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# Continuation of Spider Research in Arkansas: Ouachita Mountain Area

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## **General Notes**

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#### A CONTINUATION OF SPIDER RESEARCH IN ARKANSAS: OUACHITA MOUNTAIN AREA

For the past ten years, research has been persued concerning the spider fauna of Arkansas (Dorris, 1968; 1969; 1970; 1971; 1972). At the present time, 206 species of spiders have been reported for Arkansas. This study revealed 99 species, 27 of which were new for the state. This is the first of a series of studies which will include a total of 6 areas: Ozark Mountains, Arkansas River Valley, Ouachita Mountains, Gulf Coastal Plain, Delta, and Crowley's Ridge. Prior to this study spiders had been collected at random throughout the state with greater concentration within the vicinity of Clark County. The purpose of this study is to determine the spider fauna of the Ouachita Mountain area of Arkansas. Eventually, when all areas are covered, the spider fauna of the entire state of Arkansas can be ascertained in relation to distribution.

Several methods of collecting were used in the Ouachita Mountain Area. They were (a) a heavy duty sweep net to sweep grasses and heavy brush, (b) a wire mesh sieve to sift spiders from leaf litter, (c) hand picking from trees, bushes, ground and old dwellings or other related places, and (d) mud-dauber nest collections to reveal paralyzed spiders captured by mud-daubers. Collections were made primarily between the hours of 9 a.m. and 3 p.m. since this is the time indicated by most authorities to be the period of greatest activity.

The spiders collected were placed in screw cap bottles with 70% ethyl alcohol. A field book was kept to identify bottle numbers and check stations and to record other pertinent data.

For complete coverage of the Ouachita Mountain Region, check stations were set up in the eastern, central and western sectors of the area. These check points were covered from July through December with appropriate collecting methods being used. Each main station was checked three or more times during this period to insure complete coverage, and sub-stations were checked one to three times (Figure 1).

Names used are those employed by Comstock (1948), Kaston and Kaston (1953), and Gertsch (1949). The arrangement followed is that of Kaston and Kaston (1953).

A total of 22 families, 69 genera, and 99 species were collected in the Ouachita Mountain Area with 27 new species being added to the state record (Table 1).

