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Russell A. Rahn

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**MOTHS TAKEN IN BERRIEN COUNTY, MICHIGAN
 (WITH 102 NEW COUNTY RECORDS)**

Russell A. Rahn
 314 North 5th Street, Watertown, Wisconsin 53094

Moore (1955) published a listing of the moths of Michigan, exclusive of the Tineoidea. Other writers (anon., 1968; Voss, 1970) have extended the list of Michigan records. During the fall of 1970, and through the summer of 1971, I lived in Sawyer, Berrien County and collected a number of records new for that area. At the encouragement of M.C. Nielsen, a listing of these records is made available.

Sawyer is located in the heart of a grape growing region. An ultraviolet light trap was used for the bulk of the collecting, and grape fields were within the area in view of the collecting light. Much of the remainder of the immediate area consisted of open fields along the western edge of a railroad right-of-way. Beyond the track, about three hundred yards from the trap, was a background of scattered hardwoods.

Collecting in the Fall of 1970 was sporadic, records after mid-August are from that year. The light trap was set up again, early in 1971, about the first week of April. From that time on, it was run continually, including on rainy nights, except for a three week period in late June and early July during my absence from the area. An attempt was made to retain as many of the macroheterocera as occurred in the trap, and only a few microlepidoptera were retained. Empty egg cartons on the bottom of the trap provided a hiding place for the moths, and prevented much potential damage. (I am indebted to Leslie Ferge for this suggestion). Therefore most of the specimens taken were in very good condition.

A listing of the species captured follows, with an indication of flight period. Each month is divided into three parts, from the 1st to the 10th, the 11th to the 20th, and the 21st through the end of the month. An "x" in a particular column records at least one specimen captured during that part of the month. No comments on the relative abundance are given, because the number of actual specimens collected frequently depended upon the time available for pinning and the space left on the pinning boards. An attempt was made, however, to secure any newly observed species on the first date of their appearance, and to collect at least one for as long as the flight period lasted.

The order of the listing follows Forbes (1948, 1954, and 1960) for species within each family, and the order of the families follows Moore (1955). Species marked with an asterisk represent new records for Berrien County, since the publication of Moore's list.

I am indebted to M. C. Nielsen and J. H. Newman for determinations of difficult species.

Table 1. List of moths taken in an ultraviolet light trap at Sawyer, Berrien County, Michigan, 1970-1971.

Species	April			May			June			July			August			Sept.			Oct.			
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	
SPHINGIDAE																						
<i>Phlegethontius sextus</i>												x	x	x								
<i>P. quinquemaculata</i>												x	x									
<i>Pholus satellitia</i>															x							
* <i>Ceratonia amyntor</i>								x														
* <i>C. catalpae</i>							x	x			x		x	x								
<i>C. undulosa</i>							x				x	x										
<i>Sphinx chersis</i>												x										
<i>S. eremitus</i>													x									

*New record for Berrien County, Michigan.

Table 1. Continued.

