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## AN ANNOTATED CHECKLIST OF THE BUTTERFLIES OF ATHENS COUNTY, OHIO<sup>1</sup>

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**ABSTRACT.** Ninety-two species of butterflies are reported from Athens County, Ohio; 81 of these species for the first time. The following information is recorded for each species: abundance, habitat, collection localities, and extreme dates of capture. Eleven of these species have not been reported previously from any counties adjacent to the study area. These species are *Staphylus hayhurstii*, *Thymelicus lineola*, *Hylephila phyleus*, *Papilio cresphontes*, *Colias cesonia*, *Phoebis sennae*, *Nathalis iole*, *Calephelis borealis*, *Libytheana bachmanii*, *Asterocampa clyton*, and *Euptychia sosybius*. A listing of 8 additional species which might be expected to occur in the county is also included.

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### INTRODUCTION

Athens County has one of the least known butterfly faunas in Ohio. Although several recent faunal lists have been pub-

lished (Porter 1965, Stuebaker and Stuebaker 1967, Price 1970, Albrecht 1974, Drees 1982), all of them deal with western Ohio. Many older lists have been published, but prior to Lindsey's (1921) work, determinations of Hesperiidæ were very unreliable (Bales 1909). Albrecht's

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(1982) dissertation provides much information about Ohio's fauna, but he records only 10 species from Athens County. The only publication which deals specifically with Athens County (Stehr 1945), lists only 2 butterfly species which were taken at night, bringing the total number of species recorded from the county to 11. This paper presents records of all species known to the author from Athens County.

Athens County is located in the southeast corner of the state on the unglaciated plateau and is traversed from the northwest to the southeast by the Hocking River (fig. 1). Rolling hills predominate with relative relief (the difference between the elevation of the ridge tops and the stream beds) ranging between 61 m–122 m. The average yearly temperature is approximately 12C and the average yearly precipitation approximately 101 cm (Gordon

1969). The original vegetation consisted of beech-maple forest in mesic areas and mixed oak forest on better drained ground with a small tract of mixed mesophytic forest in the western portion of the county (Gordon 1969). Scattered pitch pine and scrub pine occurred on dry sandstone bluffs (Braun 1961), and scattered hemlocks grew in a few cool ravines. The forest cover probably was broken only by beaver ponds and associated meadows, blow downs, a few marshy areas near The Plains (Porter 1956) and Buffalo Beats, a small relict prairie in the northwest corner of the county (Porter 1956, Wistendahl 1975, 1981).

Today the county is largely a mixture of second growth forest and open farm areas, many of which lie fallow and are in various stages of succession. Large tracts of mature forest are contained within Wayne Na-