#### Table I. Data Concerning Spider Collections Made in Ouachita Mountain Area.

Taxon	Date	**Station Code	***Collecting Code	Habitat	Taxon	Date	**Station Code	***Collecting Code	Habitat
Theraphosidas (Tarantulas)					Kysticus triguttatus Keyserling	7/17	C-2	SN	Field
Pugesiella hentzi Walchenaer	10/1	C=5	P	Roadside	*Xysticus gulosus Reparling	10/2 8/28	C-2 C-4	5	Forest
and far an end of the second					Kysticus junestus Reverling Synema patyula (Henta)	7/17	0-4	55	Field
Scytodidae (Spitting) Scytodes thomacica (Latreilly)	8/9	E-1		Building	ogness partones (neuro)	6/28	0-4	5N	Forest
		18781	100	( BALLAND AND A		10/2	C-2	38	Forest
Loxoscelidas (Recluses)					Philodromus pernix Blackwall	8/28	C+3	*	River
Leansceles Accluse Gertah & Mulaik	0/9	8-1	P	Building	Philadramus imbecillus Reyserling	10/2	0-2	2	Forest
	10/2	C-2		Building	Thanatus (ctmicinus (Clerch) Instus angulatus (Valchenaer)	7/25	E-1 W-1	58	Roads 1 de
Lyssomanidas (Green jumper)			58		*Tibellus dulloni (Rentz)	7/17	0-2	58	Forest
Lyssomanes visidis lientz	7/17	0-2	- 58	Field	Forester moderne (minter)		6. A.		
Amaurobiidae (Neucribellate)					Salticidae (Jumping)				
"Titanseca americana Emerton	8/28	C-4		Forest	Phidippus which includes	8/9	E-1	<b>P</b>	Building
		14-1	100		and the second se	8/28	C-4	8	Forest
Uloboridas (Feather-legged)					Phidippus clatus Esyserling Pataphidippus matginglus (Malchenger)	7/25	E-1 C-2	SN SN	Roadside Field
Hyptiotes caustus (Hents)	11/25	8-4		Forest	Netaphidippus galathea (Malchenaer)	2/17	6-1	58	Field
Dictynidae (Cribellate)					manipacations garacter (antennart)	2/12	C-1	58	Roadaide
Dictyniae (Cribellate) Dictyna volucripta Keyserling	10/2	C-2		Forest	Metaphidippus protervus (Walchenser)	7/17	6-1	SN	Roaduide
verigen vocacityes keyseriing	10/4	6-2		FUTURE		11/25	¥-5		Forest
Gnaphosidae (Boss)					"Habrocestum puter (Hents)	9/5	W+1	5	Forest
Cesonia bilineata (Henta)	9/5	¥-1	5	Forest	Zygoballis bettini Peckham	7/17	C-2	SN	Field
Sengiolus familus Chamberlin	7/17	C-1	536	Field		7/25	E-1	SN SN	Roadside
Ielotes Laccus (Berrove)	7/17	6-1	SH	Field		7/17	C-4 C-1	38	Forest
and the second second					Zugoballis segundatus (Hentz)	7/17	6-1		Field
Clubionidae (Club footed) Cfubions abbozii Koch	8/28	C-6	SN	Forest	Caller and a second second second	8/9	8-1	SN	Field
Chinacanthium inclusum (lients)	9/4	W-4	SN	Roadside	Agassa counca Hents	7/17	0-1	538	Field
Clubiona obead Bents	7/25	8-1	SW	Roadside	"Hyclia pikei Peckham	9/4	8-4	535	Roadulde
"Phautolimnis bonealis (Emerton)	9/5	¥-1	8	Forest	Manpissa undata (DeGeer)	7/17	6-2	535	Field
*Phrunolithus formics Banks	9/25	W-1	8	Forest		9/5	¥-1	5 -	Forest
					Human and an Annala I make	9/5	W-2 C-2	58	Field
Ctentdee (Wandering)	9/25	100-01		12021302.1	Nyamanachne hentzi Banka *Philegta (dacista (Mahn)	10/2	0-4		Forest Forest
*Ctenus hibennalis (Hentz)	9/25	¥-1	1	Forest	Lucella barcerer (mun)	87.40		5.0	rorest
					Haptonalius cotonalus (Hents)	7/17	C-2	SN	Field
bomisidae (Crah)	20110	125	100	-		8/28	C-3	P	River
Nisumenoides formosipes (Walchemany)	7/17	C-2 N-4	SN SN	Field	Manager resource and the second second second	10/2	C-2	8	Forest
Misumenops aspenatus (Hents)	9/4	W-2	58	Roadside Field	"Habronattus borcatis (Benks)	7/17	C-1	58	Bondside
Accumenope aspenatos (nents)	7/17	C-1	55	Field	Habranattus decorus (Blackwall)	7/17	0-2 E-1	- 58	Field Bondside
	7/17	0-2	SN	Field		11.93	878	39	nondside
	9/4	9-4	53	Roadside	Applenidae (Grass)				
Hisumenops celer (Bents)	7/17	C-1	SN	Field	Agelenopsis magvid (Walchemaer)	9/25	W-1		Forest
	8/28	C+4	58	Forest	Conas medicinalis (Hentz)	8/28	C-4	3	Forest
Misumenops oblongus Keyeerling	\$/35	C-4	SN	Forest	a second contraction of the second	9/25	W-1	P	Fornat.
*Contanachne versicolot Keynerling	8/9	8-1	r	Suilding	*Cecuricus nobusts sitmon	9/25	9-1	8	Forest
*Xysticus bicuspis Keyserling	7/17	C-2	SN	Field		11/25	¥-3	,	Forest

