Proposal No. 66 Project No. FY87-1

## HERPTILE INVENTORY OF FOUR CENTRAL

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#### ILLINOIS PRAIRIE PRESERVES

[Final Report]

Presented to:

Illinois Department of Conservation Division of Natural Heritage 524 South Second Street Springfield, IL 62706

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STUDY AREAS: Sand Prairie-Scrub Oak Nature Preserve (Mason Co.), Matanzas Prairie Nature Preserve (Mason Co.), Shick Shack Sand Pond Nature Preserve (Cass Co.), and Meredosia Hill Prairie Nature Preserve (Morgan Co.)

STUDY DATES: March---August 1987

STUDY OBJECTIVES: To inventory the amphibian and reptile populations on the study areas, provide a species list of specimens collected and/or observed and to estimate relative abundance of the various herptile species

Study Methods:

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In this study we used a standardized sampling system for terrestrial reptiles and amphibians developed by the Fish and Wildlife Service (Campbell and Christman, 1982). Keystone of this system is an array of pitfall and funnel traps used in conjunction with drift fences to divert moving animals into the traps. The drift fences of the array system are 7.6 m length of 46 cm high flashing (or valley tin) arranged in a plus-shaped pattern with a central separation of 15 m. At each end of the flashing a plastic bucket is sunk flush with the ground. A masonite roof is set 2 to 4 cm above each bucket to protect captured animals from the sun. Funnel traps are made from window screening rolled into a cylinder about 20 cm in diameter with a screen funnel set in each end. These are placed flush with the ground and appressed to the tin fence, one on each side of each arm. Loose soil or litter is placed in the mouth of the trap to create a more natural entry. A masonite board is placed over each funnel to provide shade.

Hoop traps baited with chicken livers or fish were used to sample turtles and other aquatic herps. A variety of other conventional techniques such as nocturnal road cruising and opportunistic manual collecting were also used to inventory the areas.

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Relative abundance of species in each area is indicated by the terms "very common" (VC), "'common" (C) and "uncommon" (UC). The terms are based on trapping, array results and general collecting. For this study trapping or drift fence results exceeding .01 and .003 per hour were considered VC and C respectively. Species taken below these levels are categorized UC.

Applying these categories to general collections and observations is necessarily more subjective. In regard to frog choruses VC, C, and UC represent more than 50, 10 to 50, and less than 10 calling individuals respectively. For general collecting, VC is used for species regularly seen in some number (10+) in trips to a site under favorable conditions; C represents species regularly seen at the site but in smaller numbers (<10); UC is used for species seen only one or two times. Where different categories were obtained through different methods or at different sites on the same study area, the highest category of abundance has been used.

These categories are merely an indication of how likely it is that a visitor to the study area will see these species. They have little biological significance for the

reader must keep in mind that numbers which imply uncommon for one group may be considered as common for another. For example an active, high trophic level predator such as a snake is typically seen in much fewer numbers than an insectivorous, sit and wait predator such as a bullfrog. Five bullfrogs at a pond might be considered an unusually low number but five rat snakes seen in the vicinity would be considered unusually high. We also point out that the relative abundances indicated here are merely representative of our findings for this particular year. Weather conditions were unusually dry in 1987 and this has biased both the quality and quanity of our collections. Such a survey would have to be conducted for several years to obtain a true picture of relative abundance and the total variety of herps at these sites.

#### RESULTS

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Twenty-eight different herptile species were collected or observed in the 4 study areas. The species lists provided (see next section) represent specimens collected or observed and should be thought of as a <u>minimum</u> species estimate for each of the 4 areas. Although the species lists are not unusual, there are some finds of interest. For example, the Illinois Chorus Frog (<u>Pseudacris streckeri</u>--a threatened species in the state) was found at the Matanzas and Shick Shack sites and might very well be present on the Scrub Oak area. The Plains hognose snake (<u>Heterodon nasicus</u>) was found

on the Scrub Oak and Shick Shack areas, whereas the Western Slender Glass Lizard (<u>Ophisaurus attenuatus</u>) was observed several times in the latter locality. Two leopard frog species (<u>Rana blairi</u> and <u>R. sphenocephala</u>) are found together (sympatrically) at Matanzas, Shick Shack and Scrub Oak. Surprisingly, the ground skink (<u>Scincella laterale</u>) was collected on several occasions at Scrub Oak. Although not included on our list, the Wood Frog (<u>Rana sylvatica</u>) might have a viable population at the Shick Shack location (a possible chorus was heard calling in early April). Field work next spring should help clear up this issue. Blanding's turtle (<u>Emydoidea blandingi</u>) was collected at Shick Shack and Matanzas. We have also tentatively identified a turtle carapace collected at Meredosia as <u>Terrepene carolina</u> which would be a record for Morgan County.

