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A LIST OF THE SCUTELLEROIDEA (HEMIPTERA) OF SOUTHERN ILLINOIS

J. E. McPherson¹

ABSTRACT

A list of the Scutelleroidea of southern Illinois is presented with information on the state distribution of each species.

In 1976, I coauthored a paper with R. H. Mohlenbrock on the Scutelleroidea of the La Rue-Pine Hills Ecological Area, Union County, southern Illinois. Since several additional species occur in southern Illinois, but outside Pine Hills, the 1976 paper gave an incomplete picture of the scutelleroid fauna of this part of the state. This paper presents a complete list of southern Illinois scutelleroids and includes the distribution of each species in Illinois to provide more appreciation of the composition of the southern Illinois fauna.

METHODS AND MATERIALS

During the past two years (1977-1978), I have examined eight Illinois scutelleroid collections (see acknowledgments) in addition to that of the Southern Illinois University, Carbondale, Zoology Research Museum. All but one (Northern Illinois University) contained specimens collected in southern Illinois and all provided information on state distributions. For the purposes of this paper, southern Illinois is defined as that part of the state south of a line from St. Louis, Missouri to Vincennes, Indiana (Fig. 1). The southern counties in which the species represented by these specimens have been found are given unless collected in more than five counties; if more than five, the distributions are listed as "Generally Distributed" (Table 1). State distributions are divided into four categories as defined in Table 1.

RESULTS

Sixty five species and subspecies were identified (Table 1), representing about 71% of Illinois' scutelleroids (unpublished data). Of these, nine occur only in southern Illinois, 15 primarily in the southern half, and five primarily in the northern half of Illinois; the remainder occur statewide (32) or cannot presently be placed into one category (four).

Comparisons of southern Illinois scutelleroid diversity with those of other geographical areas are difficult since most other lists are outdated because of taxonomic revisions published during the last 45 years. However, the two most recent state lists give the number of scutelleroid species and subspecies as follows: Michigan, 69 (McPherson, 1970); Virginia, 79 (Hoffman, 1971). Since this paper deals only with the scutelleroids of southern Illinois, and the species diversity of this area (65 species and subspecies) compares favorably to those of Michigan and Virginia, the scutelleroid diversity of this part of the state must be considered high.

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Table 1. List of the Scutellerioidea of southern Illinois and state distributions.

Taxon	Southern Illinois County Records	State Distribution ^a
Scutelleridae		
Pachycorinae		
<i>Acantholomidea denticulata</i> (Stål)	Washington	3
<i>Homaemus parvulus</i> (Germar)	Gen. Dist.	2
<i>Stethaulax marmorata</i> (Say)	Jackson, Union, Williamson	1
Thyreocoridae		
<i>Corimelaena agrella</i> McAtee	Alexander, Jackson, Union, Williamson	2
<i>C. harti</i> Malloch	Jackson, Union	1
<i>C. l. lateralis</i> (Fabricius)	Gen. Dist.	4
<i>C. obscura</i> McPherson & Sailer	Alexander, Jackson, Johnson, Pulaski, Union	4
<i>C. pulicaria</i> (Germar)	Gen. Dist.	4
<i>Galgupha aterrma</i> Malloch	Jackson, Marion, St. Clair, Union, Williamson	4
<i>G. atra</i> Amyot & Serville	Gen. Dist.	4
<i>G. carinata</i> McAtee & Malloch	Alexander, Gallatin Pulaski, Union	1
<i>G. denudata</i> (Uhler)	Jackson, Union	1
<i>G. loboprostethia</i> Sailer	Jackson, Union	2
<i>G. n. nitiduloides</i> (Wolff)	Richland, Wayne	3-4
<i>G. ovalis</i> Hussey	Gen. Dist.	4
Cydnidae		
Cydninae		
<i>Cyrtomenus ciliatus</i> (Palisot de Beauvois)	Jackson, Union	1
<i>Melanaethus pensylvanicus</i> (Signoret)	Jackson, Union	2
<i>M. robustus</i> Uhler	Union, Williamson	4
<i>Pangaeus bilineatus</i> (Say)	Gen. Dist.	4
Amnestinae		
<i>Amnestus pallidus</i> Zimmer	Jackson, Union	4
<i>A. pusillus</i> Uhler	Clinton/Marion ^b , Jackson, Pope, Union, Williamson	4
<i>A. spinifrons</i> (Say)	Union	3
Sehirinae		
<i>Sehirus c. cinctus</i> (Palisot de Beauvois)	Gen. Dist.	2
Pentatomidae		
Graphosomatinae		
<i>Amaurochrous cinctipes</i> (Say)	Alexander, Jackson, Pulaski, Union	4
Pentatominae		
<i>Acrosternum hilare</i> (Say)	Gen. Dist.	4
<i>Aelia americana</i> Dallas	Jackson, Union	1
<i>Banasa calva</i> (Say)	Jackson, Union, Williamson	4
<i>B. dimidiata</i> (Say)	Gen. Dist.	4
<i>B. euchlora</i> Stål	Hardin, Jackson, Johnson, Pope, Williamson	1-2

