

ILLINOIS MUD TURTLE SURVEY REPORT

ILLINOIS NONGAME WILDLIFE CONSERVATION FUND PROJECT

CONDUCTED BY

LEE COUNTY NATURAL AREA GUARDIANS

319 S. MASON

AMBOY, ILLINOIS 61310

PHONE: 815/857-3623

LEE COUNTY, ILLINOIS

1986

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ABSTRACT

An Illinois Mud Turtle (Kinosternon flavescens spooneri) Survey was conducted by the Lee County Natural Area Guardians, June 2 - 6 and June 9 - 13, 1986. The survey was funded by the Illinois Nongame Wildlife Conservation Checkoff Program. Sites were selected in the Green River Low Lands in the southwestern part of Lee County, Illinois. A total of eighty-eight turtles were surveyed. One Illinois Mud Turtle (Kinosternon flavescens spooneri) was found along with thirteen Blanding's Turtles (Emydoidea blandingi). Twenty-three sites were trapped.

INTRODUCTION

Presettlement Lee County was the site of two large swamps, totaling 50,000 acres. Much of the wetland wildlife habitat in the County was destroyed between 1887 and 1901. True wetlands or marsh areas are very limited in Lee County today. The last inventory in 1927 listed only 47 square miles as late swamp or bottomland soils. The Green River Low Lands, site of the survey, consists of water filled depressions in poorly drained soils.

The Illinois Mud Turtle is listed as endangered in Illinois. The species has a limited range. Small known populations are found at scattered sites in Illinois.

The first known finding of an Illinois Mud Turtle in Lee County was in 1970 in the Green River Conservation Area. During the extensive search conducted for Monsanto in 1979 no Illinois Mud Turtles were found in Lee County. In the spring of 1985 a large adult male was found on the County's west border.

METHODOLOGY

In October, 1985 the Lee County Natural Area Guardians applied for funds from the Illinois Nongame Wildlife Conservation Checkoff Program to conduct an Illinois Mud Turtle Survey. A contract with the Illinois Department of Conservation was signed April 15, 1986.

In preparation for the anticipated funding the Natural Area Guardians held a February training session. Instructed by Randy Nyboer, Natural Heritage Biologist, Illinois Department of Conservation, the trappers became

familiar with the turtles habitat requirements. Natural Area Guardian members learned how to identify characteristics unique to the Illinois Mud Turtle. Actual traps were assembled at the training session. Humane marking of specimens was demonstrated and members were given the opportunity to practice the techniques.

Following notification of funding an informational sheet was prepared and printed. The sheet, in a WANTED poster form, was mailed to all owner/operators in southwestern Lee County. The area included Harmon, Hamilton, Marion, East Grove, Amboy, May, Lee Center, and Sublette townships. It was also distributed to Amboy School students.

The poster (exhibit I) showed characteristics of the Illinois Mud Turtle for identification, habitat needs and procedure to follow if a turtle was sighted or captured. Several news releases were issued to local media as well as articles in the Lee County Soil and Water Conservation District newsletter. (exhibit II & III)

Trapping site selection was made from the Natural Area Guardian ongoing, locally significant, natural area inventory. Once sites were chosen the landowner/operators were contacted by letter. (exhibit IV & V) The letter briefly explained the project and requested permission to survey their property. A stamped and addressed card was enclosed for the owners reply. Landowners were given the opportunity to participate in the trapping.

Files for each area were prepared. Included in the file was owners permission card, aerial (secured from ASCS), topographic map and any specific instructions needed. A County road map was also provided the trappers.

Trapping headquarters were set-up in a rented small shed in the rear of the USDA Service Center, Amboy, Illinois. The headquarters housed the scales, measuring tools, and recording equipment in addition to holding tubs for turtles awaiting data collection. The nearby Fredenhagen, Spears, Kessell, and Kellen sites were trapped the first week, June 2 - 6, 1986.

Hoop net traps were used in the trapping operation. Fresh chicken livers, secured in common screen wire, lured the turtles into the traps. After baiting the

traps they were placed in shallow water making sure there was opportunity for trapped turtles to surface for air. Traps were emptied and rebaited daily and water temperatures recorded. Precaution was taken to insure that captured turtles were grouped in mesh bags from individual sites, both for data records, marking and release. Turtles were held overnight in tubs with an inch or two of water.

Headquarters were moved the second week to the Carey farm located nearer the trapping sites. Trapped June 9 - 13, 1986 were Carey, Hinton, Zbinden, Spears, Broderick, Kant and Zimmerly sites.

Photographs were taken at numerous sites to document the project. Each species of turtle was photographed. Numerous pictures of the one Illinois Mud Turtle were shot. Enlargements depicting the turtle's identifying characteristics will be used in displays and in conjunction with the slide presentation.

A slide/tape show "Turtle Talk" was prepared for showing to interested persons, civic groups and schools. A brochure was printed as a hand-out at the slide show presentations. The slide show depicts the entire project from funding through training, trapping and data collection. The release of specimens to their original capture site is shown also. The presentation concludes with a request for viewers to aid in habitat preservation for the endangered Illinois Mud Turtle. (exhibit VI)

Letters were again sent to cooperating landowner/operators to express the Natural Area Guardians gratitude for their vital assistance in the project. Enclosed with the letter was a copy of the brochure "Turtle Talk". (exhibit VII)

RESULTS

One of the primary results of the survey was the data collected on the eighty-eight turtles captured in Lee County. Among those eighty-eight were: 39* Intermediate Painted Turtles, 25 Western Painted Turtles, 10 Midland Painted Turtles, 13** Blanding's Turtles (Emydoidea blandingi), and 1 Illinois Mud Turtle (Kinosternon flavescens spooneri).

* One Painted turtle was found crossing the road near the Spears site.

** One Blanding's was picked up by an area landowner and brought to trapping headquarters. (Referred to as Mazy Road Blanding's.)

(See detailed data sheets)

Secondary results of great importance to our County is the opportunity the survey presented to educate our citizens about the turtles in our locale. The survey with it's publicity and contacts with land-owner/operators gave numerous opportunities for dispensing information concerning identification, habitat requirements, and means to aid these reptiles of our County. The project was very well received in our area.

The slide/tape show will add another tool for public education. Both young and old can see first hand the vital role they play in the animals survival. Requests for veiwing have all ready been received. The brochure "Turtle Talk" will be a reminder in the home and will encourage interest in these rare creatures.

Our group of trappers had a once-in-a-lifetime opportunity to learn from the Department of Conservation staff who assisted in the project. Each member learned volumes in addition to the fascinating experience of trapping turtles. Many interesting areas were visited and new nature enthusiasts sympathetic to our cause were contacted.

The survey allowed Lee County tax payers to see the results of their checkoff money in action in their own County.

CONCLUSION

The Natural Area Guardians will contact the land-owner of the Illinois Mud Turtle site and discuss preservation of this site. There are some indications that the landowner may be planning some changes in land use on his property. Some of the sand ridge was cleared the fall of 1985. Attempts will be made to educate the site owner about this unique animal, an endangered Illinois species.

If conclusions can be made from such a limited study, it would appear that neither the Blanding's (Emydoidea blandingi) nor the Illinois Mud Turtle (Kinosternon flavescens spooneri) tolerate disturbance. The soil 4200 Orio mucky sandy loam, ponded, appeared in all areas where Blanding's were found, which also included the Illinois Mud Turtle site.

It is interesting too, that the 741D3 Oakville fine sand, 7 to 20% slope on the south edge of the

Illinois Mud Turtle site is found in conjunction with 200 Orio sandy loam at the site of the Illinois Mud Turtle found in the spring of 1985 at the County's west border. It would seem worthwhile to seek out more of this soil combination for trapping next year.

With the finding of thirteen Blanding's an interesting study of that species could be conducted in Lee County. The Spears pond #8 that yeilded five of the species would be the ideal site.

ACKNOWLEDGEMENTS

Sincere gratitude is extended to the Department of Conservation for their excellent guidance and assistance in this checkoff project. The project could not have been successfully completed without the assistance of Randy Nyboer, Dennis Jarrard, Mary Grapperhaus, Karen Townsend, Bill Glass, and Fran Harty. Equipment was also furnished by the Department of Conservation, such as traps, scales, calipers, thermometers, etc. Landowner cooperation proved to be of invaluable aid. Finally thank you to tax payers who realize the value of our nongame wildlife resources in Illinois and accept their responsibility to better understand the animals situation and aid in their preservation.

BIBLIOGRAPHY

- Resource Inventory, Lee County, Illinois - 1972
Prepared by: Lee Co. Soil & Water Conservation District
Reference: Environmental Study
Lee County Planning Commission - Oct. 1970
- Soil Survey of Lee County, Illinois - USDA, SCS - 1981
- Amphibians and Reptiles of Illinois - Philip W. Smith
Volume 28 Article 1 - Nov. 1961

EXHIBITS

- Exhibit IWANTED Poster
- Exhibit IIDistrict Newsletter
- Exhibit IIINews Releases
- Exhibit IVLandowner Letter
- Exhibit VLandowner Card
- Exhibit VIBrochure
- Exhibit VIIThank You Letter

WANTED

SIGHTINGS OF THE Illinois Mud Turtle

IF YOU HAVE A SAND POND, YOU MAY HAVE GOOD HABITAT FOR THIS TURTLE!
THE NATURAL AREA GUARDIANS ARE PRESENTLY CONDUCTING A SURVEY FOR THIS
ENDANGERED ILLINOIS REPTILE!

Identifying Characteristics

- ★ DARK OLIVE COLOR, TOP SHELL YELLOW & BROWN MOTTLING ON BOTTOM
- ★ SHELL IS 5" LONG



★ IRREGULAR SHAPED 9TH MARGINAL SCUTE (SEE DRAWING)

★ UNDERSIDE OF NECK HAS 4 SHORT FLESHY PROJECTIONS CALLED BARBELS

★ ACTIVE ON LAND AND WATER FROM LATE APRIL TO SEPTEMBER

★ MAY GIVE OFF FOUL ODOR WHEN FIRST HANDLED

WHAT TO DO IF YOU THINK YOU HAVE FOUND AN ILLINOIS MUD TURTLE

CALL OR VISIT THE ILLINOIS COUNTY SOIL & WATER CONSERVATION DISTRICT
OFFICE, USDA SERVICE CENTER, 519 S. MASON, AMBOY, ILL. 815/857-3623
TO TRANSPORT TURTLES TO OFFICE, PLACE IN A BUCKET WITH AN INCH OR
TWO OF WATER. PLEASE NOTE WHERE AND WHEN FOUND!

Lee County Soil and Water Conservation District
May - June '86

USDA SERVICE CENTER - 319 S. MASON AVENUE
 AMBOY, ILLINOIS 61310 - 815/857-3623

CONTOUR LINE

DIRECTORS: Elroy Lauer, Ken Reuter, Dan Burkardt, Dean Butterbaugh, Tom Fassler

LEE CO. HYDROLOGIC UNITS

FIVE MAJOR RIVER SYSTEMS TAKE/RECEIVE SURFACE WATER FROM LEE COUNTY. CAN YOU NAME THEM?

Tributaries/creeks flow into the rivers - - completing the hydrologic pattern for delivery of excess rainfall.

The heavy rains came the third week of May, 1986, cutting a deep slice (sheet) of topsoil from the cropland and gouging gullies into the water courses. Sediment covers the bottom-land!

Let the rainfall is uncontrollable; the runoff, erosion and sedimentation is controllable. Like the old story - - "the impossible takes a bit longer time."

Organize to benefit from soil and water resource opportunities. Lee County has 35

ANSWER - ROCK RIVER, GREEN RIVER, ILLINOIS RIVER, FOX RIVER, KISHWAUKEE

hydrologic units (see map on page 2 - circled numbers) to enable both the landowners and the District to concentrate resources to make an impact on the watersheds.

The "Four Mile Grove Creek" Watershed (#18 on Map) received \$22,500 of "Build Illinois" money this year to help solve their erosion problems.

Benefits include increased net income farmers, lower production costs, increased crop yields, improved water quality, lower ditch and road maintenance, etc.

Discuss these things with your neighbor and bring your ideas to the Soil Conservation Service Field Office in Amboy or the USDA Service Center.

Robert Lowe,

Saving Lee Co. Soil!

All funds allotted to Lee County Cost Share Program have been covered and work is proceeding as quick as other permits. Fiscal Year 1986 will also be spent for conservation projects where the most soil is dollar spent. Sign-up for the program is now closed and the proposals will be prioritized according to the photo to the left picture.

The photo to the left picture shows an assisting Technician B checking completed terraces on a land Walder farm in Wyoming. This project will benefit the farmer result in a soil saving of 1000 tons per year from sheet, rill and gully erosion at a cost of \$1.01 per acre per year per acre.



NON-PROFIT ORG.
 U.S. POSTAGE
 AMBOY, ILLINOIS
 PERMIT NO. 28

to us via the
 61310.

acres.

the O-till club
 glad you did!

EXHIBIT

News release issued at the onset of the project. It was sent to all local area media, both newspapers and radio stations. This copy was printed in the Mendota Shopping Guide, a small publication that has a wide circulation in the area.

(1/1/86 - issue)

The Dixon Telegraph contacted the Soil & Water Conservation District office and rewrote the article with a by-line by reporter John Kanthak.

(1/1/86 - issue)

NONGAME WILDLIFE CHECK-OFF FUNDS TO BE USED IN LEE COUNTY

The Lee County Natural Area Guardians (NAG) have been notified that a request for funding has received approval. The monies from the non-game wildlife check-off will be used for a Illinois Mud Turtle Survey in Lee County. These funds come from donations by concerned Illinois citizens who place a check-mark in the appropriate box on the Illinois Income Tax Form. If you are entitled to a State tax refund you may donate \$10.00 to this fund. The checkoff money may be used for nongame wildlife which are not hunted or trapped. They constitute about 500 species and nearly 90% of all wildlife in Illinois. The tax deductible donation is used to preserve and protect wild populations of birds, mammals, and other wildlife seriously affected by modern civilization.

The NAG will be funded to survey the endangered Illinois Mud Turtle. This rare animal hibernates throughout the winter and becomes active in the Spring in sandy regions of central and northwestern Illinois. All the known Illinois Mud Turtles in the world live in Iowa, Illinois, and Missouri. As recent as last year, during a trapping project, 17 were found in Henry County. Their habitat requirements are sandy areas with shallow undisturbed ponds. Lee County has habitat to support this unique creature. A large adult male of this species was found on the County's west border in the Spring of 1985.

The Lee County project will be of a 4 or 5 day duration in late May or early June. Turtles will be trapped in baited traps placed in shallow water. Traps will be checked twice daily. Turtles found will be measured, sexed, aged and marked, then released. NAG members will document all of the activities on film enabling others to share in this exciting project. A brochure will be published containing detailed information learned through the inventory.

M.S.G. 1/1/86

Lee group to study mysterious mud turtle

By John Kanthak
Telegraph staff writer

cooperation with the Illinois Department of Conservation."

