

A Bibliography of the Catalogs,
Lists, Faunal and Other Papers
on the Butterflies of
North America North of Mexico
Arranged by State and Province
(Lepidoptera: Rhopalocera)

WILLIAM D. FIELD
CYRIL F. DOS PASSOS
and JOHN H. MASTERS

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ABSTRACT

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Introduction

This bibliography was developed especially for students interested in their own or other local and regional faunas, with what has already been published in the form of manuals, guides, catalogs, lists of species, additions to lists of species, and the like, upon the fauna of Greenland, upon the fauna of each of the various states of the continental United States, and of the various provinces of Canada.

The development of this bibliography took place over a period of a great many years by all three of its authors. Until several years ago each of us was working independently, and then the opportunity arose to allow us to combine our efforts. In addition to the references collected by each of the

authors, numerous entries were supplied us by F. Martin Brown, Harry K. Clench, and John C. Downey.

It is obvious that all literature on our North American butterflies can be listed and arranged into a faunal bibliography, since all butterflies described and discussed from any and every viewpoint in our vast literature are naturally observed or taken from some locality or localities usually mentioned in the text. Such a bibliography embracing all of the literature would be highly desirable. We early realized that such a complete treatment would take all three of us the remainder of our lives. We did not have such a definitive bibliography in mind. Rather we thought of this bibliography as one that would offer as many appropriate titles as we could find in the sources searched.

In our search we decided to select all papers having the state name in the title and most other papers covering material from two or three states

William D. Field, Department of Entomology, National Museum of Natural History, Smithsonian Institution, Washington, D. C., 20560. Cyril F. dos Passos, Department of Entomology, American Museum of Natural History, New York, 10024. John H. Masters, P. O. Box 7511, St. Paul, Minnesota, 55119.

even if the names of the states involved were not mentioned in the title. Further we listed and included in the "Supplemental Bibliography" (found after the state and province treatments) pertinent papers which each covered a number of states. Attention is called to these papers in the introductory paragraph or paragraphs of the various state and province treatments. This "Supplemental Bibliography" allows the avoidance of a great amount of repetition in citing titles under the various states and provinces.

We have included a number of references to mimeographed material that were apparently only distributed by their authors. These would not be considered published or available for taxonomic purposes; however, they were included because any source of information can be important to students of distribution and zoogeography. For the same reason we have not excluded nonpublished theses.

In general, collecting notes buried in reports of meetings and in proceedings of societies have been omitted as well as the literature on economic insects. We also omitted references to the various well-known butterfly books by Holland, Klots, and Scudder, as being too general and too broad in geographic coverage. For the same reasons the various family, subfamily, genus, and group revisions were omitted. The numerous papers reporting upon various migrations of the Monarch butterfly were usually omitted. The annual "seasonal summaries" published by the Lepidopterists' Society in the *Lepidopterists' News* and in the *News of the Lepidopterists' Society* from 1947 until the present time and edited and contributed to by numerous workers were also omitted because of the difficulty in attributing authorship to the various parts of the many summaries and also because they are readily available for reference in the serial mentioned.

In developing this bibliography the following bibliography-oriented serials were thoroughly searched: *Zoological Record* (volume 1, 1864, through volume 102, 1965, the latest volume at hand); *Entomological News* (volume 1, 1890, through volume 82, 1971, both the contents of each volume and the very valuable section entitled "Entomological Literature," which was later entitled "Current Entomological Literature" and which was published in every issue from volume 1, number 2, through volume 65, 1954); *Lepidop-*

terists' News (volume 1, 1947, through volume 12, 1958, both the contents of each volume, except as noted in the paragraph above, and the section entitled "Recent Papers on Lepidoptera" and later changed to "Recent Literature on Lepidoptera"); *Journal of the Lepidopterists' Society* (a change in title and a continuation of the foregoing, volume 13, 1959, through volume 26, number 3, 1972, both the contents of each volume, except as noted in the paragraph above and the section entitled "Recent Literature on Lepidoptera," which was discontinued after issue number 4 of volume 21, 1966).

For the literature of the years 1966 through 1969, particularly poor years for bibliographical research because of the cessation of published bibliographies or literature listings by the *Journal of the Lepidopterists' Society* and earlier by *Entomological News* (1954), the very excellent *Bibliography of Agriculture* was thoroughly searched through the year 1969, the year before a drastic change was made in the format of the latter.

In addition to the serial publications mentioned above, the following list of periodicals is composed of those either searched for a lengthy period of years, in some cases in their entirety or through about the year 1972. We chose to search these thoroughly because we knew them to contain a number of faunal papers beyond those listed as occurring in them in *Zoological Record* and *Entomological News* or because in some instances they were published prior to volume 1 of *Zoological Record* (1864).

British Columbia, Bulletin Entomological Society (number 1, 1906, through number 10, 1908).

British Columbia, Journal Entomological Society (volume 64, 1967, through volume 69, 1972; a continuation of the *Proceedings* with a change in title).

British Columbia, Proceedings Entomological Society (volume 1, 1911, through volume 63, 1966, all issued).

Brooklyn Entomological Society, Bulletin (volume 1, 1878, through volume 5, 1883; volume 6, 1912, through volume 60, 1965, all issued).

California Academy Sciences, Bulletin (volume 1, 1884, through volume 2, 1887).

California Academy Sciences, Proceedings (volume 1, 1854, through volume 7, 1877).

Canadian Entomologist (volume 1, 1868, through volume 104, number 4, April 1972).

Canadian Naturalist (volume 1, 1856, through volume 8, 1863; second series, volume 1, 1864, through volume 10, 1883).

Cincinnati Society of Natural History, Journal (volume 1, 1878, through volume 22, 1945).

- Entomologists' Exchange Association, Bulletin and News* (numbers 1 through 3, 1936 and volume 2, number 3, 1937, through volume 7, number 2, 1942, all available to us).
- Field and Forest* (volume 1, 1875, through volume 3, 1878, all issued).
- Florida Buggist*, later *Florida Entomologist* (volume 1, 1917, through volume 55, number 2, June 1972).
- Lepidoptera* (volume 2, 1918, through volume 4, 1920, all issued).
- Lepidopterist* (volume 1, 1916, through volume 5, number 3, 1931, all issued).
- Lepidopterists' News* (Florida) (volume 1, numbers 1, 2, all issued).
- Lorquinia* (volume 1, 1916, through volume 2, number 6, 1919, all issued).
- Maryland Academy Sciences, Bulletin* (volume 1, 1921, through volume 8, 1929, all issued).
- Maryland Academy Sciences, Journal* (volume 1, 1930, through volume 3, 1932, all issued).
- Maryland, A Journal of Natural History* (volume 14, 1944, through volume 17, 1947, all issued. A continuation and change in title of *Bulletin Natural History Society Maryland*).
- Maryland, Bulletin Natural History Society* (volume 1, 1930, through volume 12, 1943, all issued).
- Maryland Naturalist* (volume 18, 1948, through volume 30, 1960. A continuation and change in title of *Maryland, A Journal of Natural History*).
- Michigan Entomologist* (volume 1, 1966, through volume 3, 1970).
- Mid-Continent Lepidoptera Series* (volume 1, 1967, through volume 5, number 3, May 1972).
- Minnesota Entomologists, Bulletin Association* (volume 1, 1966, through volume 5, number 2, 1972).
- Museum of Zoology, University of Michigan, Occasional Papers* (number 1, 1913, through number 573, 1956).
- New York Entomological Society, Journal* (volume 1, 1893, through volume 80, number 1, March 1972).
- Pan-Pacific Entomologist* (volume 1, 1924, through volume 48, number 2, April 1972).
- Papilio* (volume 1, 1881, through volume 4, 1884, all issued).
- Psyche* (volume 1, 1874, through volume 8, 1971).
- Research on Lepidoptera, Journal* (volume 1, 1962, through volume 10, number 1, March 1971).
- Southern California Academy Sciences, Bulletin* (volume 1, 1902, through volume 69, part 2, October 1970).

In addition, numerous titles encountered elsewhere through the year 1972 were added. The authors, however, do not claim to have found all appropriate titles and will be receptive to notices of omission.

Article titles are quoted verbatim from the journals in which they appeared. Punctuation and the rendering of bibliographic terminology such as "number" and "part," however, have been made consistent herein for clarity in usage.

The arrangement of the numerous bibliographies offered in this paper is of a single alphabetical list combining Greenland, the provinces of Canada, and the states of the United States. Thus the bibliography for Greenland is found after Georgia and before Idaho, and the bibliography for Saskatchewan is found after Rhode Island. Each of the political districts into which the Northwest Territories, Canada, is subdivided are treated separately because of their immense size. This was thought to be more meaningful than to have a single set of entries under the broader heading.