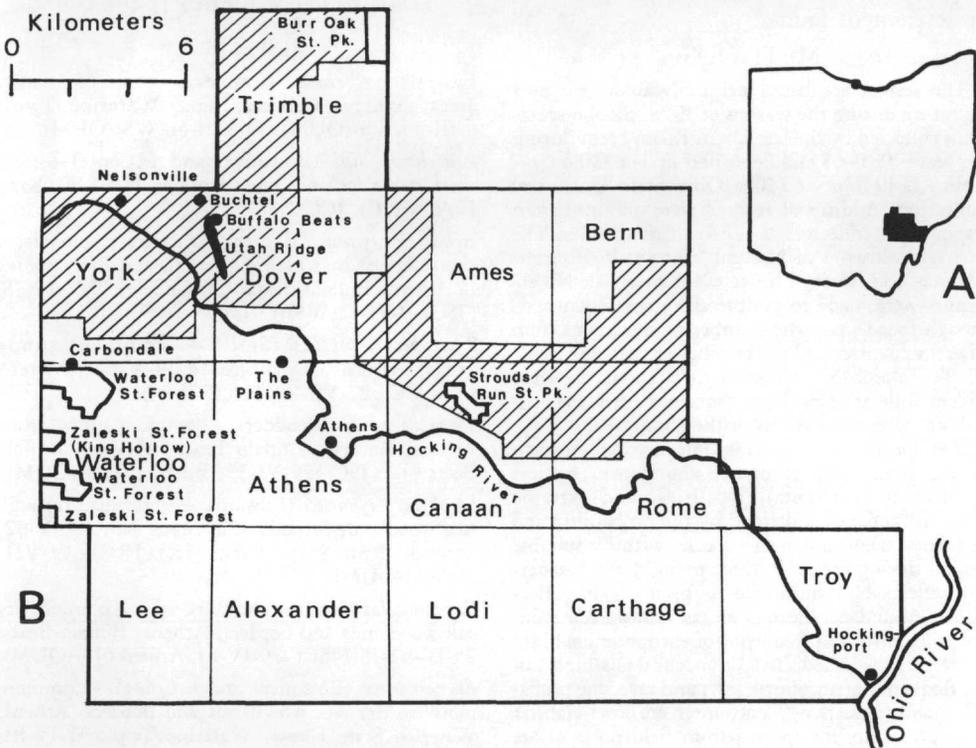


FIGURE 1. Athens County, Ohio, (A) location in the state; (B) collection localities, townships, and state parks and forests. Wayne National Forest is shaded.

tional Forest, Zaleski State Forest, Waterloo State Forest, Burr Oak State Park, and Strouds Run State Park. Pines have been planted extensively from the 1930s to the present. At least one marshy area near The Plains remains in good condition, and Buffalo Beats has been preserved as a natural area within the national forest.

The original butterfly fauna probably consisted primarily of species adapted to deep forest and borders. Species which are characteristic of open areas possibly were absent or may have inhabited ephemeral areas such as the meadows associated with abandoned beaver ponds. Today's fauna is largely biased toward species that inhabit abandoned agricultural areas. However, the large amount of remaining forest and the survival of the more unique habitats have allowed the continued existence of most, if not all, of the original forest-adapted fauna. Thus the present-day fauna is probably much more diverse than the presettlement fauna.

## METHODS

The results are based primarily upon my own collecting during the seasons of 1978-82 and specimens collected by the late Dr. William Stehr during the years 1931-65 and deposited in The Ohio University Collection and The Ohio State University Collection. Additional records were obtained from several local collectors as noted in the results. The Carnegie Museum of Natural History, Pittsburgh, PA, was also searched for relevant material. No attempts were made to sample the entire county although based upon the number of specimens from adjacent counties and the number of years involved, Dr. Stehr probably collected throughout the area. Recent collecting has been concentrated in the central and western portions of the county.

The format for reporting information for each species is as follows: name, abundance, habitat (additional comments), localities, and extreme dates. Abundance is defined by the probability and frequency of encountering a species within a suitable habitat during the peak flight period (which generally reflects how numerous a species is in collections). Abundance ratings are as follows common, the probability and frequency of encounter are high; moderate, the probability of encounter is high but the frequency of encounter low; and rare, the probability and frequency of encounter are low. Habitat descriptions are interpreted from field notes or are personal communications and emphasize similarities between collection localities, stressing plants which

may be indicators of suitable habitats for each species if possible. Additional comments are provided for the rarer species. Localities refer to fig. 1. Extreme dates of capture give an indication of, but tend to underestimate flight period. The arrangement of data from the individual extreme date specimens is as follows: date, collection local (collector) (museum or collection containing specimen). For ease of reporting collectors' names are abbreviated as follows: JC—John Calhoun, CJ—Christopher Jensen, JR—John Ritzenhaller, JS—John Shuey, and WS—William Stehr. Museum and collection names have been abbreviated as follows: OUM—Ohio University Museum of Zoology, Athens, OH, JCC—John Calhoun, Westerville, OH, CJC—Christopher Jensen, Athens, OH, JRC—John Ritzenhaller, Athens, OH, JSC—The author.

All records cited are based upon adults, and all specimens (approximately 1000) were examined and identifications verified by myself except those contained in the Christopher Jensen Collection.