AMBOY — The Lee County Natural Area Guardians will this spring use Illinois tax dollars to study the mysterious Illinois Mud Turtle.

The Guardians were notified recently that a request for state funding has been approved — the group will receive a portion of the monies collected from the non-game wildlife check-off. Taxpayers due to receive an income tax refund have the option of checking a box on their form to donate \$10 to the wildlife fund.

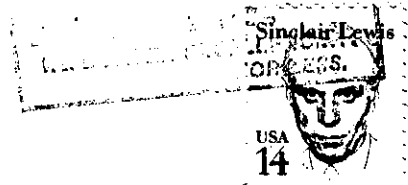
"The Mud Turtle is a very rare animal. It's on the endangered species list," said Hazel Reuter, a member of the Guardians. "Our organization has decided to do all it can to help these animals, in

Not much is known about the Mud Turtle, which hibernates throughout the winter and becomes active in the spring in the sandy regions of northwestern and central Illinois. All of the world's known Mud Turtles live in Illinois, Iowa and Missouri.

The Guardians will begin their five-day project in late May or early June, trapping the turtles in baited traps placed in shallow water.

After the studies are completed, the group plans to prepare a slide show and brochure to inform the residents in the area about one of the least known and appreciated natural resources of Lee County — the elusive Mud Turtle.

MAR 21 1986



LEE CO. SOIL & WATER CONSERVATION DISTRICT
319 S. MASON
AMBOY, ILLINOIS 61310

Yes, you have permission to trap turtles
on my property.

No, I do not wish to cooperate.

Date 3-19 1986

Frederick C Zbinden
Name

FRED C ZBINDEN

EXHIBIT V

DETAILED

DATA

SHEETS

TRAPPING SITE OWNERS/OPERATORS

- #1 - Tom Broderick
RR #4
Dixon, IL 61021
Phone: 815/288-2111
No turtles
- #2 - Wm. & Doris Carey
377 Ill. Rt. 26
Amboy, IL 61310
Phone: 815/376-5572
No turtles
- #3 - Delbert Kessel
& RR #2
3A. Amboy, IL 61310
Painted
Owner: Jerry Guanci
RR #2 B
Amboy, IL 61310
- #4 - W. S. Fredenhagen, Jr.
4A. 324 S. Washington
4B. Naperville, IL 60540
4C.
4D., 4E., 4F.
Painted
Blanding's
- #5 - Rose Hinton
Ill. Rt. 26
Amboy, IL 61310
Phone: 815/376-5574
No turtles
- #6 - Wm. & Lillie Kant
& 304 W. Main St.
6A. Amboy, IL 61310
Phone: 815/857-3541
Painted
Blanding's
- #7 - John Kellen
7A. 108 Third Street
7B. Sublette, IL 61367
Phone: 815/849-5228
Painted
Owner: Kim A Schmitt
8504 Concord Drive
Woodstock, IL 60098
- #8 - Marvin Spears
8A. 1668 Winding Road
8B. Amboy, IL 61310
Phone: 815/849-5503
Painted
Blanding's
- #9 - Frederick Zbinden
RR #5, Box 563
Dixon, IL 61021
Phone: 815/288-4050
No turtles
- #10- Daryl Zimmerly
& Ill. Rt. 26
10A. Amboy, IL 61310
Phone: 815/376-5831
Painted
Blanding's
Mud

ILLINOIS MUD TURTLE

(Kinosternon flavescens spooneri)

<u>Site found</u>	<u>date</u>	<u>sex</u>	<u>weight</u>	<u>Carapace length</u>	<u>width</u>	<u>Plastron length</u>	<u>Shell depth</u>	<u>age</u>
Zimmerly	6/11/86	M	344.2	125	91.4	110.90	44.92	10

LEE COUNTY, ILLINOIS - LEE CO. NATURAL AREA GUARDIANS - WILDLIFE CHECKOFF FUNDING
TOTAL 1 - 1 male

BLANDING'S TURTLES (Emydoidea blandingi)

Site found	date	sex	weight	Carapace length	width	Plastron length	Shell depth	age
Spears (sm. pond)	6/3/86	F	1330	207	141	193	88	9
	6/3/86	F	1251.5	202	132	189	92	9
	6/4/86	F	290.1	126	88	127	50	12
	6/10/86	F	984.7	193	125	187	74.5	14
	6/12/86	M	280.6	131.6	92.4	122.42	55.46	8
Spears (lg. pond)	6/11/86	M	1106.2	199	102.4	187	72.4	15
Spears (tiny)	6/13/86	F	944.3	185	124.1	175	77.3	11
Zimmerly	6/11/86	M	1262.9	200	140	190	68	10
	6/12/86	F	1440.2	210	138	120.9	90	13
Mazy Road	6/10/86	M	1255	215	133	196.5	78	14
Fredenhagen (Ted's Swamp)	6/6/86	M	1208.4	195	136	189	82	13
	6/10/86	M	985	180	118.5	177	75	12
Kant (south pond)	6/13/86	F	1462.7	215	141	210	88	?

LEE COUNTY, ILLINOIS - LEE CO. NATURAL AREA GUARDIANS - WILDLIFE CHECKOFF FUNDING

TOTAL 13 - 7 female - 6 male

MIDLAND PAINTED TURTLES

Site found	date	sex	weight	Carapace length	width	Plastron length	Shell depth	age
Wild Rice Pond	6/6/86	J	53.2	69	59	64	28	
Duckweed	6/4/86	J	84.8	84	69	76	33	
Spears (lg. pond)	6/5/86	J	49.5	61	55	57	25	
Kellen	6/3/86	J	86.4	88	70	75	31	
E. Coon Cabin	6/5/86	F	210	119	86	112	38	
Fredenhagen (Pond 1)	6/3/86	M	230.2	122	94	109	44	
Pond 2	6/4/86	M	202.7	114	88	106	41	
	6/5/86	J	85.1	80.2	68	74	31	
Pond 3	6/4/86	M	138.2	98	78	92	38	
Kant	6/12/86	J	83.1	79.8	67.7	75.1	29.9	

LEE COUNTY, ILLINOIS - LEE CO. NATURAL AREA GUARDIANS - WILDLIFE CHECKOFF FUNDING
 TOTAL 10 - 1 female - 3 males - 1 juvenile

WESTERN PAINTED TURTLES

Site found	date	sex	weight	Carapace length	width	Plastron length	Shell depth	age
Buttonbush	6/6/86	M	124.7	102	79	96	36	
	6/6/86	F	149	106	84	99	38	
Spears (sm. pond)	6/13/86	F	306.2	128	94.4	119.3	50.3	
	6/13/86	F	487.2	155	110.1	146	58.2	
	6/13/86	F	569.2	169	121.2	159	60.4	
	6/4/86	J	35.1	60	52	57	25	
	6/11/86	F	547.5	157	82.4	149.2	62.3	
Kellen (East of Coon Cabin)	6/3/86	M	182.7	113	91	105	39	
Water Lily	6/3/86	F	289.2	132	97	123	45	
Fredenhagen (pond 2)	6/3/86	J	100.2	84	73	79	34	
Pond 3	6/4/86	F	194.5	112	87	107	41	
	6/5/86	M	337.9	132	95	121	47	
	6/6/86	M	376.8	151	106	135	50	
	6/6/86	F	199.2	110	83	104	43	
	6/6/86	F	206.5	115	89	111	40	
	6/3/86	F	176.4	108	85	98.52	40	4
	6/3/86	M	393.8	149	110	130.6	52	?
	6/3/86	F	301	136	95	129.52	46	4
	6/3/86	F	442.2	153	109	145.84	55	
	6/3/86	M	237.9	124	94	114	41	
	6/4/86	F	315.9	137	98	123	46	
	6/5/86	F	270.5	127	89	111	42	
	Kant	6/12/86	M	327.4	141.4	101	130.0	51.5
6/12/86		F	206.5	121.4	92	108.2	39.1	
Kellen Coon Cabin	6/3/86	F	333.3	147	108	138	46	

LEE COUNTY, ILLINOIS - LEE CO. NATURAL AREA GUARDIANS - WILDLIFE CHECKOFF FUNDING
 TOTAL 25 - 16 female - 7 male - 2 juvenile

INTERMEDIATE PAINTED TURTLES

Site found	date	sex	weight	Carapace length	Carapace width	Plastron length	Shell depth	age
Buttonbush	6/6/86	M	277.9	130	95	125	45	
Duckweed	6/3/86	F	494.7	153	112	147	59	
Road	6/10/86	F	447.9	151	107.5	142.7	51.6	
Spears	6/3/86	F	154.9	125	93	1127	42	
(sm. pond)	6/4/86	M	386.9	143	106	137	52	
	6/13/86	F	536.3	162	117.1	151.2	57	
(lg. pond)	6/3/86	F	329.1	136	97	130	47	
Zimmerly	6/11/86	F	493.3	161	117	149	55	
	6/11/86	F	486.7	162	115	149	51	
(East)	6/13/86	F	411.1	150.3	109.3	137	51.2	
Kellen	6/3/86	M	235	126	91	115	43	
(Coon Cabin)	6/4/86	F	375	149	101	132	59	
	6/4/86	J	80.9	81	65	76	32	
East of Coon Cabin	6/3/86	J	107.1	95	81	91	37	
	6/3/86	F	169.2	113	86	108	38	
	6/3/86	M	275.2	128	98	121	46	
	6/3/86	M	214.1	123	87	117	40	
Water Lily Pond	6/3/86	M	415.9	150	107	139	53	
Fredenhagen (pond 2)	6/5/86	M	312.7	136	98	124	45	
(pond 3)	6/3/86	F	450.8	154	105	147	53	
	6/3/86	F	283.2	121	95	118	44	
	6/5/86	M	480.2	152	110	144	52	
	6/6/86	M	529.3	155	113	142	62	
	6/6/86	F	594.7	163	118	152	70	
(pond 4)	6/3/86	F	140.6	101.15	82.41	91.99	35	3
	6/3/86	F	279.2	132	96	122	49	6
	6/3/86	F	260.6	126	94	212	45	5

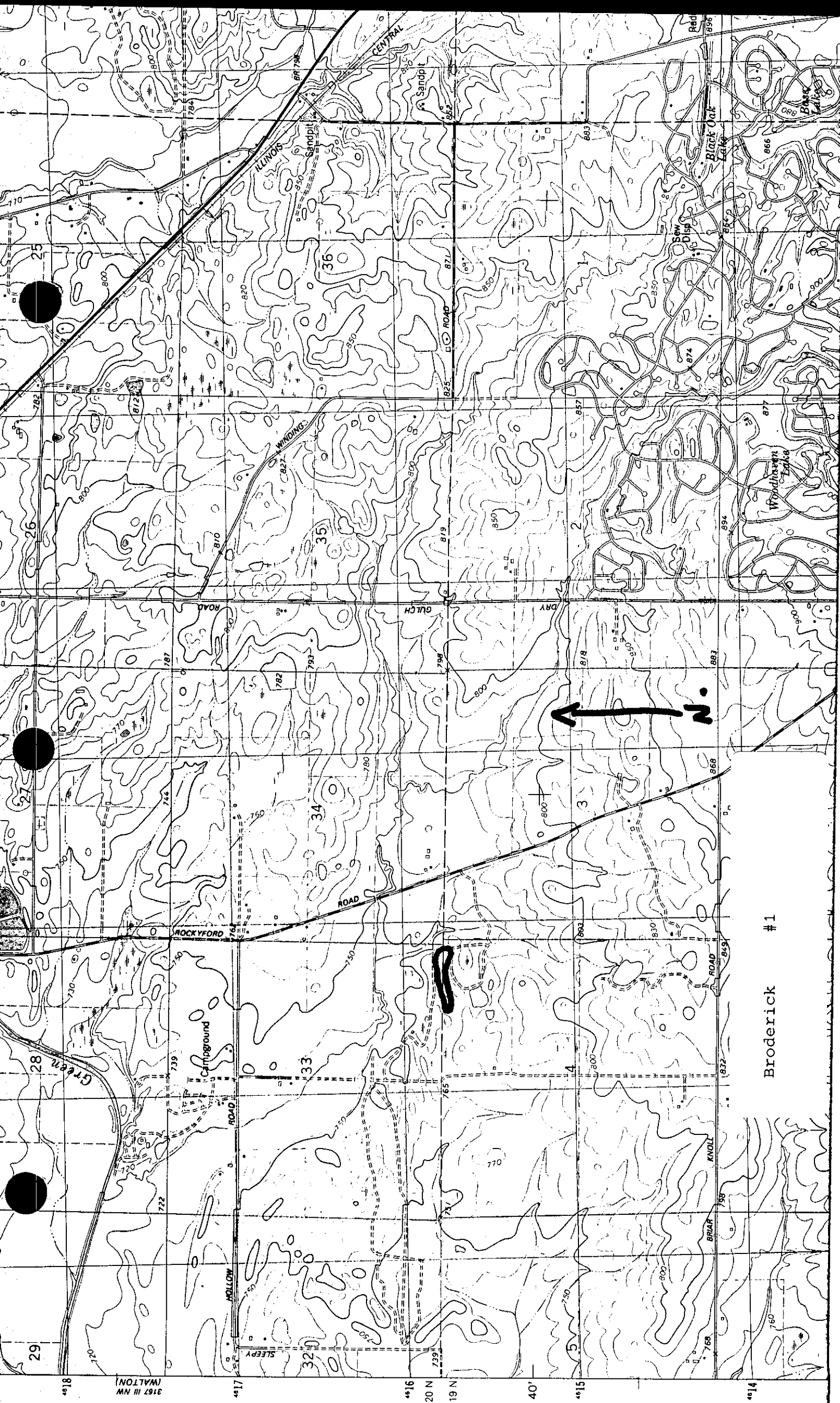
INTERMEDIATE PAINTED CON'T.