Species	April			May			June			July			August			Sept.			Oct.		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
SPHINGIDAE (Continued)																					
<i>Lapara bombycoides</i>							X			X											
* <i>Smerinthus geminatus</i>								X													
<i>Poanias excaecatus</i>										X	X	X									
<i>P. myops</i>					X						X										
<i>Pachysphinx modesta</i>								X													
* <i>Deidamia inscripta</i>				X	X		X														
<i>Darapsa myron</i>							X	X		X	X		X								
SATURNIDAE																					
<i>Automeris io</i>							X	X													
<i>Tropaea luna</i>														X							
<i>Telea polyphemus</i>					X	X				X											
* <i>Samia cecropia</i>					X																
CITHERONIIDAE																					
<i>Eacles imperialis</i>											X										
<i>Anisota rubricundra</i>							X	X			X										
SYNTOMIDAE																					
<i>Scepsis fulvicollis</i>								X								X					
* <i>Ctenucha virginica</i>								X	X												
ARCTIIDAE																					
* <i>Cynia inopinatus</i>				X									X								
<i>C. tenera</i>							X	X			X										
<i>Estigemene acraea</i>							X	X		X	X										
<i>Halisidota caryae</i>										X	X										
<i>H. maculata</i>								X													
<i>H. tessellaris</i>										X	X										
<i>Eubaphe aurantica</i>														X							
<i>Euchaetias egle</i>							X	X		X											
* <i>Phragmatobia fuliginosa</i>										X	X	X	X								
* <i>Euchaetias oregonensis</i>								X	X	X	X										
<i>Pyrrharctia isabella</i>					X		X	X													
<i>Spilosoma virginica</i>		X	X	X	X		X	X		X											
<i>Apantesis virgo</i>													X								
<i>A. anna</i>							X														
<i>A. arge</i>		X								X	X	X				X					
* <i>A. figurata</i>					X																
<i>A. phalerata</i>				X	X		X	X													
* <i>Hyphantria cunea</i>				X	X		X														
NOCTUIDAE																					
<i>Schinia lynx</i>								X					X	X							
<i>S. trifascia</i>														X							
<i>Rhodophora florida</i>													X	X	X						
* <i>Heliothis phloxiphagus</i>								X			X										
* <i>H. zea</i>																			X		
<i>Agrotis tesselata</i>										X	X										
<i>A. ypsilon</i>											X										
<i>Peridroma margaritosa</i>	X			X				X			X								X		

*New record for Berrien County, Michigan.

Table 1. Continued.

Species	April			May			June			July			August			Sept.			Oct.		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
NOCTUIDAE (Continued)																					
* <i>P. lubricans</i>							x	x													
<i>P. plecta</i>						x															
* <i>Eurois occulta</i>											x										
<i>Noctua c-nigrum</i>						x	x	x								x					
<i>N. clandestina</i>							x	x													
<i>N. brunneicollis</i>												x									
* <i>Cerastis tenebrifera</i>	x			x																	
<i>Scotogramma trifolii</i>				x	x	x				x											
* <i>Mamestra subjuncta</i>					x	x	x	x	x												
* <i>M. legitima</i>								x		x											
* <i>M. lilacina</i>														x							
* <i>M. adjuncta</i>				x	x	x	x	x	x					x							
* <i>M. lutra</i>																					
<i>M. latex</i>								x	x												
* <i>Sideridis rosea</i>						x															
* <i>Anepia capsularis</i>										x											
<i>Orthodes crenulata</i>						x	x	x						x							
* <i>Ceramica picta</i>								x	x												
* <i>Crocigrapha normani</i>						x															
* <i>Morrisonia evicta</i>				x	x	x															
* <i>M. distincta</i>	x					x															
* <i>M. confusa</i>				x	x																
<i>Nephelodes emmedonia</i>																				x	
* <i>Taeniocampa hibisci</i>	x	x																			
* <i>T. garmani</i>	x																				
<i>Leucania unipuncta</i>	x			x	x															x	
<i>L. albilinea</i>				x	x																
* <i>L. multilinea</i>						x	x														
<i>L. pseudargyria</i>								x													
<i>L. commoides</i>											x										
* <i>L. phragmatidicola</i>									x	x											
<i>Cucullia asteroides</i>								x						x							
* <i>Eulotype electilis</i>	x																				
* <i>Copivaleria grotei</i>	x	x																			
* <i>Lithophane bethunei</i>	x																				
* <i>L. antennata</i>	x																				
* <i>L. unimoda</i>	x																				
* <i>Eupsilia morrisoni</i>	x																				
<i>Septis cariosa</i>									x												
<i>S. lignicolora</i>								x	x												
<i>S. arctica</i>											x	x	x								
<i>S. obscura separans</i>									x												
<i>S. devastator</i>											x	x		x	x						
<i>Apamea velata</i>									x												
* <i>Apamea americana</i>											x	x									
* <i>Papaipema marginidens</i>														x						x	
* <i>Luperina passer</i>														x							
<i>Oligia fractilinea</i>											x										

*New record for Berrien County, Michigan.

Table 1. Continued.

