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A Check-list of the Spiders of Arkansas

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A CHECK-LIST OF THE SPIDERS OF ARKANSAS

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ABSTRACT

Collections of spiders were made from 1966, to the present in the six physiographic regions of Arkansas. During this time 435 species representing 35 families were collected and recorded.

INTRODUCTION

Research has been in progress for the past 18 years to provide a checklist of Arkansas spiders. Dorris (1968, 1969, 1970, 1971, 1972, 1980); Dorris and Burnside (1977); Beck and Dorris (1983); and Dorris and Saughey (1983); made numerous studies in an effort to cover the major physiographic regions of the state. Whitcomb, Exline, and Hite (1963); Whitcomb and Tadic (1963); Whitcomb and Bell (1964); and Warren, Peck, and Tadic (1967) made arthropod studies in agricultural habitats of the Ozark Mountain Area. Heiss (1977) collected specimens from pit traps located in two counties of the Ozark Mountain Area.

The six physiographic regions of Arkansas as defined by the Environmental and Conservation office of the Department of Education, show significant ecological differences with habitat diversity including mountains, upland hardwoods, bottomland hardwoods, loblolly-shortleaf pine, cedar glade, upland prairie, to caves.

The purpose of this lengthy study has been to determine the spider fauna of Arkansas. It is the authors opinion that at least 90% of the species have been identified, while recognizing that an ecological study of this scope can rarely be definitive.

METHODS AND MATERIALS

Several methods and types of instrumentation for collecting were used. They were (a) heavy duty sweep net in grasses and heavy brush, (b) wire mesh for leaf litter, (c) chopping bark from trees, (d) hand picking from bushes, ground and old dwellings and other related places, (e) mud-dauber nest collections to reveal paralyzed spiders captured by mud-daubers, (f) night spot-lighting. Pit traps were used extensively in Drew County and Heiss (1977) also employed this sampling technique. Collections from other institutions such as University of Arkansas at Fayetteville and L.S.U. at Baton Rouge were examined.

Most of the collections were made between the hours of 9 A.M. and 5 P.M. The specimens were preserved in screw cap vials containing 75% ethyl alcohol.

In all physiographic regions 8-10 check stations were set up across the whole region so that coverage of the various habitats could be assured.

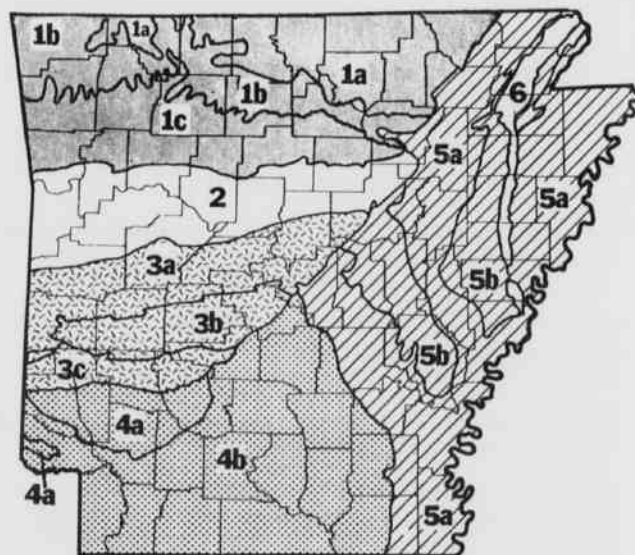
Names used are those employed by Kaston and Kaston (1972), Gertsch (1974), and Comstock (1982). Species are listed alphabetically. The arrangement followed is that of Kaston (1948, 1978). Other literature used for identification of specimens included: Archer (1951), Brady (1964, 1969), Bell (1967), Bowling and Sauer (1975), Carico and Holt (1964), Dondale (1961), Dondale and Redner (1968), Emerton (1961), Exline (1938, 1962), Exline and Levi (1962), Gertsch (1934, 1949, 1953, 1979), Ivie (1969), Kaston (1973), Peck (1966, 1981), Peck and Peck (1982), Rapp (1980), and Sauer and Platnick (1972).