-2-

6/3/86	F	141.9	103	77	93.84	37	4
6/3/86	F	171.2	110	80	102.98	42	5
6/3/86	M	223.1	122	87	113.34	42	?
6/3/86	M	218.6	120	92	108	41	
6/3/86	F	153.7	102	80	94	39	
6/3/86	F	178.3	112	87	103	39	
6/4/86	F	164	107	82	100	38	
6/5/86	M	204	111	88	104	37	
Kant (south)							
6/12/86	J	82.5	78.5	65.8	73.2	33.4	
6/12/86	F	192.3	133.4	98.6	122	43.5	
6/12/86	F	299.15	135.7	90.4	124.9	48	
6/13/86	F	297.5	127.7	97.4	118.9	47.8	

LEE COUNTY, ILLINOIS - LEE CO. NATURAL AREA GUARDIANS - WILDLIFE CHECKOFF FUNDING

TOTAL 39 - 24 female - 12 male - 3 juvenile



Broderick #1

3161 III NW
WALTON MN 55117

NOT TO SCALE
K-5-2-84-40

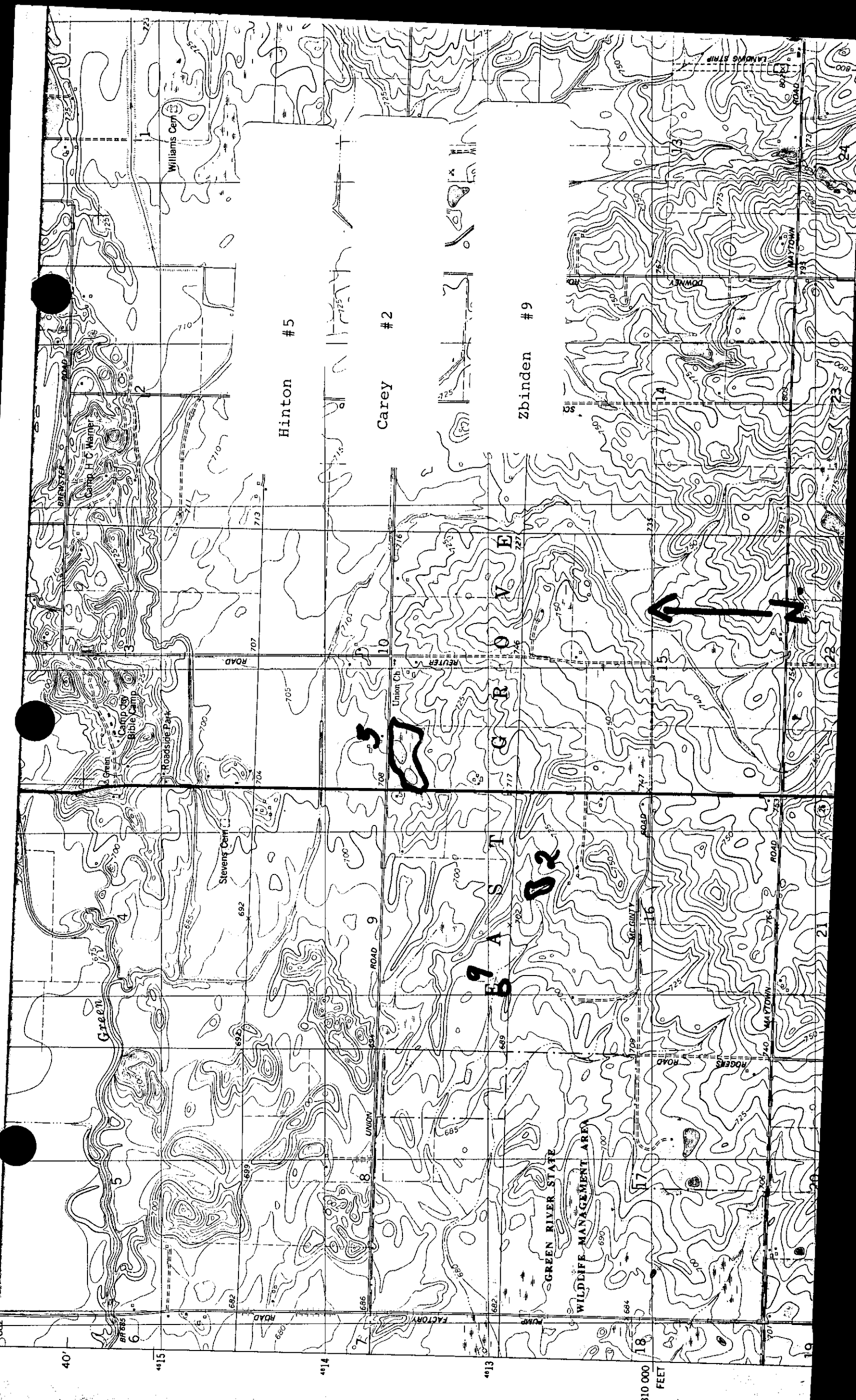
Wm. & Doris Carey
377 Ill. Rt. 26 #2
Amboy, IL 61310

Frederick Zbinden
RR #5. Box 563 #9
Dixon, IL 61021

NOT TO SCALE

J-5-3-84-50

Rose Hinton
Ill. Rt. 26
Amboy, IL 61310
#5



Williams Camp

Hinton #5

Carey #2

Zbinden #9



9 B A S T 02

GREEN RIVER STATE
WILDLIFE MANAGEMENT AREA

GREEN RIVER STATE
WILDLIFE MANAGEMENT AREA

110 000
FEET

Green

Stevens Cent

ROAD 9

Union Ch

GREEN RIVER STATE

GREEN RIVER STATE
WILDLIFE MANAGEMENT AREA

ROGERS ROAD

ROAD 16

ROAD

ROAD

ROAD

40'

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414

413

18

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(Joins sheet 86)



Carey #2



Hinton #5

(Joins sheet 87) T. 19 N. 1 820 000 FEET

(Joins sheet 96)

685 000 FEET

N.

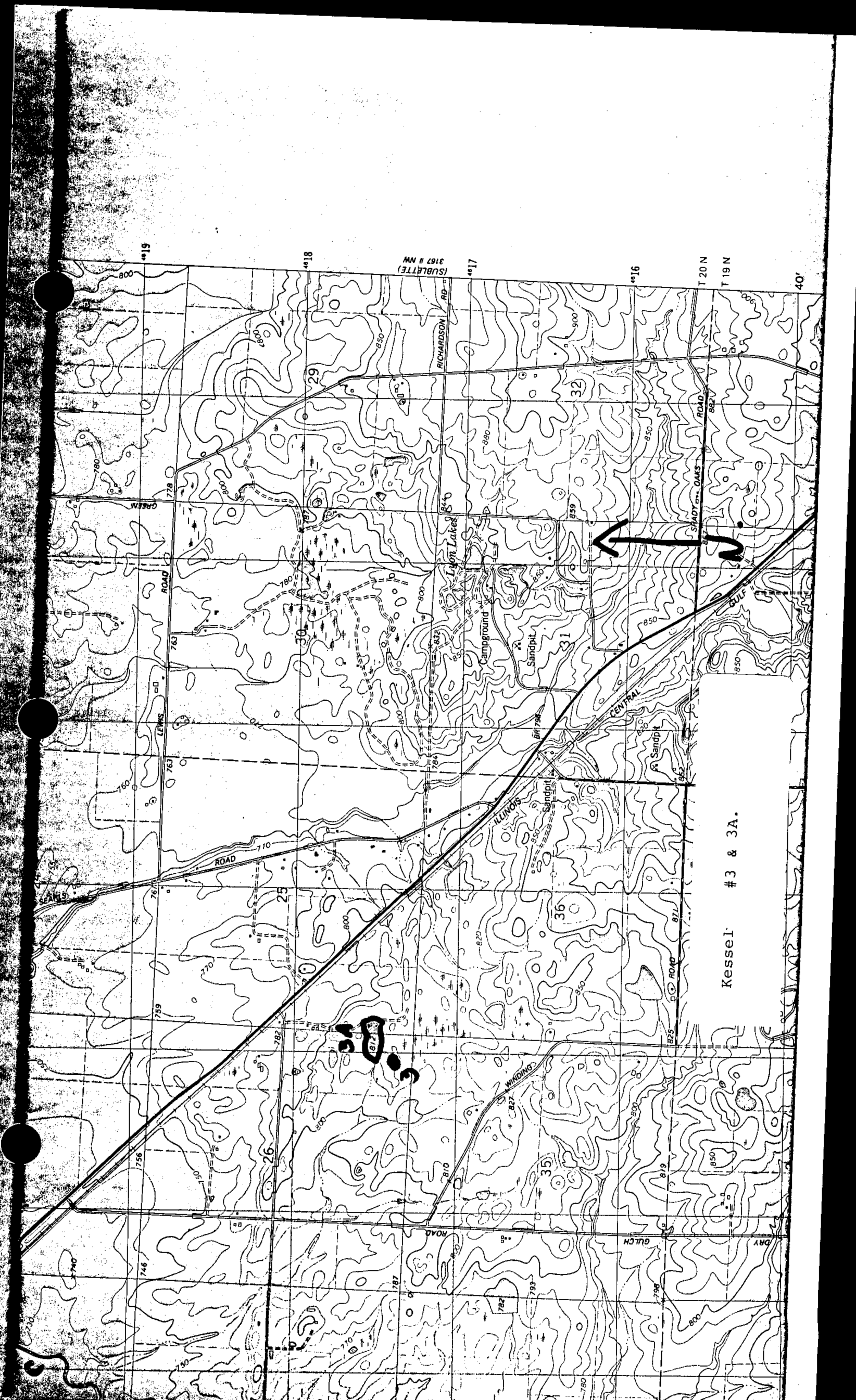
Zbinden #9

owner:
Jerry Guanci
RR #2 B
Amboy, IL 61310

Delbert Kessel
RR #2
Amboy, IL 61310

#3 & 3A.

DOT
I-9-3-84-00



(SUBLETTE)
3167 N NM

19

18

17

16

T 20 N

T 19 N

40'

RICHARDSON RD

SHADY OAKS ROAD

TRIGON LAKES

CAMPGROUND

SANDPIT

SANDPIT

SANDPIT

SANDPIT

LEWIS RD

LEWIS RD

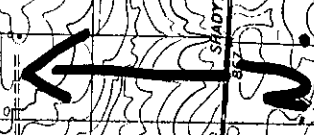
ROAD

QUILCH

DAY

Kessel #3 & 3A.

25
26
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36
37

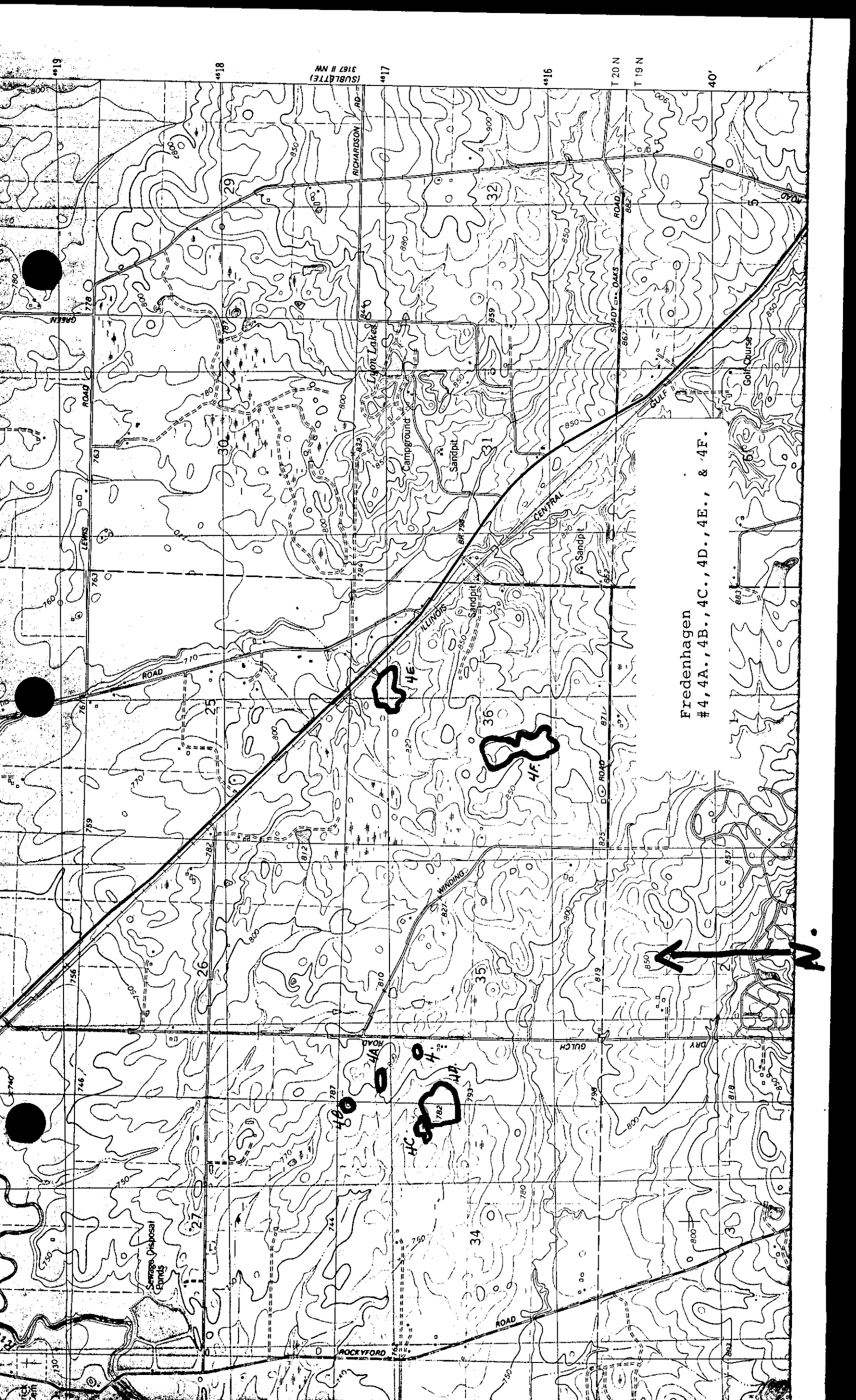


4A.

4B.

W. S. Fredenhagen, Jr.
324 S. Washington
Naperville, IL 60540

#4, 4A.,
4B., 4C.,
4D., 4E.,
4F.



Fredenhagen
#4, 4A, 4B, 4C, 4D, 4E, & 4F.



Fredenhagen
#4, 4A., 4B., 4C., 4D., 4E., & 4F.