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The Shick Shack area had the most diverse herptile community (22 species). This is a very interesting area in that it contains aquatic, grassland and forest habitats which probably accounts for the fairly impressive species list compiled. Scrub Oak is a very large area with a number of distinct habitats but our species list is not particularly large. The spring-early summer 1987 was an extremely arid period and we strongly suspect that many more species inhabit this area.

The following is a species listing for the 4 areas and a subjective evaluation (very common, common and uncommon) of relative abundance. Location of drift fence traps and number

of collecting hours are also included. Number of specimens collected, date of collection, etc in each location can be found in Appendix I. Appendix II presents the habitat preferences and relative abundance of each species at each study area.

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#### SCRUB OAK

Sand Prairie - Scrub Oak Nature Preserve is the largest of the four study sites (1460 acres) in Mason County. Soils at this site are deep sand. Sand prairie comprises much of the northern third of the site whereas oak-hickory woodland predominates in the southern two-thirds. There is at least one small temporary pond (reportedly another exists) located in the sand prairie on the west side of the area. Four arrays of drift fencing were placed at this site. Array #1 was set in sand prairie on the west side near the pond and within 20 m of an "island" of oak hickory woodland. Array #2 was set in forest edge habitat on the southwest side of the site where an intrusion of sand prairie meets the oak hickory woodland. Array #3 was set in oak-hickory woodland on the east side of the site some 170 m west/northwest of the parking area. Array #4 was in a recently burned area of sand prairie at the northeast portion of the study area.

Scrub oak was the second most productive area in numbers of species with 13. The array set in the sand prairie near the pond with nine species was the most productive individual site in the study area.

Drift Fence Dates (4 different arrays) 4 April -- 7 April 18 April -- 21 April 11 May -- 25 May total = 738 hours 20 min 28 May -- 31 May 17 June -- 24 June (approximately 2900 total drift fence trap hours) Hand Collecting Hours = 91.5 hours Species Collected or Observed Amphibians Common Name Hyla versicolor UC Gray Tree Froq Rana sphenocephala UC Southern Leopard Frog Rana blairi UC Western Leopard Frog Bufo woodhousei С Fowler's Toad Rana catesbeiana UC BullFroq Reptiles Cnemidophorus sexlineatus VC Six-Lined Race Runner Scinella laterale UC Ground Skink Pituophis melanoleucus UC Bull Snake Heterodon nasicus UC Plains Hognose Snake Heterodon platyrhinos UC Eastern Hognose Snake Elaphe obsoleta UC Black Rat Snake Lampropeltis calligaster UC Prairie King Snake Coluber constrictor UC

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#### Eastern Yellow-Bellied Snake

## SHICK SHACK POND

This 45.74 acre study area in Cass Co. has a diversity of habitat types including a sand pond bounded by a large hill of sand with sand prairie vegetation to the north and east and with forest and shrub swamp around the rest. This area was the most diverse of the four study areas in habitat and in herps (22 species). One drift fence array was set in the sand prairie to the north of the pond.

Drift Fence Dates 4 April -- 7 April 18 April -- 20 April 11 May -- 25 May total = 756 hours 05 min 28 May -- 31 May 17 June -- 24 June Turtle Trap Dates 4 April -- 7 April 18 April -- 20 April 12 May -- 25 May total = 2748 hours/30 min28 May -- 31 May 17 June -- 19 June Hand Collecting Hours = 42.9 hours Species Collected or Observed Amphibians Common Name Ambystoma tigrinum UC Tiger Salamander Pseudacris triseriata VC Chorus Froq Pseudacris streckeri UC Illinois Chorus Froq Acris crepitans VC Cricket Froq Rana sylvatica (possible calling) Wood Frog Hyla crucifer VC Spring Peeper Hyla versicolor VC Gray Tree Froq Rana sphenocephala С Southern Leopard Frog Rana blairi UC Western Leopard Frog Bufo woodhousei VC Fowler's Toad Bufo americanus VC American Toad Rana catesbeiana VC Bullfrog Reptiles <u>Pituophis</u> melanoleucus UC Bull Snake Heterodon nasicus UC Plains Hognose Snake Heterodon platyrhinos UC Eastern Hognose Snake Elaphe obsoleta UC Black Rat Snake Coluber constrictor UC Eastern Yellow-Bellied Snake Nerodia sipedon UC Northern Water Snake Chrysemys picta VC Painted Turtle Emydoidea blandingi UC Blanding's Turtle Chelydra serptentina UC Snapping Turtle Cnemidophorus sexlineatus VC Six-Lined Race Runner