RESULTS AND DISCUSSION

Four hundred thirty-five species representing 35 families were collected from the following habitat types: forests, mixed deciduous and pine forests, buildings, inhabited dwellings, abandoned dwellings, barns and other out buildings, caves, mine tunnels, roadsides, bare ground,

mixed grasses, fields of mixed grasses, shrubs, herbs, mud-dauber nests, and water surfaces. The number of specimens decreased as temperature and humidity increased.

Figure 1, Pell (1983), represents the six physiographic regions covered in this study. It is the belief of this author that at least 90% of the spider fauna of Arkansas has been identified. The Arkansas spider checklist of species follows and common names are employed where known.



- 1 OZARK MOUNTAINS NATURAL DIVISION
 - 1a Salem Plateau Subdivision
 - 1b Springfield Plateau Subdivision
 - 1c Boston Mountains Subdivision
- 2 ARKANSAS VALLEY NATURAL DIVISION
- 3 OUACHITA MOUNTAINS NATURAL DIVISION
 - 3a Fourche Mountains Subdivision
 - 3b Central Ouachita Mountains Subdivision
 - 3c Athens Piedmont Plateau Subdivision
- 4 WEST GULF COASTAL PLAIN NATURAL DIVISION
 - 4a Southwestern Arkansas
 - 4b Southcentral Arkansas
- 5 MISSISSIPPI ALLUVIAL PLAIN NATURAL DIVISION
 - 5a Bottomlands Subdivision
 - 5b Loessial Plains Subdivision
- 6 CROWLEY'S RIDGE NATURAL DIVISION

Figure 1. Natural Divisions of Arkansas

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A CHECKLIST OF THE SPIDERS OF ARKANSAS

