ILLINOIS MUD TURTLE SURVEY REPORT

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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 Illinios 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 landowner/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 landowner 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 I .....WANTED Poster
Exhibit II .....District Newsletter
Exhibit III .....News Releases
Exhibit IV .....Landowner Letter
Exhibit V .....Landowner Card
Exhibit VI .....Brochure
Exhibit VII .....Thank You Letter

WANTED

Illinois Mud Turtle

SIGHTINGS OF THE

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 4" - 5" LONG

- MARGINAL SCUTE
- TRIANGULAR 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 LEE COUNTY SOIL & WATER CONSERVATION DISTRICT
OFFICE, USDA SERVICE CENTER, 319 S. MASON, AMBOY, IL 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!

EXHIBIT I

Lee County Soil and Water Conservation District
USDA Service Center — 319 S. Mason Avenue
Amboy, Illinois 61310 — 815/857-3623

May - June '86

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 bottomland!

The rainfall is uncontrolable; the runoff, erosion and sedimentation is controlable. Like the old story - - "the impossible takes a bit longer time."

Organize to benefit from soil and water resource opportunities. Lee County has 35 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, incr sed crop yields, improved water quali lower ditch and road maintenance, et

Discuss these things with your neigh and bring your ideas to the Soil Co vation Service Field Office in Ambo the USDA Service Center.

Robert Lowe,

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

***** "Build Illinois" Funds Saving Lee Co. Soil! ***

All funds allotted to Lee County Cost Share Program have been co and work is proceeding as quick ther permits. Fiscal Year 198 will also be spent for conserv jects where the most soil is dollar spent. Sign-up for th is now closed and the propos will be prioritized accordin

The photo to the left pictu assisting Technician B checking completed terrace land Walder farm in Wyomi This project will benefit result in a soil saving year from sheet, rill an at a cost of $1.01 per year peri

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PERMIT NO. 58

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the O-till Club
lad 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)

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 must 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.C. 1/1/86

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)

Lee group to study mysterious mud turtle

By John Kanthak
Telegraph staff writer

AMBOY — The Lee County Natural Area Guardians will this spring will 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 cooperation with the Illinois Department of Conservation."

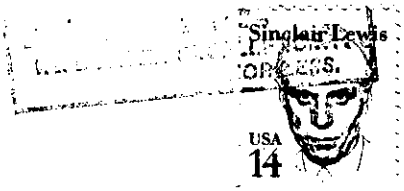
Not much is known about the Mud Turtle, which hibernates throughout the winter and becomes active in the spring in the sandy regions of northwestern and central Illinois. All of the world's known Mud Turtles live in Illinois, Iowa and Missouri.

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.

EXHIBIT III

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

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

Painted

#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

Owner: Kim A Schmitt
8504 Concord Drive
Woodstock, IL 60098

Painted

#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)

Site found	date	sex	weight	Carapace length	Carapace width	Plastron length	Shell depth	age
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	Carapace 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
Kant (south pond)	6/10/86	M	985	180	118.5	177	75	12
	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	Carapace 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 TURLTES

Site found	date	sex	weight	Carapace length	Carapace 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	
(lg. pond)	6/13/86	F	569.2	169	121.2	159	60.4	
	6/4/86	J	35.1	60	52	57	25	
	611/86	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	
Pond 4	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

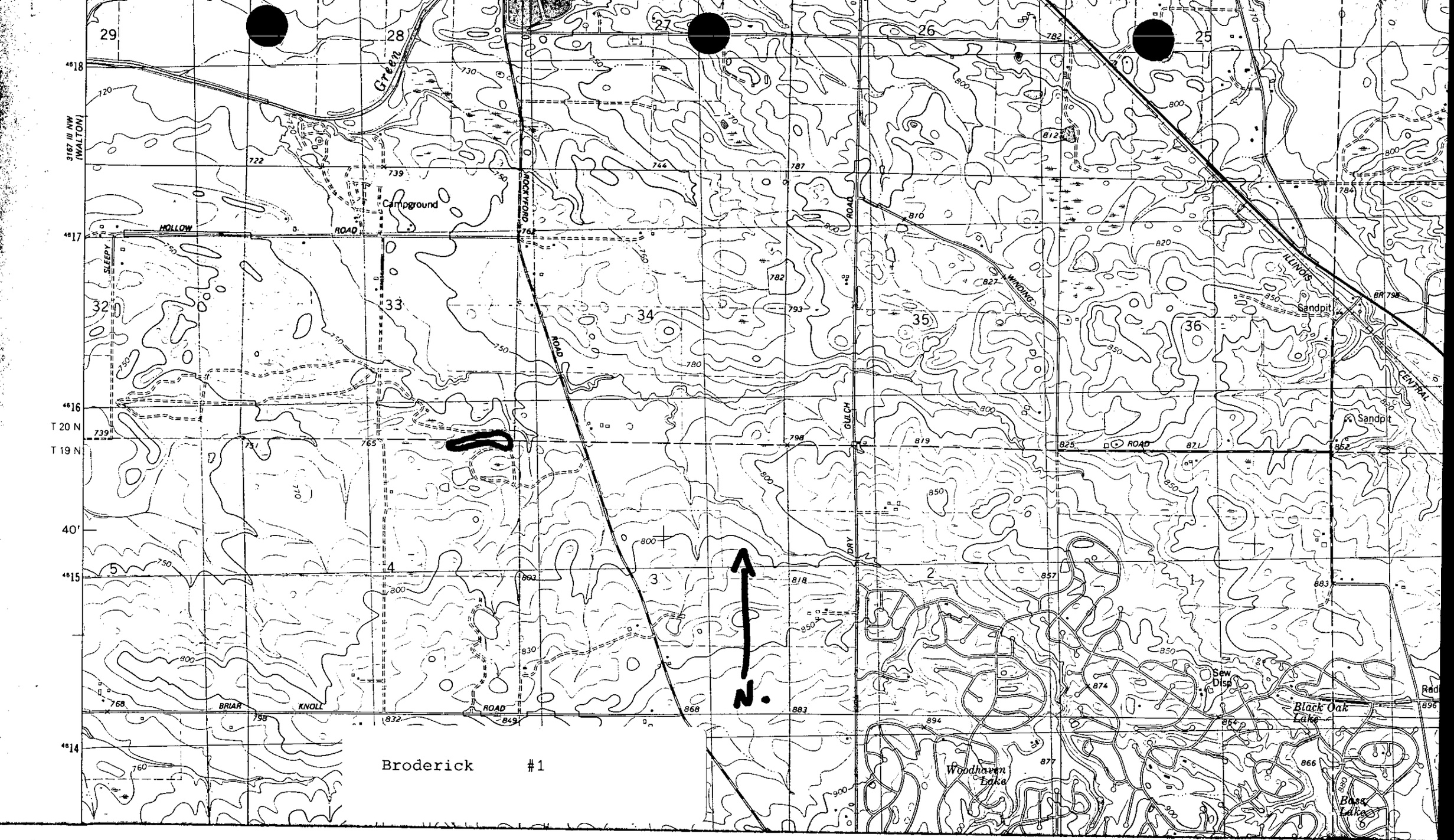
Site found	date	sex	weight	Carapace length	Carapace width	Plastron length	Shell depth	age
Buttonbush	6/6/86	M	277.9	130	95	125	45	
Duckweed	6/3/86	F	494.7	153	112	147	59	
Road	6/10/86	F	447.9	151	107.5	142.7	51.6	
Spears	6/3/86	F	154.9	125	93	1127	42	
(sm. pond)	6/4/86	M	386.9	143	106	137	52	
	6/13/86	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	6/5/86	M	312.7	136	98	124	45	
(pond 2)								
(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.

	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

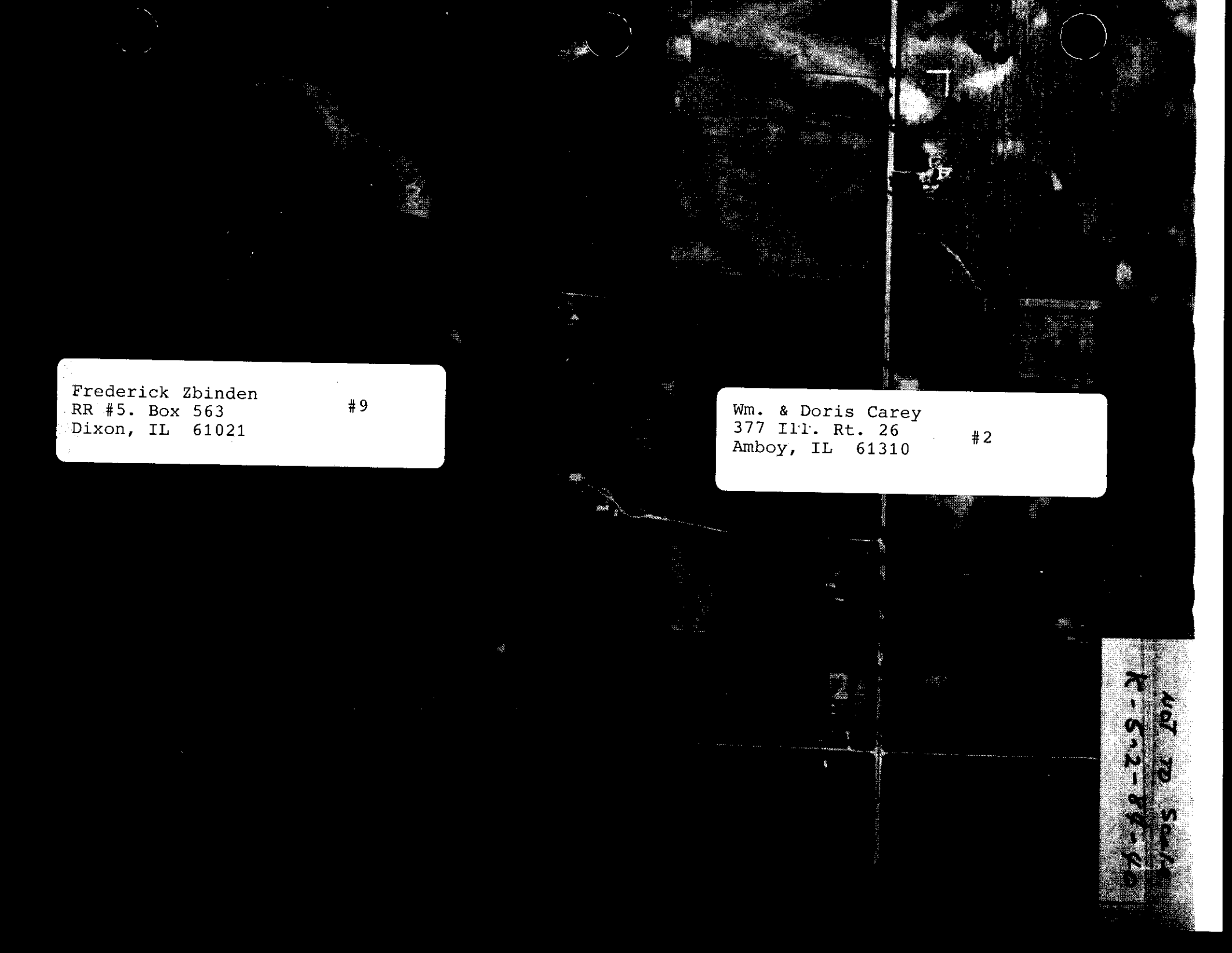
TOTAL 39 - 24 female - 12 male - 3 juvenile