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Turtles at the Shick Shack area were sampled by hand

collecting, drift fences and baited hoop traps. Three species were collected--painted turtles, Chrysemys picta, snapping turtles, Chelydra serpentina, and a Blanding's Turtle, Emydoidea blandingi. Painted turtles predominated numerically. In 2749 trap hours, we captured 15 painteds, 4 snappers and 1 Blanding's. Using turtles per trap hour as a measure of abundance, painted turtles (.00546) were almost 4 times as abundant as snappers (.00145) the next most common species. The single Blanding's male would figure in as .00036 turtles per trap hour. General observations suggest that the numerical superiority of painteds could be greater yet. A visual survey of the pond using binoculars at 1529 on May 29 with air temperatures of 32 C and water temperatures of 24 C identified 77 heads of Chrysemys and only 4 of Chelydra. Of course it is possible (even likely) that painted tureles spend more time at the surface than snappers.

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In addition to the turtles captured in hoop traps, 6 painted turtles were captured on land. One hatchling was excavated from its nest while constructing the arrays on 11 April. Three other hatchlings were taken in array traps 19-20 April. Two females also fell into one of the array traps on 21 June.

Some information on reproduction of the painted turtle was obtained in the study. The large sand hill on the north side of the pond was found to be one of the nesting sites for the painted turtles at Shick Shack. Four hatchlings collected at this sand hill in April had apparently

overwintered in their nests there. Gravid females were collected on 30-31 May and 21 June on the study area.

Based on observed variation in the plastral figure of the turtles examined, we agree with Smith (1961) that the painted turtles here represent an intergrading population between <u>C.p. bellii</u> and <u>C.p. marginata.</u>

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#### MEREDOSIA

This hill prairie site in Morgan Co. had the greatest relief of any of the study areas varying over a 30 m from the prairie vegetation on the steep ridge tops to the oak-hickory woodland occupying the intervening ravines. A single array was set in the prairie habitat along a ridge. Seven species were collected or seen at this site.

Drift Fence Dates

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4 April -- 7 April 18 April -- 20 April 11 May -- 25 May 28 May -- 31 May 17 June -- 24 June total = 763 hours 35 min

Hand Collecting Hours = 19.8 hours

Species Collected or Observed

Amphibians

Common Name

Fowler's Toad

Bufo woodhousei UC

Reptiles

<u>Pituophis melanoleucus</u> UC Coluber constrictor UC

Thamnophis(sirtalis?)UCCnemidophorussexlineatusVCOphisaurusattenuatusUC

Terrapene carolina UC

Bull Snake Eastern Yellow-Bellied Snake Eastern garter snake? Six-Lined Race Runner Western Slender Glass Lizard Eastern Box Turtle A box turtle carapace (sans scutes) was collected in the woodland portion of Meredosia Hill prairie. Although positive identification is impossible without the scutes, the shell is tentatively identified as the eastern box turtle, <u>Terrepene</u> <u>carolina</u> based on the presence of a weak mid-dorsal keel and the connection of the bridge at the fifth marginal. The western box turtle, <u>T. ornata</u> typically lacks a keel and has the bridge beginning at the seam between the fifth and sixth marginals or on the sixth. This find may be significant in that it exceeds the known range of the eastern box turtle as given by Smith (1961).

#### MATANZAS PRAIRIE

This 27.64 acre site in Mason Co. is predominately wet sand prairie although it contains some woodland. One drift fence array was set on a patch of slightly higher ground surrounded by wet prairie. Eleven species of herps were collected .