- ANTRODIAETIDAE Folding-door trap-door spiders
Antrodiaetus unicolor (Hentz)
- THERAPHOSIDAE "Ordinary" tarantulas
Dugesia hentzi (Girard)
- CTENIZIDAE Trap-door spiders
Bothriocyrtum californicum (O. P. Cambridge)
Ummidia audouini (Lucas) Common trap-door spider
- FILISTATIDAE
Filistata hibernalis Hentz Brown house spider
- OECOBIIDAE
Oecobius annulipes Lucas
Oecobius cellariorum (Duges)
Oecobius texanus Bryant
- ULOBORIDAE
Hyptiotes cavatus (Hentz) Triangle spider
Uloborus diversus Marx
Uloborus glomosus (Walckenaer) Feather-legged spider
- DICTYNIDAE
Dictyna annulipes (Blackwall)
Dictyna bicornis (Emerton)
Dictyna hentzi Kaston
Dictyna segregata Gertsch & Mulaik
Dictyna volucris Keyserling
Lathys pallida (Marx)
- AMAUROBIIDAE White-eyed spiders
Amaurobius bennetti (Blackwall)
Amaurobius ferox (Walckenaer)
Callioplus tibialis (Emerton)
Titanoeca americana Emerton
- SCYTODIDAE Spitting spiders
Scytodes thoracica (Latreille)
Scytodes perfecta Banks
- LOXOSCELIDAE
Loxosceles reclusa Gertsch & Mulaik Brown recluse-
Violin spider
Loxosceles rufescens (Dufour)
- LEPTONETIDAE
Leptoneta arkansa Gertsch
- SEGESTRIIDAE
Ariadna bicolor (Hentz)
- PHOLCIDAE Cellar spiders
Pholcus phalangioides (Fuesslin) Long-bodied cellar spiders
Spernophora meridionalis Hentz Short-bodied cellar spiders
- THERIDIIDAE Comb-footed spiders
Achaearanea globosa (Hentz)
Achaearanea porteri (Banks)
Achaearanea tepidariorum (C. L. Koch) House spider-
Domestic spider
Argyrodes trigonum (Hentz)
Aelosimus textrix (Walckenaer)
Conopistha rufa (Walckenaer)
Conopistha trigona (Hentz)
Ctenium riparius (Keyserling)
Dipoena nigra (Emerton)
Diopena buccalis Keyserling
Euryopsis limbata (Walckenaer)
Euryopsis funebris (Hentz)
Latrodectus geometricus C. L. Koch
Latrodectus hasselti Thorel
Latrodectus hesperus Chamberlin & Ivie
Latrodectus mactans (Fabricius) Black widow
Latrodectus variolus (Walckenaer)
Rhomphaea lacerta (Walckenaer)
Spintharus flavidus Hentz
Steatoda palmara Chamberlin & Ivie
Steatoda triangulosa (Walckenaer)
Teutana triangulosa (Walckenaer)
Theridula opulenta (Walckenaer)
- Theridula emertoni* (Levi)
Theridion australe Banks
Theridion differens Emerton
Theridion flavonotatum Becker
Theridion frondeum Hentz
Theridion intervallatum Emerton
Theridion murarium Emerton
Theridion neshamini Levi
Theridion rabuni Chamberlin & Ivie
Theridion tinctum Walckenaer
Tidarren sisyphoides (Walckenaer)
Ulesanis americana Emerton
- NESTICIDAE
Eidmannella pallida (Emerton)
- LINYPHIIDAE
Florinda coccinea (Hentz)
Frontinella pyramitela (Walckenaer) Bowl & doily spider
Lepthyphantes nebulosa (Keyserling)
Meioneta fabra (Keyserling)
Meioneta meridionalis Crosby & Bishop
Meioneta micaria Emerton
Porrhomma caverniculum Keyserling
Prolynphia maculata Emerton
Prolynphia marginata (C. L. Koch)
- MICRYPHANTIDAE
Ceraticelus creolus Chamberlin
Ceraticelus similis (Banks)
Eperigone maculata (Banks)
Eperigone tridentata (Emerton)
Eperigone trilobata (Emerton)
Erigone autumnalis Emerton
Gonatium rubens (Blackwall)
Grammonota inornata Emerton
Grammonota maculata Banks
Grammonota texana (Banks)
Walckenaera spiralis (Emerton)
Walckenaera vigilax (Blackwall)
- THERIDIOSOMATIDAE Ray spiders
Theridiosoma radiosa (McCook) Ray spider
- ARANEIDAE Typical orb weavers
Acacesia hamata (Hentz)
Acanthepeira moesta Comstock
Acanthepeira stellata (Marx) Star-bellied spider
Acanthepeira vanusta (Banks)
Araneus cavaticus (Keyserling)
Araneus cingulatus (Walckenaer)
Araneus gemma (McCook)
Araneus frondosa (Linnaeus) Foliate spider
Araneus guttulatus (Walckenaer)
Araneus juniperi (Emerton)
Araneus marmoreus Clerck Marbled spider
Araneus miniatus (Walckenaer)
Araneus nordmanni (Thorell)
Araneus partitus (Walckenaer)
Araneus thaddeus (Hentz)
Araniella displicata (Hentz)
Argiope aurantis Lucas Black & yellow garden spider-
Writing spider
Argiope trifasciata (Forsk.) Banded garden spider
Conopeira ozarkensis Archer
Cyclosa bifurca (Hentz)
Cyclosa conica (Pallas)
Cyclosa turbinata (Walckenaer)
Epeira cornuta (Clerck)
Eustala anastera (Walckenaer)
Eustala arkansana Archer
Eustala cepina (Walckenaer)
Gasteracantha elipsoides (Walckenaer) Spiny-bellied orb
weaver
Gea Heptagon (Hentz)