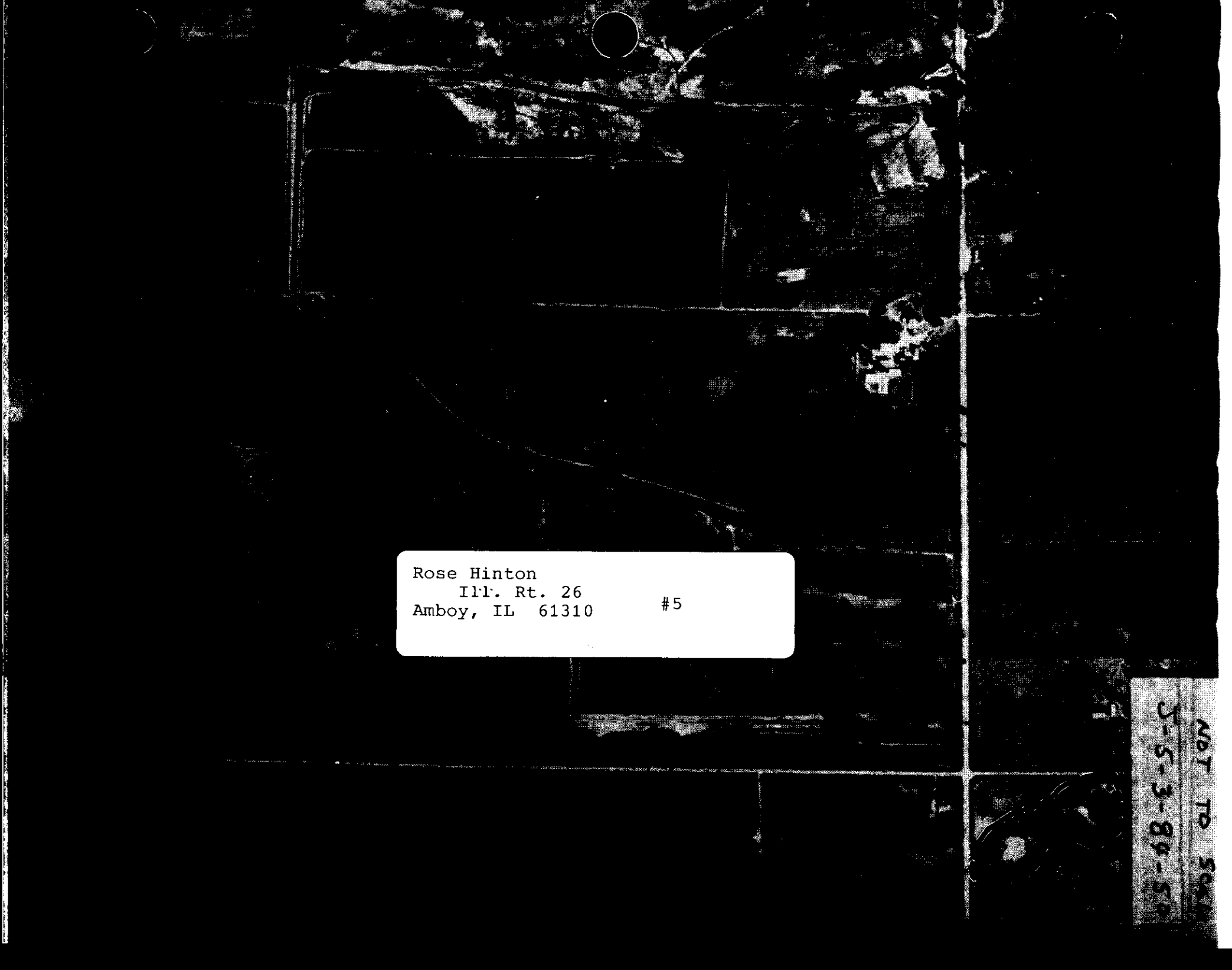


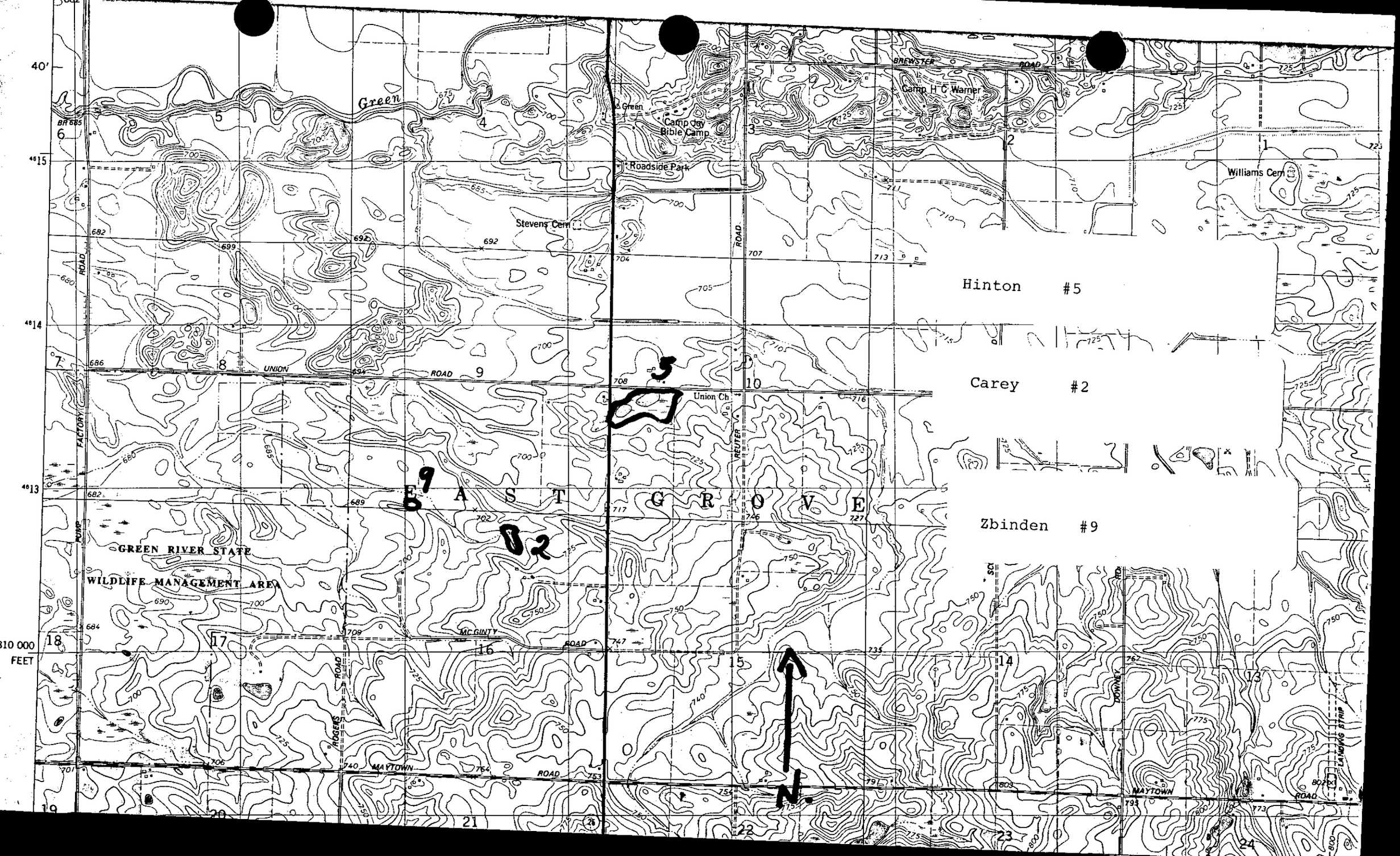
Green
Campground
HOLLOW ROAD
SLEEPY
ROCKYFORD ROAD
ROAD
WINDING
ILLINOIS CENTRAL
Sandpit
Sandpit
GULCH
DRY
ROAD
BRIAR KNOLL ROAD
Sew Disp
Black Oak Lake
Woodhaven Lake
Bass Lake
T 20 N
T 19 N
3167 III NW (WALTON)
N.