The systematic arrangement of the species follows that of Miller and Brown (1981). However based upon the arguments of Ehrlich and Murphy (1981), the list follows the nomenclature of Howe (1975). The botanical nomenclature follows Cusick and Silberhorn (1977).

## LIST OF SPECIES

### HESPERIIDAE

*Epargyreus c. clarus* (Cramer)—common; sunny areas; Athens, Canaan Twp., Waterloo Twp.; 4-III-36(WS)(OUM)—14-VIII-50(WS)(OUM).

*Autochton cellus* (Boisduval and LeConte)—rare; moist oak woodland; King Hollow; 15-VI-80, King Hollow (JC)(JCC).

*Achalarus lyciades* (Geyer)—moderate; old fields characterized by *Rhus copallina* L. and *Rhus typhina* L.; Athens, Buffalo Beats, Carbondale; 19-V-79(JS)(JSC)—9-VI-32(WS)(OUM).

*Thorybes bathyllus* (Smith)—common; sunny areas; Athens, Carbondale; 4-V-81, Athens (JS)(JSC)—27-VII-80(JS)(JSC).

*Thorybes pylades* (Scudder)—common; sunny areas; Athens, Buchtel, Buffalo Beats; 14-V-81, Buffalo Beats (JS)(JSC)—29-VI-35, Buchtel (WS)(OUM).

*Staphylus hayhurstii* (Edwards)—rare; road through oak woodland; Strouds Run State Park; 20-V-82, Strouds Run State Park (JR)(JRC)—19-VII-36(WS)(OUM).

*Erynnis icelus* (Scudder and Burgess)—common; dry oak woodlands and borders; Athens, Buffalo Beats; 25-IV-82(JS)(JSC)—29-IV-81, Athens (JS)(OUM).

*Erynnis brizo* (Boisduval and LeConte)—common; moist to dry oak woodlands and borders; Athens, Waterloo State Forest, Waterloo Twp.; 12-IV-81, Waterloo State Forest (JS)(JSC)—28-IV-82, Waterloo State Forest (JS)(JSC).

*Erynnis j. juvenalis* (Fabricius)—common; oak woodlands and borders; Carbondale, Waterloo State Forest, Waterloo Twp.; 12-IV-81, Waterloo State Forest (JS)(JSC)—18-V-81, Waterloo State Forest (JS)(JSC).

*Erynnis boratius* (Scudder and Burgess)—moderate; moist oak woodlands; Athens, King Hollow; 24-IV-79(JS)(JSC)—28-IV-82(JS)(JSC).

*Erynnis martialis* (Scudder)—rare; prairie opening in *Quercus alba* L. woodland; The foodplant, *Ceanothus americanus* L., is common in and around Buffalo Beats; Buffalo Beats, Buchtel; 19-V-81, Buffalo Beats (JS)(JSC)—25-V-36, Buchtel (WS)(OUM).

*Pyrgus centaureae wyandot* (Edwards)—rare; power cut with much *Rosa multiflora* Thunb. This habitat probably is mowed every few years. This and records from adjacent Vinton County are the only Ohio records (Albrecht 1982); The Plains; 29-V-82, The Plains (JS)(JSC).

*Pyrgus communis* (Grote)—rare; unknown; localities unknown. Not collected since 1953; 5-VII-53(WS)(OUM)—19-X-33(WS)(OUM).

*Pholisora catullus* (Fabricius)—common; agricultural fields and recently abandoned pastures; Athens; 7-V-32(WS)(OUM)—14-VIII-81, Athens (JS)(JSC).

*Nastria lherminier* (Latreille)—moderate; old fields characterized by *Rhus copallina* L. and *Rhus typhina* L.; Athens, Hockingport; 25-VI-80(JS)(JSC)—21-VIII-80, Athens (JS)(JSC).