(Joins sheet 88)

1735 000 FEET

1740 000 FEET

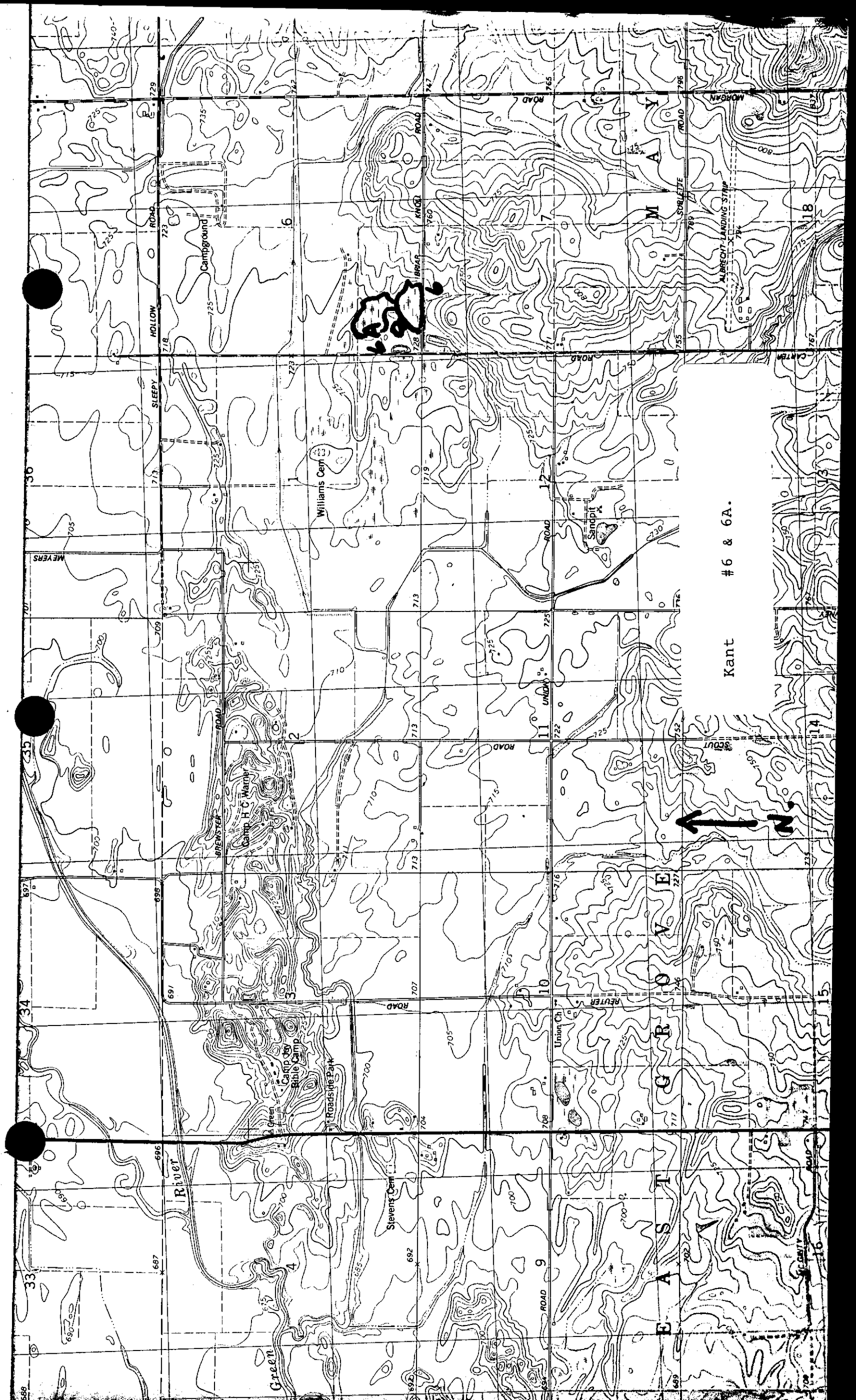
(Joins sheet 89)

NOT TO SCALE

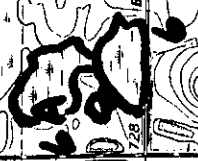
J-7-3-84-30

Wm. & Lillie Kant
304 W. Main St.
Amboy, IL 61310

#6 & 6A.

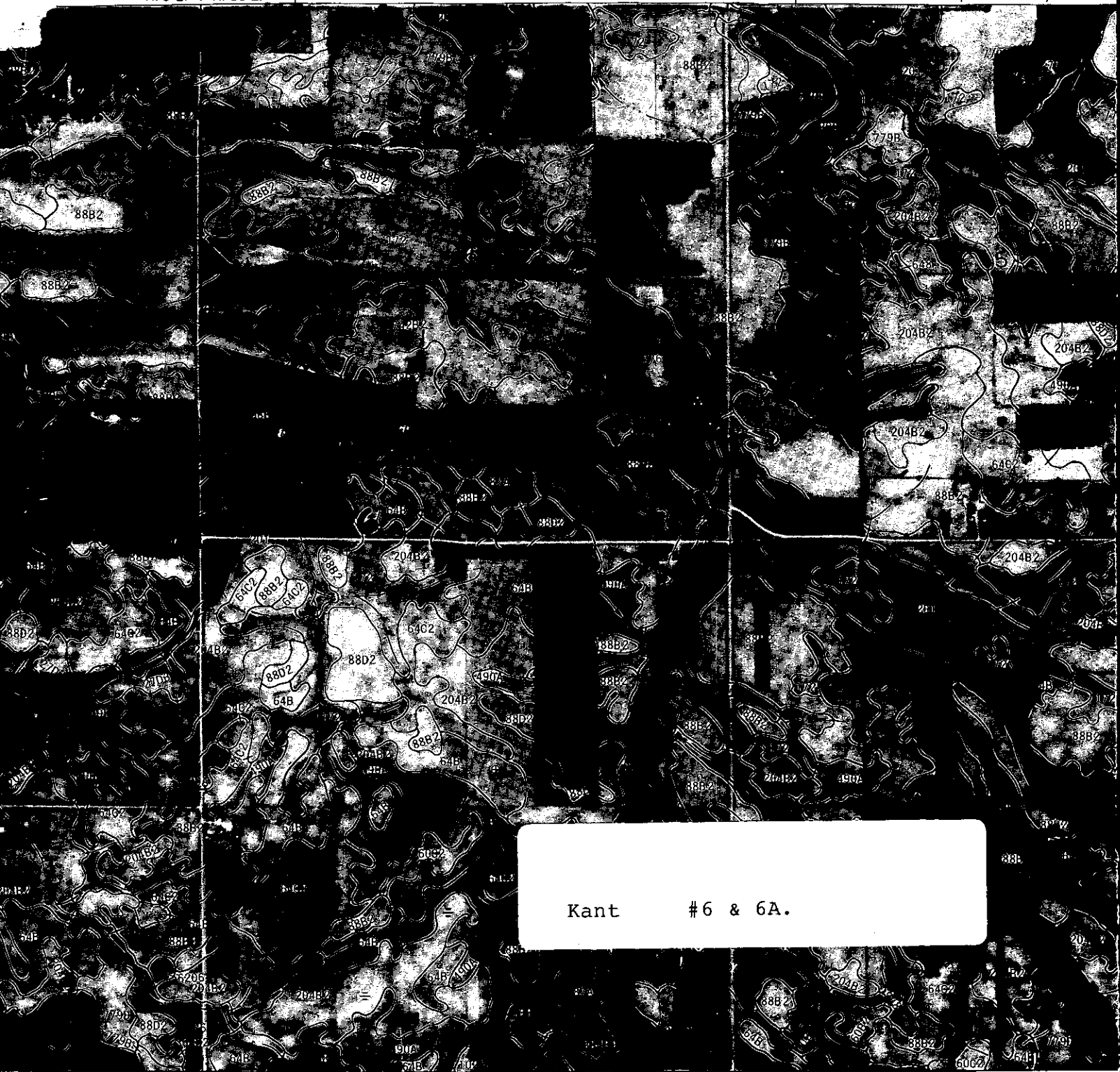


Kant #6 & 6A.



R. 9 E. | R. 10 E.

(Joins sheet 76)



Kant #6 & 6A.

88B2

715 000 FEET

(Joins sheet 97)



ILLINOIS MUD TURTLE SURVEY

Site Name: Kant Pond - South #6

Investigators: Osmer, Johnston

Sheet 1 of

Location: Twp. T 19N. - R 10E

SW 1/4 SW 1/4 Sec. 6

Survey Dates: 6/2-13/86

Species	ID #	Capture Date	Sex	Weight (Grams)	Carapace (MM)		Plastron Length	Shell Depth	Age Measurements (MM)												
					Length	Width			1	2	3	4	5	6	7	8	9	10	11	12	
Blanding's	L-1	6/10/86	M	985.0	180.0	118.5	177.0	75.0	1.3	2.6	3.8	5.4	7.5	9.6	11.8	14.9	17.9	21.2	23.1	24.7	
Painted (Intermediate)	L-1	6/12/86	J	82.5	78.5	65.8	73.2	33.4													
Painted (Western)	L-2	6/12/86	M	327.4	141.4	101	130.9	51.5													
Painted (Western)	L-3	6/12/86	F	206.5	121.4	92.0	108.2	39.1													
Painted (Intermediate)	L-4	6/12/86	F	192.3	133.4	98.6	122	43.5													
Painted (Intermediate)	L-5	6/12/86	F	299.15	135.7	90.4	124.9	48													
Painted (Midland)	L-6	6/12/86	J	83.1	79.8	67.7	75.1	29.9													
Blanding's	L-2	6/13/86	F	1462.7	215.0	141.0	210.0	88.0													
Painted (Intermediate)	L-7	6/13/86	F	297.5	127.7	97.4	118.9	47.8													

Trap type Trap nights

Water Temp (Daily am/pm)	<u>71</u>																				
Air Temp (Daily hi/low)																					
Precipitation (Amt./Date)																					

Notes:

ILLINOIS MUD TURTLE SURVEY

Site: Kant Pond - South #6 County: Lee

Locality: Twp. T 19N. - R 10E. SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 6

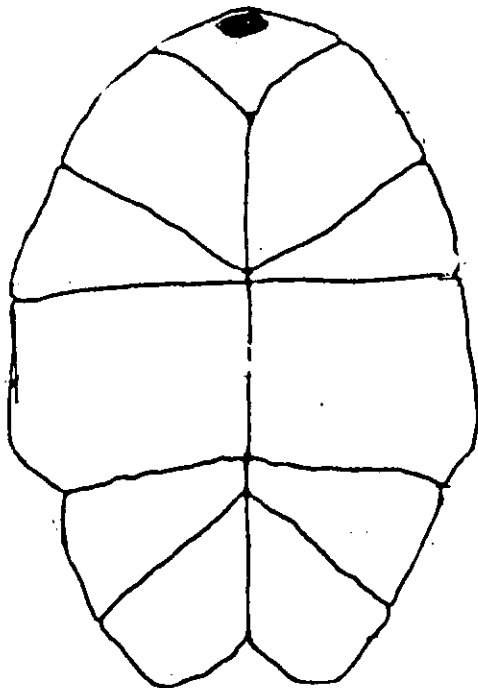
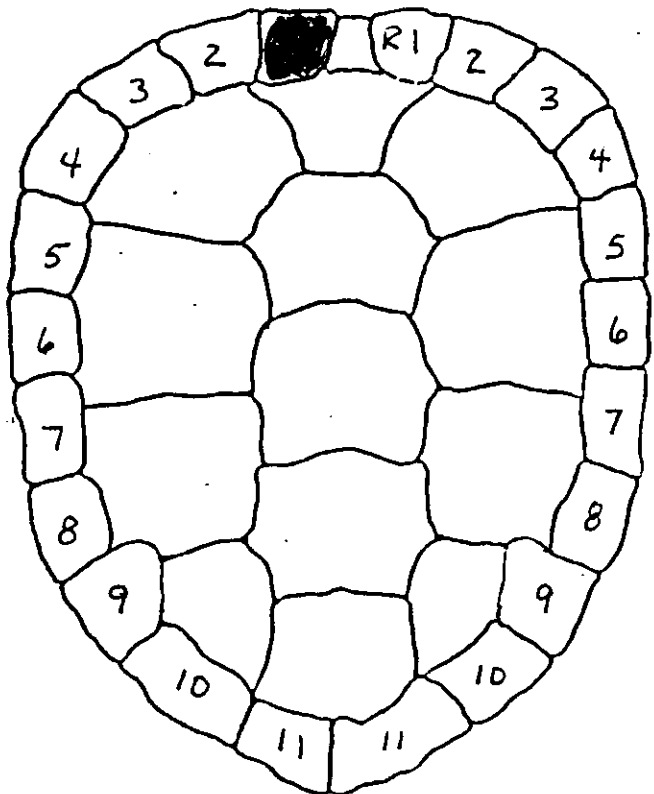
Investigators: Osmer, Johnston

Species: Blanding's

I.D. # L-1 Sex: F (M) J Capture Date: 6/10/86

Carapace (MM) Length 180 Width 118.5

Weight (Grams) 985 Plastron Length 177 Shell Depth 75



Age Measurements (MM)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.3	2.6	3.8	5.4	7.5	9.6	11.8	14.9	17.9	21.2	23.1	24.7				

NOTES: 1 1/2 of tail has been removed

ILLINOIS MUD TURTLE SURVEY

Site: Kant Pond - South #6 County: Lee

Locality: Twp. T 19N. - R 10E. SW 1/4 SW 1/4 Sec. 6

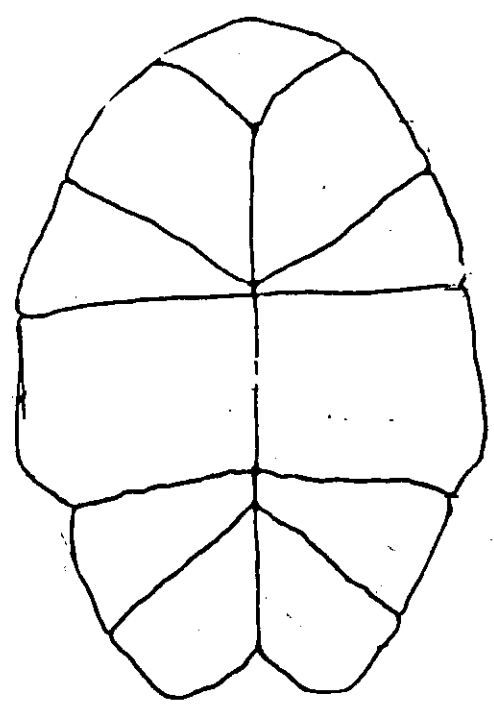
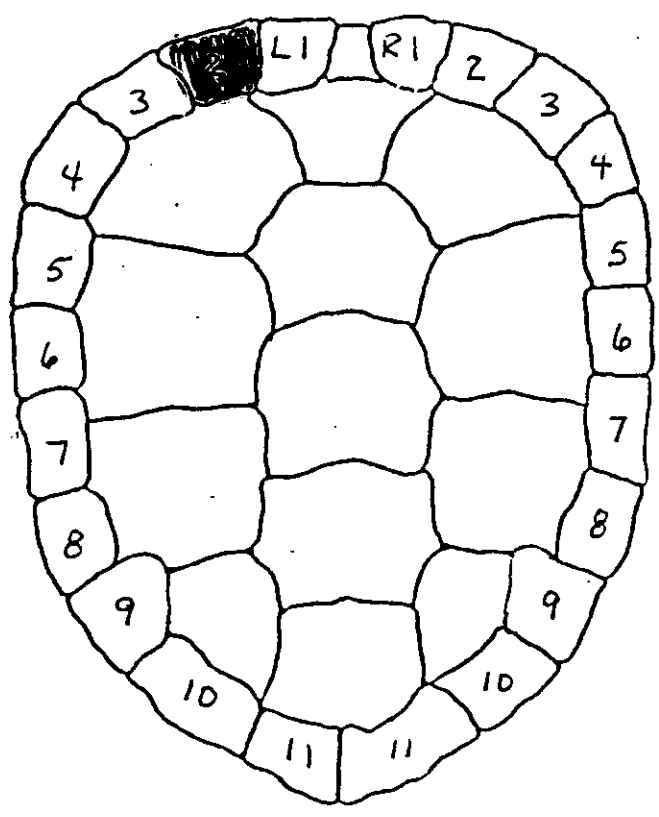
Investigators: Osmer, Johnston