A perusal of this paper shows that there are no statewide or province-wide lists or other comprehensive treatments at all for Alabama, Alaska, Arizona, Arkansas, Delaware, District of Franklin, District of Keewatin, District of Mackenzie, Idaho, Maryland, Massachusetts, Missouri, Nevada, New Mexico, Oklahoma, Prince Edward Island, Rhode Island, Saskatchewan, South Carolina, South Dakota, Vermont, West Virginia, and the Yukon Territory. The butterfly faunas of numerous other states and provinces have not received adequate attention.

Bibliography is the handmaiden of all research. It is our hope that this bibliography will stimulate much future work on the fauna of North America.

Alabama

There is no comprehensive treatment for this state. See Grote 1871, Woodruff 1919, Bell 1926, and Engelhardt 1928 for papers giving a few collecting notes and descriptions. Also see Bell 1926b, Mather 1963, and Reading 1903 in the "Supplemental Bibliography."

Bell, Ernest Layton

1924. A New Locality for *Copaodes minima* Edwards. *Bulletin Brooklyn Entomological Society*, 19 (2):43. (12 April.)

1926. Notes on Some Hesperidae from Alabama (Lepidoptera, Rhopalocera). *Journal New York Entomological Society*, 34 (3):269-271. (September [31 October].)

Dukes, W. C.

1922. Concerning *Papilio ajax*. *Bulletin Brooklyn Entomological Society*, 17(3):97. (June, 6 September).

Engelhardt, George Paul

1928. Collecting at Mobile, Alabama. *Bulletin Brooklyn Entomological Society*, 22(5):251-253. (December 1927, 11 January.)

Faust, Charles

1909. *Satyrus pegala*. *Entomological News*, 20(2):57. (February.)

Grote, August Radcliffe

1871. Descriptions of Lepidoptera from Alabama. *Canadian Entomologist*, 3(6):101-105. (September.)
1872. On a New Checkered *Hesperia*. *Canadian Entomologist*, 4(4):69-70. (April.)

Lindsey, Arthur Ward

1923. New North American Hesperidae (Lepid.). *Entomological News*, 34(7):209-210. ([5] July.)

Woodruff, Lewis Bartholomew

1919. Fall Notes on Some Alabama Butterflies. *Journal New York Entomological Society*, 27(3-4):159-161. (June-September.)

Alaska

There is no comprehensive treatment for Alaska. There are a number of papers which give the results of expeditions and collecting trips: Scudder 1869, Edwards 1887, Nelson 1887, Dyar 1900, Holland 1900, Dyar 1910, Gibson 1920, Johnson 1950, Weber 1950, Smith 1953, Ehrlich 1958a, Legge 1965, Lindroth and Ball 1970.

Additional titles of interest are to be found in the "Supplemental Bibliography": Clark 1932, 1935, dos Passos 1958, Downes 1964, H. Edwards 1874, 1881a, W. H. Edwards 1882c, 1886a, Ehrlich 1954b, 1956, Gunder 1931, 1932, P. S. Remington 1953, Skinner 1906.

Ball, George E.

1970. See Lindroth, Carl H., and George E. Ball.

Dyar, Harrison Gray

1900. Papers from the Harriman Alaska Expedition, XII, Entomological Results (6): Lepidoptera. *Proceedings Washington Academy Sciences*, 2:487-501. (20 December.)
1910. [Lepidoptera of the Harriman Expedition.] Pages 211-227 in *Insects*. Part 1 in volume VIII, *Harriman Alaska Series*. 238 pages, 9 figures, 17 plates. New York: Doubleday Page and Company. [A reprint of Dyar 1900.]

Edwards, William Henry

1887. *Insects*. Part IV in Report upon the Diurnal Lepidoptera Collected in Alaska by E. W. Nelson. Pages 323, 327-330 in Edward W. Nelson (edited by Henry W. Henshaw), *Report upon Natural History Collections Made in Alaska Between the Years 1877 and 1881*. No. III in *Arctic Series of Publications Issued in Connection with the Signal Service U.S. Army*. 337 pages, 21 plates. Washington, D. C.: Government Printing Office.

Ehrlich, Paul Ralph

- 1958a. Lepidoptera Collected in the Tundra-Taiga

Ecotone at Kotzebue, Alaska. *Entomological News*, 69(1):17-20. ([18] January.)

- [1958]b. Problems of Arctic-Alpine Insect Distribution as Illustrated by the Butterfly Genus *Erebia* (Satyridae). *Proceedings Tenth International Congress of Entomology*, 1:683-686. (1956 [1958].)

Forbes, William Trowbridge Merrifield

1923. [Lepidoptera.] Pages 147-149 in *A Biological Survey of the Pribilof Islands, Alaska, II: Insects, Arachnids, and Chilopods*. *North American Fauna*, 46: 255 pages, 15 plates (including 4 maps). U.S. Department of Agriculture, Bureau of Biological Survey. (20 June.) [Included here for its negative evidence.]

Gibson, Arthur

1920. *Report of the Canadian Arctic Expedition 1913-18*, volume III: *Insects*, part I: *Lepidoptera*. 58 pages, 5 plates. Ottawa: J. de Labroquerie Taché.

Holland, William Jacob

- 1900a. Alaska Insects, part I. *Entomological News*, 11(3): 381-389. (March.)
1900b. Alaska Insects, part II. *Entomological News*, 11(4): 416-423. (April.)

Hovanitz, William

1955. *Colias nastes* and *Colias hecla* from the Meade River, Alaska. *Wasmann Journal of Biology*, 13(1): 1-8, figures 1, 2. (Spring.)

Johnston, Edward C.

1950. Lepidoptera of the Pribilof Islands, Alaska. *Lepidopterists' News*, 4(3):27-30. [3 June.] [Included for its negative evidence.]

Klots, Alexander Barrett

1940. A New *Brenthis* from Alaska (Lepidoptera, Nymphalidae). *Journal New York Entomological Society*, 48(4):413-414. ([17] December.)

Legge, Allan H.

1965. A Collecting Trip in Yukon and Alaska. *Journal Lepidopterists' Society*, 19(1):57-62. (31 March.)

Lindroth, Carl H., and George E. Ball

1970. [Lepidoptera.] Pages 138-139 in chapter 7, An Annotated List of Invertebrates of the Kodiak Island Refugium, in Thor N. V. Karlstrom and George E. Ball, editors, *The Kodiak Island Refugium*. Toronto: The Ryerson Press.

Munroe, Eugene Gordon

1950. The Occurrence of a Butterfly in the Pribilof Islands. *Lepidopterists' News*, 4(4-5):44. [16 November.]

Nelson, Edward J.

1887. Introduction. Page 325 in *Insects*, Part IV in Report upon the Diurnal Lepidoptera Collected in Alaska by E. W. Nelson (by W. H. Edwards) in *Report upon the Natural History Collections Made in Alaska Between the Years 1877 and 1881*. [See Edwards 1887 above.]

Rawson, George William

1954. Birds and Butterflies or Vice Versa. *The Auk*, 71: 209-211. (April.)

Scudder, Samuel Hubbard

1869. Report upon a Collection of Diurnal Lepidoptera

Made in Alaska by the Scientific Corps of the Russo-American Telegraph Expedition under the Direction of Lieut. W. H. Dall. *Proceedings Boston Society Natural History*, 12:404-408. (May.)

Smith, Marion Estelle

1953. More Butterflies from Alaska and the Highway. *Lepidopterists' News*, 7(3-4):123-126. (5 November.)

Weber, Neal Albert

1950. A Survey of the Insects and Related Arthropods of Arctic Alaska, part I. *Transactions American Entomological Society*, 76(3):147-206, plates 4-10 (September, 11 October.)

Alberta

The earliest records for Alberta are offered by Geddes 1884, Bean 1890a, 1890b; 1894 gives data for Laggan.

Wolley-Dod 1901, 1908a, 1908b, 1908c offers a preliminary list for the province followed by further notes.

Bowman 1919 gives the first comprehensive list and later adds to this a series of papers giving additional records: 1921a, 1921b, 1923, 1924, 1928, 1934, 1944. These are followed by Bowman 1951, the latest comprehensive list.

In the "Supplemental Bibliography" see the following additional titles: Bryant 1935b, Cary 1906, Chermock 1929, dos Passos 1958, W. H. Edwards [1884]a, 1890, Ehrlich 1954a, Geddes [1884]a, 1884b, 1885, 1889, Gillham 1954, Gunder 1930, Hall 1924, Holland 1888, Masters 1969a, [1969]b, McDunnough 1924, 1936, McGugan 1958, P. S. Remington 1953, Skinner 1906, M. E. Smith 1953, Wolley-Dod 1908.

