklin, Gibson, Knox, Marion, Marshall, Morgan, Owen, Porter, Posey, Steuben, St. Joseph, Tippecanoe and Vigo (B) counties. March 20-31, April, May, June, July, August, September, October, November.

8. *Pieris napi* L. Kosciusko (B) and Tippecanoe counties. March 21-31, November 1-20.

9. *Pieris rapae* L. Fountain, Franklin, Gibson, Johnson, Knox, Marion, Marshall, Morgan, Owen, Porter, Posey, Rush, Steuben, St. Joseph, Tippecanoe, Vigo and Wells counties. April, May, June, July, August, September.

10. *Nathalis iole* Bdv. Gibson, Jefferson (B), Lake (B), Posey and Vanderburgh (B) counties. September 21-30, October 1-10.

11. *Zegris olympia* Edw. Lake county (B). May 1-10.

12. *Zegris genutia* Fab. Posey and Vanderburgh (B) counties. April 10-20.

13. *Catopsilia eubule* L. Gibson, Posey, Tippecanoe and Vanderburgh (B) counties. July, August, September, November 11-20.

14. *Catopsilia philea* L. Jefferson county (B).

15. *Zerene caesonina* Stoll. Lake (B), Posey, Vanderburgh (B) and Vigo (B) counties, August 21-31, September 21-30, October 20-31.

16. *Colias eurhytheme* Bdv. Franklin, Gibson, Knox, Kosciusko, Marion, Marshall, Monroe (B), Morgan, Owen, Porter, Posey, Putnam (B), Steuben, St. Joseph and Tippecanoe counties. April, May, June, July, August, September, October.

17. *Colias philodice* Godt. Allen, Franklin, Gibson, Johnson, Kosciusko, Knox, Marion, Marshall, Morgan, Owen, Porter, Posey, Steuben, St. Joseph, and Tippecanoe counties. April, May, June, July, August, September, October, November 1-20. A male specimen taken from debris in a wooded ravine near Lafayette by B. E. Montgomery, December 7, 1924. At the time of capture it was quite active.

18. *Terias nicippe* Cram. Fayette (B), Gibson, Marion, Posey, Tippecanoe and Vigo (B) counties. April 10-30, September, October, November 1-20.

19. *Terias lisa* Bdv. Decatur (B), Gibson, Lake (B), Marion, Posey, Tippecanoe and Vanderburgh (B) counties. August, September, October, November 11-20.

Danaidae

20. *Danais plexippus* L. Franklin, Gibson, Johnson, Knox, Marshall, Owen, Porter, Posey, Steuben, Tippecanoe and Vigo counties. April 11-30, June, July, August, September, October, November 11-20.

Satyridae

21. *Debis portlandia* Fab. Marion, Posey and Steuben counties. August.

22. *Cissia eurytus* Fab. Gibson, Lake (K), Marion, Posey and Tippecanoe counties. April 20-30, May, June, July, August, September 1-10.

23. *Satyrodes canthus* L. Elkhart (W), Lake (B), Marion and Steuben counties. June, July, August.

24. *Cercyonis alope* Fab. Allen, Elkhart (W), Lake (B), Marshall, Steuben, Wabash (B) and White (B) counties. July, August, September 1-21.

Nymphalidae

25. *Dione vanillae* L. Vanderburgh County (B).
26. *Euptoieta claudia* Cram. Elkhart (W), Gibson, Marion, Posey, Tippecanoe, and Vigo (B) counties. July 10-31, August, September, October 1-10.
27. *Argynnis idalia* Drury. Elkhart (W), Fayette (B), Lake (B), Marshall, Monroe (B) and Vanderburgh (B) counties. July.
28. *Argynnis diana* Cram. Vanderburgh county (B). June 20-30, July, August 1-20.
29. *Argynnis cybele* Fab. Allen, Franklin, Marion, Marshall, Owen, Porter, Posey, Steuben and Tippecanoe counties. June, July, August, September 1-20
30. *Argynnis aphrodite* Fab. Marshall county. July.
31. *Argynnis atlantis* Edw. Lake (B) and Vanderburgh (B) counties.
32. *Brenthis myrina* Cram. Lake (K), Marshall, Steuben and Vanderburgh (B) counties. July, August.
33. *Brenthis bellona* Fab. Marion county, August 10-20.
34. *Euphydryas phaeton* Drury. Decatur (B), Monroe (B), Vanderburgh (B) and Vigo (B) counties. June.
35. *Phyciodes nylcteis* Dbl. and Hew. Marion and Marshall counties. July, August.
36. *Phyciodes tharos* Drury. Franklin, Gibson, Johnson, Knox, Kosciusko, Marion, Morgan, Owen, Porter, Posey, Steuben, St. Joseph, Tippecanoe and Vigo counties. April 20-30, May, June, July, August, September, October 1-20, November 21-30.
37. *Polygonia interrogationis* Fab. Gibson, Johnson, Marion, Posey, and Tippecanoe counties. April 20-30, May, June, July, August, September, October, November 1-10.
38. *Polygonia comma* Harr. Gibson, Marion, Marshall, Posey and Tippecanoe counties. March 20-31, April, May, June, July, August, September, October.
39. *Polygonia progne* Cram. Marion and Marshall counties.
40. *Vanessa j-album* Bdv. and Lec. Decatur (B), Lake (B) and Vanderburgh (B) counties. July, August.
41. *Vanessa milberti* Godt. Allen, DeKalb, Lake (B), Marion, Marshall, Steuben, Tippecanoe and Vanderburgh (B) counties. July 10-31, August, September 1-20.
42. *Vanessa antiopa* L. Johnson, Marion, Marshall, Posey, Steuben and Tippecanoe counties. March 20-31, April, June, July, August, September, October 1-10.
43. *Cynthia atalanta* L. Franklin, Gibson, Kosciusko, Marion, Morgan, Owen, Porter, Posey, Steuben, St. Joseph and Tippecanoe counties. April 10-30, May, June, July, August, September, October 1-10.
44. *Cynthia huntea* Fab. Gibson, Marion, Posey and Tippecanoe counties. April 20-30, May, August, September, October 1-10.
45. *Cynthia cardui* L. Gibson, Marion, Posey, Steuben, Tippecanoe and Vigo (B) counties. March 21-31, April, June, July, August, September, October, November 11-20.
46. *Junonia coenia* L. Gibson, Jefferson (B), Lake (B), Marion, Marshall, Posey, Tippecanoe, Vanderburgh (B) and Vigo (B) counties. June, July, August, September, October, November 11-20. One specimen in Student Collection at Purdue University labelled Lafayette, Indiana, 1-20-1920.