Drift Fence Dates

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4 April -- 7 April 18 April -- 21 April 11 May -- 25 May total = 753 hours 10 min 28 May -- 31 May 17 June -- 24 June

Hand Collecting Hours = 22.5 hours

#### Species Collected or Observed

Amphibians		Common Name
Pseudacris triseriata	VC	Chorus Frog
Pseudacris streckeri	C	Illinois Chorus Frog
Hyla crucifer	VC	Spring Peeper
Hyla versicolor	UC	Gray Tree Frog
Rana sylvatica (possib	le call rec	ord) Wood Frog??
Rana sphenocephala	C	Southern Leopard Frog
Rana blairi	UC	Western Leopard Frog
Bufo woodhousei	VC	Fowler's Toad
Bufo americanus	VC	American Toad
Reptiles		
Emydoidea blandingi	UC	Blanding's Turtle
Thamnophis sirtalis	UC	Eastern Garter Snake
Storeria dekayi	UC	Dekay's Snake

The remains of two Blanding's turtles, <u>Emydoidea</u> <u>blandingi</u>, were found at this site. Blanding's turtles are adapted for marsh-type habitats but usually are found in areas which have somewhat more permanent water.

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VC = VERY COMMON

C = COMMON

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UC = UNCOMMON

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#### LITERATURE CITED

Campbell, H.W., and S.P. Christman. 1982. Field techniques for herpetofaunal community analysis. pp. 193-200. In: (Scott, N.J., Jr., Ed.). Herpetological Communities. U.S. Department of the Interior. Fish and Wildlife Service. Wildlife Research Report 13.

Smith, P.W. 1961. The Amphibians and Reptiles of Illinois. Illinois Natural History Survey Bulletin Vol. 28, Article 1. 298 pp.

#### APPENDIX 1

Collection data for each study site. Abbreviations: tl = total length, sv = snout to vent, cl = carapace length.

MATANZAS

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Array	Location: West	central po	rtion of	area-mois	t grassland
Date	Species	Trap	Time	Size	Comments
4/6 4/6 4/18 4/19	P. triseriata P. triseriata P. streckeri H. crucifer R. sylvatica?? E. blandingi T. sirtalis	  manual funnel	1410 910	 	"
4/20 4/20 4/20 4/20 4/20 4/21 5/11 6/18 6/18	P. triseriata H. crucifer B. woodhousei B. americanus H. versicolor R. sphenocephala R. blairi S. dekayi R. sphenocephala E. blandingi B. woodhousei(2) S. dekayi	pit funnel pit manual	1234 650 825	adult adult adult adult	

SCRUB OAK #1

Array Location: West central portion of preserve in grassland 100 meters southwest of pond

Date	Species	Trap	Time	Size	Comments
•	R. blairi (2) H. crucifer B. woodhousei C. sexlineatus ( R. catesbeiana (	•	2050 2050 1008 1020 1925	adult adult	large chorus (50+)  hand captured 11
	R. sphenocephala	manual	1925	adult	
5/13	leopard frogs	manual	1925	metamorp	hics
5/14	C. sexlineatus	funnel	925		
5/14	B. woodhousei	pit	925	- <b></b>	- <b></b>
5/16	H. nasicus	manual	655	tl=6.5"	
5/18	S. laterale	pit	1830		<b>-</b>
5/20	B. woodhousei	pit	1210	adult	<b></b>
5/21	B. woodhousei	funnel	1150		<b>-</b>
5/21	C. sexlineatus	manual	1150	t1=8"	

Date	Species	Trap	Time	Size	Comments
	<u>B.</u> woodhousei (2				
	S. laterale				
	B. woodhousei				
5/22	C. sexlineatus (	3) manual	1452		
5/23	B. woodhousei	pit	1058	adult	<b>_</b>
	P. melanoleucus			tl=47"	
·				sv=42.5"	
5/23	C. sexlineatus	funnel	1058		observed 8
5/23	B. woodhousei (2	) manual	1411	<b>_</b>	<b>_</b>
5/23	C. constrictor	manual	1452	tl=26.5"	
	·····			sv=20.5"	
5/25	B. woodhousei	pit	1103	adult	<b></b>
	C. sexlineatus				
	P. melanoleucus			tl=58.5"	sv=51"
	C. constrictor			sv=650mm	
	C. sexlineatus				
	C. sexlineatus (	<b>~</b>		sv=50mm	
0722	C. SCATTReatus (	2, P-C	1400	sv=30mm sv=41mm	
6/2/	C govlingstor (	21 funnel	775		
0/24	<u>C.</u> <u>sexlineatus</u> (	z, runner	725	sv=59mm	
				sv=52.5	