Bean, Thomas Ebaneser

1890a. The Butterflies of Laggan, N.W.T.; Account of Certain Species Inhabiting the Rocky Mountains in Latitudes 51° 25'. *Canadian Entomologist*, 22(5):95-99. (2 May.)

1890b. *Idem.* *Canadian Entomologist*, 22(7):126-132. (4 July.)

1893. *Idem.* *Canadian Entomologist*, 25(6):145-149. (12 June.)

1894. *Idem.* *Canadian Entomologist*, 26(6):155-156. (9 June.)

1895. A Comparison of *Colias hecla* with *Colias meadii* and *Colias elis*. *Psyche*, 7(228):219-229. (April.)

Bowman, Kenneth

1919. *Annotated Check-List of the Macrolepidoptera of Alberta*. 16 pages. Red Deer, Alberta: Alberta Natural History Society.

1921a. Annotated Check List of the Macrolepidoptera of Alberta—additions, 1919. *Canadian Entomologist*, 53(1):13-14. (31 January.)

1921b. Annotated Check List of the Macrolepidoptera of Alberta—additions, 1920. *Canadian Entomologist*, 53(9):211-212. (September, 8 December.)

1923. Annotated Check List of the Macrolepidoptera of Alberta—additions, 1921. *Canadian Entomologist*, 55(3):71-72. (March, 16 April.)

1924. Annotated Check List of the Macrolepidoptera of Alberta. Additions. *Canadian Entomologist*, 56(8):189-191. (29 August.)

1928. Additions to Annotated Check List of the Macrolepidoptera of Alberta. *Canadian Entomologist*, 60(5):117-118. (May, 2 June.)

1934. Annotated Check List of Macrolepidoptera of Alberta—additions and corrections. *Canadian Entomologist*, 66(6):131-132. (30 June.)

1938. Additions and Corrections to Check List of Macrolepidoptera of Alberta. *Canadian Entomologist*, 70(12):260-261. (31 December.)

1942. A Note on *Colias eurytheme* Bdv., with Description of a New Race (Lepidoptera, Pieridae). *Canadian Entomologist*, 74(2):25. (February, 9 March.)

1944. Additions and Corrections to the Check List of the Macrolepidoptera of Alberta. *Canadian Entomologist*, 76(9):191-192. (September, 19 October.)

1951. An Annotated List of the Lepidoptera of Alberta. *Canadian Journal of Zoology*, 29(2):121-165. (April.)

dos Passos, Cyril Franklin, and Lionel Paul Grey [1957]. A New Name for *Argynnis lais* Edwards (Lepidoptera, Rhopalocera). *Journal New York Entomological Society*, 63:95-96. (1955 [8 March, 1957].)

Edwards, William Henry

1890. Description of a New Species of *Argynnis* from Canada. *Canadian Entomologist*, 22(6):113-114. (4 June.)

1891. Description of a New Species of *Argynnis* from Alberta Territory. *Canadian Entomologist*, 23(9):198-199. (21 September.)

1893. Notes on *Chionobas subhyalina*, Curtis. *Canadian Entomologist*, 25(6):137-139. (12 June.)

1894. On *Chionobas alberta*, Elwes. *Canadian Entomologist*, 26(7):192. (6 July.)

Elwes, W. J.

1893. *Argynnis astarte*. *Canadian Entomologist*, 25(7):186. (7 July.)

Geddes, Gamble

1884. List of Diurnal Lepidoptera Taken in the Northwest and Rocky Mts., Season of 1884, with Localities. *Canadian Entomologist*, 16(12):224. (December.)

1885. *Euptoieta claudia*. *Canadian Entomologist*, 17(3):60. (March.)

1887. Notes on the Genus *Argynnis* Whilst Alive in the Imago State. *Canadian Entomologist*, 19(12):230-235. (December.)

Grey, Lionel Paul

[1957]. See dos Passos, Cyril Franklin, and Lionel Paul Grey.

Hooper, Ronald

1967. New Butterfly Records for Saskatchewan and Alberta. *Blue Jay*, 25(2):83-84. (June.)

Leech, Hugh B.

1946. Flights of *Nymphalis californica* Bdv. in British Columbia and Alberta in 1945. *Canadian Entomologist*, 77(11):203. (November 1945, 18 April 1946.)

Masters, John H.

- [1971]. Concerning *Colias eurytheme alberta* Bowman (Pieridae). *Journal Research on the Lepidoptera*, 9(2):97-99. (June 1970 [received Smithsonian Institution Library 18 August 1971].)

McDunnough, James Halliday

1922. Notes on the Lepidoptera of Alberta. *Canadian Entomologist*, 54(6):134-141. (June, 9 September.)
1939. A New Race of *Papilio* Belonging to the *Machaon* Complex. *Canadian Entomologist*, 71(10):216-217, 1 figure. (October [3 November].)

Skinner, Henry

1908. *Argynnis astarte*, Doubl.-Hew. *Canadian Entomologist*, 40(1):14-15. (8 January.)
1911. *Colias nastes streckeri* Gr. Grum-Grshimailo. *Entomological News*, 22(5):231. (May [28 April].)

Whitehouse, F. C.

1918. A Week's Collecting on Coliseum Mountain, Nordegg, Alta. *Canadian Entomologist*, 50(1):1-7. (16 January.)

Wolley-Dod, Frederick Hova

1895. Spring Collecting in Alberta. *Canadian Entomologist*, 27(7):176-178. (2 July.)
1898. Notes on Some Alberta Butterflies. *Canadian Entomologist*, 30(12):298-300. (13 December.)
- 1901a. Preliminary List of the Macro-lepidoptera of Alberta, N.-W.T. *Canadian Entomologist*, 33(2):40-42. (5 February.)
- 1901b. Idem. *Canadian Entomologist*, 33(6):155-172. (3 June.)
1907. Notes on *Chrysophanus hypophlaea* and Its Allies, with Description of a New Species. *Canadian Entomologist*, 39(5):169-171. (4 May.)
- 1908a. Further Notes on Alberta Lepidoptera. *Entomological News*, 19(3):124-125. (March.)
- 1908b. Idem. *Canadian Entomologist*, 40(5):149-156. (8 May.)
- 1908c. Idem. *Canadian Entomologist*, 40(6):181-193. (5 June.)

Arizona

There is no comprehensive list or treatment for Arizona. The early papers giving distributional data are: W. H. Edwards 1875 (see in the "Supplemental Bibliography"), Mead 1875 (in "Supplemental Bibliography"), Scudder 1878, W. H. Edwards 1882b, 1883b, Skinner 1901, Snow 1904, 1905, 1907.

There are a number of local treatments and notes: Bauer 1954a (Verde Valley), 1954b (central Arizona), O. D. Chermock 1954 (southeastern Arizona), Dawson and Blevins 1945 (eastern mount-

tains), Garth 1944 (Organ Pipe Cactus National Monument), 1950 (Grand Canyon National Park), Haskin 1914 (Mojave County), Stone 1921 (Chiricahua Mountains), Williams and Grinnell 1905 (Mt. Diablo).

See the following in the "Supplemental Bibliography": Bell [1926]a, 1941, Brown [1958], 1966, 1967, Clemence 1912, Clench 1967, J. A. Comstock 1935, 1936, W. P. Comstock 1911a, Coolidge 1908, 1911, Dyar 1904, W. H. Edwards 1875, 1877c, 1883, 1884a, 1886b, Ehrmann 1925, W. D. Field 1936b, Garth 1928a, 1928b, Grinnell 1901, Mattoni 1954, Mead 1875, Nabokov 1942, Skinner 1895b, 1902, 1911b, 1917, 1922, Stallings and Turner 1957, 1960, Wright 1922.

Barnes, William, and James Halliday McDunnough

1912. *Basilarchia weidermeyerii angustifascia*, a New Geographical Race. *Canadian Entomologist*, 34(5):163. (8 May.)

Bauer, David L.

1949. New Locality for *Oeneis daura*. *Lepidopterists' News*, 3(3):25. (March [9 May].)
- 1954a. A Survey of the Butterflies of the Verde Valley. *Plateau* (Museum of Northern Arizona), 26(3):95-102. (January.)
- 1954b. Butterflies at Water Holes in Central Arizona. *Lepidopterists' News*, 7(5-6):146-147. (1953, 12 February 1954.)
- 1954c. An Apparent Hybrid *Ligmenitis* from Arizona. *Lepidopterists' News*, 8(5):129-130. (20 October.)
- 1955a. Notes on the *Papilio machaon* Complex in Arizona. *Lepidopterists' News*, 9(1):7-10. (8 April.)
- 1955b. A New Race of *Papilio indra* from the Grand Canyon Region. *Lepidopterists' News*, 9(2-3):49-54, 1 plate. (10 August.)