*Ancyloxypha numitor* (Fabricius)—common; wet fields; Athens, Buffalo Beats; 27-V-79(JS)(JSC)—4-VIII-80(JS)(JSC).

*Thymelicus lineola* (Ochsenheimer)—rare; natural marsh. This species is more common than the lone record would indicate; The Plains; 26-VI-81, The Plains (JS)(JSC).

*Hylephila phyleus* (Drury)—rare; hay field with much *Medicago sativa* L.; Athens; 14-VIII-81, Athens (JS)(JSC).

*Hesperia leonardus* Harris—rare; old fields characterized by *Rhus copallina* L. and *Rhus typhina* L.; Athens; 24-VIII-80(JS)(JSC)—12-IX-81, Athens (JS)(JSC).

*Hesperia metea* Scudder—moderate; open xeric hillsides and bluffs characterized by *Andropogon scoparius* Michx., *Rhus* spp., and *Vaccinium* spp. First collected in Ohio in 1979 (Iftner 1983), this species recently may have invaded the state. It seems too common to have been overlooked for many years; Waterloo State Forest, Utah Ridge; 21-IV-81, Waterloo State Forest (JS)(JSC)—5-V-81, Waterloo State Forest (JS)(JSC).

*Polites coras* (Cramer)—common; pastures and sunny old fields; Athens; 13-VI-35(WS)(OUM)—13-IX-32(WS)(OUM).

*Polites themistocles* (Latreille)—common; pastures and sunny old fields; Athens; 19-V-36(WS)(OUM)—27-VIII-80, Athens (JS)(JSC).

*Polites o. origenes* (Fabricius)—moderate; pastures and sunny old fields. This species usually occurs with *P. coras* and *P. themistocles*, but is usually less abundant; Athens, Buffalo Beats; 25-VI-80(JS)(JSC)—27-VIII-80, Athens (JS)(JSC).

*Wallengrenia egeremet* (Scudder)—common; recently abandoned agricultural fields; Athens, Buffalo Beats; 23-VI-81, Buffalo Beats (JS)(JSC)—4-VIII-80(JS)(JSC).

*Pompeius verna* (W. H. Edwards)—common; pastures and old fields; Athens, Buffalo Beats, Troy Twp.; 16-VI-81, Athens (JS)(JSC)—29-VI-35, Troy Twp. (WS)(OUM).

*Atalopedes campestris buron* (W. H. Edwards)—rare; unknown. Not collected since 1935; Strouds Run State Park; 23-VII-32(WS)(OUM)—26-X-35(WS)(OUM).

*Atrytone l. logan* (W. H. Edwards)—moderate; grassy areas characterized by *Andropogon* spp.; Athens, Buffalo Beats; 1-VII-81, Buffalo Beats (JS)(JSC)—18-VII-32(WS)(OUM).

*Poanes hobomok* (Harris)—common; in and around any type of woodland; Athens, Buffalo Beats, The Plains; 21-V-81, Buffalo Beats (JS)(JSC)—3-VI-81, Buffalo Beats (JS)(OUM).

*Poanes zabulon* (Boisduval and LeConte)—common; usually in oak woodlands and borders; Athens; 4-V-81, Athens (JS)(JSC)—26-VIII-80, Athens (JS)(JSC).

*Euphyes ruricola metacommet* (Harris)—common; ubiquitous; Athens, Buffalo Beats; 3-VI-81, Buffalo Beats (JS)(JSC)—23-VIII-81, Athens (JS)(JSC).

*Amblyscirtes hegona* (Scudder)—moderate; sunlit openings and paths through oak woodlands. Males are often seen perching on sunlit herbs and low shrubs; Athens, Buffalo Beats; 14-V-79(JS)(JSC)—3-VI-81, Buffalo Beats (JS)(JSC).

*Amblyscirtes vialis* (Edwards)—common; oak woodlands and old fields growing up in *Rhus* spp.; Athens, Carbondale; 29-IV-81, Athens (JS)(JSC)—13-VIII-80(JS)(JSC).

