

SPIDERS OF THE KANSAS ECOLOGICAL RESERVES

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Spiders are a conspicuous and ecologically important group of predators although they may serve as prey for other species. Despite their importance, research in araneology has been hampered by the difficulty of making accurate identifications and the lack of natural history information for even many common species. Information concerning the spider fauna of Kansas is very limited. The only surveys of this group within the state are those by Cragin (1886), Scheffer (1904, 1905), Fitch (1963, 1965), Fitch and Fitch (1966), Guarisco and Kinman (1990), and Guarisco and Mott (1990). Although a thorough knowledge of the Kansas spider fauna is presently a distant goal, intensive study in the relatively small area of the Kansas Ecological Reserves (KER) has provided a working knowledge of the identity and habits of the local fauna.

This checklist is based on earlier work at the Fitch Natural History Reservation (FNHR) and Rockefeller Experimental Tract (Fitch 1963) and collections by the first author, primarily from the FNHR and Nelson Environmental Study Area, from 1972 to the present. Only very limited collecting has been done at the Baldwin Woods area. More field work, especially in the Baldwin Woods area, will undoubtedly add more species to this checklist. Voucher specimens are located in the preserved collections of the Kansas Biological Survey, the University of Kansas Snow Entomological Museum, and the senior author's personal collection.

The current KER spider checklist contains a total of 236 species (about one half of the currently reported fauna for Kansas). Thirty-six species are first reported from the KER and 21 of these are new state records. Each new state record is followed by an asterisk (*) and a new KER record is followed by a plus symbol (+). Some species have a question mark (?) before the scientific name. This indicates that it is a questionable record and more field work is needed to verify the species' presence. For example, *Spirembolus* sp. was recorded by Fitch (1963) but a recent revision (Millidge 1980) indicated that it is a genus which is restricted to the western United States and no Kansas localities were given. Therefore, although a species of this genus may occur here, in the absence of a voucher specimen the previous record is questionable. A recent revision of *Cyclosa* indicates that *C. caroli* (Hentz) is a southeastern species and many identifications of species within this genus were erroneous in earlier publications (Levi 1977). Both *C. conica* (Pallas) and *C. turbinata* (Walckenaer) occur in this part of Kansas and the latter species occurs on the KER. Kaston (1981) indicated that he had misidentified *Philodromus praelustris* Keyserling and *P. vulgaris* (Hentz) as *P. pernix* Blackwell. Because collecting on the KER has revealed many specimens of *P. vulgaris* but none of *P. pernix*, the record for the latter species is called into question. *Metaphidippus castaneus* (Hentz) is considered a southeastern species (Richman and Cutler 1978) and closely resembles *M. barrowsi* Kaston which does occur on the KER.

Recent taxonomic advances have made many of the scientific names used in earlier surveys obsolete. Therefore, this list provides the currently recognized scientific name and the describer followed by older names placed in synonymy. The list is arranged phylogenetically by family following (Platnick 1989). The next section provides habitat information: F = forest/woodland, O = open areas such as fields and prairie, F/O = forest edge, E = edificarian (e.g., associated with houses, barns, and bridges), and W = wetland. These are general

designations and many species occur in more than one habitat. The letter "U" indicates that the habitat information is unrecorded. The final section of the checklist indicates the source of the record as either a voucher specimen (v) or reported in literature (r).