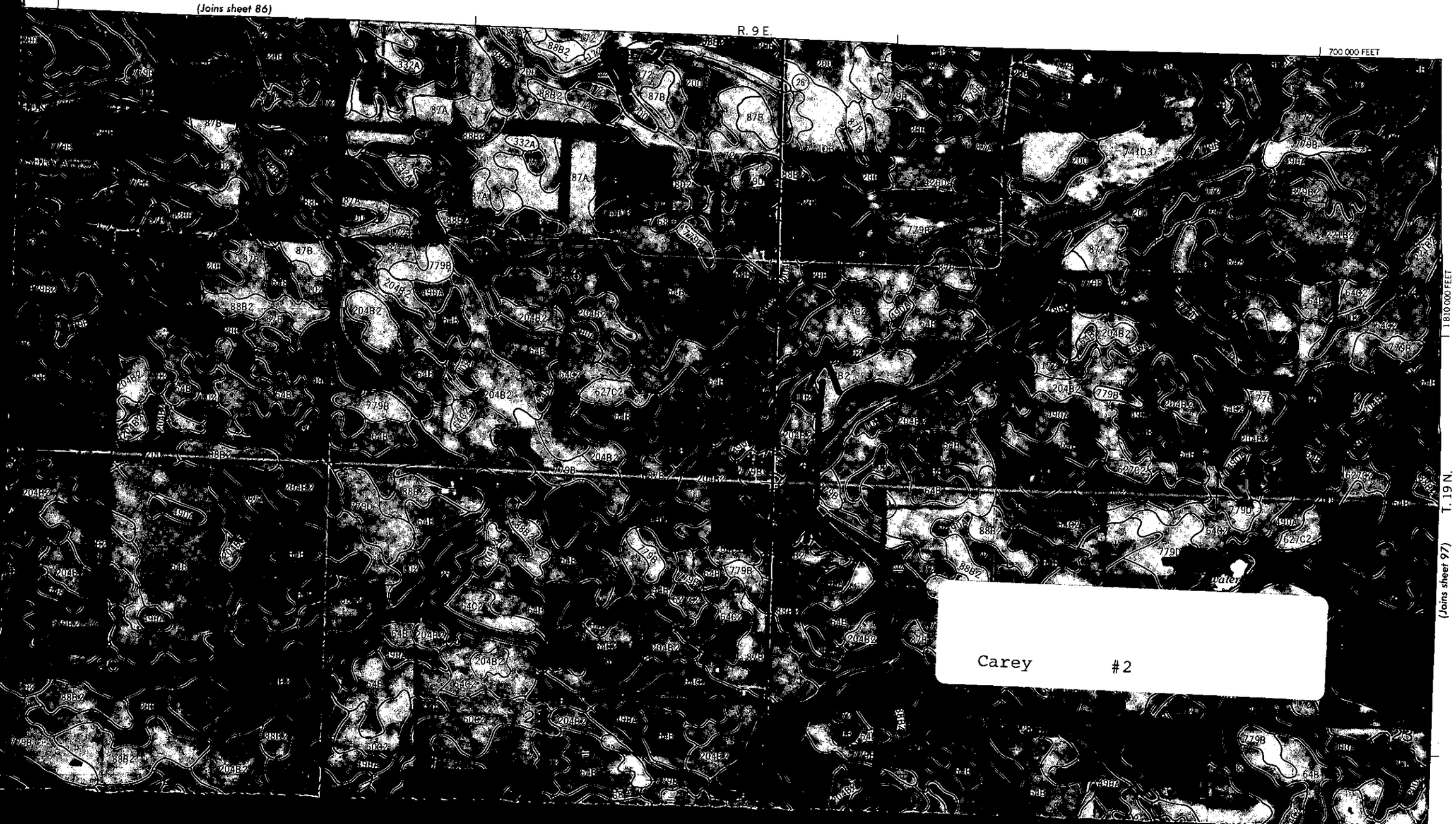
Broderick #1

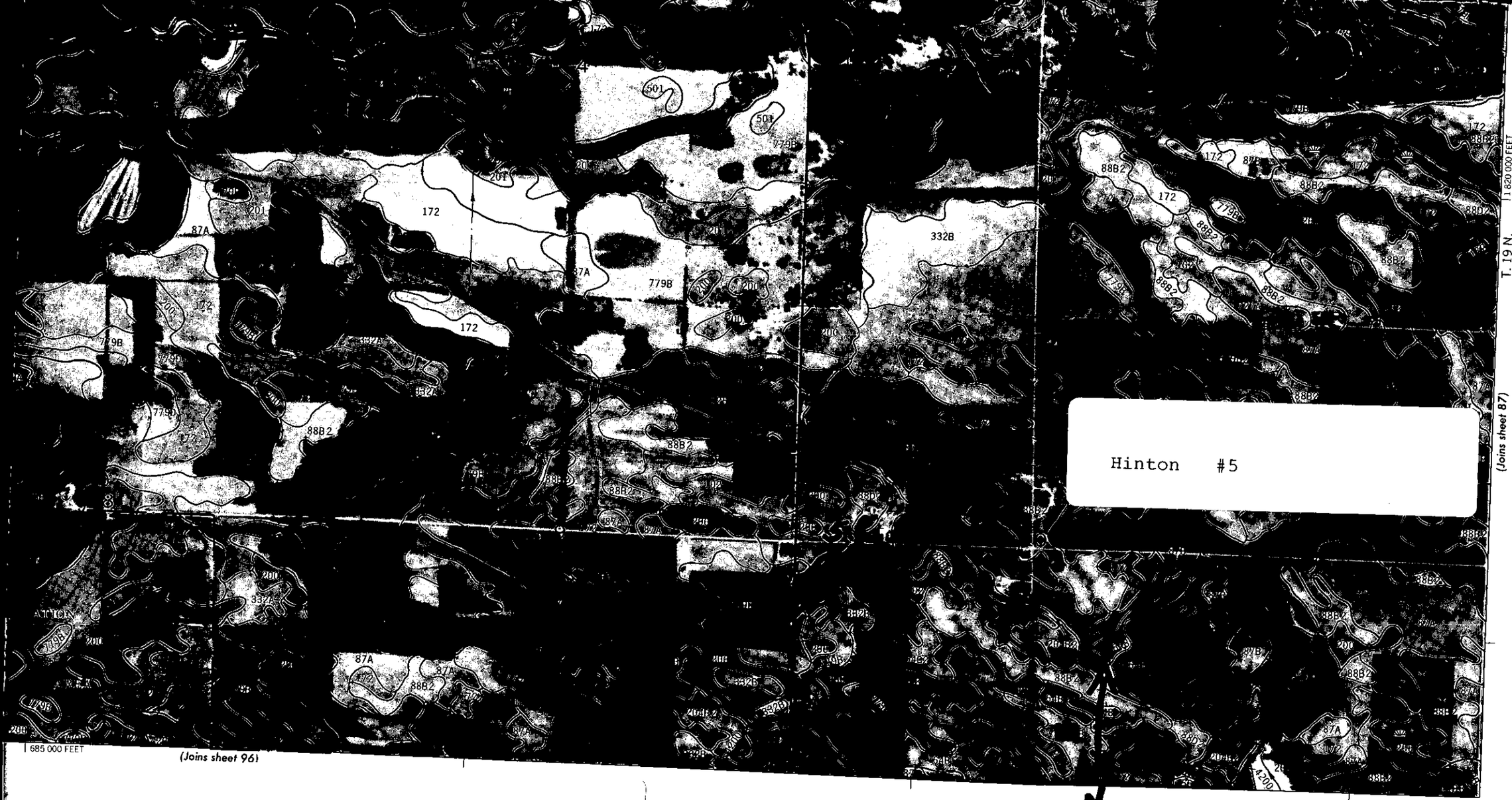
720 000 FEET
R. 10 E.
T. 20 N.
1 830 000 FEET
(Joins sheet 76)
(Joins sheet 87)
1 Mile
5 000 Feet
Scale 1:15 840
Broderick #1


Frederick Zbinden
RR #5. Box 563
Dixon, IL 61021
#9
Wm. & Doris Carey
377 Ill. Rt. 26
Amboy, IL 61310
#2


Rose Hinton
Ill. Rt. 26
Amboy, IL 61310
#5
NOT TO SCALE
4-5-3-84-5C

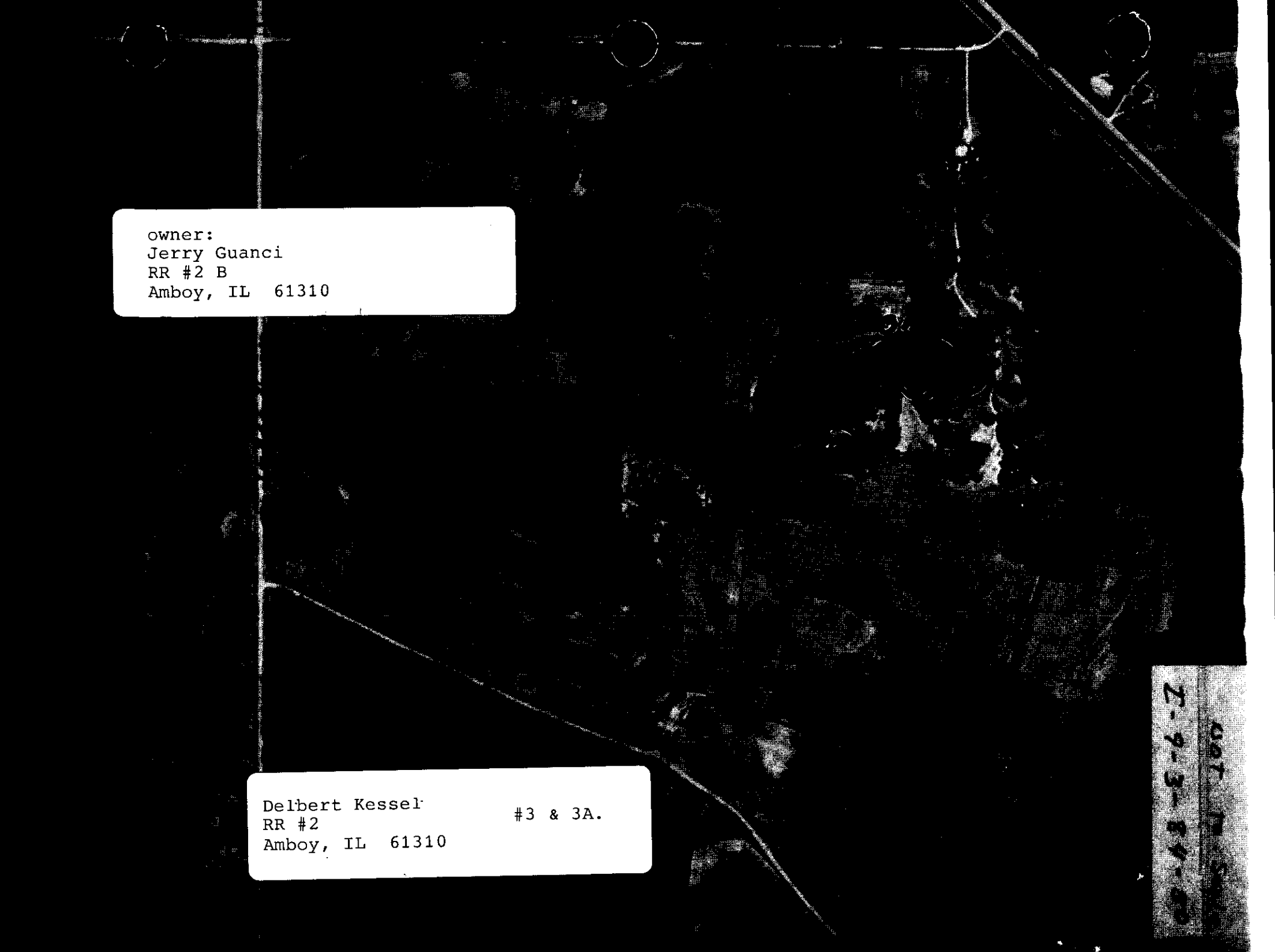

Green
Camp Joy Bible Camp
Roadside Park
Camp H C Warner
BREWSTER ROAD
Williams Cem
Stevens Cem
UNION ROAD
Union Ch
REUTER ROAD
FACTORY ROAD
PUMP
GREEN RIVER STATE
WILDLIFE MANAGEMENT AREA
EAST GROVE
McGINTY ROAD
ROGERS ROAD
MAYTOWN ROAD
LANDING STRIP
Hinton #5
Carey #2
Zbinden #9
N.
40'
46°15
46°14
46°13
310 000 FEET