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Tasan	Date	Code	***Collecting Code	Habitat	Taxon	Date	Code	***Collecting Code	Habitat
annlidae (Sheet web)		2102			Eustala anastena (Valckenser) Acanthepeina stellata (Valckenser)	7/16	C-1 C-1	MD SN	Bridge Field
*Neoantistes agilis (Keywerling)	8/28	0-6 W-1	s.	Forest Forest	Construction of the second sec	7/17	C-1	58	Reads 1d
	\$/25	¥-1	1	Forest		7/17	C-2 E-1	5N 5N	Field Boadsid
	10/2	0-2	5	Forest		9/4	W-4	SN	Roadsid
isauridae (Nursery web)						9/25	W-1	1	Forest
'issuridae (Nursery web) *Pelepatis undulata (Keyserling)	8/28	C-4	IN .	Forest		10/2	C-2 C-2	SN	Forest Forest
*Dolomedes utinator Hents *Dolomedes scriptus Hents	7/16 8/28	C-1 C-3		Nridge River	Acacesia hamata (Bents)	8/9	E-1	*	Buildin
	9/26	8-3	ŕ	Road		8/28	C-4 W-1	F	Forest Bridge
Pissusing mits (Walchemaer)	8/28	C-4 C-2	SN SN	Forest.	Ananiella displicata Chumberlin & Ivia	9/5	C-3	ND	Bridge
Tenus personania (Bishop)	10/2	C-2 C-4	55	Forest Forest	Ataniella displicata Chamberlin & Ivie *Cyclosa bifutca (Hentz) Cyclosa conco (Palism) *Notepeira Labytinthea (Hentz)	9/26	8-3		Forest
	9/4	8-4	5N	Roadside	Cyclosa concca (Pallas)	7/16	C-1 C-2	MD	Bridge Forest
	974	¥+4		Forest.	meterects tabystating (minta)	7/25	E-1	531	Roadsid
ycusidas (Volf)						8/9	E-1 C-3	P	Buildin, Bridge
Lycosa hellur Walchenser	8/28	6-3	- P	River		8/28	C-4	SN	Forest
Lycosa sabida Walchenser Lycosa gulosa Wulchenser	8/28	C+4 945	SN P	Forest Forest		9/25	¥-1	P	Forest
	11/25	¥-5	i k	Foresc	Neosconella pegnia (Walchenser)	8/28	C-3	ND	Dridge
Pandosa mélvina (Henza)	7/17	C-1	SN	Field	Tetragnathidae (Long layed orb weavers)				
Pitata intulatis Emerten	8/28	C-4		Forest	Tetragnathidae (Lung jawed orb veavers) Tetragnatha elongata Walchenaer Tetragnatha sentca Seeley	8/28	C-3		River
ayopidae (Lyna)					Techagnatha seneca Seeley	8/28	0-3 0-1	F	River
Oxyopes salticus Hentz	2/17	C-1	53	Field	Tetragnatha Laboriosa Hentz	7/17	C-1	SN	Roadeide
	7/17 7/17	C-1 C-2	5N 5N	Roadside Field		#/9	E-1	58	Field
	7/25	8-1	55	Roadside	Leucauge venus (Malckenaer)	8/28	C-4	58	Porest.
	8/28	0-4	SN	Forest	Linvehildes (Sheet-ush weavers)				
heridildae (Comb-footed)					Linyphiidae (Sheet-web weavers) Linyphia mitginata (Eoch)	7/25	E-1	P	Forest
Theredion tepidarionum (Koch)	8/9	X-1	*	Building		8/28	C-4 C-4	58	Forest
	8/28	C-3	1	Building	Linyphia coccines (Hents)	7/17	C-1	58	Field
	9/28	U-2		Building	allow which is a series of the strength of the	0/9	E-1	SN	Field
	3.5	100		Partatos	*Lingphia Maculata Emerton	8/28	C-4 C-4	SN P	Forest Forest
Theridion Grondeum Hentz	8/28	0-4	SN	Forest	Frontimella pyramitela (Walchemanz)	8/28	C-4	58	Forest
Theridion frondeum Hents Theridion differens Emerton	8/38	0-4	58	Fureat	Contraction P2 monored (Alabertania)	9/25	¥-1	*	Forest
Conopiatha Erigona (Hentz) *Diporna buccatus Keynerling	8/28	C-4 E-1	SN	Forest Building		10/3	0-2	P	Forest
Theridula opulanta (Walchemant)	8/28	0-4	P SN	Forest	Manushana (Banef)				