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Family/Species	Habitat	Source
Atypidae		
<i>Sphodros fitchi</i> Gertsch and Platnick [= <i>Atypus</i> sp.]	F	v
<i>Sphodros niger</i> (Hentz) [= <i>Atypus niger</i> Emerton]	F/O O	v
<i>Sphodros rufipes</i> (Latreille)	F	v
Antrodiaetidae		
<i>Antrodiaetus lincolnianus</i> (Worley)	F/O	r
Ctenizidae		
<i>Ummidia</i> sp.	F/O	v
Loxoscelidae		
<i>Loxosceles reclusa</i> Gertsch and Mulaik	E	r
Pholcidae		
<i>Pholcus muralicola</i> Maughan and Fitch [= <i>Pholcus</i> sp.]	E F	v
<i>Psilochorus pullulus</i> (Hentz)	E	r
<i>Spermophora meridionalis</i> Hentz	E	r
Mimetidae		
<i>Mimetus notius</i> Chamberlin	F	v
<i>Mimetus puritanus</i> Chamberlin	E F	v
Uloboridae		
<i>Uloborus glomosus</i> (Walckenaer)	F	r
Nesticidae		
<i>Eidmannella pallida</i> (Emerton)	F	v
Theridiidae		
<i>Achaearanea porteri</i> (Banks)	E	v
<i>Achaearanea tepidariorum</i> (C.L. Koch)	E	r
<i>Argyrodes cancellatus</i> (Hentz)	F F/O	v
<i>Argyrodes trigonum</i> (Hentz)	F	v
<i>Crustulina altera</i> Gertsch and Archer	F	r
<i>Dipoena nigra</i> (Emerton)	F	v
<i>Enoplognatha marmorata</i> (Hentz)	F	r
<i>Enoplognatha tecta</i> (Keyserling)	U	v
<i>Euryopsis limbata</i> (Walckenaer)	F	v
<i>Latrodectus variolus</i> Walckenaer [=Misidentified as <i>Latrodectus curacaviensis</i> Muller]	F F/O	v
<i>Steatoda americana</i> (Emerton)	O F	v
<i>Steatoda borealis</i> (Hentz)	E F	v
<i>Steatoda triangulosa</i> (Walckenaer)	E	r
<i>Theridion albidum</i> Banks *	F	v
<i>Theridion differens</i> Emerton	F/O	v
<i>Theridion murarium</i> Emerton	F	v
<i>Theridion pennsylvanicum</i> Emerton *	U	v
<i>Thymoites unimaculatum</i> (Emerton) [= <i>Sphyrotinus imparatus</i> Bishop and Crosby]	F	r
Linyphiidae		
<i>Centromerus latidens</i> (Emerton)	F	r
<i>Ceraticelus micropalpis</i> (Emerton)	U	r

SPIDERS OF THE KANSAS ECOLOGICAL RESERVES (cont.)

Family/Species	Habitat	Source
Linyphiidae, cont.		
<i>Ceraticelus minutus</i> (Emerton)	F	r
<i>Ceratinella brunnea</i> Emerton	F	r
<i>Eperigone maculata</i> (Banks)	F	r
<i>Erigone autumnalis</i> Emerton	F	r
<i>Erigone praecursa</i> Chamberlin and Ivie	U	r
<i>Frontinella pyramitela</i> (Walckenaer)	F F/O	v
<i>Lepthyphantes appalachia</i> Chamberlin and Ivie	U	r
<i>Lepthyphantes sabulosa</i> (Keyserling)	F	r
<i>Meioneta micaria</i> (Emerton)	F	r
<i>Neriere radiata</i> (Walckenaer)	F F/O	r
[= <i>Linyphia marginata</i> C.L. Koch]		
<i>Origanates rostratus</i> (Emerton)	F	r
<i>Scylaceus pallidus</i> (Emerton)	F	r
<i>Sisicus penifusiferus</i> Bishop and Crosby	U	r
<i>Souessoula parva</i> (Banks)	U	r
<i>Tapinocyba</i> sp.	U	r
(?) <i>Spirembolus</i> sp.	U	r
<i>Walckenaeria indirecta</i> (O.P. Cambridge)	F	r
[= <i>Cornicularia indirecta</i> (Cambridge)]		
Tetragnathidae		
<i>Tetragnatha elongata</i> Walckenaer	W	r
<i>Tetragnatha laboriosa</i> Hentz	O	v
Argiopidae		
<i>Acacesia hamata</i> (Hentz)	F/O	v
<i>Acanthepeira cherokee</i> Levi *	F	v
<i>Acanthepeira stellata</i> (Walckenaer)	O	v
<i>Araneus bicentenarius</i> McCook	F	v
[=misidentified as <i>Araneus saevus</i> (L. Koch)		
= <i>Araneus solitarius</i> (Emerton)]		
<i>Araneus cingulatus</i> (Walckenaer)*	F	v
<i>Araneus guttulatus</i> (Walckenaer)*	F	v
<i>Araneus juniperi</i> (Emerton)	O	r
[= <i>Conarana juniperi</i> (Emerton)]		
<i>Araneus marmoreus</i> Clerck	F F/O	v
<i>Araneus pratensis</i> (Emerton)	O	v
[= <i>Singa pratensis</i> Emerton]		
<i>Araneus thaddeus</i> (Hentz)+	F	v
<i>Araniella displicata</i> (Hentz)	O F/O	r
<i>Argiope aurantia</i> Lucas	O	v
<i>Argiope trifasciata</i> (Forsk.)	O	v
<i>Colphepeira catawba</i> (Banks)	F	r
(?) <i>Cyclosa caroli</i> (Hentz)	F	r
<i>Cyclosa turbinata</i> (Walckenaer)	F/O E	v
<i>Eustala anastera</i> (Walckenaer)	F F/O	v
<i>Eustala cepina</i> (Walckenaer)	F/O	r
<i>Gea heptagon</i> (Hentz)	O	v
<i>Glenognatha foxi</i> (McCook)	O	r
[= <i>Mimoenatha foxi</i> (McCook)]		