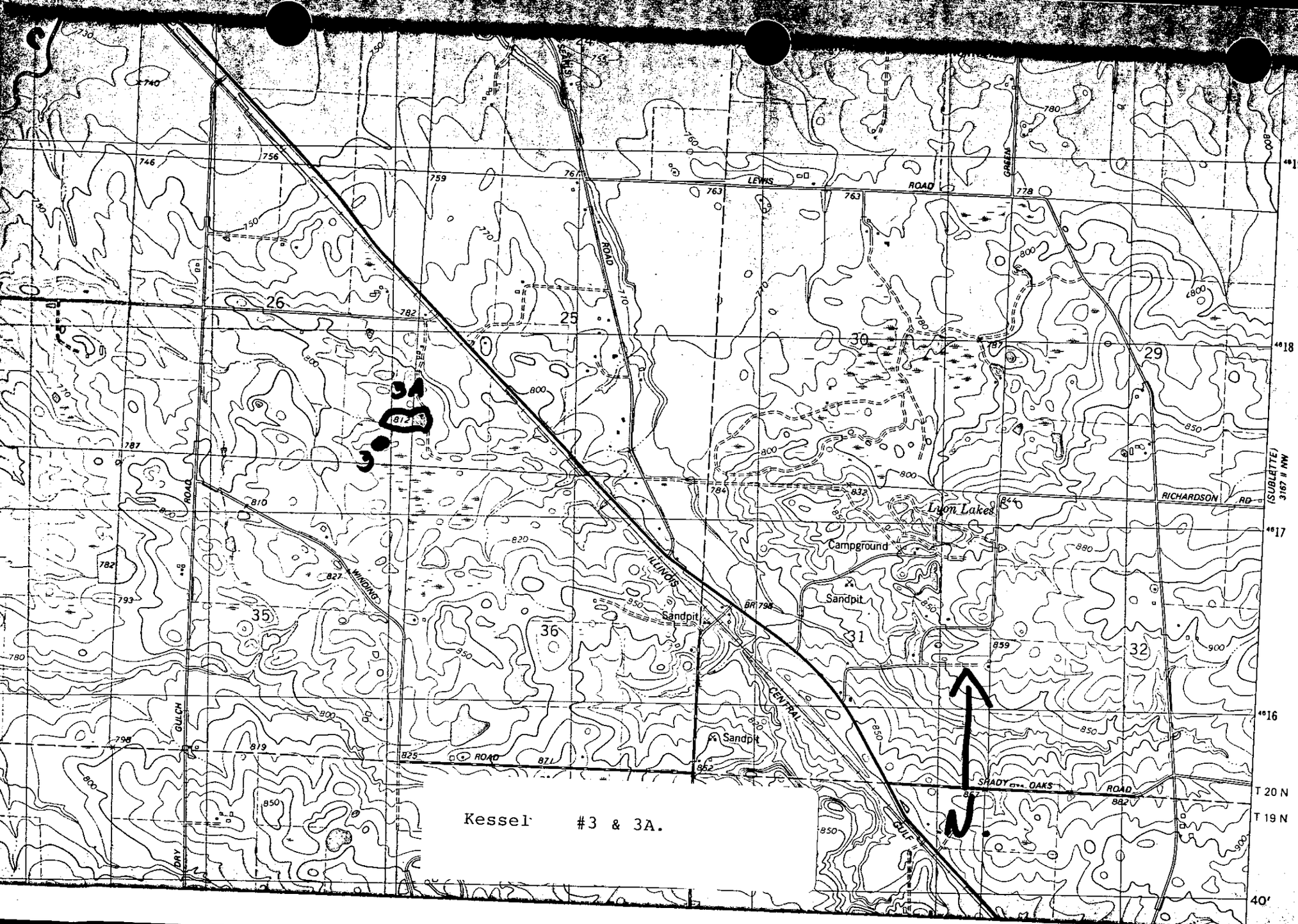

(Joins sheet 86)
R. 9 E.
700 000 FEET
1 810 000 FEET
T. 19 N.
(Joins sheet 97)
Carey #2



Hinton #5

Zbinden #9

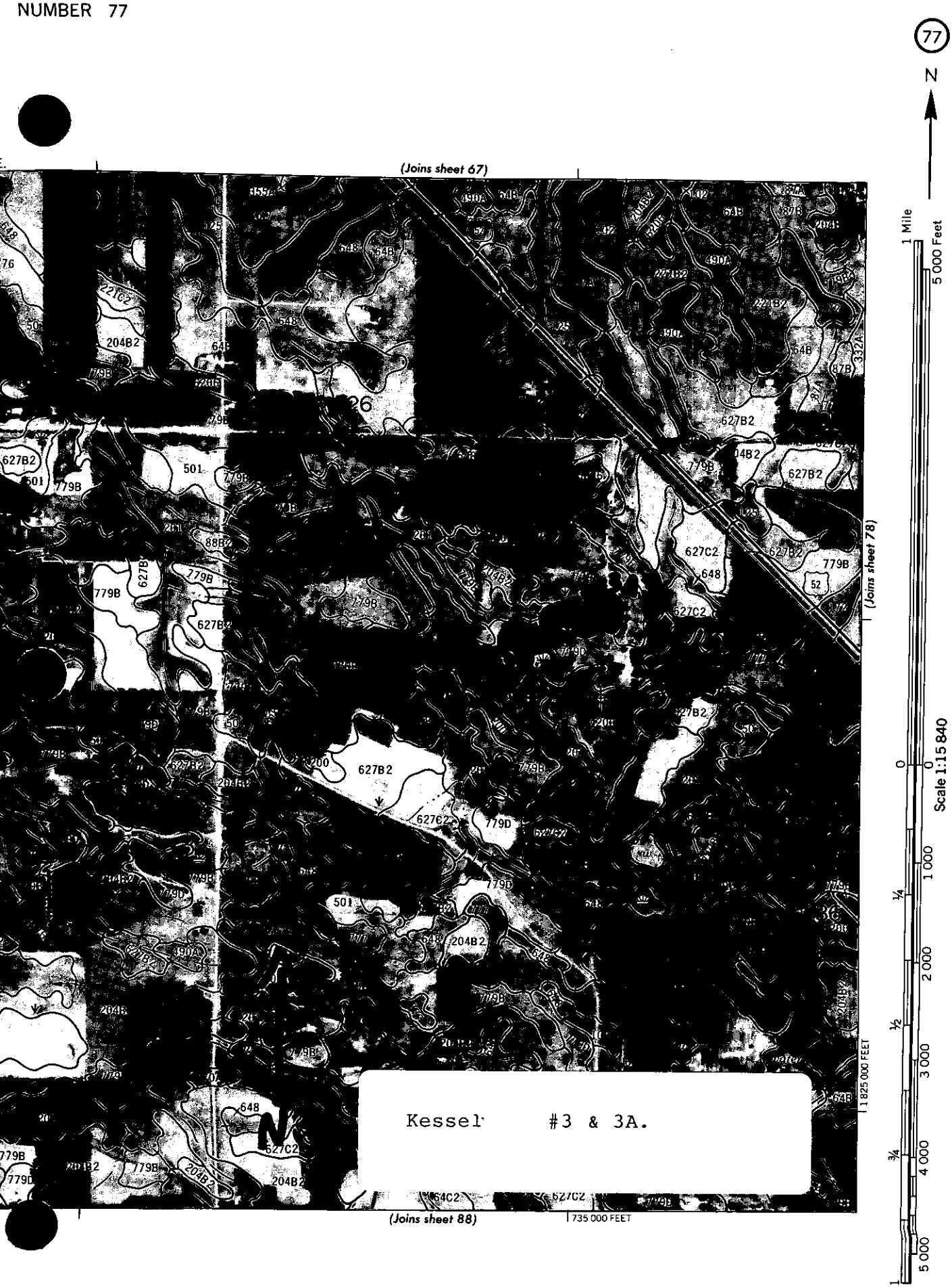

owner:
Jerry Guanci
RR #2 B
Amboy, IL 61310
Delbert Kessel
RR #2
Amboy, IL 61310
#3 & 3A.
NOT To Scale
I-9-3-84-80



LEWIS ROAD
GREEN
ROAD
26
25
30
29
3A
3
RICHARDSON RD
(SUBLETTE)
3167 II NW
Lyon Lakes
Campground
Sandpit
Sandpit
Sandpit
ILLINOIS
CENTRAL
GULF
WINDING
ROAD
GULCH
DRY
35
36
31
32
ROAD
SHADY OAKS ROAD
T 20 N
T 19 N
40'

Kessel #3 & 3A.

NUMBER 77


77
N
(Joins sheet 67)
(Joins sheet 78)
(Joins sheet 88)
735 000 FEET
1 825 000 FEET
1 Mile
5 000 Feet
Scale 1:15 840
0
1/4
1/2
3/4
1
1 000
2 000
3 000
4 000
5 000
Kessel #3 & 3A.