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- Glyptocranium bisaccatum* Comstock
Larinia directa (Hentz)
Leucauge venusta (Walckenaer)
Mangora gibberosa (Hentz)
Mangora maculata (Keyserling)
Mangora placida (Hentz)
Mecynogea lemniscata (Walckenaer) Basilica spider
Meta menardii (Latreille) Cave orb weaver
Metepeira labyrinthea (Hentz)
Micrathena gracilis (Walckenaer) Spiny-bellied orb weaver
Micrathena sagittata (Walckenaer) Spiny-bellied orb weaver
Neoscona arabesca (Walckenaer)
Neoscona domiciliorum (Hentz)
Neoscona minima O. P. Cambridge
Neoscona pratensis (Hentz)
Neoscona sacra (Walckenaer)
Neosconella pegnia (Walckenaer)
Nephila clavipes (Linnaeus) Foliate spider
Nuctenea cornuta (Clerck) Furrow spider
Nuctenea sericata (Clerck) Bridge spider-Gray cross spider
Singa Keyserling McCook
Verrucosa arenata (Walckenaer)
Wixia ectypa (Walckenaer)
- TETRAGNATHIDAE**
Leucage venusta (Walckenaer) Orchard spider
Mimognatha foxi (McCook)
Pachygnatha tristriata C. L. Koch Thick-jawed orb weaver
Tetragnatha elongata Walckenaer Long-jawed orb weaver
Tetragnatha laboriosa Hentz
Tetragnatha seneca Seeley
Tetragnatha straminea Emerton
Tetragnatha versicolor Walckenaer
- AGELENIDAE** Funnel-web weavers
Agelenopsis emertoni Chamberlin & Ivie
Agelenopsis naevia (Walckenaer)
Agelenopsis pennsylvania (C. L. Koch)
Agelenopsis potteri (Blackwall)
Circurina arcuata Keyserling
Circurina bryantae Exline
Circurina davisii Exline
Circurina robusta Simon
Circurina tersa Simon
Coras medicinalis (Hentz)
Coras montanus Emerton
- HAHNIIDAE**
Hahnia cinerea Emerton
Neoantistea agilis Keyserling
Neoantistea riparia (Keyserling)
- MIMETIDAE**
Ero furcata (Villers)
Mimetus epeiroides Emerton
Mimetus interfector Hentz
Mimetus puritanus Chamberlin
- PISAUROIDAE** Nursery-web spiders
Dolomedes scriptus Hentz Fishing spider
Dolomedes tenebrosus Hentz Fishing spider
Dolomedes triton (Walckenaer) Fishing spider
Dolomedes vittatus (Walckenaer) Fishing spider
Pelopatis undulata (Keyserling)
Pisaurina mira (Walckenaer)
Pisaurina mirabilis (Clerck)
Tinus peregrinus (Bishop)
- LYCOSIDAE** Wolf spiders
Allocosa funerea (Hentz)
Arctosa emertoni Gertsch
Arctosa littoralis (Hentz)
Arctosa sublata (Montgomery)
Arctosa virgo (Chamberlin)
Lycosa annexa (Chamberlin & Ivie)
Lycosa antelucana Montgomery
Lycosa aspersa Hentz
Lycosa gulosa Walckenaer
Lycosa avara (Keyserling)
Lycosa frondicola Emerton
Lycosa carolinensis Walckenaer
Lycosa baltimoriana (Keyserling)
Lycosa helluo Walckenaer
Lycosa var. *annexa*
Lycosa lenta Hentz
Lycosa modesta (Keyserling)
Lycosa punctulata (Hentz)
Lycosa rabida Walckenaer
Pardosa banksi Chamberlin
Pardosa distincta (Blackwall)
Pardosa floridana Banks
Pardosa lapidicina Emerton
Pardosa milvina (Hentz)
Pardosa moesta Banks
Pardosa pauxilla Montgomery
Pardosa pullata (Clerck)
Pardosa saxatilis (Hentz)
Pardosa saxatilis var. *atlantica*
Pardosa sternalis (Thorell)
Pardosa utahensis Chamberlin
Pirata alachua Gertsch & Wallace
Pirata apalacheus Gertsch
Pirata insularis Emerton
Pirata minutus Emerton
Pirata piratica (Clerck)
Pirata sedentarius Montgomery
Pirata suwaneus Gertsch
Pirata sylvanus Chamberlin
Schizocosa avida (Walckenaer)
Schizocosa bilineata (Emerton)
Schizocosa crassipes (Walckenaer)
Schizocosa ocreata (Hentz)
Schizocosa retrorsa (Banks)
Tarentula accentuata (Latreille)
Tarentula aculeata (Clerck)
Tarentula kochi Keyserling
Trabea aurantiaca (Emerton)
Trochosa acompa (Chamberlin)
Trochosa avara Keyserling
- OXYOPIDAE** Lynx spiders
Hamataliwa hilia Brady
Oxyopes acleistus Chamberlin
Oxyopes aglossus Chamberlin
Oxyopes helius Chamberlin
Oxyopes salticus Hentz
Oxyopes scalaris Hentz
Peucetia veridans (Hentz) Green Lynx
- GNAPHOSIDAE** Ground spiders
Callilepis imbecilla (Keyserling)
Callilepis pluto Banks
Cesonia bilineata (Hentz)
Drassodes auriculoides Barrows
Drassodes hypocrita Simon
Drassodes neglectus (Keyserling)
Drassyllus aprilius (Banks)
Drassyllus covensis Exline
Drassyllus creolus Chamberlin & Gertsch
Drassyllus depressus (Emerton)
Drassyllus dixinus Chamberlin
Drassyllus fallens Chamberlin
Drassyllus femoralis Banks
Drassyllus mephisto Chamberlin
Drassyllus socius Chamberlin
Drassyllus virginianus Chamberlin
Geodrassus phanus Chamberlin
Gnaphosa muscorum (L. Koch)