SPIDERS OF THE KANSAS ECOLOGICAL RESERVES (cont.)

Family/Species	Habitat	Source
Argiopidae, cont.		
<i>Hyposinga rubens</i> (Hentz)	F	v
[= <i>Singa truncata</i> Banks]		
<i>Larinia directa</i> (Hentz) +	O	v
<i>Leucauge venusta</i> (Walckenaer)	F	v
<i>Mangora gibberosa</i> (Hentz)	F/O	v
<i>Mangora maculata</i> (Keyserling)	F	v
[= <i>Mangora ornata</i> (Walckenaer)]		
<i>Mangora placida</i> (Hentz)	F	r
<i>Metepeira labyrinthea</i> (Hentz)	F F/O	v
<i>Micrathena gracilis</i> (Walckenaer)	F	v
<i>Micrathena mirata</i> (Hentz)	F	v
<i>Micrathena sagittata</i> (Walckenaer)	F	v
<i>Neoscona arabesca</i> (Walckenaer)	O F/O	v
<i>Neoscona crucifera</i> (Lucas)	E F F/O	r
[= <i>Neoscona hentzii</i> (Keyserling)		
= <i>Neoscona benjamina</i> (Walckenaer)]		
<i>Neoscona pratensis</i> (Hentz)	O	v
<i>Nuctenea cornuta</i> (Clerck) +	F	v
<i>Verrucosa arenata</i> (Walckenaer)	F	v
<i>Wixia ectypa</i> (Walckenaer) *	F	v
Lycosidae		
<i>Allocosa funerea</i> (Hentz)	O	r
[= <i>Arctosa funerea</i> (Hentz)]		
<i>Allocosa noctuabunda</i> (Montgomery)	U	r
[= <i>Arctosa noctuabunda</i> Montgomery]		
<i>Allocosa sublata</i> (Montgomery)	F	v
[= <i>Arctosa sublata</i> Montgomery]		
<i>Geolycosa missouriensis</i> (Banks)	O	r
<i>Gladicosa gulosa</i> (Walckenaer)	F	v
[= <i>Lycosa gulosa</i> Walckenaer]		
<i>Hogna aspersa</i> (Hentz)	F F/O	v
[= <i>Lycosa aspersa</i> Hentz]		
<i>Hogna carolinensis</i> (Walckenaer)	O	r
[= <i>Lycosa carolinensis</i> (Walckenaer)]		
<i>Hogna helluo</i> (Walckenaer)	F W	r
[= <i>Lycosa helluo</i> Walckenaer]		
<i>Hogna punctulata</i> (Hentz)	O	v
[= <i>Lycosa punctulata</i> (Hentz)]		
<i>Hogna rabida</i> (Walckenaer)	O	v
[= <i>Lycosa rabida</i> Walckenaer]		
<i>Pardosa milvina</i> (Hentz)	W	r
<i>Pardosa lapidicina</i> Emerton	W	r
<i>Pardosa saxatilis</i> (Hentz)	O F	r
<i>Pirata alachuus</i> Gertsch and Wallace *	F	v
<i>Pirata aspirans</i> Chamberlin	W F	r
[= <i>Pirata arenicola</i> Emerton]		
<i>Pirata insularis</i> Emerton	F	r

SPIDERS OF THE KANSAS ECOLOGICAL RESERVES (cont.)