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SCRUB OAK #2

Array Location: Southwest portion of preserve on grass/forest edge

Date	Species	Trap	Time	Size	Comments
4/6	<u>E.</u> obsoleta	manual	1130	t1=52" sv=39"	
5/18	<u>C. sexlineatus</u> <u>B. woodhousei</u> B. woodhousei (4		1105 1800 1225	sv=2.5" sv=2" sv=2" sv=2"	 observed   
5/22	<u>C.</u> constrictor	manual	1458	sv=2" tl=41.5" sv=30"	
5/23	L. calligaster	manual	1145	t1=28" sv=25"	
5/24	C. sexlineatus C. constrictor C. sexlineatus	manual manual pit	1156 1519 1804	tl=43" s	v=33"
6/24	L. calligaster	pit	1855	sv=330mm	

## SCRUB OAK #3

Array Location: East central portion of preserve, approximately 170 meters west/northwest of parking area on east side of preserve--woodland habitat

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Date	Species	Trap	Time	Size	Comments
5/21 5/25 6/18 6/24	H. versicolor H. platyrhinos C. sexlineatus H. platyrhinos	pit manual pit funnel	1300 1159 740 1815	tl=14" sv=62mm sv=340mm	sv==12"  n

#### SCRUB OAK #4

Array Location: Northest portion of preserve, in recently burned area - grassland habitat

Date	Species 5	Trap	Time	Size	Comments
5/11	C. sexlineatus	pit	1336		observed 2
5/12		pit	1655		
5/13	" " (3)	pit	1246		1 recapture
5/13	" " (17)		1314		observed
5/14		funnel	1040		recapture
5/16		funnel	1740	tl=7.5"	female
-,	<b>x r</b>			tl=7.5"	male
5/16	" "	pit	1740	tl=6.5"	
5/17		pit	1255		
5/18		funnel (2)	1710	tl=7"	
5/18	B. woodhousei	funnel	1710	sv=2"	
5/19	C. sexlineatus (2)	) funnel	1225		
		pit	1350		
		manual	1305	adult	
5/23	C. sexlineatus (2)	) manual	1305		- <b></b>
5/24		) funnel	1619		1 recapture
5/28	<u> </u>	)pit	1750		- <b></b>
6/17	B. woodhousei	pit	2125		<b></b> -
6/18	C. sexlineatus(3)	pit	710	sv=24mm	
				sv=56mm	
				sv=53mm	
6/20	B. woodhousei	pit	1935	sv=37mm	
6/20		funnel	1935	sv=39mm	
6/20		manual	735	sv=64mm	
6/20	<del></del> ]	pit	735	sv=49mm	- <b></b>
6/21	17 11	funnel	700	sv=46mm	
6/21		pit	700	sv=47	
6/23		pit	1635	sv=58mm	
6/24	11 11	funnel	1740	sv=47	<b>_</b>
6/24	" " ]	pit	1740	sv=64	

### SHICK SHACK POND

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Array Location: West portion of preserve in tall grassland near pond