#### PAPILIONIDAE

*Battus p. philenor* (Linnaeus)—common; mesic woodlands and borders; Athens, Buchtel, Waterloo State Forest; 25-IV-81, Waterloo State Forest (JS)(JSC)—26-VIII-50(WS)(OUM).

*Graphium marcellus* (Cramer)—common; usually associated with young (less than 50 years) woodlots where the foodplant, *Asimina triloba* (L.), is generally common. As the season progresses, this species tends to frequent open areas adjacent to woodlots; Athens, Waterloo State Forest; 14-IV-81, Waterloo State Forest (JS)(JSC)—25-VIII-50(WS)(OUM).

*Papilio polyxenes asterius* Stoll—common; sunny areas; Athens, Waterloo State Forest; 18-IV-81, Waterloo (JS) (JSC)—3-IX-53(WS)(OUM).

*Papilio crespontes* Cramer—rare; unknown. This species has been sighted recently in a power cut near Athens but has not been collected since 1953; localities unknown; July 1934(WS)(OUM)—2-IX-51(WS)(OUM).

*Papilio g. glaucus* Linnaeus—common; mesic deciduous forest; Athens, Buffalo Beats, Waterloo State Forest; 7-IV-81, Waterloo State Forest (JS)(JSC)—6-IX-53(WS)(OUM).

*Papilio t. troilus* Linnaeus—common; mesic deciduous forest; Athens, Utah Ridge, Waterloo State Forest; 2-V-79, Athens (JS)(JSC)—8-IX-53(WS)(OUM).

#### PIERIDAE

*Pieris protodice* Boisduval and LeConte—rare; unknown. Not collected since 1953; localities unknown; 7-V-32(WS)(OUM)—24-VI-53(WS)(OUM).

*Pieris rapae* (Linnaeus)—common; ubiquitous in sunny areas; Athens, Waterloo State Forest; 5-IV-31(WS)(OUM)—27-VII-53(WS)(OUM).

*Anthocharis midea annickae* dos Passos and Klots—common; mature oak woodlands; Athens, Buffalo Beats, Canaan Twp., Carbondale, The Plains, Waterloo State Forest, Waterloo Twp.; 7-IV-81, Waterloo State Forest (JS)(JSC)—30-IV-33(WS)(OUM).

*Colias p. philodice* Godart—common; sunny areas; Athens, Carbondale; 26-IV-81, Athens (JS)(JSC)—27-VII-53(WS)(OUM).

*Colias eurytheme* Boisduval—common; sunny areas; Athens, Utah Ridge; 5-V-79, Athens (JS)(JSC)—4-X-31(WS)(OUM).

*Colias c. cesonia* (Stoll)—rare; road through oak forest; Utah Ridge; 28-V-81, Utah Ridge (CJ)(CJC).

*Phoebis sennae eubule* (Linnaeus)—rare; unknown; locality unknown; 4-VIII-50(WS)(OUM).

*Eurema l. lisa* (Boisduval and LeConte)—moderate; mesic deciduous woodlands and borders; Athens, Waterloo Twp.; 10-VII-53(WS)(OUM)—13-X-36, Waterloo Twp. (WS)(OUM).

*Eurema nicippe* (Cramer)—rare; pasture; Athens; 29-VIII-81, Athens (JS)(JSC).

*Nathalis iole* Boisduval—rare; unknown; Burr Oak State Park; 5-X-54, Burr Oak State Park (WS)(OUM).

#### LYCAENIDAE

*Feniseca tarquinius* (Fabricius)—moderate; shrubby stream banks; Athens; 14-V-79(JS)(JSC)—22-VII-81, Athens (JS)(JSC).

*Lycaena pblaeas americana* Harris—common; moist to wet fields and pastures; Athens, Strouds Run

State Park; 2-V-79, Athens (JS)(JSC)—29-IX-80, Strouds Run State Park (JS)(JSC).