ILLINOIS MUD TURTLE SURVEY

Site Name: Kessel #3 Location: Twp. 20N - R 10E SE¼ SE¼ Sec. 26

Investigators: Survey Dates: 6/13/86

Sheet 1 of

	Species	ID #	Capture Date	Sex	Weight (Grams)	Carapace (MM) Length	Carapace (MM) Width	Plastron Length	Shell Depth	Age Measurements (MM) 1	2	3	4	5	6	7	8	9	10	11	12
1	Painted (Western)	L-1	6/13/86	F	306.2	128.0	94.4	119.3	50.3												
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Trap type Trap nights

Water Temp (Daily am/pm)

Air Temp (Daily hi/low)

6/13/86 68

Precipitation (Amt./Date)

Notes:

ILLINOIS MUD TURTLE SURVEY

Site Name: Buttonbush Pond - Kessel #3A. **Location:** T 20N - R 10E SW¼ SW¼ Sec. 25

Investigators: _____ **Survey Dates:** 6/5 - 6/86

Sheet 1 **of** _____

	Species	ID #	Capture Date	Sex	Weight (Grams)	Carapace (MM) Length	Carapace (MM) Width	Plastron Length	Shell Depth	Age Measurements (MM) 1	2	3	4	5	6	7	8	9	10	11	12
1	Painted (Intermediate)	L-1	6/6/86	M	277.9	130	95	125	45												
2	Painted (Western)	L-2	6/6/86	M	124.7	102	79	96	36												
3	Painted (Western)	L-3	6/6/86	F	149	106	84	99	38												
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

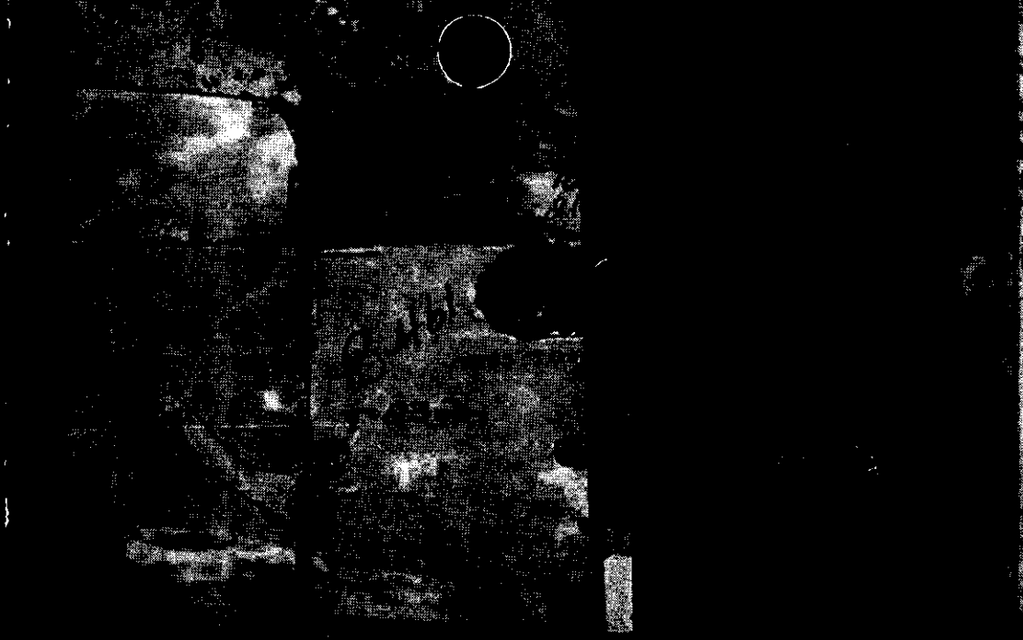
Trap type _____ **Trap nights** _____

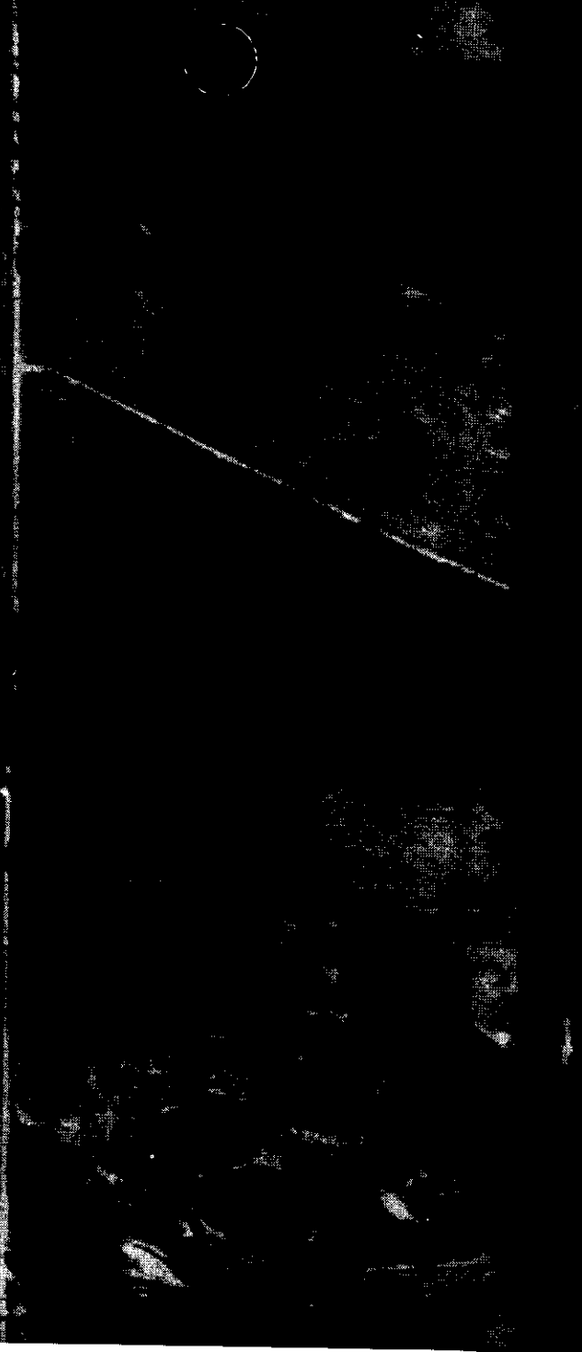
Water Temp (Daily am/pm) 6/5/86 | 71 pulled | 6/6/86

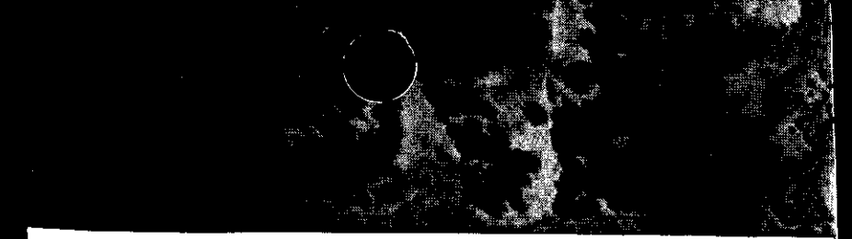
Air Temp (Daily hi/low)