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Date	Species	Trap	Time	Size	Comments
4/4	P. triseriata		1300		large chorus (50+)
4/4	R. sylvatica??		1300	- <b></b>	possible chorus
4/5	R. sylvatica??		1000		possible chorus
4/5	$\overline{C. picta (4)}$		1000		observed basking
4/6	R. catesbeiana (	13) turtle		tadpoles	
4/6	R. blairi		1540	adult	dead
4/7	$\frac{R}{R}$ , $\frac{SIGIII}{catesbeiana}$ (	5) turtle	1235	tadpoles	
4/7	$\frac{R_{\star}}{P_{\star}}$ streckeri (2)		1235		2 males in chorus
4/7	$\frac{1}{R}$ . catesbeiana		1235		1 male calling
4/18	C. picta		1045		many basking
4/18	E. blandingi	turtle	1930	c1=9"	male
4/18	$\frac{D_{1}}{C_{1}}$ picta	turtle	1930	cl=150mm	
4/18	C. picta	turtle	1930	cl=144mm	
4/18	C. picta	turtle	1930	c1=129mm	
4/18	C. picta	turtle	1930	c1=137mm	
4/18	$\frac{C}{C}$ , $\frac{picta}{picta}$	turtle	1930	c1=133mm	
$\frac{4}{18}$	H. crucifer		1930		large chorus (50+)
4/18	R. blairi		1930		5 males in chorus
4/18	B. americanus		1930		large chorus (50+)
$\frac{4}{18}$	R. sphenocephala		1930		large chorus (30+)
4/19	H. versicolor		1930		5 males in chorus
4/19	C. serpentina	turtle	2050	cl=7.5"	male
4/19	$\frac{C.}{C.}$ picta	pit	1215	hatchling	
4/20	C. picta	funnel	1105		nm hatchling
4/20	P. streckeri	pit	1105	adult	
4/20	$\frac{\Gamma}{C}$ , picta	turtle	1105	cl=271mm	
4/20	C. picta	turtle	1105	cl=276mm	
4/20	C. picta	turtle	1105	c1=265mm	
4/20	C. picta	turtle	1105	cl=203mm	
5/12	<u>C.</u> picta C. sexlineatus		1145		observed
5/12	R. catesbeiana		1937		large chorus (30+)
5/13			1937		large chorus (50+)
5/13	<u>A.</u> <u>crepitans</u> H. versicolor		1937		3-4 males calling
	C. sexlineatus	funnol	1100	tl=8"	male
5/13		funnel	1100	L1=0 	
5/13 5/14	B. americanus C. sexlineatus	manual	1015	 tl=5"	
5/14 5/15	$\frac{C.}{C.}$ serpentina	pit	1145	cl=189mm	
	$\frac{C}{C}$ seriencina C. serlineatus (	turtle	1200	tl=7.7"	male
5/15	C. Sexilleatus (	z) prt	1200	t1=7.7 t1=8.5"	male
E / 1 C	C coulinostuc (	2) nit	1605	t1=0.5 t1=7"	male
5/16	<u>C.</u> <u>sexlineatus</u> (	z) pri	1605	tl=5.5"	
c/17	P astachaises (	() + 1 = 1	1115		
5/17	<u>R.</u> catesbeiana ( C. serpentina (2		1115	tadpoles	
5/17	C. Serpentina (2	, curcre	TTTO	cl=12cm	 
E/10	C govlingstur	ni+	1520	cl=12.5c	
5/18	C. <u>sexlineatus</u>	pit	1530	 tl=8"	female
5/21	C. sexlineatus	funnel	1015		
5/24	R. catesbeiana	turtle	1050	tadpole	<b></b>
Date	Species	Tran	Time	Size	Comments
Dale	Phecies	Trap	TTWE	0126	COMMETTES

5/24	<u>H. nasicus</u>	manual	1050	t1=31.5" sv=27"	
5/24	<u>H.</u> platyrhinos	manual	1050	tl=37.5"	
				sv=23"	
5/24	<u>N. sipedon</u> ??		1050		observed
5/24	R. catesbeiana		2250		chorus (20-30)
5/24	<u>A. crepitans</u>		2250		large chorus (40+)
5/25	C. sexlineatus	funnel	1335	<b>-</b>	
5/25	C. constrictor	manual	1345		
5/29	B. woodhousei	funnel	1200		
5/29	E. obsoleta	manual	1230	sv 1050	
5/29	C. sexlineatus	pit	1300		<b>-</b>
5/29	C. constrictor	funnel	1325	sv 850	
5/29	P. streckeri		1400		2 to 3 calling
5/29	A. crepitans		2100		chorus (50+)
5/29	H. versicolor		2100		chorus (50+)
5/29	R. catesbeiana		2100		chorus (10-12)
5/30	C. sexlineatus	funnel	900	<b>-</b>	
5/30	R. catesbeiana(1	8)turtle	930	tadpoles	
5/30	C. picta (4)	turtle	930	cl-163,1	60,153,F; 156 M;
5/31	C. picta	turtle	800	cl- 141	male
6/18	R. catesbeiana	turtle	936	female	
6/19	R. catesbeiana	turtle	1327	male	
6/20	A. crepitans (2)	funnel	1215	adults	
6/20	R. sphenocephala	(2) pit	1215	juvenile	
6/20	C. sexlineatus	funnel	1215	sv=71mm	
6/20	A. crepitans	funnel	1215	adult	
6/20	R. sphenocephala	(2)pit	1215	adult	<b>-</b>
6/21	H. versicolor		1900		chorus (6-7)
6/21	R. catesbeiana		1900		chorus 4-5 males
6/21	A. crepitans		1900		chorus, large
6/21	C. picta	pit	2130	cl=163 m	m female with eggs
6/21	C. picta	pit	2130		recapture (3r)
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## MEREDOSIA HILL PRAIRIE