Bell, Ernest Layton

1927. Description of a New Species of *Erynnis* (*Thanaos* Auct.), (Lepidoptera-Rhopalocera-Hesperidae). *Journal New York Entomological Society*, 35(3):261-263. ([27] September.)

Blevins, T. B.

1945. See Dawson, Elmer Yale, and T. B. Blevins

Brown, Keith S., Jr.

1965. Some Comments on Arizona Butterflies (Papilionoidea). *Journal Lepidopterists' Society*, 19(2):107-115, 1 plate. (15 July.)

Burdick, William N.

1939. Comments of a Field Worker on the New Race *Euphydryas chalcona klotsi*-Dos P. (Lepid.-Rhopalocera). *Bulletin Southern California Academy Sciences*, 38(1):36-38. (January-April, 15 May.)

Burnes, John M.

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Colorado

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Georgia

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Greenland

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Idaho

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Illinois

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Iowa

Scudder 1868 and 1869 presents some early information and a preliminary state list. Lindsey 1917 and 1920 offers a more complete list and some additions. Miller 1962 adds a few more records to the state list; however, no recent comprehensive list has been published.

Regional lists are: Berry 1914 (Linn County), Lindsey 1915 (Woodbury County), Pellett 1915 (Cass County), Porter 1908 (Decorah), and Putnam 1872 (Davenport).

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Kansas

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For additional titles see the "Supplemental Bibliography": Clench 1943, Field 1936b, 1938c, Holland 1906.

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Louisiana

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- ### Maine
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1931. A New Subspecies of *Poanes massasoit* Scudder. *Annals Carnegie Museum*, 21(1):7-9, figure 1. (14 November.)
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- 1936b. The Gold-banded Skipper (*Rhabdoides cellus*). *Smithsonian Miscellaneous Collections*, 95(7):1-50, figures A-H, plates 1-8. (6 May.)
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- ### New York
- The earliest work giving a treatment of the fauna of this state is Emmons 1854. A checklist for the state is offered by Forbes 1928, followed many years later by Forbes 1960, an extensive and excellent account.
- Regional lists and notes are as follows: Bailey 1877 (Center), Beutenmüller 1890 (area within 50 miles of New York City), 1893 (area within 50 miles of New York City), 1902 (vicinity New York City), Bruce 1883 (Monroe County), Burns 1918 (Ft. Wadsworth, Staten Island), Cleveland 1896 (Oeonta), G. F. Comstock 1903 (Adirondack Mountains), 1904 (Keene Valley), Davis 1893 (Staten Island), 1895 (Watchogue and Beulah Land, Staten Island), 1909 (Staten Island), Forbes 1926 (Lloyd-Cornell Reservation), Gohla 1963 (Bay Ridge), MacGillivray and Houghton 1903 (Adirondack Mountains), Saunders 1932 (Allegany State Park), Van Duzee 1891 (Buffalo and vicinity), Watson 1918a (Fort Montgomery), White 1894 (Prospect Park, Brooklyn), and Wild 1939 (Niagara Frontier region).
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Northwest Territories

See bibliographies of the Districts of Franklin, Keewatin, and Mackenzie. We chose to treat each of the three districts of the Northwest Territories separately because of the immense size of each (District of Franklin, area including water equals 549,253 square miles; District of Keewatin, area including water equals 228,160 square miles; District of Mackenzie, area including water equals 527,490 square miles).

Nova Scotia

Three early papers giving notes and lists of the butterflies of this province are Bethune 1870b, Jones 1872a, 1872b, and Silver 1888. Ferguson 1954 is the comprehensive treatment. Regional notes and lists are: Belt 1864 (Halifax), Eaton 1896 (Truro), Perrin 1919 (Halifax, Digby), Perrin and Russell 1912 (Halifax, Digby), Piers 1896 (Truro), and Scudder 1876 (Cape Breton Island). For additional references see the following in the "Supplemental Bibliography": Bethune 1873a, 1873b, 1894, T. N. Freeman 1943, Hall 1924, McGugan 1958.

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Ohio

There is one list purporting to cover the whole state, Hine 1898a, 1898b. There are a number of local lists and notes. Bales 1909 (Pickaway County), Dury 1878 (Cincinnati), Henniger 1910 (Seneca County), Kirtland 1874 (northern and middle Ohio), Kistner [1949] (Ohio Valley region), Pilate 1879 (Dayton), 1882 (Dayton), Porter 1965 (northwestern Ohio), Price 1970 (northwestern Ohio), Studebaker and Studebaker 1967 (Miami County) and Wyss [1932] (Cincinnati and vicinity).

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Oklahoma

The butterfly fauna of this state has received less attention than any other state of the United States except for Delaware and Vermont. There is no state list for Oklahoma nor any regional list. We have found only six references to list in this bibliography in addition to the five references we call attention to in the "Supplemental Bibliography." These six references give records for only a few species of butterflies. The five references in the "Supplemental Bibliography" are: W. D. Field 1938c, H. A. Freeman 1942, 1948, Reinthal [1967], and Stallings and Turner 1943.

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Ontario

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paper purporting to cover the whole province of Ontario is Riotte 1970.

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1908. A Preliminary List of the Lepidoptera of Western Pennsylvania Collected in the Vicinity of Pittsburgh. *Annals Carnegie Museum*, 5(1):27-136. (18 November.)
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1911. Butterflies of Montour County, Pennsylvania (Lepid.) *Entomological News*, 22(9):422-423. (November [30 October].)
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Prince Edward Island

We have been unable to find any treatment for this province of Canada. T. N. Freeman 1943, in the "Supplemental Bibliography" offers a little information on a single species.

Quebec

The earliest list for Quebec is a local one for Compton; see Gosse 1841. Brodie and White 1888 is an early list for the insects of "the Dominion of Canada" that lists mainly the species found in Ontario and Quebec. Winn 1912, Roy 1924, and Provancher and Huard 1927a-1928e (and 1929, a reprint of the latter) are later lists.

Some local notes, lists, and treatments are: Bowles 1870 (Quebec), 1887 (Montreal), Caulfield 1875 (Island of Montreal), 1876a (Island of Montreal), 1876b (Island of Montreal), Chagnon 1911 (St. Fabien), Corneau 1875 (Godbout River, north shore St. Lawrence), Couper 1872 (Fox Bay, Anticosti Island and north shore St. Lawrence), D'Urban 1859 (valley of River Rouge), 1860a (valley of River Rouge), 1860b (Montreal), Edwards 1972 (Ft. Chimo, Ungava Bay), Ferguson and Rupert 1951 (Gaspé Peninsula), Grote 1874a (Anticosti Island), 1874b (Anticosti Island), Lyman 1876 (Montreal), McDunnough 1930 (north shore of St. Lawrence), Monroe 1951 (Knob Lake, northern Quebec), Pearson 1875c (Chateauguay Basin), Saunders 1868 (Saquenay), Schmitt 1904 (Anticosti Island), Winn 1891a (Little Metis, Rimouski County), 1891b (Montreal), 1909a (Island of Montreal).

In the "Supplementary Bibliography" see the following: Arthur 1966, Bethune 1873b, Clark 1932, 1935, Couper 1869, 1874a, 1874b, 1874c, de Worms 1958, D'Urban 1857a, 1857b, T. N. Freeman 1943, Kirby 1837, 1896, McDunnough 1942, McGugen 1958, Mousley 1923, Pearson 1877, Ritchie 1869, Ross 1873, Winn 1916, 1919.

Anthony, George Scott

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Bethune, Charles James Stewart

1868. Notes on Canadian Lepidoptera. *Canadian Entomologist*, 1(2):9-11. (15 September.)
1898. *Papilio brevicauda*, Saunders. *Canadian Entomologist*, 30(12):304. (13 December.)

Billings, Elkanah

1857. Notes on the Natural History of the Mountain of Montreal, 2: A Rare English Butterfly, Common. *Canadian Naturalist and Geologist*, 2(2):93-96. (May.)

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1864. On the Occurrence of *Pieris rapae* in Canada. *Canadian Naturalist*, second series, 1(4):258-262. (August.)