Familv/Species	Habitat	Source
Lycosidae, cont.		
<i>Pirata sedentarius</i> Montgomery [= <i>Pirata maculatus</i> Emerton]	F	v
<i>Varacosa avara</i> (Keyserling) [= <i>Lycosa avara</i> (Keyserling)]	F/O	v
<i>Schizocosa avida</i> (Walckenaer)	O	v
<i>Schizocosa bilineata</i> (Emerton)	O	v
<i>Schizocosa ocreata</i> (Hentz) [= <i>Schizocosa crassipes</i> (Walckenaer)]	F F/O	v
<i>Schizocosa saltatrix</i> (Hentz)	F	v
Pisauridae		
<i>Dolomedes albineus</i> Hentz *	E F	v
<i>Dolomedes tenebrosus</i> Hentz	E F W	v
<i>Dolomedes triton</i> (Walckenaer) [= <i>Dolomedes sexpunctatus</i> Hentz]	W	r
<i>Dolomedes vittatus</i> Walckenaer [= <i>Dolomedes urinator</i> Hentz]	F	r
<i>Pisaurina dubia</i> (Hentz)+	F F/O	v
<i>Pisaurina mira</i> (Walckenaer) [= <i>Dapanus mirus</i> (Walckenaer)]	F F/O	v
<i>Pisaurina undulata</i> (Keyserling) [= <i>Pelopatis undulata</i> (Keyserling)]	O	r
Agelenidae		
<i>Agelenopsis naevia</i> (Walckenaer)	E F O	v
<i>Agelenopsis oklahoma</i> (Gertsch)	E F/O	r
<i>Agelenopsis pennsylvanica</i> (C.L. Koch)	E O F	v
<i>Cicurina arcuata</i> Keyserling	F	v
<i>Cicurina ludoviciana</i> Simon	F/O	r
<i>Coras lamellosus</i> (Keyserling)	F	v
<i>Tegenaria domestica</i> (Clerck)	E	v
Hahniidae		
<i>Neoantistea agilis</i> (Keyserling)+	O	v
Dictynidae		
<i>Dictyna bellans</i> Chamberlin+	O	v
<i>Dictyna foliacea</i> (Hentz)	U	r
<i>Dictyna formidolosa</i> Gertsch and Ivie	U	r
<i>Dictyna sublata</i> (Hentz)	F	r
<i>Dictyna volucripes</i> Keyserling	O	r
Amaurobiidae		
<i>Titanoeca americana</i> Emerton	F F/O	v
Oxyopidae		
<i>Oxyopes salticus</i> Hentz	O	v
<i>Oxyopes scalaris</i> Hentz	F/O	v
Anyphaenidae		
<i>Anyphaena fraterna</i> (Banks)	U	r
<i>Anyphaena pectorosa</i> L. Koch *	F	v
<i>Aysha gracilis</i> (Hentz)	E F	v
<i>Wulfilia saltabunda</i> (Hentz)	F	v

SPIDERS OF THE KANSAS ECOLOGICAL RESERVES (cont.)