Species	April			May			June			July			August			Sept.			Oct.		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
NOCTUIDAE (Continued)																					
* <i>O. bridghami</i>										x	x										
<i>Arzama obliqua</i>							x	x				x									
* <i>Euplexia benesimilis</i>				x			x														
<i>Hyppa xylinoides</i>				x	x									x							
<i>Nedra ramosula</i>	x	x		x	x	x				x											
* <i>Prodenia ornithogalli</i>				x							x	x		x							
<i>Ipimorpha pleonectusa</i>											x										
<i>Chytonix palliatricula</i>												x									
<i>Trachea delicata</i>							x	x													
<i>Apatela americana</i>													x								
<i>A. dactylina</i>							x	x													
* <i>A. lepusculina</i>				x	x		x			x	x										
<i>A. hasta</i>										x											
* <i>A. clarescens</i>										x											
* <i>A. connecta</i>						x															
<i>A. impressa</i>												x									
<i>A. oblinata</i>												x	x								
<i>Simyra henrici</i>			x	x	x		x			x											
* <i>Stibadium spumosum</i>																				x	
<i>Eudryas unio</i>							x	x						x							
<i>E. grata</i>											x										
* <i>Callopietria monetifera</i>														x							
* <i>Pyrrhia umbra</i>						x															
<i>Crambodes taldiformis</i>								x													
<i>Amphipyra pyramidoides</i>												x		x							
* <i>A. tagopoginis</i>												x									
* <i>A. glabella</i>												x	x								
<i>Leuconycta diptheroides</i>							x	x													
* <i>Balsa melana</i>				x	x		x														
<i>Ogdoconta cinereola</i>							x					x									
<i>Cerma cerintha</i>							x					x									
<i>Perigea videns</i>				x			x					x									
* <i>P. xanthoides</i>							x														
<i>Agriopodes teratophora</i>								x				x									
<i>Erastria albidula</i>													x								
<i>Neoerastria apicosa</i>													x								
* <i>Eutelia pulcherrima</i>								x													
* <i>Marathyssa basalis</i>					x																
* <i>Abrostola urentis</i>								x													
<i>Panthea furcilla</i>												x									
<i>Raphia frater</i>							x	x					x		x						
<i>Charadra deridens</i>					x																
* <i>Demas propinquinelinea</i>								x													
<i>Plusia falcifera</i>				x	x							x								x	
* <i>P. contexta</i>								x	x												
<i>P. precatonnis</i>					x	x							x								
<i>P. formosa</i>													x								
* <i>P. aerea</i>								x	x					x							

*New record for Berrien County, Michigan.

Table 1. Continued.

Species	April			May			June			July			August			Sept.			Oct.		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
NOCTUIDAE (Continued)																					
* <i>Catocala innubens</i>													X								
* <i>C. vidua</i>																	X	X			X
* <i>C. nebulosa</i>													X								
* <i>C. subnata</i>													X								
<i>C. neogama</i>													X	X			X				
<i>C. relicta</i>												X		X			X				
* <i>C. parta</i>											X										
* <i>C. briseis</i>													X								
<i>C. unijuga</i>												X									
<i>C. concumbans</i>											X	X	X	X	X						
<i>C. amatrux</i>															X						
* <i>C. coccinata</i>											X										
<i>C. ultronia</i>											X	X									
* <i>C. mira</i>											X	X									
* <i>C. grynea</i>											X	X									
* <i>C. gracilis</i>											X	X									
<i>C. amica</i>												X	X								
<i>Caenurgia erechthea</i>			X	X	X		X	X			X	X					X				
<i>Zale undularis</i>					X	X	X				X										
<i>Z. lunata</i>											X		X								
<i>Z. lunifera</i>					X		X	X			X		X								
* <i>Z. unilineata</i>			X		X																
* <i>Panopoda carneicosta</i>											X										
* <i>Euparthenos nubilis</i>							X						X								
* <i>Melipotis jucunda</i>											X										
<i>Drasteria grandirena</i>							X														
<i>Scoliopteryx libatrix</i>							X														
<i>Scolecocampa liburna</i>											X										
<i>Bomolocha abalienalis</i>								X													
<i>B. baltimoralis</i>								X													
<i>Plusiodonta compressipalpis</i>													X								
<i>Plathypena scabra</i>											X										
<i>Bleptina caradrinalis</i>											X										
NOTODONTIDAE																					
<i>Melalopha apicalis</i>					X	X					X										
<i>Datana ministra</i>								X													
<i>D. perspicua</i>													X								
* <i>D. contracta</i>								X	X	X	X	X									
<i>Gluphysia septentrionalis</i>					X		X		X	X											
* <i>G. lintneri</i>		X																			
<i>Ellida caniplaga</i>		X									X	X									
* <i>Nadata gibbosa</i>							X				X	X	X								
<i>Peridea angulosa</i>											X		X								
* <i>Hyperaescha georgica</i>						X	X	X			X										
* <i>Odontotia elegans</i>								X						X							
<i>Pheosia dimidiata</i>					X	X	X	X				X									
* <i>Nerice bidentata</i>					X		X				X	X									
* <i>Oligocentria lignicolor</i>												X									