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Array Location: East central portion of preserve on hill top-grassland habitat

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Date	Species	Trap	Time	Size	Comments	
4/4 4/6 4/7	$\frac{T.}{C.} \frac{\text{carolina}}{\text{constrictor}}$	manual manual pit	1200 1945 1350	 tl=16.5" sv=13"	carapace carapace 	
	<u> </u>	30) manual pit manual pit	1400 930 1415 1400 1025	tl=48" tl=7" adult tl=3.5"	observed  	
Date	Species	Trap	Time	Size	Comments	

5/15	C. sexlin	eatus (2) p	oit 1040	tl=7"	
				tl=5.	5"
5/16	C. sexlin	eatus pit	: 1500	tl=7"	male
5/19	B. woodho	ousei mar	nual 945	sv=2.	5"
5/21	B. woodho	ousei mar	nual 915	sv=2"	
5/24	C. sexlir	neatus (2) m	nanual 1230		<b>-</b>
5/25	C. sexlir	neatus (18)-	1446		observed
5/25	B. woodho	ousei mar	nual 1446		
5/30	C. sexlir	neatus (12)-	1100		observed
5/31	0. attenu	atus	- 1030		observed

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#### APPENDIX 2

Species list for the four study areas showing abundance and habitat preferences. Abbreviations : MA - Matanzas Wet Prairie, ME - Meredosia Hill Prairie, SS -Shick Shack site, P -prairie, W -woodland, A -aquatic or semiaquatic, G - generalized, VC -very common, C -common, U - uncommon, R - rare.

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Species	Habitat	SS	1	Scru 2	b Oa 3	.k 4	MA	ME
Salamanders Ambystoma tigrinum	Р	UC	- <b>-</b>	<b>_</b>				
Frogs & Toads Bufonidae Bufo	G	110					110	
Bufo americanus Bufo woodhousei Hylidae	G G	VC VC	<u>-</u> - с	<u>-</u> - с		c	VC VC	UC
<u>Acris crepitans</u> Hyla crucifer	A W	VC C			<b>-</b>		 vc	- <b>-</b>
<u>Hyla versicolor</u> Pseudacris triseria		VC VC		<b>-</b>	UC 	 	UC VC	 
<u>Pseudacris</u> strecker Ranidae		UC					С	
Rana blairi Rana catesbeiana Rana sphenocephala	А,Р А А	UC VC C	UC UC UC			 	UC  C	 
Rana sylvatica Snakes	A,W	?					?	
<u>Coluber</u> <u>constrictor</u> <u>Elaphe</u> <u>obsoleta</u> <u>Heterodon</u> <u>nasicus</u> <u>Heterodon</u> <u>platyrhin</u> Lampropeltis	W P	UC UC UC UC	UC UC	UC 	  UC	  	  	UC  
<u>calligaster</u> Nerodia sipedon	P A	UC	UC 	<b>-</b>	 	 	 	
<u>Pituophis</u> <u>melanoleucus</u> <u>Storeria dekayi</u> <u>Thamnophis sirtalis</u>	P W G	  	UC  	 	 	 	UC UC	UC UC
Lizards <u>Cnemidophorus</u> <u>sexlineatus</u> <u>Ophisaurus attenuat</u> Scincella laterale	P P W	VC 	VC  UC	UC 	 	VC UC	  	VC UC
Turtles Chelydra serpentina Chrysemys picta Emydoidea blandingi Terrapene carolina	A	UC VC UC	  	  	  	  	 UC	  uC



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September 21, 1987

DIV. OF FORTET NEDCUROTED

James D. Garner Division of Natural Heritage ILLINOIS DEPARTMENT OF CONSERVATION Lincoln Tower Plaza 524 S. Second Street Springfield, IL 62701-1787

Dear Jim:

Enclosed is a copy of our final report entitled "Herptile Inventory of Four Central Illinois Prairie Preserves". We hope that the report will be of value to the Division of Natural Heritage and the IDOC. The 4 areas studied are very interesting, unique and appear to have viable herptile populations.

If you have any questions concerning this report, please contact us. Sorry about the 3 week delay.

Sincerely yours,

Kipp C. Kruse, Ph.D.

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Edward O. Moll, Ph.D. Department of Zoology Eastern Illinois University Charleston, IL 61920