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- Gnaphosa sericata* (L. Koch)
Haplodrassus signifer (C. L. Koch)
Herpyllus ecclesiasticus Hentz Parson spider
Litophullus rupicolens Chamberlin
Peocilochroa capulata (Walckenaer)
Peocilochroa fumulus (Chamberlin)
Rachodrassus echinus Chamberlin
Rachodrassus exlineae Platnick & Shadak
Sergiolus capulatus (Walckenaer)
Sergiolus famulus Chamberlin
Sostichus insularis (Banks)
Strotarchus piscatoria (Hentz)
Zelotes duplex (Chamberlin)
Zelotes hentzi (Barrows)
Zelotes laccus (Barrows)
Zelotes rusticus (L. Koch)
- CLUBIONIDAE** Foliage spiders
Agroeca pratensis Emerton
Castianetra amoena (C. L. Koch)
Castianiera cingulata (C. L. Koch)
Castianiera descripta (Hentz)
Castianiera gertschi Kaston
Castianiera longipalpus (Hentz)
Castianiera trilineata (Hentz)
Castianeira variata Gertsch
Castianiera vulnerea Gertsch
Chiracanthium erraticum (Walckenaer)
Chiracanthium inclusum (Hentz)
Clubiona abbotii L. Koch
Clubiona excepta Koch
Clubiona catawba Gertsch
Clubiona johnsoni Gertsch
Clubiona moesta Banks
Clubiona obesa Banks
Clubiona pallens Hentz
Clubiona putris Koch
Clubiona riparia Koch
Clubiona saltitans Emerton
Marcellina piscatoria (Hentz)
Meriola decepta Banks
Micaria aurata (Hentz)
Micaria longipes Emerton
Micaria vinnula Gertsch
Phrurotimpus alarius (Hentz)
Phrurotimpus borealis (Emerton)
Phrurotimpus formica Banks
Phrurotimpus illudens (Gertsch)
Scotinella formica L. Koch
Scotinella fratella (Gertsch)
Scotinella pallida Banks
Scotinella redempta Gertsch
Strotarchus piscatorius (Hentz)
Trachelas laticeps Bryant
Trachelas similis Cambridge
Trachelas tranquillus (Hentz)
- ANYPHAENIDAE**
Anyphaena celer (Hentz)
Anyphaena fragilis Banks
Anyphaena maculata (Banks)
Aysha gracilis (Hentz)
Aysha velox (Becker)
Wulfilia saltabunda (Hentz)
- ZORIDAE**
Zora pumilus (Hentz)
- CTENIDAE**
Anahita animosa (Walckenaer)
Ctenus exlineae Peck
Ctenus hibernalis (Hentz)
- THOMISIDAE** Crab spiders
Coriarachne floridana Banks
Coriarachne lenta (Walckenaer)
Coriarachne versicolor Keyserling
Misumena vatia (Clerck) Flower spider; Goldenrod spider
Misumenops asperatus (Hentz)
Misumenops celer (Hentz)
Misumenops deserti Schick
Misumenoides formosipes (Walckenaer)
Misumenops oblongus (Keyserling)
Oxyptila conspurcata Thorell
Oxyptila modesta (Scheffer)
Oxyptila monroensis Keyserling
Synema parvula (Hentz)
Tmarus angulatus (Walckenaer)
Xysticus auctifucus Keyserling
Xysticus bicuspis Keyserling
Xysticus cunctator Thorell
Xysticus elegans Keyserling
Xysticus ferox (Hentz)
Xysticus fraternus Banks
Xysticus gulosus Keyserling
Xysticus montanensis Keyserling
Xysticus nervosus (Emerton)
Xysticus punctatus Keyserling
Xysticus texanus Banks
Xysticus triguttatus Keyserling
Xysticus transversatus (Walckenaer)
Xysticus tumefactus (Walckenaer)
Xysticus ulmi (Hahn)
- PHILODROMIDAE** Running crab spiders
Ebo latithorax Keyserling
Ebo punctatus Schick
Philodromus abbotii
Philodromus aureolus (Oliver)
Philodromus imbecillus Keyserling
Philodromus keyserling Marx
Philodromus laticeps Keyserling
Philodromus marxi Keyserling
Philodromus pernix Blackwall
Philodromus placidus Banks
Philodromus rufus Walckenaer
Philodromus satullus Keyserling
Philodromus vulgaris Hentz
Thanatus formicinus (Clerck)
Thanatus lysoides (Clerck)
Thanatus rubicellus Mello-Leitao
Thanatus vulgaris Simon
Tmarus angulatus (Walckenaer)
Tibellus duttoni (Hentz)
Tibellus ablongus (Walckenaer)
- SALTICIDAE** Jumping spiders
Agassa cerulea (Walckenaer)
Ballus youngii G. & E. Peckham
Corythalia aurata (Hentz)
Eris aurantia (Lucas)
Eris marginata (Walckenaer)
Eris pineus (Kaston)
Evarcha hoyi (G. & E. Peckham)
Habrocestum parvulum (Banks)
Habrocestum pulex (Hentz)
Habronattus borealis (Banks)
Habronattus coronatus (Hentz)
Habronattus decorus (Blackwall)
Habronattus paykulli (Audouin)
Habronattus viridipes (Hentz)
Hentzia ambigua (Walckenaer)
Hentzia mtrata (Hentz)
Icius elegans Emerton
Icius hartii Emerton
Icius vitis (Cockerell)
Maevia inclemens (Walckenaer)