Species: Blanding's

L.D. # L-2 Sex: F M J Capture Date: 6/13/86

Carapace (MM) Length 215.0 Width 141.0

Weight (Grams) 1462.7 Plastron Length 210.0 Shell Depth 88.0



Age Measurements (MM)

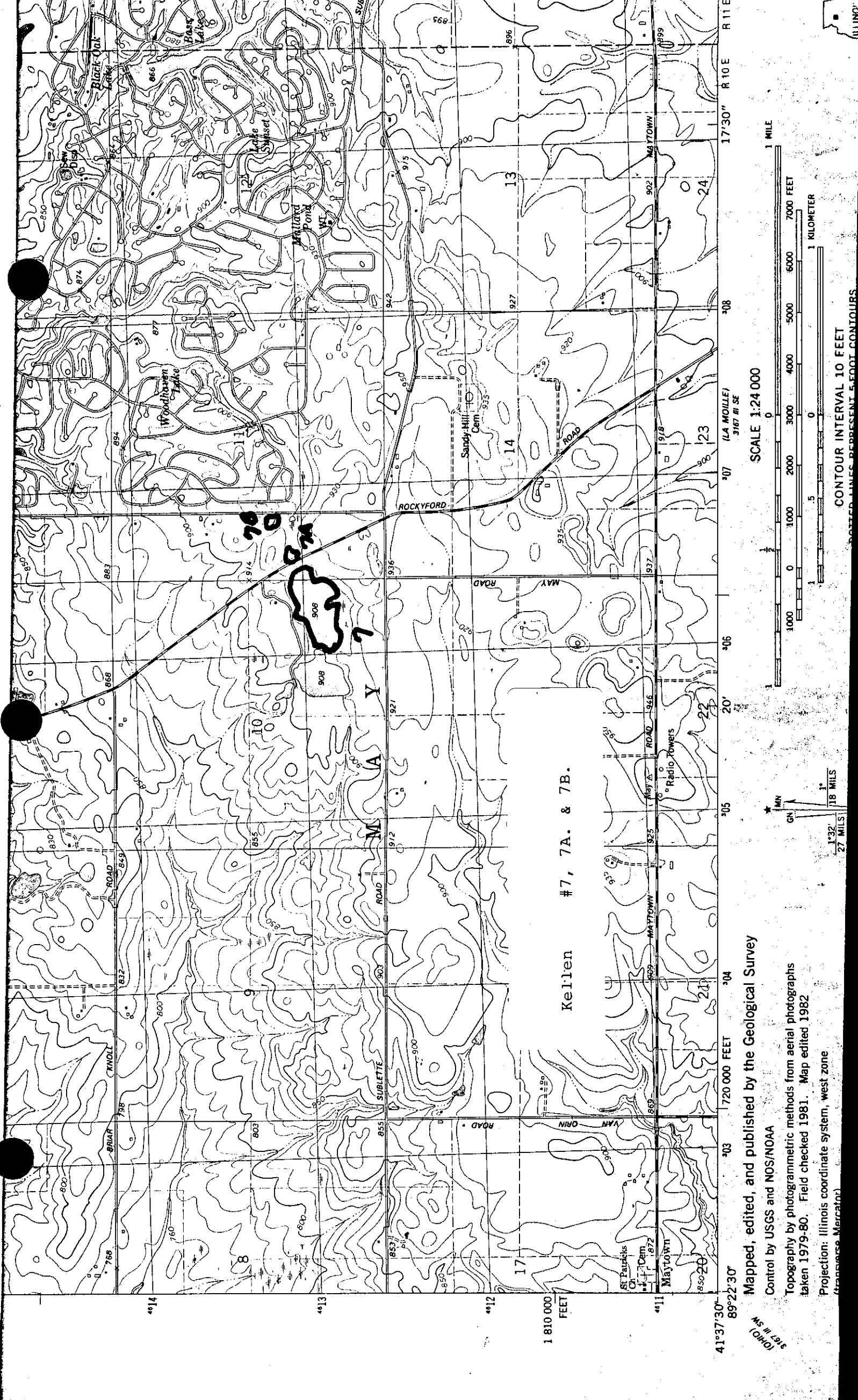
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

NOTES: Edge of rear scutes ragged & broken

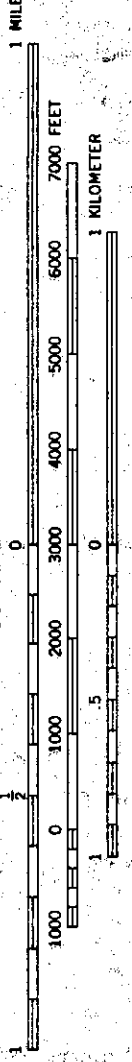
Too worn to count age measurement

John Kellen
108 Third Street #7,7A.,7B.
Sublette, IL 61367

owner:
Kim A. Schmitt
8504 Concord Drive
Woodstock, IL 60098



SCALE 1:24 000



CONTOUR INTERVAL 10 FEET
 DOTTED LINES REPRESENT 5-FOOT CONTOURS

Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1979-80. Field checked 1981. Map edited 1982

Projection: Illinois coordinate system, west zone (transverse Mercator)

1 MILE
 1 KILOMETER

1:24 000

1 MILE
 1 KILOMETER

CONTOUR INTERVAL 10 FEET
 DOTTED LINES REPRESENT 5-FOOT CONTOURS

LEE COUNTY, ILLINOIS NO. 88

This map is compiled on 1976 aerial photography by the U. S. Department of Agriculture, Soil Conservation Service and cooperating agencies. Coordinate grid ticks and land division corners, if shown, are approximately positioned.



735 000 FEET

R. 10 E.

200

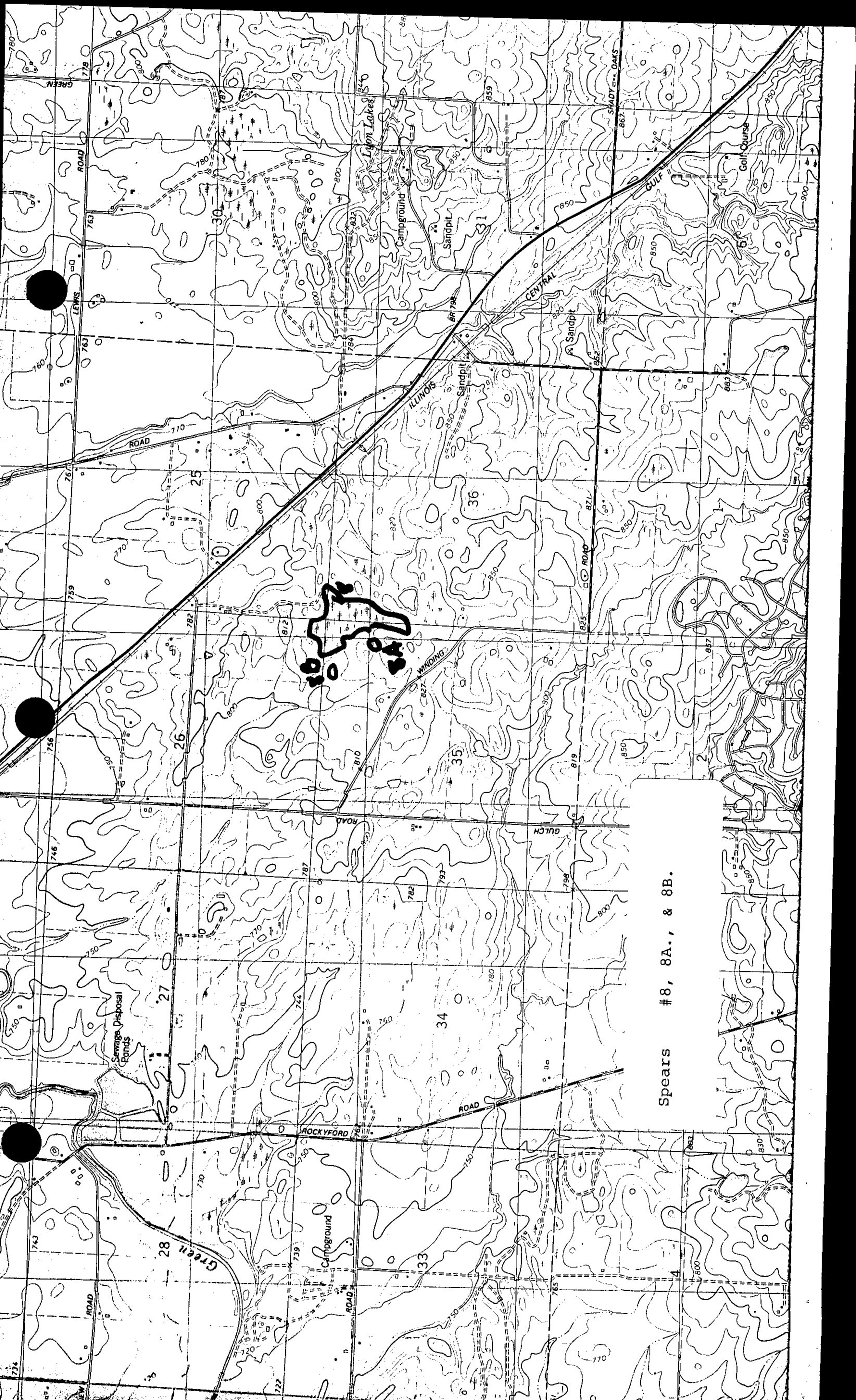
T. 19 N. 1 820 000 FEET

(Joins sheet 89)

Kellen #7, 7A. & B.

NOT TO SCALE
Z-9-3-84-50

Marvin Spears
#8, 8A., & 8B.
1668 Winding Road
Amboy, IL 61310



Spears #8, 8A., & 8B.

ILLINOIS MUD TURTLE SURVEY

Site: Spear - Large pond #8 County: Lee

Locality: _____

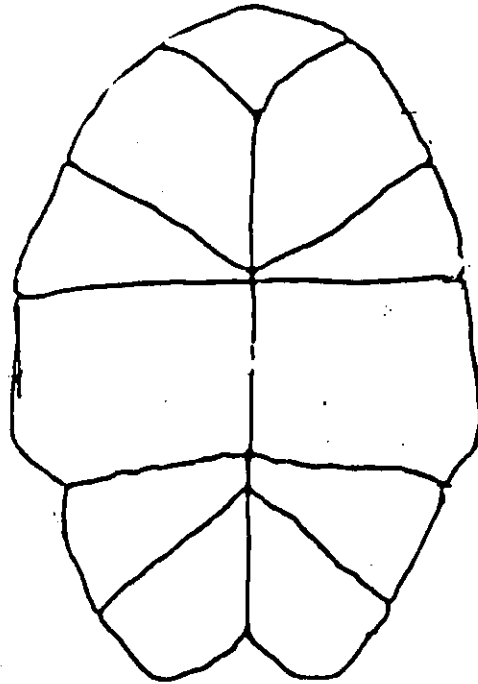
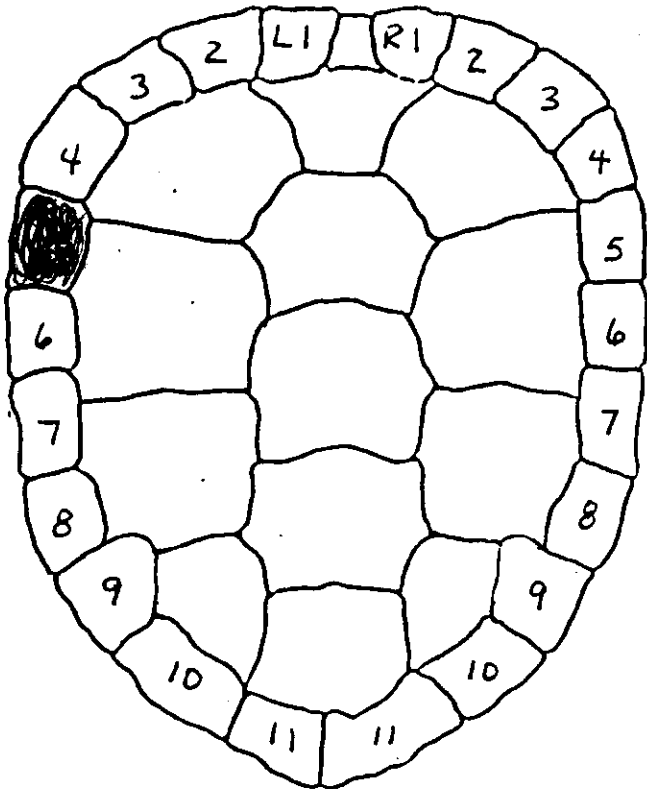
Investigators: _____

Species: Blanding's

LD. # L-5 Sex: F **M** J Capture Date: 6/11/86

Carapace (MM) Length 199 Width 102.4

Weight (Grams) 1106.2 Plastron Length 187 Shell Depth 72.4



Age Measurements (MM)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.62	3.04	5.08	6.98	7.36	9.28	11.62	13.16	16.18	19.04	22.64	24.58	29.02	33.96	38.84	

NOTES: _____

ILLINOIS MUD TURTLE SURVEY

Site: Spears (Tiny) #8A. County: Lee

Locality: _____

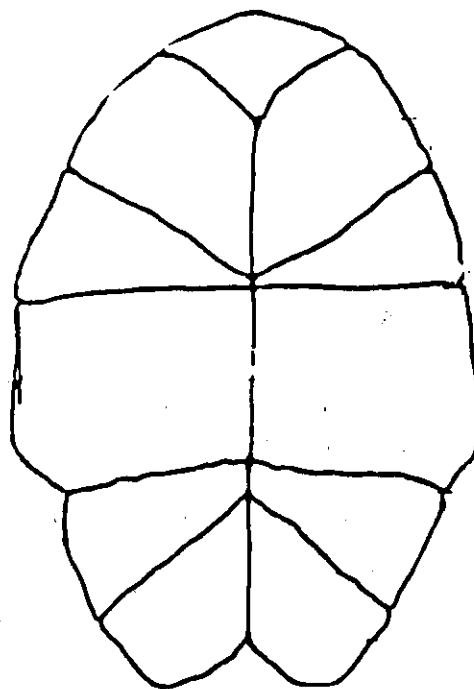
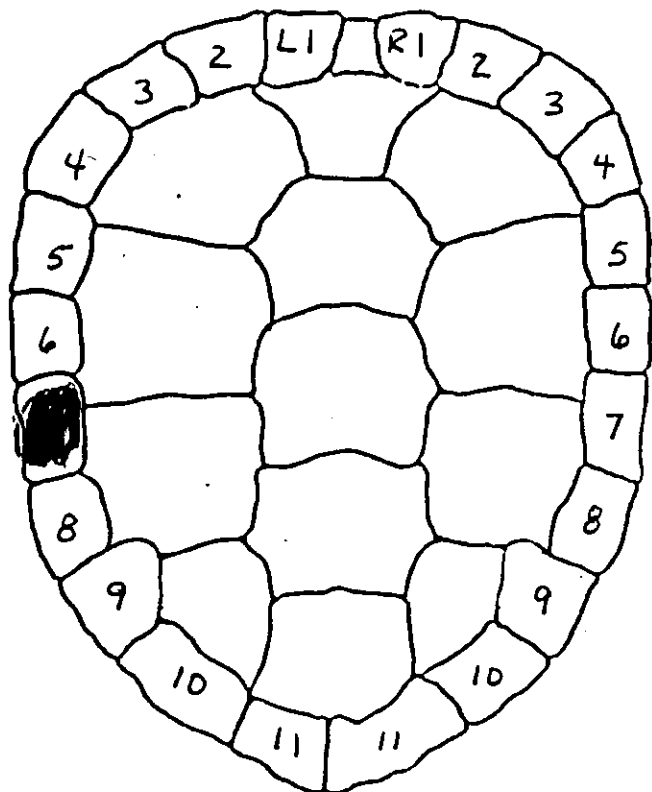
Investigators: Townsend, Glass, Johnston