Precipitation (Amt./Date) _____

Notes: _____





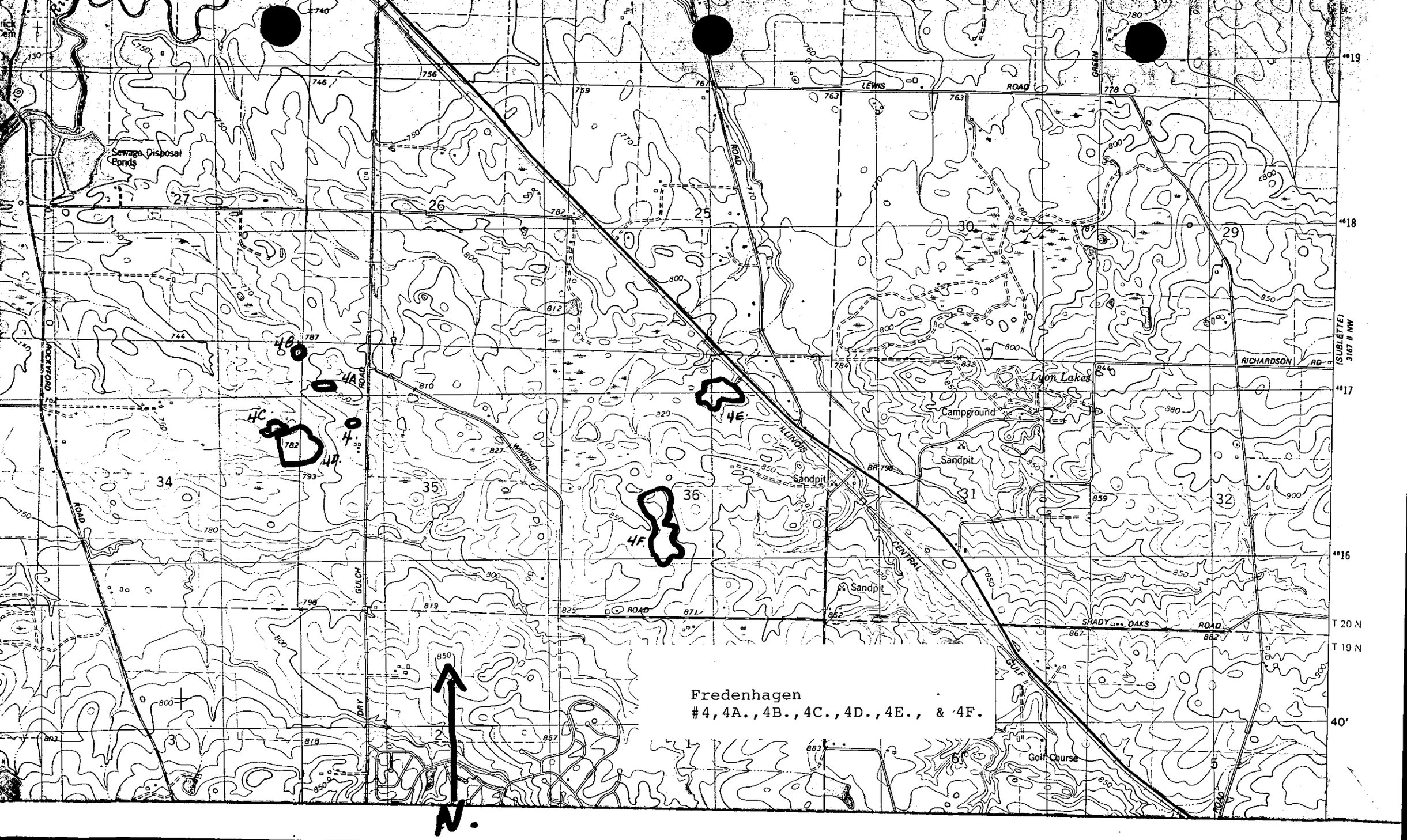


.34

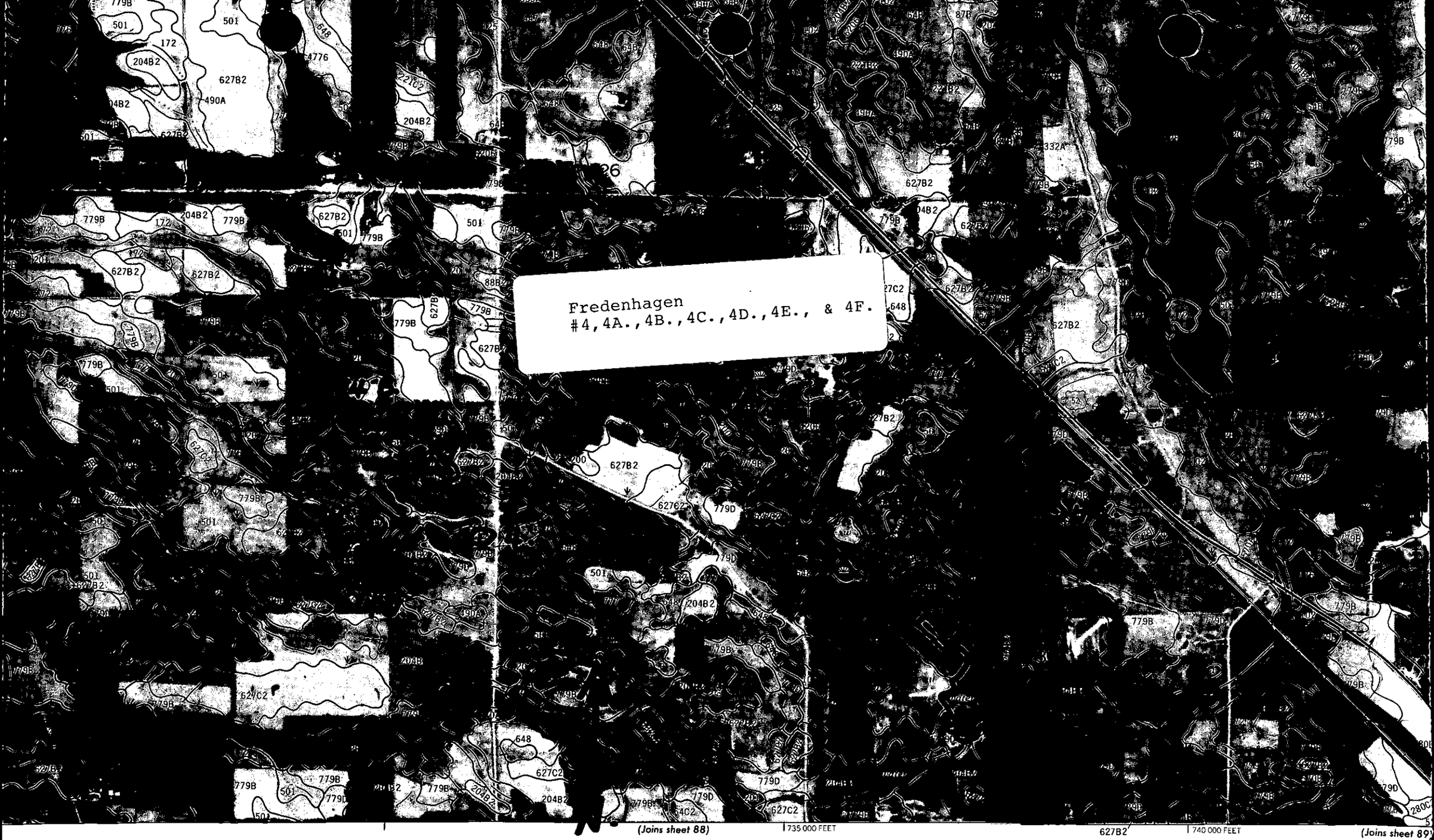
.34

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)
735 000 FEET
627B2
740 000 FEET
(Joins sheet 89)

ILLINOIS MUD TURTLE SURVEY

Site Name: Fredenhagen - Pond 1 (cabin) #4 **Location:** T. 20N. - R. 10E. W½NE¼ Sec. 35

Investigators: _____ **Survey Dates:** 6/2/86

Sheet 1 **of** _____

	Species	ID #	Capture Date	Sex	Weight (Grams)	Carapace (MM) Length	Carapace (MM) Width	Plastron Length	Shell Depth	Age Measurements (MM) 1	2	3	4	5	6	7	8	9	10	11	12
1	Painted (Midland)	R-6	6/3/86	M	230.2	122	94	109	44												
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Trap type _____ **Trap nights** _____

Water Temp (Daily am/pm)	64	6/3	69	6/4		6/5	68	6/6													
Air Temp (Daily hi/low)	77 / 42																				

Precipitation (Amt./Date) _____

Notes: _____

ILLINOIS MUD TURTLE SURVEY

Site Name: Fredenhagen - Pond 2 (thru Pines) #4A. **Location:** T. 20N. - R.10E. W½NE¼ Sec. 35

Investigators: _____ **Survey Dates:** 6/2/86

Sheet 1 **of** _____

	Species	ID #	Capture Date	Sex	Weight (Grams)	Carapace (MM) Length	Carapace (MM) Width	Plastron Length	Shell Depth	Age Measurements (MM) 1	2	3	4	5	6	7	8	9	10	11	12
1	Painted (Western)	R-7	6/3/86	J	100.02	84	73	79	34												
2	Painted (Midland)	R-11	6/4/86	M	202.7	114	88	106	41												
3	Painted (Intermediate)	L9-R1	6/5/86	M	312.7	136	98	124	45												
4	Painted (Midland)	L10-R1	6/5/86	J	85.1	80	68	74	31												
5	Pulled nets 6/5/86																				
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Trap type _____ **Trap nights** _____

Water Temp (Daily am/pm)	66	6/3/86	71	6/4/86		6/5/86															
Air Temp (Daily hi/low)	72 / 42					pulled															

Precipitation (Amt./Date) _____

Notes: _____

ILLINOIS MUD TURTLE SURVEY

Site Name: Fredenhagen Ted Swamp #4B. **Location:** T 20N. - R10E. E½NE¼ Sec. 34

Investigators: _____ **Survey Dates:** 6/5/86 -6/6/86

Sheet 1 **of** _____

	Species	ID #	Capture Date	Sex	Weight (Grams)	Carapace (MM) Length	Carapace (MM) Width	Plastron Length	Shell Depth	Age Measurements (MM) 1	2	3	4	5	6	7	8	9	10	11	12	13
1	Blanding's	L-1	6/6/86	M	1208.4	195	136	189	82	1.10	2.12	3.18	4.08	4.96	6.56	8.20	12.84	17.96	21.92	28.62	33.64	38.22
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Trap type _____ **Trap nights** _____

Water Temp (Daily am/pm)		6/5/86	66	6/6/86																		
Air Temp (Daily hi/low)		set		pulled																		

Precipitation (Amt./Date) _____

Notes: _____

ILLINOIS MUD TURTLE SURVEY

Site: Fredenhagen Ted Swamp #4B. **County:** Lee

Locality:

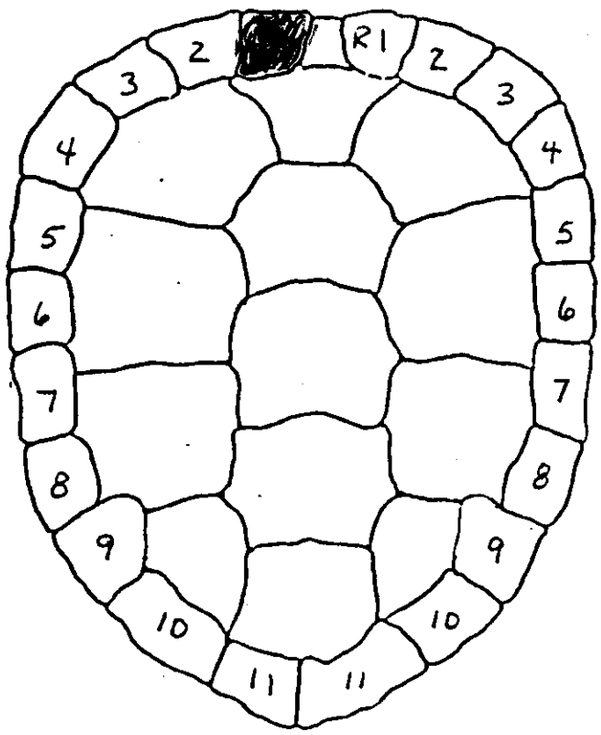
Investigators:

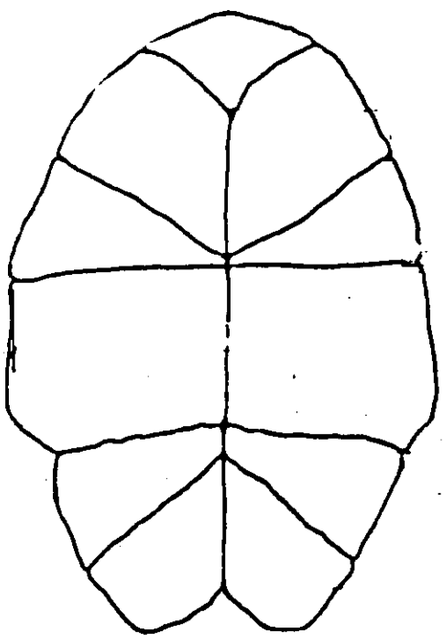
Species: Blanding's

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

Carapace (MM) **Length** 195 **Width** 136

Weight (Grams) 1208.4 **Plastron Length** 189 **Shell Depth** 82

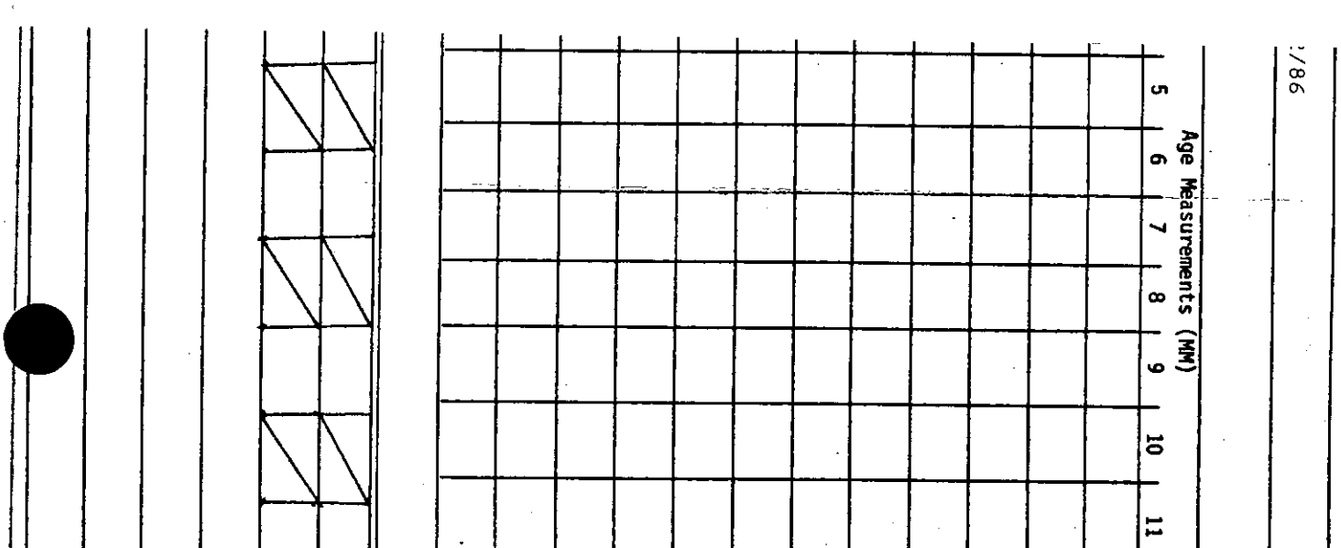




Age Measurements (MM)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.10	2.12	3.18	4.08	4.96	6.56	8.20	12.84	17.96	21.92	28.62	33.64	38.22			