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- Marpissa lineata* (C. L. Koch)
Marpissa pikei (G. & E. Peckham)
Metacyrba taeniola (Hentz)
Metacyrba undata (DeGreer)
Metaphidippus canadensis (Banks)
Metaphidippus exiguus (Banks)
Metaphidippus flaviceps Kaston
Metaphidippus flavipedes (Peckham)
Metaphidippus galathea (Walckenaer)
Metaphidippus insignis (Banks)
Metaphidippus protervus (Walckenaer)
Metaphidippus sexmaculatus (Banks)
Myrmarachne hentzi Banks
Neon nellii Peckham
Paraphidippus marginatus (Walckenaer)
Paraphidippus arantius (Kaston)
Peckhamia picata (Hentz)
Phidippus apacheanus Chamberlin & Gertsch
Phidippus audax (Hentz)
Phidippus carolinensis Peckham & Peckham
Phidippus hirsutus Barrows
Phidippus incertus Peckham
Phidippus insignarius C. L. Koch
Phidippus insolens Peckham
Phidippus mccoookii Peckham
Phidippus mystaceus Emerton
Phidippus opifex (McCook)
Phidippus otiosus Peckham
Phidippus princeps (Peckham)
Phidippus purpuratus Keyserling
Phidippus putmanii (Peckham)
Phidippus rimator (Walckenaer)
Phidippus variegatus (Lucas)
Phidippus whitmanii Peckham
Phlegra fasciata (Hahn)
Salticus scenicus (Linnaeus)
Sarinda hentzi (Banks)
Sassacus papenhoei G. & E. Peckham
Sitticus floricoles (C. L. Koch)
Sitticus floridanus Gertsch & Mulaik
Sitticus palustris G. & E. Peckham
Synemosyna lunata (Walckenaer)
Talavera minuta (Banks)
Thiodina iniquies (Walckenaer)
Thiodina puerpera (Hentz)
Tutelina similis (Banks)
Zygoballus bettinii G. & E. Peckham
Zygoballus nervosus (Peckham)
Zygoballus sexpunctatus (Hentz)
- LYSSOMANIDAE
Lyssomanes viridis (Walckenaer)

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