Species: Blanding's

I.D. # L-7 Sex: (F) M J Capture Date: 6/13/86

Carapace (MM) Length 185.0 Width 124.1

Weight (Grams) 944.3 Plastron Length 175.0 Shell Depth 77.3



Age Measurements (MM)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
3.76	5.96	7.65	9.94	12.3	13.91	15.21	19.5	25.8	27.32	33.23					

NOTES: No tail (very short - bitten off)

ILLINOIS MUD TURTLE SURVEY

Site: Spear - Small pond #8B. County: Lee

Locality: Twp. T 20N. - R 10E. NE 1/4 NE 1/4 Sec. 35

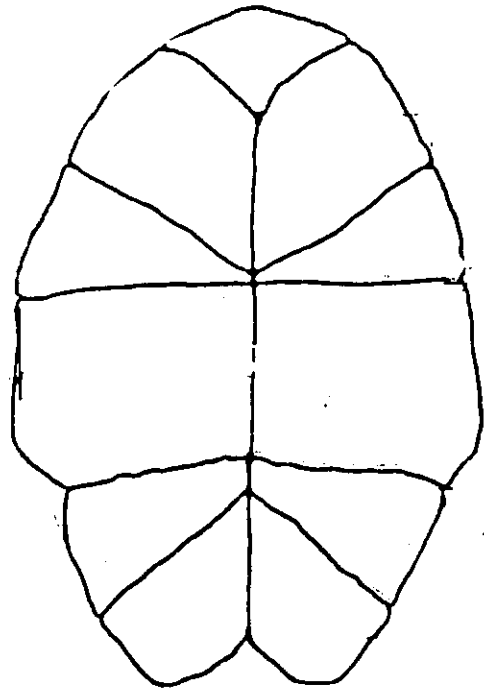
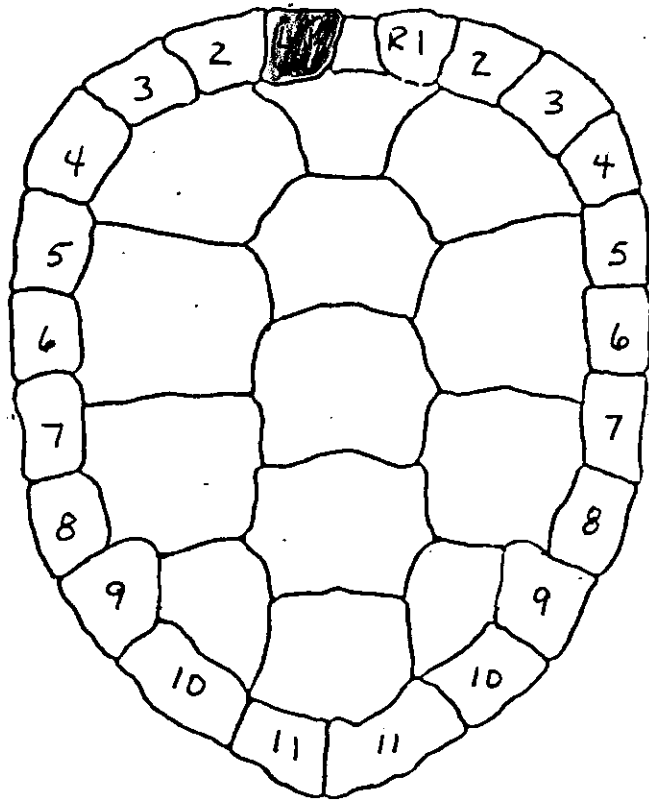
Investigators: _____

Species: Blanding's

I.D. # L-1 Sex: (F) M J Capture Date: 6/3/86

Carapace (MM) Length 207 Width 141

Weight (Grams) 1330 Plastron Length 193 Shell Depth 88



Age Measurements (MM)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.4	2.9	3.7	7.9	10.8	15.0	19.8	21.9	28.2							

NOTES: _____

ILLINOIS MUD TURTLE SURVEY

Site: Spears - Small pond #8B. County: Lee

Locality: Twp. T 20N.- R 10E. NE 1/4 NE 1/4 Sec. 35

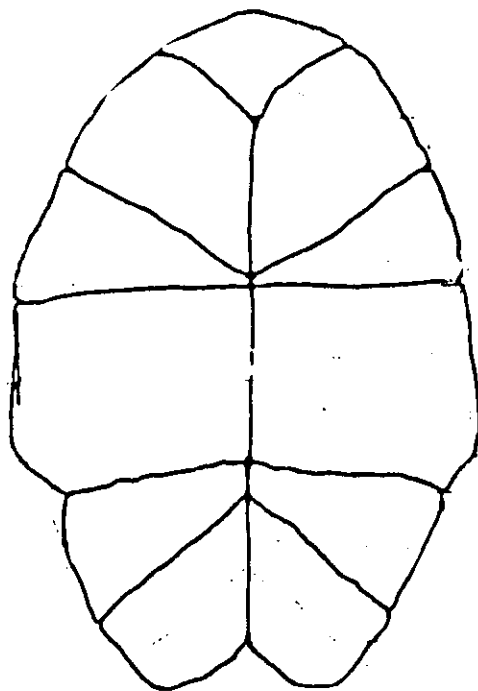
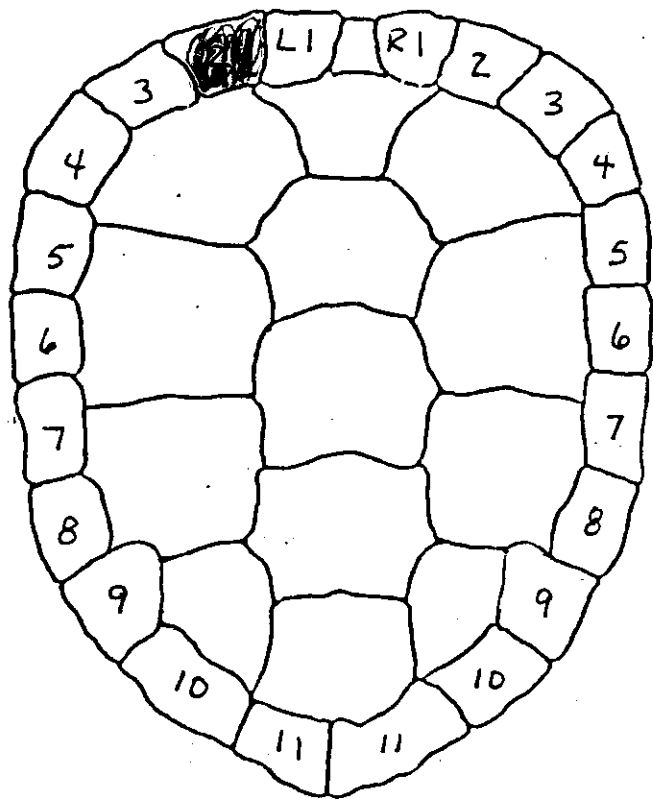
Investigators: _____

Species: Blanding's

I.D. # L-2 Sex: (F) M J Capture Date: 6/3/86

Carapace (MM) Length 202 Width 132

Weight (Grams) 1251.5 Plastron Length 189 Shell Depth 92



Age Measurements (MM)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.14	4.68	7.66	10.32	13.70	17.18	24.4	26.0	29.52							

NOTES: 1 inch of tail missing

ILLINOIS MUD TURTLE SURVEY

Site: Spear - Small pond #8B. County: Lee

Locality: Twp. T 20N. - R 10E. NE 1/4 NE 1/4 Sec. 35

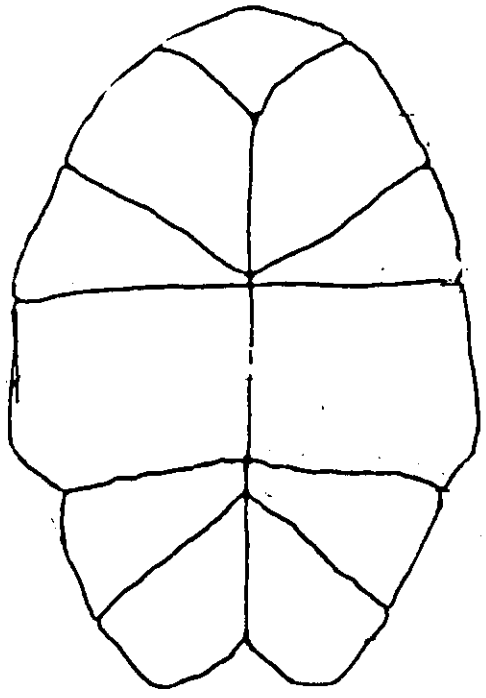
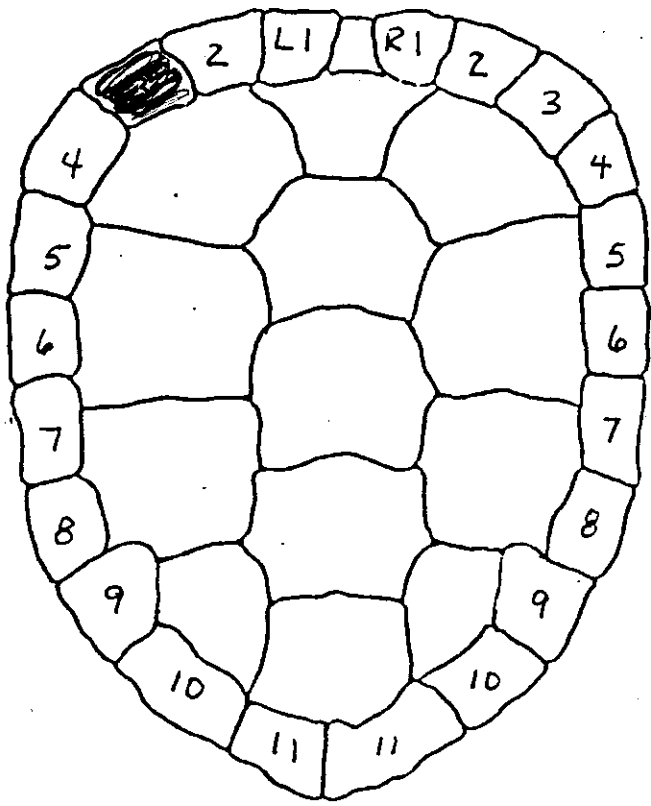
Investigators: _____

Species: Blanding's

LD. # L-3 Sex: F M J Capture Date: 6/4/86

Carapace (MM) Length 126 Width 88

Weight (Grams) 290.1 Plastron Length 127 Shell Depth 50



Age Measurements (MM)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.4	2.48	3.64	4.78	5.68	7.76	10.76	13.2	15.46	16.82	19.2	20.28				

NOTES: _____

ILLINOIS MUD TURTLE SURVEY

Site: Spears (Small pond) caught by owner #8B. County: Lee

Locality: Twp. T 20N - R 10E NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 35

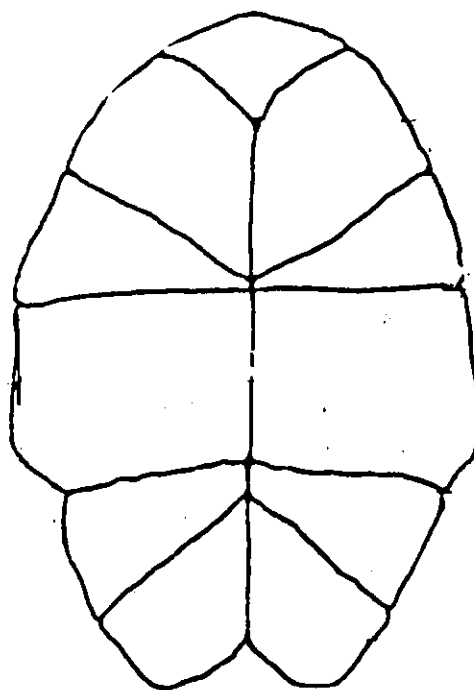
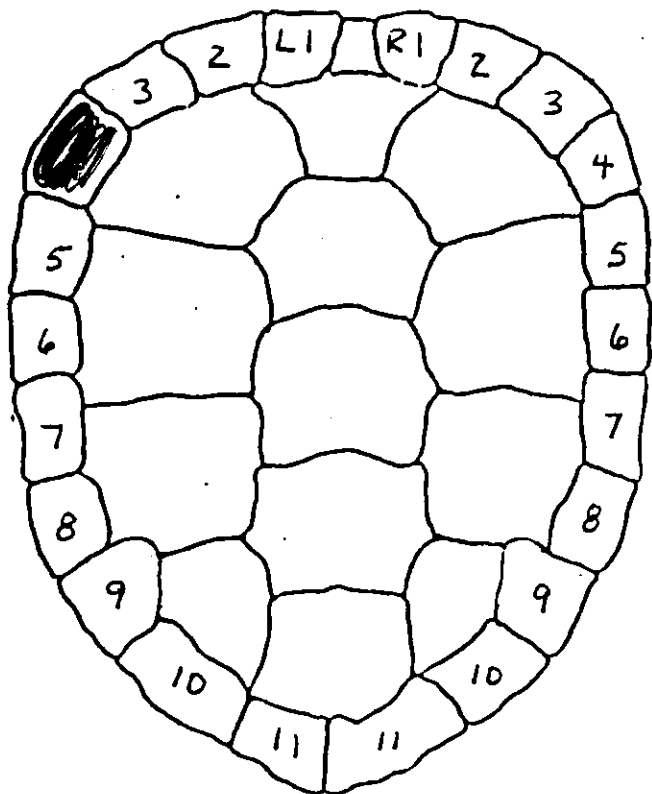
Investigators: _____