Table 1, Continued

Taxon	Southern Illinois County Records	State Distribution ^a
<i>B. sordida</i> (Uhler)	Jackson, Johnson, Pope	1-2
<i>Brochymena arborea</i> (Say)	Gen. Dist.	4
<i>B. cariosa</i> Stål	Jackson, Massac, Pulaski, Saline, Williamson	1
<i>B. p. punctata</i> Van Duzee	Gallatin, Hardin, Jackson	1
<i>B. quadripustulata</i> (Fabricius)	Gen. Dist.	4
<i>Chlorochroa persimilis</i> Horvath	Jackson	3
<i>Coenus delius</i> (Say)	Gen. Dist.	4
<i>Cosmopepla bimaculata</i> (Thomas)	Gen. Dist.	4
<i>Dendrocoris humeralis</i> (Uhler)	Jackson, Pope, Union	4
<i>Euschistus ictericus</i> (Linnaeus)	Union	4
<i>E. politus</i> Uhler	Union, Washington	4
<i>E. servus</i> (Say)	Gen. Dist.	2 ^c
<i>E. t. tristigmus</i> (Say)	Gen. Dist.	2
<i>E. variolarius</i> (Palisot de Beauvois)	Gen. Dist.	4
<i>Holcostethus limbolarius</i> (Stål)	Gen. Dist.	4
<i>Hymenarcys aequalis</i> (Say)	Gen. Dist.	4
<i>H. nervosa</i> (Say)	Gen. Dist.	2
<i>Meneclis insertus</i> (Say)	Jackson, Pope, Union, Washington, Williamson	4
<i>Mormidea lugens</i> (Fabricius)	Gen. Dist.	4
<i>Murgantia histrionica</i> (Hahn)	Gen. Dist.	2
<i>Neottiglossa cavifrons</i> Stål	Gen. Dist.	2
<i>N. sulcifrons</i> Stål	Gen. Dist.	2
<i>Nezara viridula</i> (Linnaeus)	Union	1 ^d
<i>Oebalus pugnax</i> (Fabricius)	Gen. Dist.	2
<i>Prionosoma podopioides</i> Uhler	Jackson	4
<i>Proxys punctulatus</i> (Palisot de Beauvois)	Gen. Dist.	1-2
<i>Thyanta calceata</i> (Say)	Gen. Dist.	2
<i>T. pallido-virens accerra</i> (McAtee)	Gen. Dist.	4
<i>Trichopepla semivittata</i> (Say)	Gen. Dist.	2
Asopinae		
<i>Apateticus cynicus</i> (Say)	Franklin, Jackson, Union, Washington	4
<i>Mineus strigipes</i> (Herrich-Schaeffer)	Jackson	4
<i>Perillus bioculatus</i> (Fabricius)	Pope	3
<i>Podisus maculiventris</i> (Say)	Gen. Dist.	4
<i>P. modestus</i> (Dallas)	Clinton/Marion ^b	3
<i>P. placidus</i> Uhler	Johnson, Union	4
<i>Stiretrus anchorago fimbriatus</i> (Say)	Gen. Dist.	2

^aState distribution coded as follows: 1=southern Illinois only, 2=primarily southern half of state, 3=primarily northern half of state, 4=statewide distribution. Those difficult to place into one category are listed as intermediate between the two closest categories (e.g., 1-2).

^bCollected in Centralia which lies on the common border of Clinton and Marion Counties.

^cAlthough *E. servus* occurs statewide, *E. s. euschistoides* (Vollenhoven) can be distinguished north of ca. the middle of the state. This subspecies intergrades with the nominal subspecies in the southern half of Illinois.

^dThere is also a questionable record from Urbana housed in the Eastern Illinois University collection.

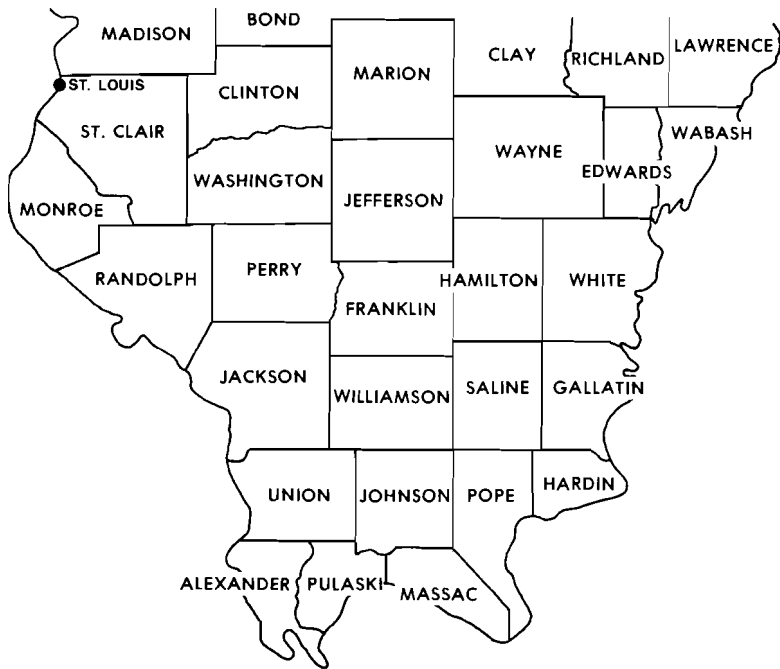


Fig. 1. Counties of southern Illinois.

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