					Micryphantidae (Dearf) *Censticetus similis (Banks	7/25	E-1	SN	Roadside
Angiope dutantia Lucas	7/25	R-1	58	Roadside					
Augeope autaneed Lucas	8/9	R-1	F	Building	<ul> <li>Species not published prior to the</li> </ul>	spreased	collection	ni.	
	8/28	C+4		Forest					
	9/25 10/2	9-1 C-2		Forest Forest		leGray Da ihady Lak			
Michathena sagittata (Walchenaer)	7/17	C-2	÷ .	Forest		all Peak	Lookout To	ower (North of	Shady Lak
	8/28	6-4	<b>SN</b>	Forest	C-3 Horman W-3 L	ittle Mi	sauuri Rive	er (4 miles Hou	th Albert
Angiope trijasciata (Formkal)	10/2 7/17	C-2 C-1	P	Forest Roudside	C-4 Crystal Springs W-4 C	Fike)	ek Wildern		
sugare enclarcours (ninear)	7/17	C-2	58	Field	Camp Ground	amela era	es erreette	Cas Ales	
	7/25	E-1	SN	Roadside					
Hichathena ghacilis (Halchenane)	8/9 7/17	E-1 C+2	55	Field Forest	*** S - Selve SH - Sweep net				
Accordina Baccees (astermant)	1/25	E-1		Forest	P - Wandpicking				
	8/28	C+4		Forest	HD - Hud-dauber nests				
	9/25 10/2	¥-1 C-2		Forest					
	10/2	C-2		Building					stana:
Nichathena mithata (Walchenaer)	7/17	C-2		Forest	Figure 1. Map of Ouachita Mount	ain Ar	ca shown	ng check sta	tions.
	7/25 8/28	8-1 C-4	P SM	Forest					
	8/28	0-4		Forest				1	
	8/28 9/25	C-4 W-1	P	Forest			/		
	10/2 10/2	C-2 C-2	P	Forest Forest			/		/
Vertucoid stensis (Walchenser)	7/25	E-1	P P	Forest		C-2			/
And the second se	8/28	C-4	P	Forest				7.3	/
	9/25	W-1 C-2	1	Forest				1-1	/
"Araneus frondosa (Linnaeus)	9/25	V-1		Forest				/	
Ananeus manmoneus (Clerch)	7/16	6-1	MD	Bridge				/	
	9/5	¥-1	900	Bridge				/	
	9/25 10/2	W-1 C-2	;	Forest Forest	w-s			/	
	11/25	8-5		Forest	w-3 w-3 c-3		/		
Neoscona dominitionum (Hentz)	9/5	¥-1	20	Bridge			/		
Neoscona atabesca (Walchemmer)	10/2 7/16	C-2 C-1	P HD	Building Bridge	w <sup>e</sup> , w <sup>e</sup> i o	C-5	/		
HENRIPHE HARDERS (BREEKEDDER)	7/17	0-2	SN	Field		•/			
	8/9	E-1	SN P	Building		/			
	8/28 9/5	0-4 W-1	SN HD	Field Bridge		-			-
	9/25	W-1	HD P	Forest	-				4
	10/2	C-2		Forest	· churk with				1
Manager and Store and Store		100		CHARGE AND	0 - Check station				/
Mangora gibberosa (Hentz)	7/17 9/5	C-2 W-2	5N 5N	Field Field	- Sub-station				1
	8/28	C+4	5N	Forest				5	1
Hangota placida (Hents)	8/28	0-4	58	Forest	E-I ferndale			1_	)
Hangona placida (Henzz) Hangona onnata (Walckenaex)	40.44			Forest	C-1 Paint Cedar	W-I Sh	A 4 1 4 1 4 1		_
Mangona placida (Henza) Mangona ohniča (Valckenary)	8/28	6-4				COCCERT/19-11	noy roxe		
Hangona placida (Henta) Hangona ohnika (Valckenaex)	8/28 10/2	6-4	,	Forest			Il Peak To		
Mangoha přacída (Henza) Mangoha otnatřa (Malckenaer)	8/28		÷		C-2 Hollis	w-2 ta	II Peak T		
Mangona placida (Hents) Mangona ofmita (Walckenser)	8/28		÷		C-2 Hollis C-3 Norman	w-2 ta w-3 Li	II Peak To the Misso		
Nangoha placida (Henta) Nangoha ohnuta (Nalekenser)	8/28		;		C-2 Hollis C-3 Norman C-4 Cirstal Springs	w-2 ta w-3 Li w-4 w	II Peak To the Misso	ovri River	