Species: Blanding's

LD. # L-4 Sex: (F) M J Capture Date: 6/10/86

Carapace (MM) Length 193 Width 125

Weight (Grams) 984.7 Plastron Length 187 Shell Depth 74.5



Age Measurements (MM)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.32	3.74	6.0	8.24	10.82	13.62	14.68	18.34	20.44	23.3	25.6	29.7	35.0	39.2		

NOTES: _____

ILLINOIS MUD TURTLE SURVEY

Site: Spears (Small pond) #8B. **County:** Lee

Locality: Twp. T 20N - R 10E NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 35

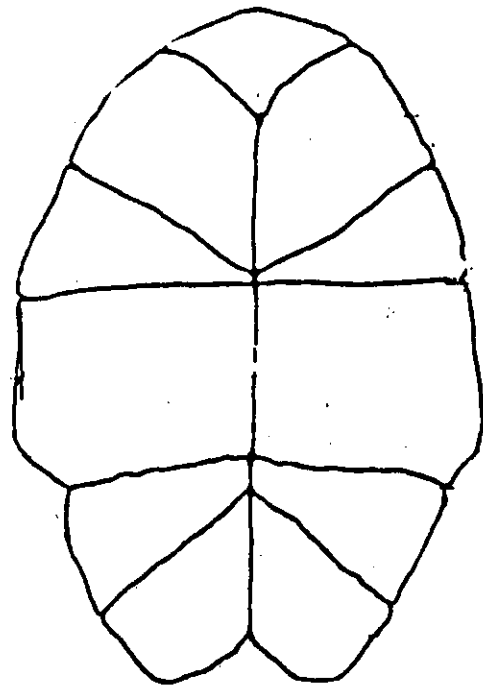
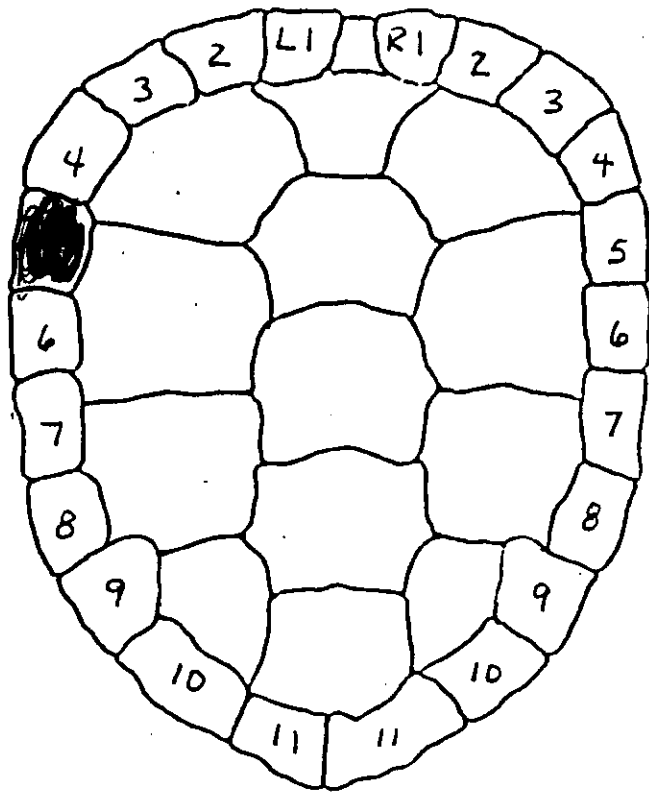
Investigators: Glass, Townsend, Osmer, Jarrard, Harty, Johnston

Species: Blanding's

L.D. # L-5 **Sex:** F M J **Capture Date:** 6/12/86

Carapace (MM) Length 131.6 **Width** 92.4

Weight (Grams) 280.6 **Plastron Length** 122.2 **Shell Depth** 55.46



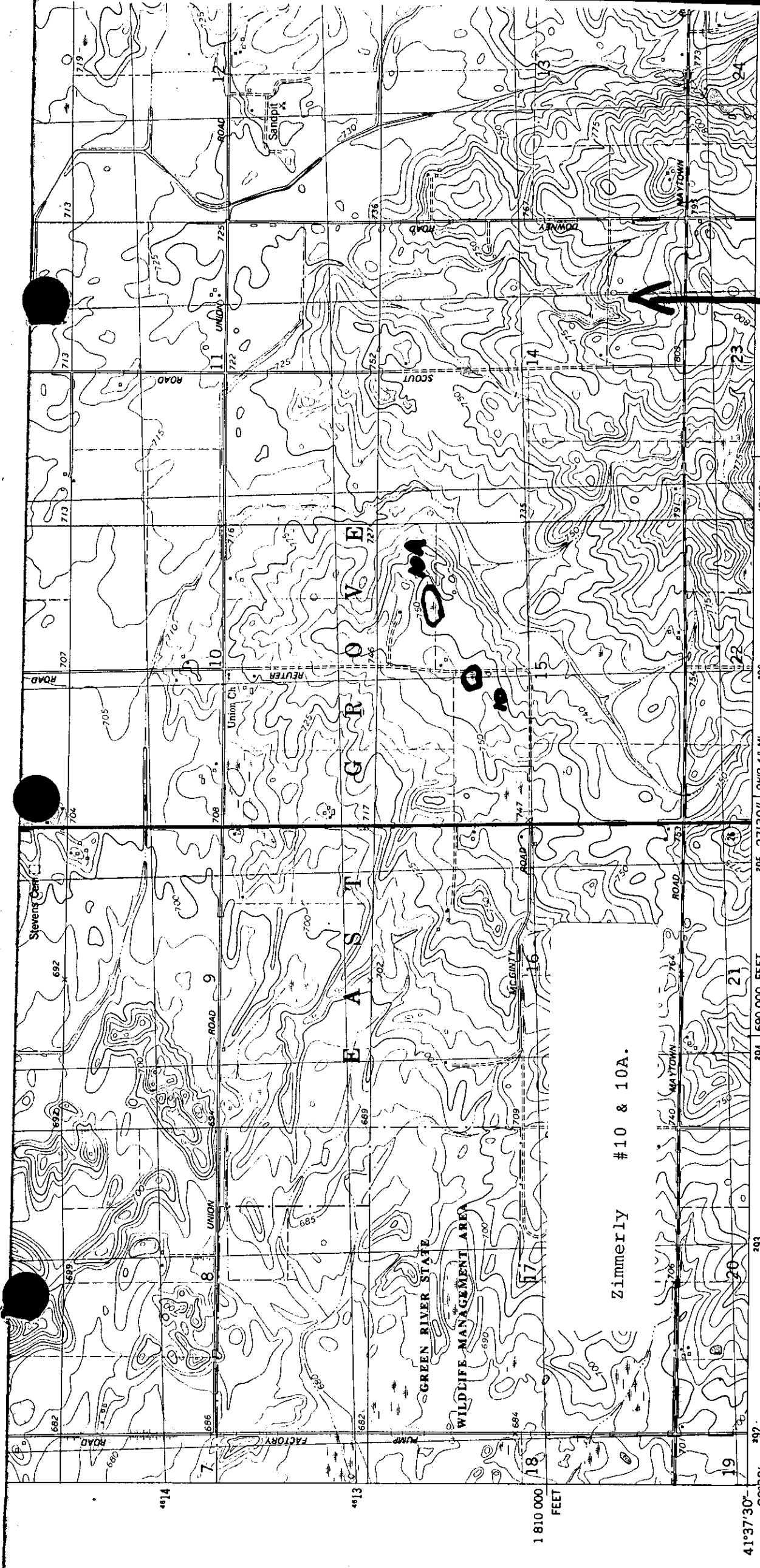
Age Measurements (MM)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
2.76	3.3	5.0	7.86	10.78	12.96	16.2	20.28								

NOTES:

R-6-1-54-3

Daryl Zimmerly
Ill. Rt. 26
Amboy, IL 61310
#10 & 10A.



Mapped, edited, and published by the Geological Survey
 Control by USGS and NOS/NOAA
 Topography by photogrammetric methods from aerial photographs
 taken 1979. Field checked 1981. Map edited 1982
 Projection and 10,000-foot grid ticks: Illinois coordinate
 system, west zone (transverse Mercator)
 1000-meter Universal Transverse Mercator grid, zone 16
 1927 North American Datum
 To place on the predicted North American Datum 1983
 move the projection lines 2 meters north and

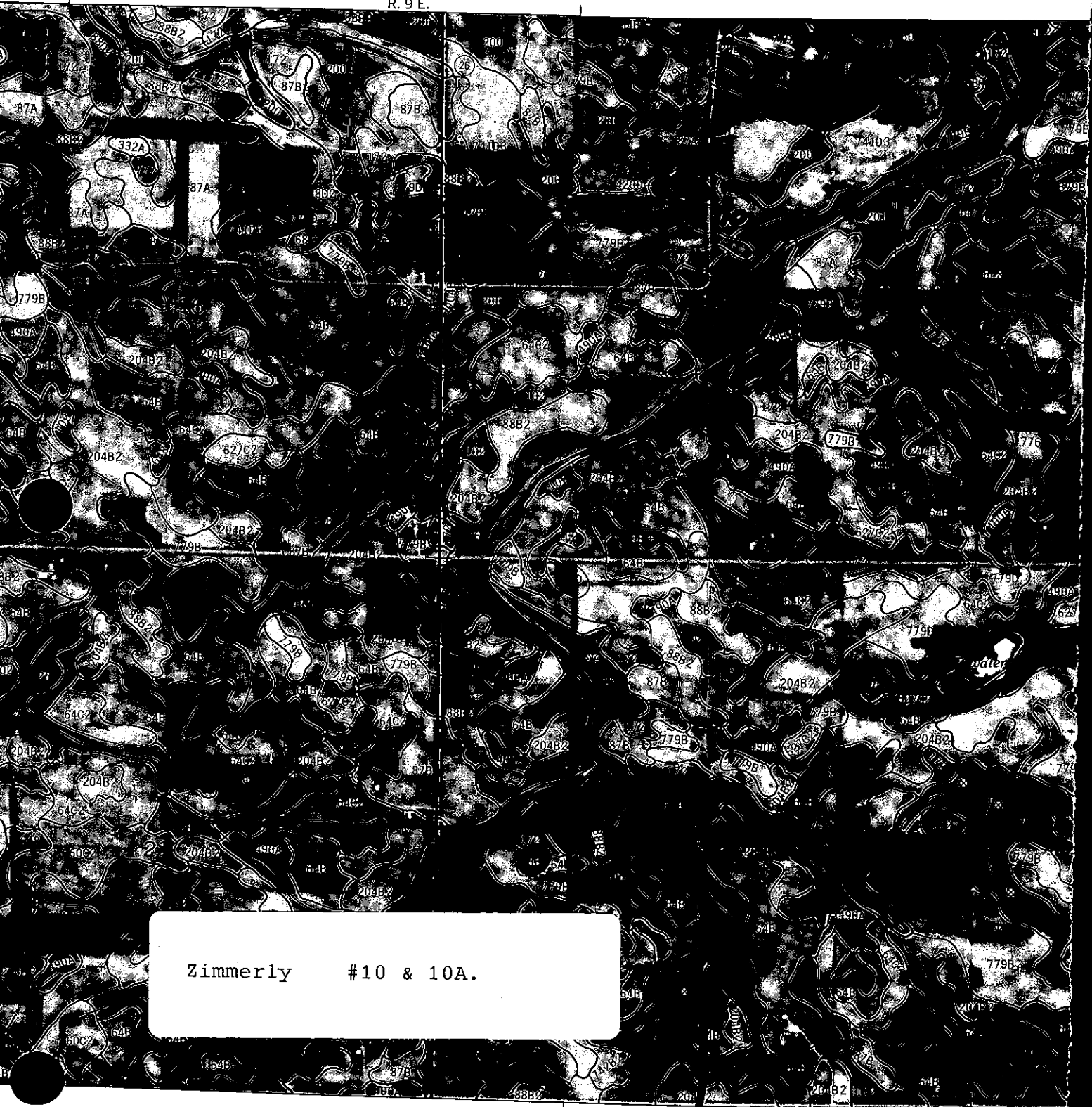
1 MILE
 1 KILOMETER
 SCALE 1:24 000
 1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
 1 0 1 2 3 4 5 KILOMETER

1 W
 27 MILS
 1 W
 29 MILS
 GN
 MN
 UTM GRID AND 1982 MAGNETIC NORTH
 DECLINATION AT CENTER OF SHEET

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
 SURVEY SECTION, VIRGINIA, 22002

ILLINOIS

R. 9 E.



Zimmerly #10 & 10A.

N.

ILLINOIS MUD TURTLE SURVEY

Site: Zimmerly #10 County: Lee

Locality: East Grove Twp. T 19N - R 9E SE 1/4 NW 1/4 Sec. 15

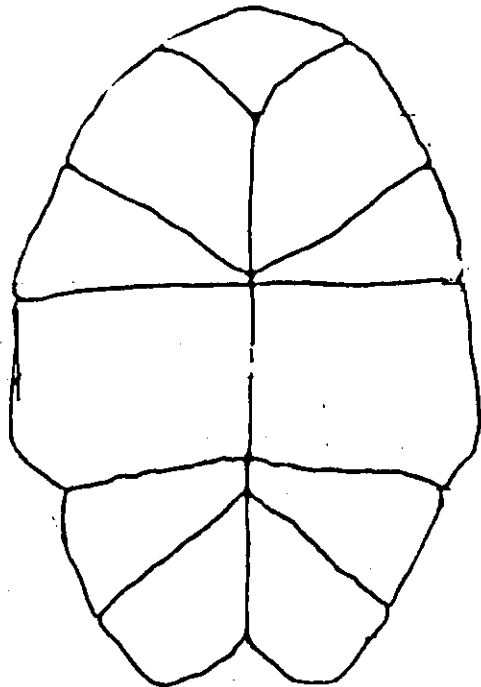
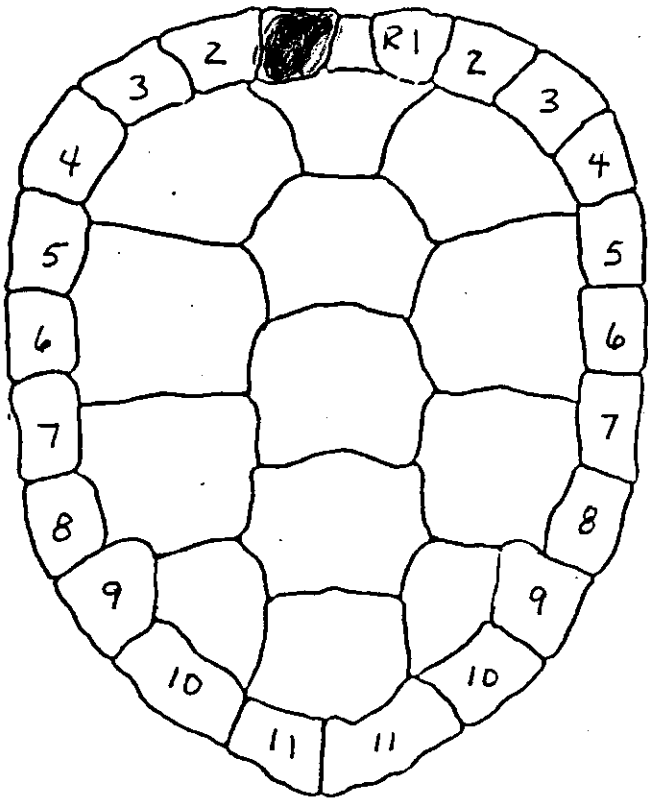
Investigators: Bill Glass, Karen Townsend