Family/Species	Habitat	Source
Clubionidae		
<i>Castianeira cingulata</i> (C.L. Koch)	F	v
<i>Castianeira descripta</i> (Hentz)	O F/O	v
<i>Castianeira longipalpus</i> (Hentz)	F	v
<i>Castianeira trilineata</i> (Hentz)	F	r
<i>Castianeira variata</i> Gertsch	E F F/O	v
<i>Cheiracanthium inclusum</i> (Hentz)	E F/O	r
<i>Clubiona kastoni</i> Gertsch	U	r
<i>Clubiona quebecana</i> Dondale and Redner *	F	v
<i>Clubionoides excepta</i> (C.L.Koch)	E F	v
<i>Phrurotimpus alarius</i> (Hentz)	U	r
<i>Phrurotimpus borealis</i> (Emerton)	F	r
<i>Scotinella redempta</i> (Gertsch)	U	r
<i>Trachelas deceptus</i> (Banks)	O	v
[= <i>Meriola decepta</i> Banks]		
<i>Trachelas tranquillus</i> (Hentz)	E O	r
Gnaphosidae		
<i>Callilepis imbecilla</i> (Keyserling)	F/O	r
<i>Drassodes auriculoides</i> Barrows	F/O F O	v
<i>Drassyllus aprilius</i> (Banks)	F	v
<i>Drassyllus gynosaphes</i> Chamberlin	F	v
<i>Drassyllus lepidus</i> (Banks) +	O	v
<i>Drassyllus nannellus</i> Chamberlin and Gertsch	F	v
<i>Drassyllus novus</i> (Banks) +	F	v
<i>Gnaphosa fontinalis</i> Keyserling	F/O	v
<i>Gnaphosa sericata</i> (L. Koch) +	O	v
<i>Haplodrassus bicornis</i> (Emerton)	O F	v
<i>Herpyllus ecclesiasticus</i> Hentz	F	v
[= <i>Herpyllus vasifer</i> (Walckenaer)]		
<i>Micaria longipes</i> Emerton	F	v
<i>Sergiolus capulatus</i> (Walckenaer)	F/O	v
<i>Sergiolus cyaneiventris</i> Simon	F/O	v
<i>Sosticus insularis</i> (Banks)	U	v
<i>Sosticus loricatus</i> (L. Koch)	U	v
<i>Synaphosus paludis</i> (Chamberlin and Gertsch) +	O	v
<i>Zelotes duplex</i> Chamberlin	F F/O	v
<i>Zelotes hentzi</i> Barrows	F F/O	v
<i>Zelotes laccus</i> (Barrows) *	O	v
Philodromidae		
<i>Philodromus keyserlingi</i> Marx +	E	v
<i>Philodromus marxi</i> Keyserling	F/O	v
(?) <i>Philodromus pernix</i> Blackwall	F	r
<i>Philodromus pratariae</i> (Scheffer)	O	v
<i>Philodromus vulgaris</i> (Hentz)+	F	v
<i>Thanatus formicinus</i> (Clerck)	O	r
<i>Thanatus rubicellus</i> Mello-Leitao *	O E	v
<i>Tibellus duttoni</i> (Hentz) *	O	v
<i>Tibellus oblongus</i> (Walckenaer)	O	r

SPIDERS OF THE KANSAS ECOLOGICAL RESERVES (cont.)