1870. List of Lepidoptera Taken at Quebec. *Canadian Entomologist*, 2(7):95-96. (16 May.)
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1872. Notes on *Pieris rapae*. *Canadian Entomologist*, 4(6):102-105. (June.)
1887. Additions to List of Montreal Lepidoptera. *Canadian Entomologist*, 19(5):86-88. (May.)
Brodie, William, and J. E. White
1883. *Check List of Insects of the Dominion of Canada*. 67 pages. Toronto: C. Blackett Robinson.
Caulfield, Frank B.
1873a. *Pieris rapae*. *Canadian Entomologist*, 5(3):59. (March.)
1873b. Rare Captures. *Canadian Entomologist*, 5(8):155. (August.)
1875. List of Diurnal Lepidoptera of the Island of Montreal, P. Q. *Canadian Entomologist*, 7(5):86-90. (May.)
1876a. Addenda to Lists of Diurnal Lepidoptera, Sphingidae and Zygaenidae Occurring on the Island of Montreal, P. Q. *Canadian Entomologist*, 8(2):38-39. (February.)
1876b. List of Diurnal Lepidoptera of the Island of Montreal. *Canadian Naturalist*, new series, 8(1):25-27. [Published before May 17, 1876, the date of volume 8, number 2.]
1877. Notes on Hibernation Butterflies. *Canadian Entomologist*, 9(2):40. (February.)
1890. Notes of the Year. *Canadian Entomologist*, 22(1):19. (9 January.)
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1911. Lepidoptera Taken at St. Fabien, Que. *Canadian Entomologist*, 43(1):1-3. (11 January.)
Cockerell, Theodore Dru Alison
1890. *Erebia epipsodea* var. *sine-ocellata* Skinner. *Canadian Entomologist*, 22(2):40. (4 February.)
Comstock, William Phillips
1943a. New Records (Lepidoptera). *Journal New York Entomological Society*, 51(2):132. (June [6 May].)
1943b. New Records (Lepidoptera). *Journal New York Entomological Society*, 51(3):224. ([7] September.)
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1875. *Papilio brevicauda*, Saunders. *Canadian Entomologist*, 7(1):18. (January.)
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1971. L'hésperie européenne, *Thymelicus lineola* (Ochs.), Lépidoptères: HesperIIDae. *Annales Société Entomologique Québec*, 16(2):78-82, figures 1, 2.
- D'Urban, William Stewart M.
1857. On the Order Lepidoptera, with the Description of Two Species of Canadian Butterflies. *Canadian Naturalist and Geologist*, 2(3):215-226, plate 3. (July.)
1858. Description of Two Species of Canadian Butterflies. *Canadian Naturalist and Geologist*, 3(5):346-351, figures 1-4. (October.)
1859. Observations on the Natural History of the Valley of the River Rouge, and the Surrounding Townships in the Counties of Argenteuil and Ottawa. *Canadian Naturalist and Geologist*, 4(5):252-276. (August.)
1860a. Idem. *Canadian Naturalist and Geologist*, 5(2):81-99. (April.)
1860b. A Systematic List of Lepidoptera Collected in the Vicinity of Montreal. *Canadian Naturalist and Geologist*, 5(4):241-266. (August.)
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1868. *Papilio machaon* in British America. *Canadian Entomologist*, 1(3):22. (15 October.)
1873. [*Papilio* from Anticosti.] *Canadian Entomologist*, 5(8):153-154. (August.)
1972. Report on a Collection of Butterflies Made Mostly at Ft. Chimo, Ungava, Hudson Strait, by L. M. Turner in July, August, and September, 1883-4. (Introduction by W. D. Field.) *Mid-Continent Lepidoptera Series*, 2(33 [sic], [32]):i-[ii], 1-6. (January.)
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- Fletcher, James
1904. A New Food-Plant for the Common Spring Blue. *Canadian Entomologist*, 36(1):4. (4 January.)
- Fyles, Thomas W.
1887. Note on *Thecla augustus*. *Canadian Entomologist*, 19(8):147. (August, 30 July.)
1888. Description of the Preparatory Stages of *Chionobas jutta*. *Canadian Entomologist*, 20(7):131-133. (July.)
1895. The Life-History of *Pamphila manitoba*, Scudder. *Canadian Entomologist*, 27(12):346-349. (9 December.)
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1840. *The Canadian Naturalist, a Series of Conversations on the Natural History of Lower Canada*. xii + 372 pages, 44 unnumbered figures. London: John van Voorst.
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1954. 1952 Captures in Quebec. *Lepidopterists' News*, 8(3-4):102. (17 September.)
1967. Some Biometrics in *Pieris* and *Colias* (Lepidoptera: Pieridae) in Quebec and Nova Scotia. *Journal New York Entomological Society*, 75(1):12-17, figures 1-4. (March, 3 May.)
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1874b. On the Butterflies of Anticosti. *Bulletin Buffalo Society Natural Science*, 1(4):185. (November 1873, 1874.)
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1927a-1929. See Provancher, Léon, and Victor A. Huard.
- Jack, John G.
1883. [Quebec notes.] *Canadian Entomologist*, 14(11):219. (November 1882 [5 January 1883].)
1885. Entomological Notes. *Canadian Entomologist*, 17(1):29-31. (January.)
- Lyman, Henry Herbert
1874. [A letter.] *Canadian Entomologist*, 6(2):38. (February.)
1876. [Additions to Island of Montreal List.] *Canadian Entomologist*, 8(1):20. (January.)
1897. Notes on *Grapta interrogationis*, Fabr. *Canadian Entomologist*, 29(12):273-277. (6 December.)
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1930. The Lepidoptera of the North Shore of the Gulf of St. Lawrence. *Canadian Entomologist*, 62(5):107-117. (May, 2 June.)
- Monroe, Eugene
1951. Field Notes on the Butterflies of Knob Lake, Northern Quebec. *Lepidopterists' News*, 5(1-2):7-9. [6 June.]
- Mousley, Henry
1927. *Thanaos juvenalis* Fabr. (Lepidoptera). *Canadian Entomologist*, 58(12):293. (December 1926, 3 January 1927.)
- Pearson, C. W.
1875a. [*Colias eurytheme* in Montreal.] *Canadian Entomologist*, 7(4):80. (April.)
1875b. *Grapta satyrus* (Edwards). *Canadian Entomologist*, 7(11):216-217. (November.)
1875c. List of Lepidoptera Taken at Chateauguay Basin, June 30th and July 1st, 1875. *Canadian Entomologist*, 7(12):244. (December.)
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1927a. Faune entomologique de la province de Québec, sixième ordre, les lépidoptères. *Naturaliste Canadien*, 54(1):11-22, figures 1-4. (July.)
1927b. Idem. *Naturaliste Canadien*, 54(2):36-46. (August.)
1927c. Idem. *Naturaliste Canadien*, 54(3):65-70, figures 6, 7. (September.)
1927d. Idem. *Naturaliste Canadien*, 54(4):89-95, figures 8, 9. (October.)
1927e. Idem. *Naturaliste Canadien*, 54(5):113-118, figure 10. (November.)
1927f. Idem. *Naturaliste Canadien*, 54(6):129-143, figures 11, 12. (December.)
1928a. Idem. *Naturaliste Canadien*, 54(7):157, figures 13, 13[a], 14. (January.)
1928b. Idem. *Naturaliste Canadien*, 54(8):184-191, figure 16. (February.)