*Lycaena hyllus* (Cramer)—moderate; marshy areas characterized by *Typha latifolia* L.; Athens; 27-V-79, Athens (JS)(JSC)—29-VIII-81, Athens (JS)(OUM).

*Harkerlenus titus* (Fabricius)—moderate; hay fields and pastures; Athens, Buchtel, Wayne National Forest; 27-VI-79(JS)(JSC)—17-VII-37, Buchtel (WS)(OUM).

*Satyrium calanus falacer* (Godart)—common; small sunlit openings within mature deciduous woodlands; Athens, Buchtel, Troy Twp., Waterloo Twp.; 20-V-35, Troy Twp. (WS)(OUM)—8-VII-35, Waterloo Twp. (WS)(OUM).

*Satyrium liparops strigosum* (Harris)—rare; old fields characterized by *Rhus* spp.; Athens; 11-VI-81, Athens (JS)(JSC)—11-VII-79(JS)(JSC).

*Calycopis cecrops* (Fabricius)—common; old fields characterized by *Rhus copallina* L. and *Rhus typhina* L.; Athens, Buffalo Beats, Waterloo State Forest; 29-IV-81, Athens (JS)(JSC)—31-VIII-80(JS)(JSC).

*Callophrys b. henrici* (Grote and Robinson)—rare; woodland borders characterized by *Cercis canadensis* L.; Buffalo Beats Waterloo State Forest; 14-IV-79(JS)(JSC)—3-V-82, Buffalo Beats (JS)(JSC).

*Callophrys n. nippon* (Hübner)—rare; *Pinus* spp. planting. This species should also occur in association with the native 2 *Pinus* spp.; Utah Ridge; 4-V-82, Utah Ridge (JS)(JSC)—5-V-82 Utah Ridge (JS)(JSC).

*Pantheiades m-album* (Boisduval and LeConte)—rare; cool mesic oak woodlands; King Hollow, Waterloo State Forest; 8-V-81, Waterloo State Forest (JS)(JSC)—17-V-82, King Hollow (JC)(JCC).

*Strymon melinus humuli* (Harris)—common; sunny areas; Athens, Buchtel, Buffalo Beats, The Plains; 20-IV-81, Buffalo Beats (JS)(JSC)—14-VIII-50(WS)(OUM).

*Everes c. comyntas* (Godart)—common; sunny areas; Athens, Buffalo Beats, Carbondale, Waterloo State Forest, Waterloo Twp.; 16-IV-32, Carbondale (WS)(OUM)—3-IX-53(WS)(OUM).

*Celastrina l. ladon* (Cramer)—common; deciduous woodlands; Athens, Buchtel, Buffalo Beats, Nelsonville, The Plains, Waterloo State Forest; 2-IV-81, Nelsonville (JS)(JSC)—17-VII-80(JS)(JSC).

*Celastrina ebenina* Clench—common; ravines within mature cool mesic oak woodlands, always associated with the foodplant, *Aruncus dioicus* (Walt.); Buffalo Beats, The Plains, Waterloo State Forest; 22-IV-81, Buffalo Beats (JS)(JSC)—9-V-81, Waterloo State Forest (JS)(JSC).

*Glaucopsyche l. lygdamus* (Doubleday)—moderate; extremely local on xeric open ridge tops within *Quercus alba* L. woodlands; Buffalo Beats, The Plains; 20-IV-81, Buffalo Beats (JS)(JSC)—10-V-35(WS)(OUM).

## RIODINIDAE

*Calephelis borealis* (Grote and Robinson)—rare; scrubby roadside characterized by *Rhus typhina* L. and the foodplant *Senecio obovatus* Muhl. The only known active colony was discovered by Chris Jensen and occupies an area approximately 10 × 50 m; 28-VI-82, Utah Ridge (JS)(JSC)—31-VII-32(WS)(OUM).

## LIBYTHEIDAE

*Libytheana b. bachmanii* (Kirtland)—rare; unknown; locality unknown; 30-VI-53(WS)(OUM).