By using the materials and methods described above and by setting up major and minor check stations, as was done in this study, the spider fauna of the entire state can be identified in a systematic manner. Since 99 species were collected in this one geographical area, authors believe that the Arkansas spider fauna is abundant. Different habitats should reveal many different species.

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#### NATURAL AREAS PRESERVATION IN ARKANSAS

Scientists have a special interest in the preservation of natural areas. Everyone who teaches field courses in the natural sciences has been affected as favorite study sites were cut over, plowed under, or rearranged by bulldozers. Each year one travels farther and searches harder for good demonstration sites, and it becomes ever more difficult to find certain rare or threatened species.

This paper will attempt to share some thoughts on how the resources of the Arkansas Natural Heritage Commission should be focused to maximize achievement in preserving our remaining natural areas. In turn, because the scientific community is its most dependable source of informational, conceptional, and moral support, the Natural Heritage Commission solicits input from that quarter as it makes long-range plans for the preservation program in Arkansas.

In 1973 the Arkansas General Assembly laid the cornerstone for natural area preservation in the State. The legislative session of 1975 created the new Department of Natural and Cultural Heritage and approved funds for the Natural Heritage Commission as one of the five agencies within that Department. Since the Commission began operating with funds and a staff in July of 1975, almost incredible progress has been made. The Singer Corporation's donation of Singer Forest in Poinsett County in June of 1973 provided an encouraging start. Since that time legal protection has been extended to twelve additional natural areas in all parts of Arkansas. At present 2.266 acres are protected in the System of Natural Areas, and negotiations are underway to protect twelve additional sites which include approximately 3,000 acres.

The first purchase, Roth Prairie, was completed April 5, 1976. A 40-acre tall-grass prairie located south of Stuttgart. Roth Prairie is now managed by Arkansas State University and is used for demonstration by the Arkansas County Agricultural Museum.

Smoke Hole, 437 acres of bottomland hardwood on Bayou Two Prairie, is on the Lonoke County/Prairie County line thirteen miles southeast of Carlisle. The swamp supports an almost exclusive stand of tupelo bordered by a community on the northwest where specimens from nine species of oak have been collected. Negotiations have been initiated with the University of Arkansas at Little Rock for accepting custody of this area.

Sweden Creek Falls is a 75-foot waterfall descending into a shaded cove described by Maxine Clark as a typical relict of Appalachian flora. The falls and a half-mile stretch of Sweden Creek, purchased by the Commission in January of 1977, are located in Madison County south of Kingston.

Dardanelle Rock, overlooking the Arkansas River in Yell County, is an outcrop of sandstone and shale. This 10-acre site was purchased by the Commission in August of 1976.

Devil's Knob-Devil's Backbone is a 520-acre site located in Izard County. Probably the most undisturbed site in the System of Natural Areas. Devil's Knob has been recommended by Dr. E. E. Dale (University of Arkansas at Fayetteville) for recognition as a national natural landmark. Good upland hardwood, an Ahse juniper glade, and limestone-dolomite outcrops are characteristic features of this remote site.

A stretch of Cove Creek in Faulkner County with 222 acres of land surrounding the creek was purchased by the Commission in December of 1976. Upland pine-hardwood, streambottom hardwood, a cedar glade, and the Carolina spring beauty, listed as endangered by Dr. Gary Tucker in the Arkansas Natural Area Plan, are all found on this site.

Chalk Bluff, 55 acres overlooking the St. Francis River in Clay County, was described by Dr. George Thomas Clark in the Natural Area Plan and contains upland hardwood typical of Crowley's Ridge. This site is at the northernmost point of Crowley's Ridge in Arkansas.

The most recent purchase was 38.5 acres surrounding the Louisiana Purchase Historical Monument Marker in Phillips, Lee and Monroe Counties. The center of the site is at the intersection of the 5th Principal Meridian and the Baseline, the principal coordinates of the land survey system of Arkanasa and other states included in the Louisiana Purchase. The high-ground swamp maintains an unusually constant level of shallow water and shows vegetation patterns which distinctly reflect slight variations in elevation and drainage. The Louisiana Purchase Swamp was acquired in February of 1977. Title was transferred directly to Arkanasa State Parks, and a conservation easement from Parks to the Commission provides legal protection and establishes management policy.

In December of 1976, conservation easements were acquired on two sites in Prairie County, almost 29 acres of Konecny Praire and the 18acre Konecny Grove. The prairie is a part of the largest block of Grand Prairie grassland left in the state; and the grove is a prairie slash of persimmon, green ash, honey locust, and hawthorn with a four-acre marsh dominated by cattail and bordered by black willow. The grove supports Arkansas' only known breeding population of willow flycatchers.

Two hundred acres in Logoly State Park are expected to be dedicated into the System of Natural Areas through a conservation easement. The best features of this site in Columbia County are the beech-dominated ravines and the aquatic communities supported by numerous mineral springs.

Taylor Woods, 138 acres near Pine Bluff, will be added to the System through a conservation easement donated to the Commission by Mr. and Mrs. Tates Phillips.

In addition to the protected System, the Commission also maintains a Registry of Arkansas Natural Areas. The Registry recognizes sites that have been evaluated by the staff and have outstanding scientific, educational, and recreational significance. The Registry now lists and describes forty-one sites.

Various government agencies own substantial acreage which meets the standards that have been established for listing in the Registry. These agencies are encouraged to establish preserved areas, and thirteen of the sites on the Registry reflect this Commission activity. Magazine

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