- 1928c. Idem. *Naturaliste Canadien*, 54(9):202-216. (March.)
- 1928d. Idem. *Naturaliste Canadien*, 55(1):14-22, figure 17. (July.)
- 1928e. Idem. *Naturaliste Canadien*, 55(2):37-45, figure 18. (August.)
1929. *Faune entomologiques de la province de Québec, sixième ordre, les lépidoptères*, fascicule 1: *Diurnes*. 101 pages, 18 figures. Quebec. [A reprint of Provancher and Huard 1927a-1928e.]
- Richard, M. A.
1971. See Doyle, J. André, and M. A. Richard.
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1924. Indices to the Preliminary List of the Insects of the Province of Quebec, Part I—Lepidoptera. *Sixteenth Annual Report of the Quebec Society for the Protection of Plants*, 1923-1924: 138-142.
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1951. See Ferguson, Douglas C., and Lawrence R. Rupert.
- Saunders, William
1868. Entomological Notes during a Trip to Saquenay. *Canadian Entomologist*, 1(2):11-13. (15 September.)
1873. Personal [*Papilio brevicauda* versus *P. anticostiensis*]. *Canadian Entomologist*, 5(6):117-119. (June.)
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1934. A New Species of the Genus *Incisalia* (Lepidoptera). *Canadian Entomologist*, 66(6):141-142. (30 June.)
- Simms, H. M.
1914a. An Aberration of *Pyrameis huntera* (Lep.). *Entomological News*, 25(1):33. (2 January.)
- 1914b. *Euptoieta claudia* at Montreal (Lep.). *Entomological News*, 25(3):109. (March, 28 February.)
- Stevenson, Charles
1897. *Vanessa miliberti*. *Canadian Entomologist*, 29(12):300. (6 December.)
1899. *Chlorippe celtis* (Boisd.-Lec.) Captured on Montreal Island. *Canadian Entomologist*, 31(10):287-288. (6 October.)
- Trenholme, E. C.
1889. Captures at Montreal. *Canadian Entomologist*, 21(6):120. (5 June.)
- White, J. E.
1883. See Brodie, William, and J. E. White.
- Winn, Albert F.
1890. *Grapta interrogationis* at Montreal. *Canadian Entomologist*, 22(4):80. (7 April.)
- 1891a. List of Lepidoptera Taken at Little Metis (Rimouski Co.), P. Que. *Canadian Entomologist*, 23(1):10-13. (6 January.)
- 1891b. Some Rare Lepidoptera Taken Near Montreal. *Canadian Entomologist*, 23(5):96-97. (5 May.)
1905. *Pieris brassicae* [in Quebec]. *Canadian Entomologist*, 37(2):61. (4 February.)
- 1909a. Two Additions to the List of Butterflies of the Island of Montreal. *Canadian Entomologist*, 41(1):34-35. (7 January.)
- 1909b. *Colias philodice*, var. *luteincta*, Wolcott. *Canadian Entomologist*, 41(7):236. (7 July.)
1912. A Preliminary List of the Insects of the Province of Quebec, Part I: Lepidoptera. *Supplement to Fourth Annual Report of the Quebec Society for the Protection of Plants*. 103 pages.

Rhode Island

We were unable to find any lists or treatments, either regional or statewide, for Rhode Island. The three papers listed here offer a few records for the state. In the "Supplemental Bibliography" see Maynard 1891, 1886, and Scudder 1880.

Billson, James E.

1903. [*Vanessa milberti* in Rhode Island.] *Entomological News*, 14(2):57. (February.)

Dearden, William

1895. [*Papilio ajax* in Rhode Island.] *Entomological News*, 6(9):296. (November, 31 October.)

Keith, Edward D.

1914. Lepidoptera [records for Rhode Island]. *Bulletin Brooklyn Entomological Society*, 9(1):13. (February.)

Saskatchewan

William Kirby 1837 (see "Supplemental Bibliography") is the earliest work treating any of the butterflies of this province. Skinner 1889 is an early paper offering regional notes (Qu'appelle), Croker 1907 offers a few more notes but in spite of this early start, Masters 1968, which contains an unpublished manuscript list by R. J. Fitch, and the various papers by Hooper, 1953-1971, are the principal papers giving a real boost to the knowledge of the butterflies of this province.

Papers giving a few regional records are Hooper 1953 (Somme), Hooper and Hooper 1960 (Cypress Hills), and Skinner 1889 (Qu'appelle). For other useful titles see the following in the "Supplemental Bibliography": Cary 1906, Geddes 1884a, 1884b, Kirby 1837, 1879, Lyman 1892, Masters [1969]b, McGugan 1958, Stallings and Turner 1947.

Bean, Thomas E.

1885. [*Vanessa cardui* and *Euptoieta claudia*]. *Canadian Entomologist*, 17(1):20. (January.)

Croker, A. J.

1907. A Few Notes on the Butterflies of Saskatchewan (Assiniboia). *Proceedings South London Entomological and Natural History Society*, 1906-7:1-3.

Fitch, Richard J.

1968. [List of Names.] Pages 195-199 in John H. Masters,

- R. J. Fitch's List of Saskatchewan Butterflies. *The Blue Jay*, 26(4):194-199. (December.)
- Hooper, Donald
1960. See Ronald R. Hooper, and Donald Hooper.
- Hooper, Ronald R.
1953. Butterflies and Birds at Somme. *The Blue Jay*, 11(1):28. (March.)
1964. Corrections on Butterfly Determinations. *The Blue Jay*, 22(3):118. (September.)
1965. Butterfly Discoveries of 1964. *The Blue Jay*, 23(2):93. (June.)
1966. A New Species [record] of Butterfly for Saskatchewan. *The Blue Jay*, 24(2):92. (June.)
1967. New Butterfly Records for Saskatchewan and Alberta. *The Blue Jay*, 25(2):83-84. (June.)
1969a. New Saskatchewan Butterfly Records. *The Blue Jay*, 27(1):41. (March.)
1969b. A Preliminary List of the Butterflies of Saskatchewan, Definitely Determined Saskatchewan Butterflies through March, 1969. *Mid-Continent Lepidoptera Series*, [1](5):1-8, 1 map. (June.)
1971. A New Butterfly Discovery for Saskatchewan. *Bulletin Association Minnesota Entomologists*, 4(3):[43]: (inside back cover). (1970, January 1971.)
- Hooper, Ronald R., and Donald Hooper
1960. Some Notes on the Butterflies of the Cypress Hills. *The Blue Jay*, 18(3):141.
- Krivda, Walter V.
1967. The Monarch Butterfly (Danaidae) in Northern Saskatchewan. *Journal Lepidopterists' Society*, 21(1):31-32. (21 February.)
- Lyman, Henry Herbert
1884. Notes on *Colias christina*, Edwards. *Canadian Entomologist*, 16(1):5-9. (January, 4 March.)
- Masters, John H.
1968. R. J. Fitch's List of Saskatchewan Butterflies. *The Blue Jay*, 26(4):194-199. (December.)
- Ritchie, John D.
1929. Food-Plant of *Chrysophanus helloides* Bdv. (Lepidoptera). *Bulletin Brooklyn Entomological Society*, 24(2):103. (30 April.)
1945. A Method of Determining Food Plants of Lepidoptera. *Bulletin Brooklyn Entomological Society*, 39(5):171-172. (December 1944, 20 February 1945.)
- Saunders, William
1885. [*E. claudia* in Saskatchewan.] *Canadian Entomologist*, 17(3):60. (March.)
- Skinner, Henry
1889. Butterflies at Qu'appelle, Assa. Can. *Canadian Entomologist*, 21(12):238-240. (7 December.)
- Turner, Henry J.
1906. The Genus *Eurymus* (*Colias*), with Special Reference to *E. eurhythme*. *Proceedings South London Entomological and Natural History Society*, 1905-6:14-16.
- only list for this state is Sharpe 1914a, 1914b for the vicinity of the city of Charleston. Also see Clark 1937, C. W. Johnson 1929, Reiff and Cassino 1917a-1917d, Smyth 1890, 1916, and Watson 1920a in the "Supplemental Bibliography."
- Catesby, Mark
1731-1748. *The Natural History of Carolina, Florida and the Bahama Islands, Containing the Figures of Birds, Beasts, Fishes, Serpents, Insects and Plants, Particularly the Forest-Trees, Shrubs and Other Plants, Not Hitherto Described, or Very Incorrectly Figured by Authors. Together with Their Descriptions in English and French. To Which Are Added Observations on the Air, Soil and Waters, with Remarks upon Agriculture, Grain, Pulse, Roots, etc. To the Whole of Which is Prefixed a New and Correct Map of the Countries Treated of.* Volume 1, 44 + 100 pages, 100 plates, 1731; volume 2, 100 pages, 100 plates, 1743; appendix, 20 pages, 20 plates, 1748. London: W. Innys and R. Manby.
- Gatrelle, Ronald R.
1971. Notes on the Occurrence of Two Rare Lepidoptera in South Carolina. *Journal Lepidopterists' Society*, 25(2):143. (19 May.)
- Gibbes, Lewis R.
1880. Flight of Butterflies. *Canadian Entomologist*, 12(3):60. (March.)
- Richards, Albert Glenn, Jr.
1932. Distributional Studies on Southeastern Rhopalocera. *Bulletin Brooklyn Entomological Society*, 26(5):234-255. (December 1931, 30 January 1932.)
- Sharpe, Jesse
1914a. Preliminary List of Butterflies of the Vicinity of Charleston. *Bulletin Charleston Museum*, 10(4):33-36. (April.)
1914b. Idem. *Bulletin Charleston Museum*, 10(5):41-43. (May.)
- Smyth, Ellison A., Jr.
1890. Notes on the Southern Distribution of Some Common Butterflies. *Psyche*, 5(169):347-348. (1 May.)
1903. [*Nisoniades naevius* in South Carolina.] *Entomological News*, 14(10):333. (December.)
1908. Two Freaks:—*Papilio ajax* and *Eudamus tityrus*. *Entomological News*, 19(5):191-192, plate 10. (May.)