NOTES:



ILLINOIS MUD TURTLE SURVEY

Site Name: Fredenhagen #4 D. **Location:** T 20N. - R.10E. E½ NE¼ Sec. 34

Investigators: _____ **Survey Dates:** 6/2/86

Sheet 1 **of** 2

	Species	ID #	Capture Date	Sex	Weight (Grams)	Carapace (MM) Length	Carapace (MM) Width	Plastron Length	Shell Depth	Age Measurements (MM) 1	2	3	4	5	6	7	8	9	10	11	12
1	Painted (Intermediate)	L-1	6/3/86	F	140.6	101.15	82.42	91.99	35	.08	3.13	2.13									
2	Painted (Intermediate)	L-2	6/3/86	F	279.2	132	96	122	49	.89	1.50	3.10	7.63	11.02	16.64						
3	Painted (Intermediate)	L-3	6/3/86	F	260.6	126	94	121	45	1.5	2.66	7.02	9.52	13.5							
4	Painted (Intermediate)	L-4	6/3/86	F	141.9	103	77	93.84	37	1.12.	2.40	5.18	9.68								
5	Painted (Western)	L-5	6/3/86	F	176.4	108	85	98.52	40	1.74	4.36	7.14	8.50								
6	Painted (Intermediate)	L-6	6/3/86	F	171.2	110.	80	102.98	42	1.30	3.0	4.90	6.93	11.82							
7	Painted (Western)	L-7	6/3/86	M	393.8	149	110	130.60	52	unable to age											
8	Painted (Intermediate)	L-8	6/3/86	M	223.1	122	87	113.34	42	unable to age											
9	Painted (Western)	L-9	6/3/86	F	301	136	95	129.52	46	2.12	4.4	7.22	10.52								
10	Painted (Western)	L-10	6/3/86	F	442.2	153	109	145.84	55												
11	Painted (Intermediate)	L-11	6/3/86	M	218.6	120	92	108	41												
12	Painted (Intermediate)	R-1	6/3/86	F	153.7	102	80	94	39												

Trap type _____ **Trap nights** _____

Water Temp (Daily am/pm)	64	6/3/86	72	6/4/86	70	6/5/86	68	6/6/86													
Air Temp (Daily hi/low)	77 / 42							pulled													

Precipitation (Amt./Date) _____

Notes: _____

ILLINOIS MUD TURTLE SURVEY

Site Name: Fredenhagen #4 D. **Location:** T 20N. - R 10E. E½ NE¼ Sec. 34

Investigators: _____ **Survey Dates:** _____

Sheet 2 **of** 2

	Species	ID #	Capture Date	Sex	Weight (Grams)	Carapace (MM) Length	Carapace (MM) Width	Plastron Length	Shell Depth	Age Measurements (MM) 1	2	3	4	5	6	7	8	9	10	11	12
1	Painted (Western)	R-2	6/3/86	M	237.9	124	94	114	41												
2	Painted (Intermediate)	R-3	6/3/86	F	178.3	112	87	103	39												
3	Painted (Western)	R-10	6/4/86	F	315.9	137	98	123	46												
4	Painted (Intermediate)	L1-R1	6/4/86	F	164	107	82	100	38												
5	Painted (Intermediate)	L4-R1	6/5/86	M	204	111	88	104	37												
6	Painted (Western)	L8-R1	6/5/86	F	270.5	127	89	111	42												
7																					
8																					
9																					
10																					
11																					
12																					

Trap type _____ **Trap nights** _____

Water Temp (Daily am/pm)	64	6/3/86	72	6/4/86	70	6/5/86															
Air Temp (Daily hi/low)	77 / 42																				

Precipitation (Amt./Date) _____

Notes: _____

ILLINOIS MUD TURTLE SURVEY

Site Name: Duckweed #4E. **Location:** T. 20N. - R. 10E. NE¼ Sec. 36

Investigators: _____ **Survey Dates:** 6/2 - 6/86

Sheet 1 **of** _____

	Species	ID #	Capture Date	Sex	Weight (Grams)	Carapace (MM) Length	Carapace (MM) Width	Plastron Length	Shell Depth	Age Measurements (MM) 1	2	3	4	5	6	7	8	9	10	11	12
1	Painted (Intermediate)	L-1	6/3/86	F	494.7	153	112	147	59												
2	Painted (Midland)	L-2	6/4/86	J	84.8	84	69	76	33												
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Trap type _____ **Trap nights** _____

Water Temp (Daily am/pm)	68	6/3/86	75	6/4/86		6/5/86	69	6/6/86													
Air Temp (Daily hi/low)	77 / 42							pulled													

Precipitation (Amt./Date) _____

Notes: _____

ILLINOIS MUD TURTLE SURVEY

Site Name: Wild Rice Pond #4F. **Location:** T. 20N. - R.10E. SW¼ Sec. 36

Investigators: _____ **Survey Dates:** 6/5 - 6/86

Sheet 1 **of** _____

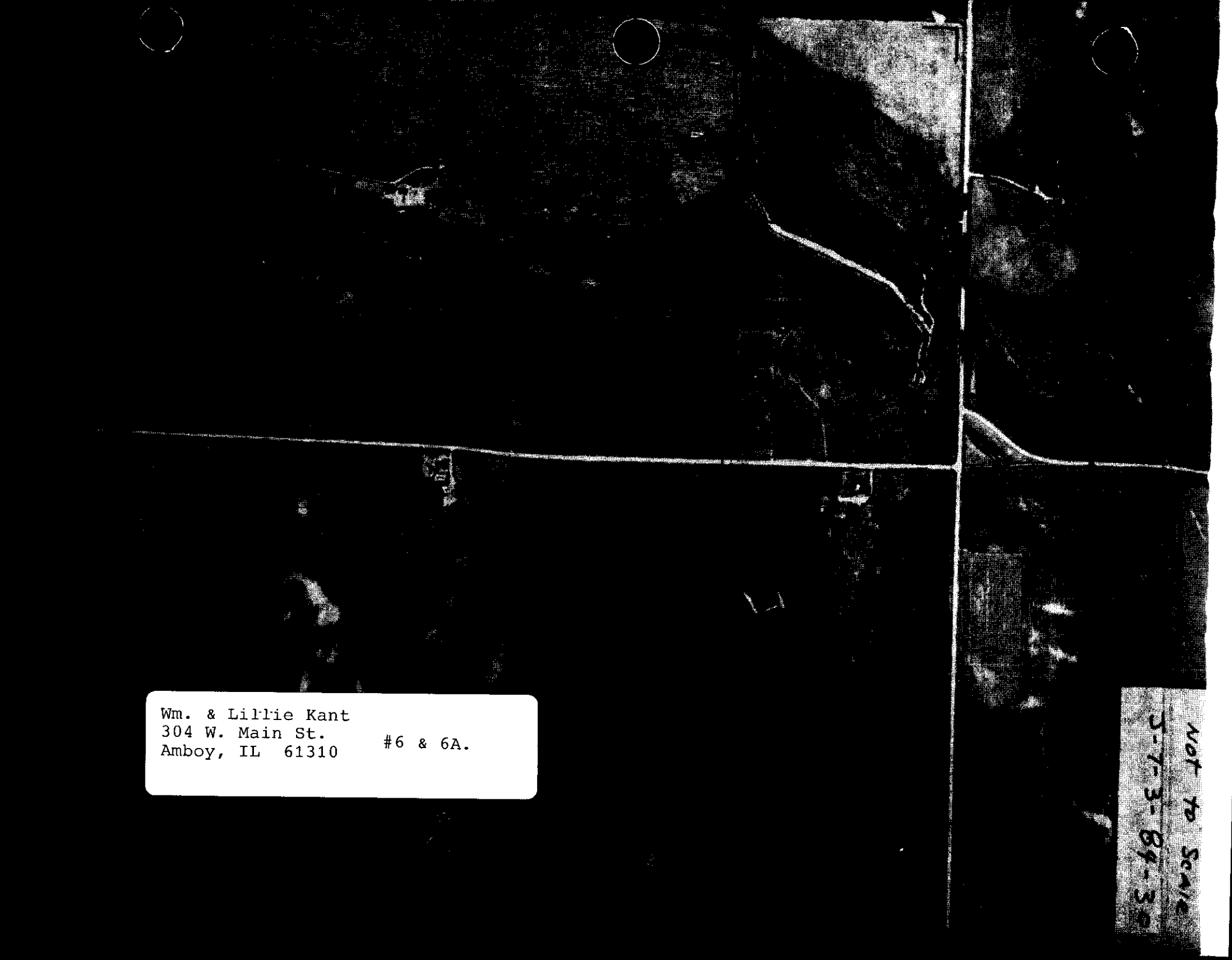
	Species	ID #	Capture Date	Sex	Weight (Grams)	Carapace (MM) Length	Carapace (MM) Width	Plastron Length	Shell Depth	Age Measurements (MM) 1	2	3	4	5	6	7	8	9	10	11	12
1	Painted (Midland)	L-1	6/6/86	J	53.2	69	59	64	28												
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Trap type _____ **Trap nights** _____

Water Temp (Daily am/pm)		6/5/86	71	6/6/86																	
Air Temp (Daily hi/low)		set		pulled																	