*New record for Berrien County, Michigan.

Table I. Continued.

Species	April			May			June			July			August			Sept.			Oct.			
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	
NOTODONTIDAE (Continued)																						
<i>Schizura unicornis</i>				x						x	x											
<i>S. ipomeae</i>								x			x											
<i>Heterocampa bilineata</i>												x										
<i>Misogada unicolor</i>								x			x		x									
* <i>Cerura occidentalis</i>				x				x				x										
<i>C. cinerea</i>								x						x								
THYATRIDAE																						
<i>Pseudothyatira expultrix</i>									x													
EUPTEROTIDAE																						
<i>Apatelodes torrefacta</i>									x													
LASIOCAMPIDAE																						
* <i>Malacosoma americana</i>									x													
<i>Epicnaptera americana</i>		x	x	x							x	x										
GEOMETRIDAE																						
* <i>Heliomata cycladata</i>									x													
* <i>Itame pustularia</i>											x	x										
* <i>Semiothisa distribuaris</i>												x	x									
* <i>Tornos scolopacinaris</i>		x		x									x									
* <i>Anacamptodes humaria</i>					x			x	x				x	x								
<i>Ectropis crepuscularia</i>			x																			
<i>Epimecis hortaria</i>									x													
<i>Melanolophia signataria</i>					x	x		x	x					x								
* <i>Lycia cognataria</i>							x	x	x				x									
* <i>L. ursaria</i>		x																				
* <i>Phigalia titea</i>		x	x																			
<i>Euchlaena effecta</i>									x													
<i>E. serrata</i>									x		x	x										
* <i>E. obtusaria</i>									x													
<i>E. johnsonaria</i>									x	x												
<i>Xanthotype sospeta</i>									x	x			x		x							
* <i>X. urticaria</i>									x				x									
* <i>Pero honestaria</i>					x			x							x							
* <i>Ennomos magnarius</i>															x							
<i>Metanema inatomaria</i>									x													
<i>Metarrhantis duaria</i>									x													
<i>M. hypochraria</i>									x													
<i>Apicia confusaria</i>						x		x			x											
<i>Tetracis cachexiata</i>								x	x													
<i>Sabulodes transversata</i>						x	x	x	x		x	x								x		
<i>S. thiosaria</i>						x	x	x			x	x	x									
<i>Synchlora aerata</i>									x													
<i>Campaea perlata</i>									x													
<i>Eugonobapta nivosaria</i>												x										
<i>Haematopsis grataria</i>									x												x	
<i>Scopula limboundata</i>									x			x										
* <i>Triphosa affirmaria</i>								x	x			x	x									
* <i>Lygris testata</i>													x									

*New record for Berrien County, Michigan.

Table 1. Continued.

Species	April			May			June			July			August			Sept.			Oct.			
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	
GEOMETRIDAE (Continued)																						
<i>Percnoptilota centrostrigaria</i>								x														
<i>P. obstipata</i>							x	x		x												
* <i>Eupithecia ravocostaliata</i>	x																					
<i>Dyspteris abortivaria</i>								x														
LIMACODIDAE																						
* <i>Prolimacodes scapha</i>												x										
* <i>Cochlidion biguttata</i>								x														
COSSIDAE																						
* <i>Prionyxthus robinæ</i>								x														
AEGERIIDAE																						
* <i>Silyora acerni</i>								x	x					x								

*New record for Berrien County, Michigan.

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