South Dakota

Very little has been published upon the butterflies of this state. The earliest papers are those of Truman 1896, 1897. Several different groups of butterflies have been reported upon, mainly for the Black Hills, but there is no state list. See also Clench 1944a and K. Johnson 1971, 1972 in the "Supplemental Bibliography."

South Carolina

Catesby 1731-1748 is a very early work and is of interest only from a historical point of view. The

- Conway, Patrick J.
1966. A Quick Collecting Trip to the Black Hills. *Newsletter Association Minnesota Entomologists*, 1(1): 16-19.
- Evans, William H.
1963. See Grey, Lionel Paul, Arthur H. Moeck, and William H. Evans.
- Grey, Lionel Paul, Arthur H. Moeck, and William H. Evans
1963. Notes on Overlapping Subspecies, II: Segregation in the *Speyeria atlantis* of the Black Hills (Nymphalidae). *Journal Lepidopterists' Society*, 17(3):129-147, 1 figure, 3 maps. (30 December.)
- Klots, Alexander Barrett
1935. A New *Colias* from South Dakota (Lepidoptera: Pieridae). *American Museum Novitates*, 767:1-2. (24 January.)
- Krauth, Emil
1931. *Parnassius* in the Black Hills, South Dakota (Lepid.: Papilionidae). *Entomological News*, 42(9):257. (3 November.)
- Moeck, Arthur H.
1963. See Grey, Lionel Paul, Arthur H. Moeck, and William H. Evans.
- Nordin, John S.
1967. 1966 HesperIIDae Records for South Dakota. *Newsletter Association Minnesota Entomologists*, 1(4): 90-92. (August.)
1968. 1966 Lycaenidae Records for South Dakota. *Bulletin Association Minnesota Entomologists*, 2(3):60-61. (31 August.)
- Truman, Philetus Clark
1896. Lepidoptera in South Dakota. *Entomological News*, 7(10):298-299. (5 December.)
1897. Idem. *Entomological News*, 8(2):27-29. (February, 30 January.)

Tennessee

Only a very little has been published upon the butterfly fauna of Tennessee. The early list, Osburn 1895, remains the only statewide treatment. Snyder 1957 lists the species found in the Great Smoky Mountains and Watson 1946 lists some of the skippers for those mountains. Richards 1932 offers some distributional data for this state. See Reading 1903 and Reinthal [1967] in the "Supplemental Bibliography" for a little more information.

- Mather, Bryant
1971. The Occurrence of *Vanessa cardui* in Mississippi and Tennessee. *Journal Lepidopterists' Society*, 25(2):147-148. (19 May.)
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1919. A New Species of *Argynnis* from Utah (Lepid., Rhop.). *Entomological News*, 30(8):216. ([10] October.)
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- Tipton, Vernon J., and Robert C. Saunders
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Vermont

We have found only the five papers listed below that can be listed in the Vermont bibliography in addition to the ten papers listed as occurring in the

"Supplemental Bibliography." None of these references are a state, local, or regional list. The ten references in the "Supplemental Bibliography" are: Britton and Harte 1933, Burnes 1970, W. H. Edwards 1880a, Forbes 1909, Maynard 1886, 1891, Ritchie 1869, Scudder 1868, Sprague 1868, and Winn 1916.

Edwards, William Henry

1888. Description of the Preparatory Stages of *Argynnis atlantis*, Edw. *Canadian Entomologist*, 20(1):1-3. (January.)

Field, William L. W.

1910. The Offspring of a Captured Female *Basilarchia proserpina*. *Psyche*, 17(3):87-89, plate 6. (June.)

Humphreys, George H.

1919. *Vanessa californica* in Vermont. *Lepidoptera*, 3(2):92. (15 December.)

Klots, Alexander Barrett

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Soule, Caroline G.

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Virginia

Several papers by Austin Hobart Clark and Leila Forbes Clark lead up to their 1951 comprehensive treatment. Covell 1967 is a recent checklist for the state.

Regional and local lists and notes are: Clark 1934 (Apple Orchard Mountain, Bedford County), Clark and Clark 1936 (eastern Virginia), 1939a (Suffolk), Clark and Trainer 1941 (Farmville), Smyth 1895 (Montgomery County), Wood and Gottschalk 1942a, 1942b, 1942c (Roanoke County, Montgomery County).

Also see Buchholz 1949, Clark 1927, 1937, 1948, Mather 1963, and Smyth 1916 in the "Supplementary Bibliography."

Bell, Ernest Layton

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Clark, Austin Hobart

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Biological Society Washington, 47:177-179. (2 October.)

1935. The Butterflies of Virginia. Pages 33-36 in *Explorations and Field-Work Smithsonian Institution of 1934*. 4 figures.

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1936b. The Gold-banded Skipper (*Rhabdoides cellus*). *Smithsonian Miscellaneous Collections*, 95(7):1-50, figures A-H, plates 1-8. (6 May.)

1937a. The Butterflies of Virginia. Pages 47-52, in *Explorations and Field-work Smithsonian Institution in 1936*. 6 figures.

1937b. A New Subspecies of the Nymphalid Butterfly *Polygona faunus*. *Proceedings United States National Museum*, 84(3013):219-222, plate 10. (9 April.)

1937c. [The Butterflies of Virginia.] *Proceedings Entomological Society Washington*, 39(5):116. (27 May.) [Abstract.]

1937d. Surveying the Butterflies of Virginia. *Scientific Monthly*, 45(3):256-265. (September.)

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1950. Butterfly Flyways and Playgrounds. *Lepidopterists' News*, 4(1-2):13. [20 May.]

Clark, Austin Hobart, and Leila Forbes Clark

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1938a. Butterflies from Virginia and the District of Columbia. *Proceedings Biological Society Washington*, 51:1-6. (18 February.)

1938b. Notes on Virginia Butterflies. *Proceedings Biological Society Washington*, 51:177-181. (3 November.)

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- Clark, Leila Forbes
1936-1951. See Clark, Austin Hobart, and Leila Forbes Clark.
- Covell, Charles V., Jr.
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- Girault, Alexandre Arsène
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- Gottschalk, Carl W.
1942a-1942c. See Wood, Jr., Carroll E. and Carl W. Gottschalk.
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1952. Review: "The Butterflies of Virginia" by Austin H. Clark and Leila F. Clark. *Lepidopterists' News*, 6(4-5):71-72. (17 November.)
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1941. See Clark, Austin Hobart, and Frank W. Trainer.
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1941b. Idem. *Entomological News*, 52(9):245-249. ([6] November.)
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1937. See Clark, Austin Hobart, and Carroll Milton Williams.
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1942b. Idem. *Entomological News*, 53(6):159-164. ([25] June.)
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[1915]. *Argynnis diana* (Lep.) *Entomological News*, 27(1):35. (January 1916 [31 December 1915].)

Washington

Leighton 1946 (reprinted 1972) is the sole statewide treatment. Newcomer 1962 (Bear Canyon, Yakima County), 1964b (Yakima County), and 1966 (additions and corrections for Yakima County list) are the regional treatments.

For additional information see in the "Supplementary Bibliography" the following: Clench 1963, W. H. Edwards 1881, 1882c, Ehrlich 1954c, Ehrmann 1918, W. D. Field 1936a, Grinnell 1913, Gunder 1932, Lintner 1881, Mattoni 1954, Morrison 1883, Newcomer 1960, Newcomer and Rogers 1963, Shepard 1964, Skinner 1904, J. B. Smith 1884, W. G. Wright 1891, 1905.