47. *Basilarchia astyanax* Fab. Franklin, Gibson, Johnson, Knox, Kosciusko Marion, Marshall, Morgan, Owen, Posey, Steuben and Tippecanoe counties. June, July, August.
48. *Basilarchia arthemis* Drury. Lake county (B). June, July, August.
49. *Basilarchia archippus* Cram. Fountain, Franklin, Gibson, Johnson, Kosciusko, Marion, Marshall, Morgan, Owen, Porter, Posey, Steuben, St. Joseph and Tippecanoe counties. May 10-31, June, July, August, September, October.
50. *Chlorippe celtis* Bdv. and Lec. Gibson, Marion, Porter, Posey, Steuben, Tippecanoe and Wabash (B) counties. July, August.
51. *Chlorippe clyton* Bdv. and Lec. Gibson, Marion, Morgan, Posey and Wabash (B) counties. July, August.
52. *Anaea andria* Seud. Gibson, Marion, Posey, Tippecanoe, Vanderburgh (B) and Vigo (B) counties. April 12-31, May, June, July, August, September.

Libytheidae

53. *Libythea bachmani* Kirt. Gibson county, August 10-20. One specimen observed in Posey county October 3, 1930.

Lycenidae

54. *Allides halesus* Hbn. Lake county (B).
55. *Strymon cecrops* Fab. Monroe county (B). August 17, 1890.
56. *Strymon m-album* Bdv. and Lec. Jefferson (B) and Lake (B) counties.
57. *Strymon melinus* Hbn. Marion, Marshall and Porter counties. May, June, July, August.
58. *Strymon titus* Fab. "In all parts of the State—. July and August." Blatchley (3).
59. *Strymon edwardsii* Saund. "Found up to the present only in the northern part of the state." Blatchley (3).
60. *Strymon calanus* Hbn. Marion county. July 10.
61. *Strymon liparops* Bdv. and Lec. "All over the State." Blatchley (3).
62. *Mitoura damon* Cram. Lake county (B). May, August.
63. *Incisalia henrici* G. and R. Jefferson (B) and Posey counties. April, May 1-10.
64. *Incisalia polios* Cook and Wats. "—This butterfly has been taken near the Michigan boundary in Indiana,—." Moore (5).
65. *Feniseca tarquinius* Fab. Jefferson (B), Marion and Posey counties. April 10-20, May 10-31, July, August, September 1-20.
66. *Lycæna thoe* Bdv. Marion, Marshall, Posey and Tippecanoe counties. May, June, July, August, September, October 1-11.
67. *Lycæna epixanthe* Bdv. and Lec. Lake county (B). July, August.
68. *Lycæna hypophleas* Bdv. Franklin, Gibson, Kosciusko, Lake (K), Marion, Morgan, Marshall, Owen, Porter, Posey, Steuben, St. Joseph and Tippecanoe counties. April 20-30, May, June, July, August, September, October 1-10.
69. *Everes comyntas* Godt. Gibson, Johnson, Kosciusko, Knox, Marion, Morgan, Owen, Porter, Posey, Steuben, St. Joseph and Tippecanoe counties. May, June, July, August, September, October 1-20.
70. *Plebius scudderi* Edw. Lake county (K).
71. *Lycænopis pseudargiolus* Bdv. and Lec. Franklin, Gibson, Kosciusko, Lake (K), Marion, Marshall, Morgan, Owen, Porter, Posey, Steuben, St. Joseph,

Tippecanoe and Wabash (B) counties. March 21-31, April, May, June, July, August, September.

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