Species: Mud

I.D. # L-1 Sex: F **M** J Capture Date: 6/11/86

Carapace (MM) Length 125.0 Width 91.4

Weight (Grams) 344.2 Plastron Length 110.90 Shell Depth 44.92



Age Measurements (MM)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.52	2.94	3.14	5.96	8.42	11.54	14.30	16.28	17.56	17.78						

NOTES: _____

ILLINOIS MUD TURTLE SURVEY

Site: Zimmerly #10 County: Lee

Locality: East Grove Twp. SE 1/4 NW 1/4 Sec. 15

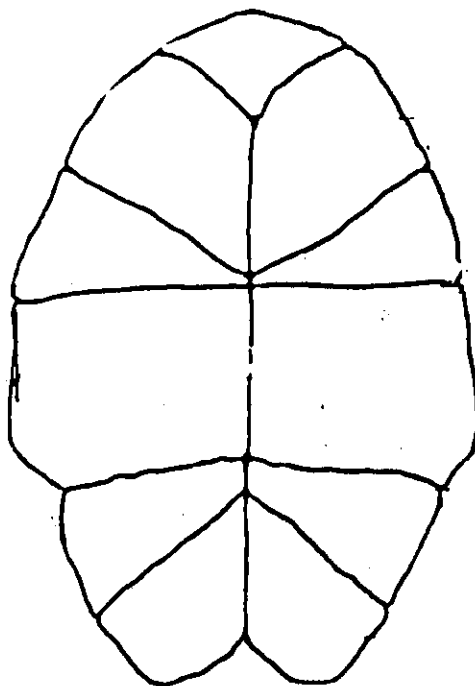
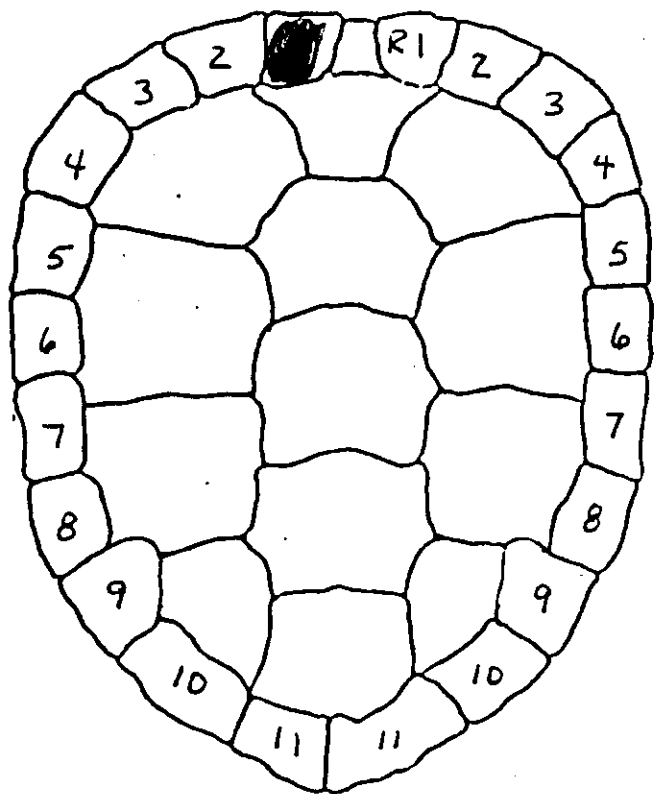
Investigators: _____

Species: Blanding's

L.D. # L-1 Sex: F **M** J Capture Date: 6/11/86

Carapace (MM) Length 200 Width 140

Weight (Grams) 1262.9 Plastron Length 190 Shell Depth 68



Age Measurements (MM)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.00	1.98	5.84	8.98	14.62	17.0	21.62	25.14	28.12	30.0						

NOTES: _____

ILLINOIS MUD TURTLE SURVEY

Site: Zimmerly #10 County: Lee

Locality: East Grove Twp.

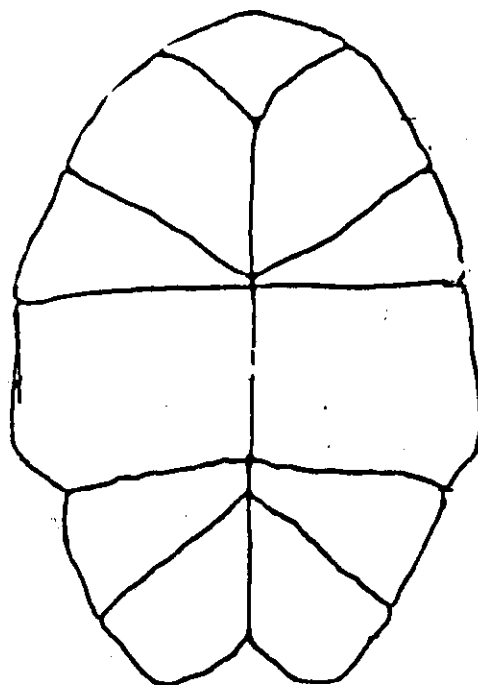
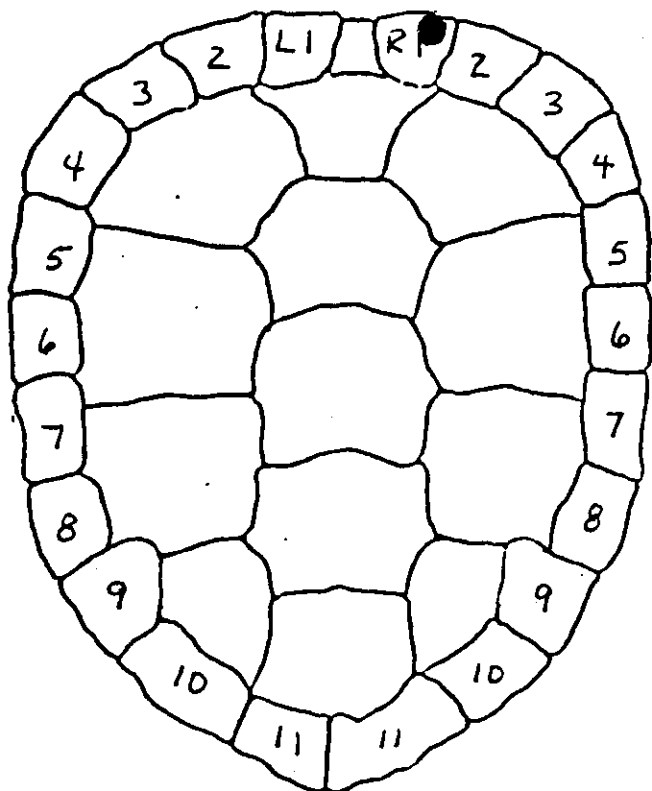
Investigators: _____

Species: Blanding's

I.D. # _____ * Sex: (F) M J Capture Date: 6/12/86

Carapace (MM) Length 210 Width 138

Weight (Grams) 1440.2 Plastron Length 120.9 Shell Depth 90



Age Measurements (MM)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
2.0	3.0	4.1	5.2	8.1	14.1	17.0	20.0	20.3	26.5	29.8	36.0	38.5			

NOTES: * Turtle may have been previously marked by someone else - notch on R-1

Not to Scale
J-8-2-84-8

Mazy Road Blanding's

ILLINOIS MUD TURTLE SURVEY

Site: Mazy Road County: Lee

Locality: Mazy Road where Sec. 4 May and Sec. 33 Amboy meet

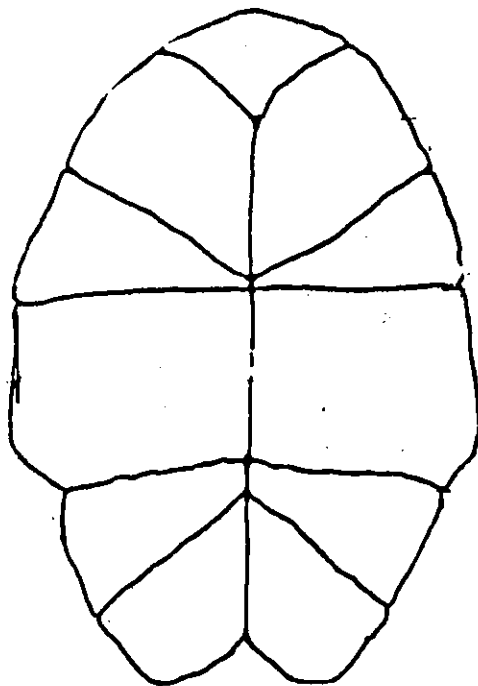
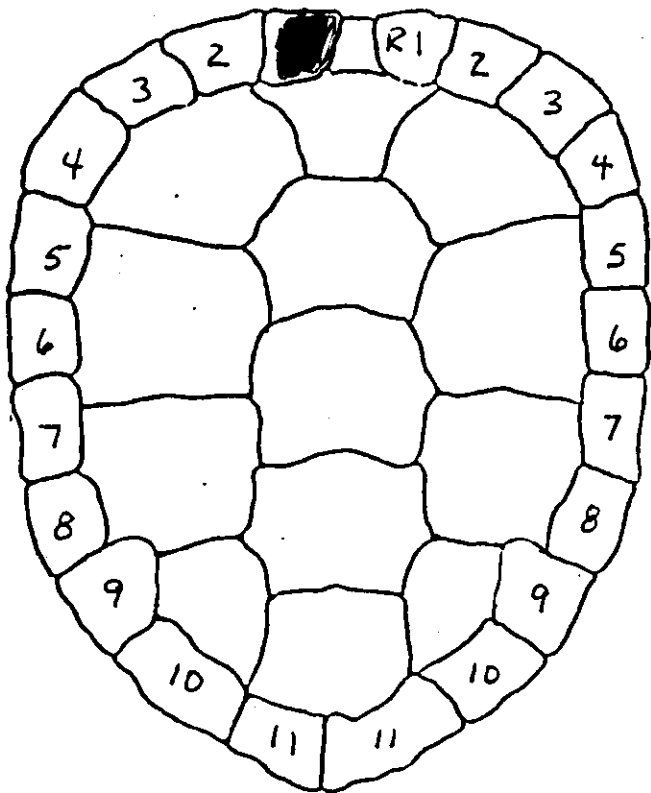
Investigators: _____

Species: Blanding's

L.D. # L-1 Sex: F M J Capture Date: 6/10/86

Carapace (MM) Length 215 Width 142

Weight (Grams) 1245 Plastron Length 205 Shell Depth 78



Age Measurements (MM)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
2.24	3.60	6.28	9.82	11.94	14.10	18.84	20.62	22.38	26.24	29.62	31.88	35.76	42.12		

NOTES: _____

SITE DESCRIPTION

- Broderick
#1. - although this area evidenced qualities required by the Illinois Mud Turtle, no turtles were captured of any species. The pond showed signs of disturbance with dams and such.
- Carey
#2. - the pond was dug many years ago in a swampy area. There is an active spring at the south end. A 741D3 fine sand ridge is situated on the north end of the pond. The pond was dredged 2 or 3 years ago. No turtles captured.
- Kessel
#3.
#3A. - this area although interesting yielded only Painted turtles. The surrounding area is used for pasture.
- Fredenhagen
#4.
#4A.
#4B.
#4C.
#4D.
#4E.
#4F. - this extensive area is the site of many ponds. A number of which are the result of damming. Most have been disturbed. Used predominately for hunting, fishing and pasture. Extensive work has been done for wildlife enhancement. It is the site of many unusual plants and interesting areas, however. Painted Turtles and one Blanding's were surveyed.
- Hinton
#5. - a wet spot for years. Cattails and willows are prevalent. Tiling has been attempted many times. It has been farmed occasionally. The area dries up frequently but not for long periods. It is home for numerous ducks, muskrats, frogs, etc. Orio sandy loam 200, and 779D Chelsea fine sand are the adjacent soils. No turtles found.
- Kant
#6.
#6A. - swampy area of long standing. Orio mucky sandy loam, ponded 4200 soil present at site. There has been no known disturbance for a number of years. Two Blanding's found here along with seven Painted Turtles.

Kellen
#7.
#7A.
#7B.

- although rich in unusual plant species the area had only Painted Turtles, where trapped. This area is used for hunting and fishing. Mr. Kellen is the local contact person for the owner, Kim A. Schmitt, 8504 Concord Dr., Woodstock, IL 60098. Site of Canada goose nesting.

Spears
#8
#8A.
#8B.

- a very interesting area. Site of a large pond with white waterlilies and nearby smaller ponds. Three ponds were trapped. It proved to be the most popular spot for Blanding's. Seven of the thirteen Blanding's were found at this site. Pond # 8B yielded five Blanding's. Orio mucky sandy loam, ponded, 4200 is the soil associated with the Spears area. The surrounding wooded and open areas are pastured. Some evidence of disturbance. Interesting plant communities survive here. Tuberos Indian Plantain (Cacalia tuberosa) was found growing here.

Zbinden
#9.

- a low swampy area that has had disturbance. Owners in recent years have been mainly interested in hunting and have managed the land to that end. No turtles found.

Zimmerly
#10
#10A.

- site of the Illinois Mud Turtle capture. This body of water is again in Orio mucky sandy loam, ponded 4200 soil. An Oakville fine sand 741D3 ridge runs along the south edge. The ridge is home to a medium quality sand prairie, that is becoming quite brushy. Plants present in the area are: (pond #10)
Little bluestem Leadplant
Big bluestem Golden Aster
Indian grass Frostweed
Switch grass Whorled milkweed
Three-awn Prickly pear cactus
Round-headed bushclover Pussytoes
Wild Quinine Arrow leafed violet
Goat's rue Spruge
Rattlesnake master Rush

Blazing star
Wormwood
Needlegrass

Cattail
Arrowhead
Water plantian
Wild rice

To the north of the pond is a small wooded area, containing Silver Maple, Black Locust, Willow, Cottonwood, Hackberry, Boxelder, Mulberry, berry bushes and grape vines.

There has been no known disturbance to the area for many years. Ownership has changed often. The present owner just acquired the land. A public roadway, part of the old Peoria - Galena Trail borders the east edge of the water. The road has minimal use and maintenance.

Pond #10A. to the east is a swampy area with much vegetative growth. This site was trapped one day only and one Painted Turtle was captured.

PICTURES