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1949. See Chermock, Frank H., and Donald P. Frechin.
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1883. On *Papilio machaon* L., and its N. American representatives—; *Papilio rutulus* Bdv.—; and *Parnassius*. Being Portion of a Preliminary Report on the Butterflies of Washington Territory. *Papilio* 2(9-10): 149-164. (November-December 1882, 24 January 1883.)
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1939. A New Species of *Hesperia* (Lepidoptera, Hesperidae). *Annals Entomological Society America*, 32(1): 171-172. (March.)
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1883. The *machaon* Controversy. *Papilio*, 3(7-10):144-145. (September-December.)
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1964a. Occurrence of Certain Rhopalocera in Oregon and Washington. *Journal Lepidopterists' Society*, 18(1): 47-50. (13 May.)
1964b. Butterflies of Yakima County, Washington. *Journal Lepidopterists' Society*, 18(4):217-228, 1 map. (29 December.)
1966. Butterflies of Yakima County, Washington, Additions and Corrections. *Journal Lepidopterists' Society*, 20(4):253-254. (30 November.)
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- Shepard, John H.
1962. The First Record of *Colias nastes* in the United States. *Journal Lepidopterists' Society*, 16(1):46. (30 August.)
1965. *Erebia disa mancinus* in Washington State: a Correction. *Journal Lepidopterists' Society*, 19(2):94. (15 July.)
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- Skinner, Henry
1917. *Lycaena lygdamus* Doubleday and Its Races with a Description of a New One (Lep.). *Entomological News*, 28(5):212-214. ([2] May.)
- Stretch, Richard Harper
1882a. Notes on *Pieris menapia*.—Felder. *Papilio*, 2(7): 103-110. (September.)
1882b. Notes on *Papilio oregonia*.—Edw. *Papilio*, 2(7): 119-121. (September.)
1886. The *Colias* Controversy. *Canadian Entomologist*, 18(3):54-56. ([23] March.)
- Tepper, Fred
1883. Habitat of *Melitaea colon* and *M. perdiccas*, W. H. Edw. *Bulletin Brooklyn Entomological Society*, 5([10]):81. (February.)
- Wright, William Greenwood
1892. Description of a New *Anthocharis*. *Canadian Entomologist*, 24(6):154-155. (June, 30 May.)
- Yancey, J. D.
1916. *Vanessa californica* and frost (Lepid.). *Entomological News*, 27(3):136. ([1] March.)

West Virginia

There is no statewide treatment nor is there any regional list for this state, except for the short note of Brooks 1905. Most of the published information on the butterflies of West Virginia is contained in the papers of William Henry Edwards, which are the result of his life history studies.

In addition to the titles listed here see Clark 1948, W. H. Edwards 1877a, 1879a, 1880, 1882d, 1884b, 1886a in the "Supplemental Bibliography."

Allard, Harry Ardell, and Emery Clarence Leonard

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Brooks, Fred Ernest

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Edwards, William Henry

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- 1870b. Rearing Butterflies from the Egg. *Canadian Entomologist*, 2(9):133-134. (31 August.)
- 1870c. Rearing Butterflies from the Egg. *Canadian Entomologist*, 2(12):162-164. (December.)
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- 1873a. On the Identity of *Grapta dryas* with *comma*. *Canadian Entomologist*, 5(10):184. (October.)
- 1873b. Notes on the Early Stages of Some of Our Butterflies. *Canadian Entomologist*, 5(12):223-225. (December.)
- 1874a. Notes on the Larvae of *Argynnis cybele*, *aphrodite* and *diana*. *Canadian Entomologist*, 6(7):121-125. (July.)
- 1874b. *Grapta comma* and *dryas*. *Canadian Entomologist*, 6(8):157. (August.)
1875. Some Notes on *Lycaena pseudargiolus*. *Canadian Entomologist*, 7(5):81-83. (May.)
1876. The Preparatory Stages of *Lycaena comyntas*. *Canadian Entomologist*, 8(11):202-205. (November.)
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- 1877b. Description of Preparatory Stages of *Neonympha sosybius*. *Canadian Entomologist*, 9(12):229-231. (December.)
- 1878a. Notes on *Lycaena pseudargiolus* and Its Larval History. *Canadian Entomologist*, 10(1):1-4. (January.)
- 1878b. One Word More on *L. pseudargiolus*. *Canadian Entomologist*, 10(4):80. (April.)
- 1878c. Description of the Preparatory Stages of *Neonympha eurymis*. *Canadian Entomologist*, 10(6):105-108. (June.)
- 1878d. On the Scarcity of Papilionidae. *Canadian Entomologist*, 10(7):140. (July.)
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- 1880b. Idem. *Psyche*, 3(70):15-19. (February, 6 March.)

- 1880c. Idem. *Psyche*, 3(74):75-76. (June, 13 August.)

- 1880d. Description of the Preparatory Stages of *Euptoieta claudia*, Cramer. *Canadian Entomologist*, 12(11):231-235. (November.)

- 1881a. Description of the Preparatory Stages of *Papilio philenor*, Linn. *Canadian Entomologist*, 13(1):9-14. (January.)

- 1881b. Description of the Preparatory Stages of *Terias nicippe*, Cramer. *Canadian Entomologist*, 13(4):61-63. (April.)

- 1881c. Description of the Preparatory Stages of *Thecla henrici*, Grote. *Papilio*, 1(9):150-152. (October.)

- 1881d. Description of the Preparatory Stages of *Libythea bachmanni*, Kirtland. *Canadian Entomologist*, 13(11):226-229. (November.)

1882. Description of the Preparatory Stages of *Grapta comma*, Harris. *Canadian Entomologist*, 14(10):189-194. (October, 14 December.)

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- 1883b. Description of the Preparatory Stages of *Pyrameis atalanta*, Linn. *Canadian Entomologist*, 14(12):229-234. (December 1882, 29 January 1883.)

- 1883c. Idem. *Canadian Entomologist*, 15(1):14-20. January, 14 February.)

- 1883d. *Thecla laeta*. *Papilio*, 3(5-6):123. (May-June.)

1885. Description of the Preparatory Stages of *Pholisora catullus*, Fabricius. *Canadian Entomologist*, 17(12):245-248. (December.)

Leonard, Emery Clarence

1952. See Allard, Harry Ardell, and Emery Clarence Leonard.

Mead, Theodore L.

1882. *Thecla lacta*. *Papilio*, 2(1):18. (January.)

Wisconsin

The early treatment for this state is Hoy 1883. Ebner 1970 is the recent, comprehensive treatment. For critical remarks on the latter see Masters 1972a, 1972b. For a statewide checklist see Kuehn and Masters 1972. Bayer and Shenefelt 1971 and Schwehr 1971 treat the Nymphalidae of the state.

The local and regional treatments are: Andrews 1915 (Lake Butte des Morts Bog, Oshkosh), Cahn 1915 (Wingra Springs region near Madison), Fernekes 1906 (Milwaukee County), Rahn 1970 (Marathon County), Rauterberg 1900 (Milwaukee County).

For additional titles see in the "Supplemental Bibliography" the following: Masters 1971a, 1971b,

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- Bayer, Lutz J., and Roy D. Shenefelt.
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1955. See Roy D. Shenefelt, and D. M. Benjamin.
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- Dornfield, Ernst J.
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1970. The Butterflies of Wisconsin. *Milwaukee Public Museum Popular Science Handbook* 12: 205 pages, 350 figures.
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- Elder, William H.
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1948. *Oeneis* in Wisconsin. *Lepidopterists' News*, 2(3):34. (March [6 April].)
1953. *Lycaenides argyrognomon* in Wisconsin. *Lepidopterists' News*, 7(2):54. (29 July.)
- Hoy, Philo Romayne
1883. A Catalogue of Wisconsin Lepidoptera. In *Geology of Wisconsin, Survey of 1873-1879*, 1(2, Natural History):406-414. Madison: Commissioners of Public Printing.
1884. Entomological Notes. *Canadian Entomologist*, 16(10):199-200. (October [17 December].)
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1972. A Check List of Wisconsin Lepidoptera [Rhopalocera]. *Mid-Continent Lepidoptera Series*, 4(59):2-5. (20 May.)
- Masters, John H.
1968. First Records of Two Butterflies in Wisconsin (Nymphalidae, Pieridae). *Journal Lepidopterists' Society*, 22(4):252. (15 November.)
- 1971a. Records of *Incisalia* (Lycaenidae) from Wisconsin. *Bulletin Association Minnesota Entomologists*, 4(3):37-40, figure 1 (map). (1970, January 1971.)
- 1971b. First Records of *Boloria eunomia* (Nymphalidae) in Wisconsin. *Journal Lepidopterists' Society*, 25(2):149. (19 May.)
- 1971c. *Oeneis jutta* (Satyridae) in Wisconsin. *Journal Lepidopterists' Society*, 25(2):150. (19 May.)
1972. See Kuehn, Roger, and John H. Masters.
- 1972a. [Review.] The Butterflies of Wisconsin by James A. Ebner. *Journal Lepidopterists' Society*, 26(2):125. (17 May.)
- 1972b. Critical Comments on James A. Ebner's "Butterflies of Wisconsin." *Mid-Continent Lepidoptera Series*, 4(59):5-11. (20 May.)
- 1972c. Faunal Resemblances of Wisconsin's Butterfly Fauna. *Mid-Continent Lepidoptera Series*, 4(59):11-12. (20 May.)
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