Family/Species	Habitat	Source
Thomisidae		
<i>Coriarachne versicolor</i> Keyserling	F	r
[= <i>Coriarachne lenta</i> (Walckenaer)]		
<i>Misumena vatia</i> (Clerck)	O	r
<i>Misumenoides formosipes</i> (Walckenaer)	O	v
<i>Misumenops asperatus</i> (Hentz)	U	r
<i>Misumenops delphinus</i> (Walckenaer)	U	r
<i>Misumenops oblongus</i> (Keyserling)	EO	v
<i>Ozyptila monroensis</i> Keyserling	O	v
<i>Synema parvulum</i> (Hentz)	F	v
[= (?) <i>Synema varians</i> (Walckenaer)]		
<i>Tmarus angulatus</i> (Walckenaer)	F	v
<i>Xysticus auctificus</i> Keyserling	O	v
[= <i>X. lemniscatus</i> Walckenaer]		
<i>Xysticus bicuspis</i> Keyserling	U	r
<i>Xysticus elegans</i> Keyserling	OF	v
<i>Xysticus ferox</i> (Hentz)	FF/O	v
[= <i>Xysticus transversatus</i> (Walckenaer)]		
<i>Xysticus funestus</i> Keyserling	EF/O	r
[= <i>Xysticus tumefactus</i> Walckenaer]		
<i>Xysticus pallax</i> O. Pickard-Cambridge	O	r
<i>Xysticus texanus</i> Banks	O	v
<i>Xysticus triguttatus</i> Keyserling	U	r
Salticidae		
<i>Eris aurantia</i> (Lucas)	FF/O	v
[= <i>Paraphidippus aurantius</i> (Lucas)]		
<i>Eris militaris</i> (Hentz)	FF/O	v
[= <i>Paraphidippus marginatus</i> Walckenaer]		
(?) <i>Eris pinea</i> (Kaston)	U	r
[= <i>Paraphidippus pineus</i> Kaston]		
<i>Evarcha hoyi</i> (Peckhams)	EF/O	r
<i>Metaphidippus barrowsi</i> Kaston+	O	v
(?) <i>Metaphidippus castaneus</i> (Hentz)	U	r
<i>Metaphidippus exiguus</i> (Banks)*	F/O	v
<i>Metaphidippus galathea</i> (Walckenaer)	O	v
<i>Metaphidippus protervus</i> (Walckenaer)	F/O F	v
<i>Habrocestum pulex</i> (Hentz)	FF/O	r
<i>Habronattus coecatus</i> (Hentz)	O	v
[= <i>Habronattus coronatus</i> (Hentz)]		
<i>Habronattus orbis</i> Griswold	U	r
<i>Habronattus viridipes</i> (Hentz)	U	r
<i>Hentzia mitrata</i> (Hentz)	U	r
<i>Hentzia palmarum</i> (Hentz)	EF/O O	v
[= <i>Hentzia ambigua</i> (Walckenaer)]		
<i>Maevia inclemens</i> (Walckenaer)	EF	v
<i>Marpissa formosa</i> (Banks)	O	v
[=misidentified as <i>Marpissa bina</i> (Hentz)]		
<i>Marnissa lineata</i> (C.L. Koch)*	O	v

SPIDERS OF THE KANSAS ECOLOGICAL RESERVES (cont.)

Family/Species	Habitat	Source
Salticidae, cont.		
<i>Marpissa pikei</i> (Peckhams)	O	v
<i>Peckhamia americana</i> (Peckhams)	F	f
<i>Phidippus apacheanus</i> Chamberlin and Gertsch	O	r
<i>Phidippus audax</i> (Hentz)	E F F/O	v
[= <i>P. variegatus</i>] (Lucas)		
<i>Phidippus clarus</i> Keyserling	O	v
[= <i>P. rimator</i> Walckenaer]		
<i>Phidippus insignarius</i> C.L. Koch	U	r
[= (?) <i>Phidippus fraudulentus</i> (Walckenaer)]		
<i>Phidippus pius</i> Scheffer	O	v
<i>Phidippus princeps</i> (Peckhams)	F/O	r
<i>Phidippus putnami</i> (Peckhams)	E F/O F O	v
<i>Phidippus whitmanii</i> Peckhams	O F	v
<i>Platycryptus undatus</i> (DeGeer)	E F	v
[= <i>Metacryba undata</i> (DeGeer)]		
<i>Sarinda hentzi</i> (Banks)	F/O	r
[= <i>Myrmarachne hentzi</i> (Banks)]		
<i>Sassacus papenhoei</i> Peckhams	O	v
<i>Sitticus cursor</i> Barrows *	O	v
<i>Synagles (Gerschia) noxiosus</i> (Hentz)	O	v
[= <i>Gertshia scorpionia</i> (Hentz)]		
<i>Talavera minuta</i> (Banks)*	O	v
<i>Thiodina puerpera</i> (Hentz)	F/O	v
<i>Thiodina sylvana</i> (Hentz)	F	v
[= <i>Thiodina iniquies</i> (Walckenaer)]		
<i>Tutelina elegans</i> (Hentz)	U	r
<i>Tutelina hartii</i> (Emerton)	F	r
[= <i>Icius hartii</i> Emerton]		
<i>Zygoballus rufipes</i> Peckhams	F	v
[= <i>Zygeoballus bettini</i> Peckhams]		