## NYMPHALIDAE

*Euptoieta claudia* (Cramer)—moderate; pastures; Athens, Hockingport; 25-VI-53(WS)(OUM)—9-X-31(WS)(OUM).

*Speyeria c. cybele* (Fabricius)—common; sunny areas; Athens, Buchtel, Carbondale; 7-VI-32(WS)(OUM)—1-IX-53(WS)(OUM).

*Speyeria aphrodite alcestis* (Edwards)—moderate; pastures; Athens, Carbondale; 15-VI-32, Carbondale (WS)(OUM)—6-IX-53(WS)(OUM).

*Speyeria idalia* (Drury)—moderate; wet hay fields; Athens, Carbondale; 19-VI-79, Athens (JS)(JSC)—23-VIII-81, Athens (JS)(JSC).

*Boloria b. bellona* (Fabricius)—common; sunny areas; Athens, Waterloo State Forest, Waterloo Twp.; 14-IV-79, Waterloo State Forest (JS)(JSC)—24-V-52, Waterloo Twp. (WS)(OUM).

*Chlosyne nycteis* (Doubleday and Hewitson)—common; openings within oak woodlands; Athens, Utah Ridge; 24-V-81, Athens (JS)(JSC)—4-VIII-80, Athens (JS)(JSC).

*Phyciodes t. tharos* (Drury)—common; sunny areas; Athens, Buffalo Beats, Canaan Twp., Waterloo Twp.; 2-V-79, Athens (JS)(JSC)—7-IX-41, Canaan Twp. (WS)(OUM).

*Euphydryas p. phaeton* (Drury)—common; marshy areas associated with the foodplant, *Chelone glabra* L.; King Hollow, The Plains; 24-V-82, The Plains (JS)(OUM)—25-V-82, King Hollow (JS)(JSC).

*Polygonia interrogationis* (Fabricius)—common; deciduous woodlands; Athens, Waterloo Twp.; 27-IV-53(WS)(OUM)—18-X-32(WS)(OUM).

*Polygonia comma* (Harris)—common; deciduous woodlands; Athens, Lodi Twp., Waterloo State Forest; 28-III-81, Athens (JS)(JSC)—23-VI-80(JS)(JSC).

*Polygonia pragne* (Cramer)—rare; unknown. An active colony exists in the Vinton County portion of Zaleski State Forest (Albrecht 1982); locality unknown; 23-VII-37(WS)(OUM).

*Nymphalis a. antiopa* (Linnaeus)—common; deciduous woodlands; Athens; 28-III-81, Athens (JS)(JSC)—31-VIII-53(WS)(OUM).

*Vanessa virginianensis* (Drury)—common; sunny areas; Athens, Buffalo Beats, Carbondale, Waterloo State

Forest; 11-IV-81, Waterloo State Forest (JS)(JSC)—20-X-31(WS)(OUM).

*Vanessa cardui* (Linnaeus)—rare; unknown. Not collected since 1953; localities unknown; 21-V-53(WS)(OUM)—20-X-31(WS)(OUM).

*Vanessa atalanta rubria* (Fruhstorfer)—common; deciduous woodland borders; Buffalo Beats, Waterloo State Forest; 14-IV-81, Waterloo State Forest (JS)(JSC)—10-VIII-53(WS)(OUM).

*Precis coenia* (Hübner)—moderate; old fields characterized by *Rhus* spp. and pastures; Athens; 20-VI-53(WS)(OUM)—21-X-31(WS)(OUM).

*Limenitis arthemis astyanax* (Fabricius)—common; deciduous woodland borders; Athens, Buffalo Beats; 3-VI-81, Buffalo Beats (JS)(JSC)—3-IX-53(WS)(OUM).

*Limenitis a. archippus* (Cramer)—common; wet sunny areas characterized by *Salix* spp.; Athens; 30-V-79(JS)(JSC)—20-IX-80(JS)(JSC).

## APATURIDAE

*Anaea andria* Scudder—rare; unknown. Not collected since 1959; localities unknown; 17-VII-43(WS)(OUM)—1-IX-59(WS)(OUM).

*Asterocampa celtis* (Boisduval and LeConte)—common; woodland borders characterized by the foodplant, *Celtis occidentalis* L. Stehr (1945) collected this species at night with sugar and at lights; Athens; 27-V-41(WS)(OUM)—2-IX-57(WS)(OUM).

*Asterocampa clyton* (Boisduval and LeConte)—common; woodland borders characterized by *Celtis occidentalis* L., but is more localized than *A. celtis*. Stehr (1945) collected this species at night with sugar and in light traps; Athens, Utah Ridge; 5-VI-53(WS)(OUM)—6-IX-33(WS)(?) (Stehr 1945).

## SATYRIDAE

*Lethe a. antedon* (Clark)—common; mesic deciduous woodlands; Athens, Buffalo Beats, Wayne National Forest; 3-VI-81, Buffalo Beats (JS)(JSC)—13-VIII-80, Athens (JS)(JSC).

*Euptychia g. gemma* (Hübner)—common; xeric ridgetops characterized by *Quercus montana* Willd. and *Q. alba* L. This habitat is in direct contrast with most published reports (Albrecht 1982) which usually indicate moist to marshy meadows or swamps; Athens, Buffalo Beats; 20-IV-81, Buffalo Beats (JS)(JSC)—26-VIII-80, Athens (JS)(JSC).

*Euptychia sosybius* (Fabricius)—rare; marshy area characterized by *Chelone glabra* L. The single known specimen may have strayed from an adjacent mesic oak woodland; King Hollow; 25-V-82, King Hollow (JS)(JSC).

*Euptychia c. cymela* (Cramer)—common; deciduous woodlands and borders; Athens, Buffalo Beats, Carbondale; 19-V-79, Athens (JS)(JSC)—9-VII-53(WS)(OUM).

*Cercyonis pegala alope* (Fabricius)—common; deciduous woodland borders; Athens; 26-V-53(WS) (OUM)—5-VIII-31(WS) (OUM).

#### DANAIDAEE

*Danaus plexippus* (Linnaeus)—common; sunny areas; Athens; 5-V-31(WS) (OUM)—4-X-31(WS) (OUM).

#### DISCUSSION

The 92 species recorded represent 69% of the 134 species known from Ohio (Albrecht 1982). Eleven of these species have not been recorded previously from any of the counties adjacent to Athens County (Albrecht 1982, Drees and Butler 1978). Five of these species are known from single specimens and possibly represent strays (*C. cesonia*, *P. sennae*, and *N. iole*) or extremely rare residents (*L. bachmanii* and *E. sosybius*). The remaining species (*S. hayhurstii*, *T. lineola*, *H. phyleus*, *P. cresphontes*, *C. borealis* and *A. clyton*) are scarce or tend to form extremely localized populations.

Seven additional species are known from adjacent Hocking and Vinton Counties (Albrecht 1982) and may be expected to occur in Athens County. Specimens of only 2 of these species, *Hesperia sassacus* Harris and *Callophrys augustinus* (Westwood), were actually observed and identifications checked by Albrecht. Records of the remaining 5 species [*Erynnis lucilius* (Scudder and Burgess), *Euristrymon ontario* (W. H. Edwards), *Nymphalis vau-album* (Denis and Schiffermüller), *Nymphalis milberti* (Godart), and *Lethe eurydice* (Johannson)] are based upon literature records or other sources not verified by Albrecht. In addition, the Carnegie Museum of Natural History contains an old undated specimen of *Speyeria diana* (Cramer) labeled simply "Southeastern Ohio." This species is known from Ohio by only 3 other capture records (Albrecht 1982), and it seems unlikely that it presently occurs in Athens County although it may have been a resident of the original virgin forests of the area. No doubt other species not discussed here will eventually be collected in Athens County bringing

the potential number of species to approximately 100.

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