Precipitation (Amt./Date) _____

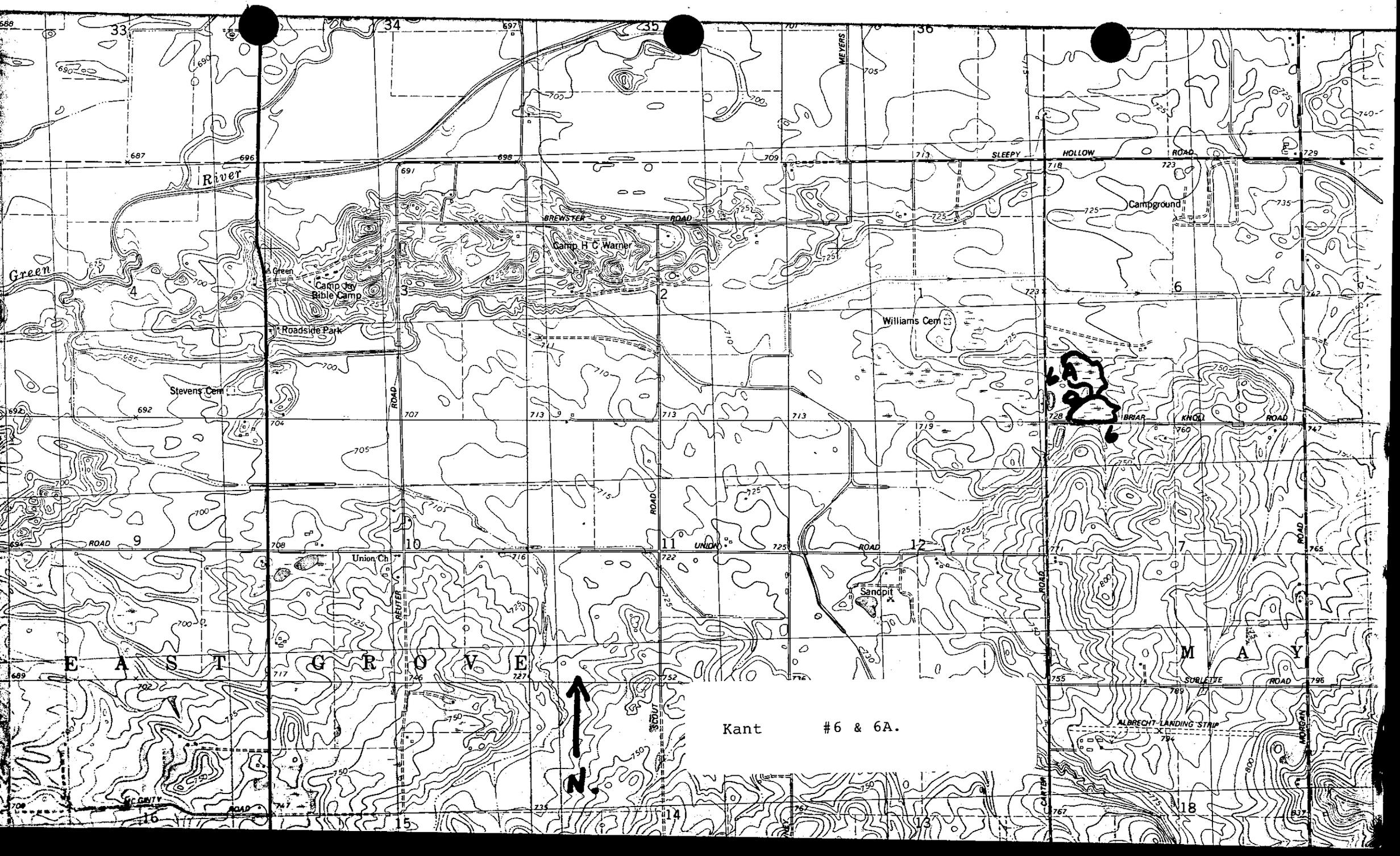
Notes: _____



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

#6 & 6A.

Not to Scale
7-7-3-84-30



Green River
SLEEPY HOLLOW ROAD
BREWSTER ROAD
Campground
Camp H C Warner
Green
Camp Joy Bible Camp
Roadside Park
Williams Cem
Stevens Cem
BRIAR KNOLL ROAD
UNION ROAD
Union Ch
Sandpit
REUTER ROAD
SCOUT ROAD
CARTER ROAD
MORGAN ROAD
SUBLETTE ROAD
ALBRECHT LANDING STRIP
MC GINTY ROAD
E A S T G R O V E
M A Y
N
6A
6

Kant #6 & 6A.

R. 9 E.
R. 10 E.
(Joins sheet 76)
(Joins sheet 97)
715 000 FEET
88B2
88D2
64C2
64B
204B2
779B
Kant #6 & 6A.
N.

ILLINOIS MUD TURTLE SURVEY

Site Name: Kant Pond - South #6 **Location:** Twp. T 19N. - R 10E SW¼ SW¼ Sec. 6

Investigators: Osmer , Johnston

Sheet 1 **of** ____ **Survey Dates:** 6/2-13/86

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

Trap type ____ **Trap nights** ____

Water Temp (Daily am/pm) 71 6/13/

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. SW¼ SW¼ Sec. 6

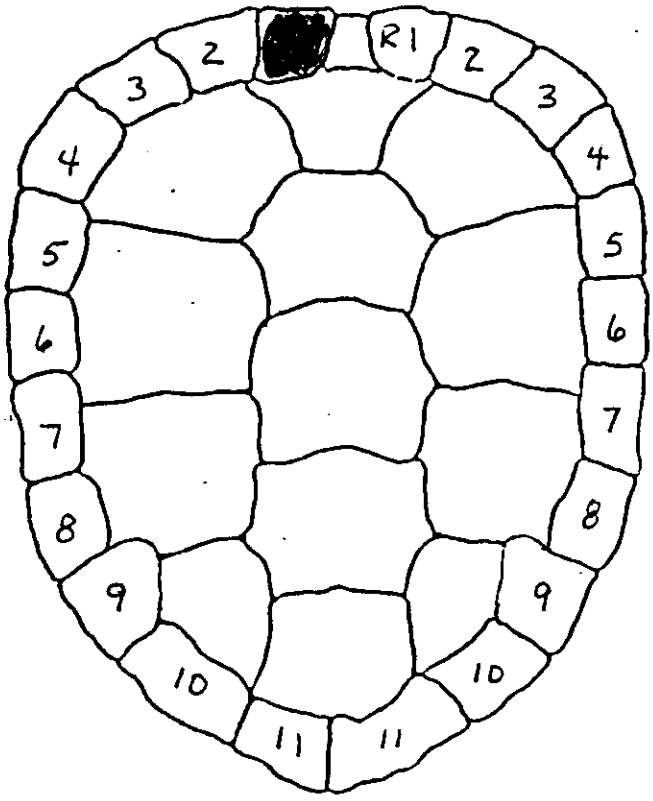
Investigators: Osmer, Johnston

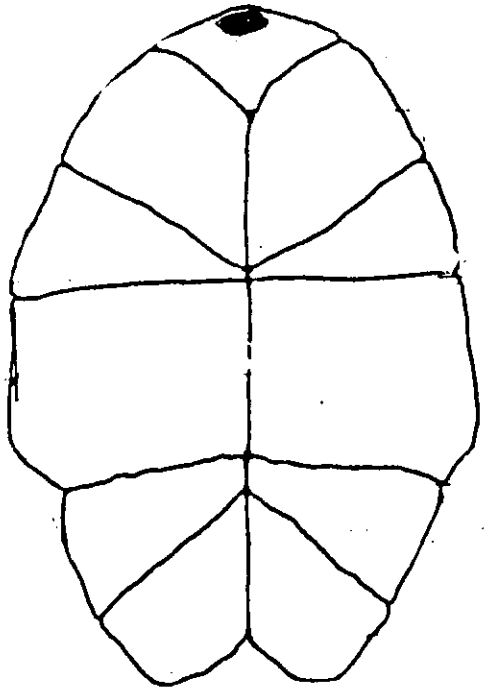
Species: Blanding's

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: 1½ of tail has been removed

ILLINOIS MUD TURTLE SURVEY

Site: Kant Pond - South #6 **County:** Lee

Locality: Twp. T 19N. - R 10E. SW¼ SW¼ Sec. 6

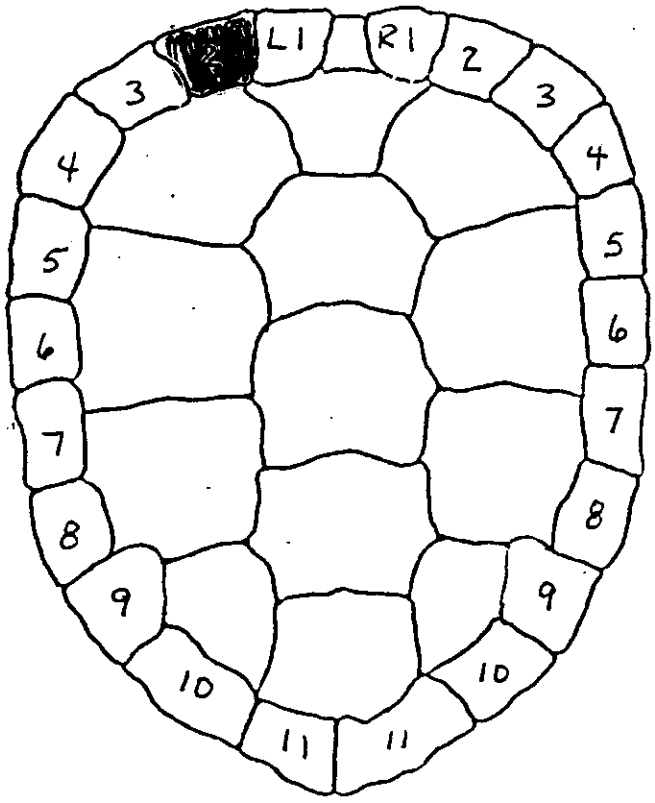
Investigators: Osmer, Johnston

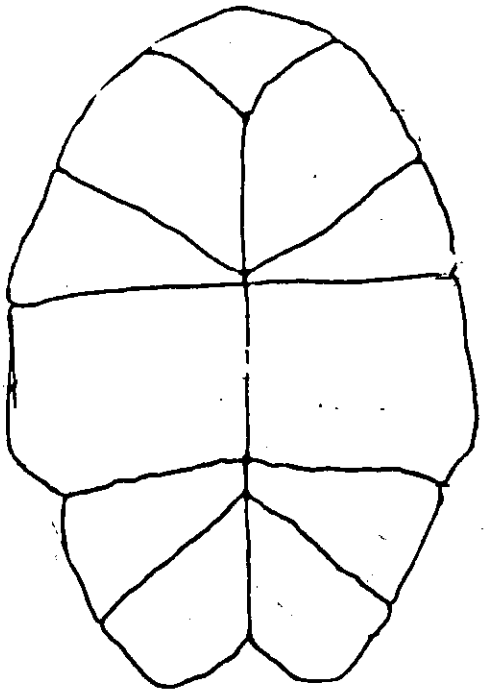
Species: Blanding's

I.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)

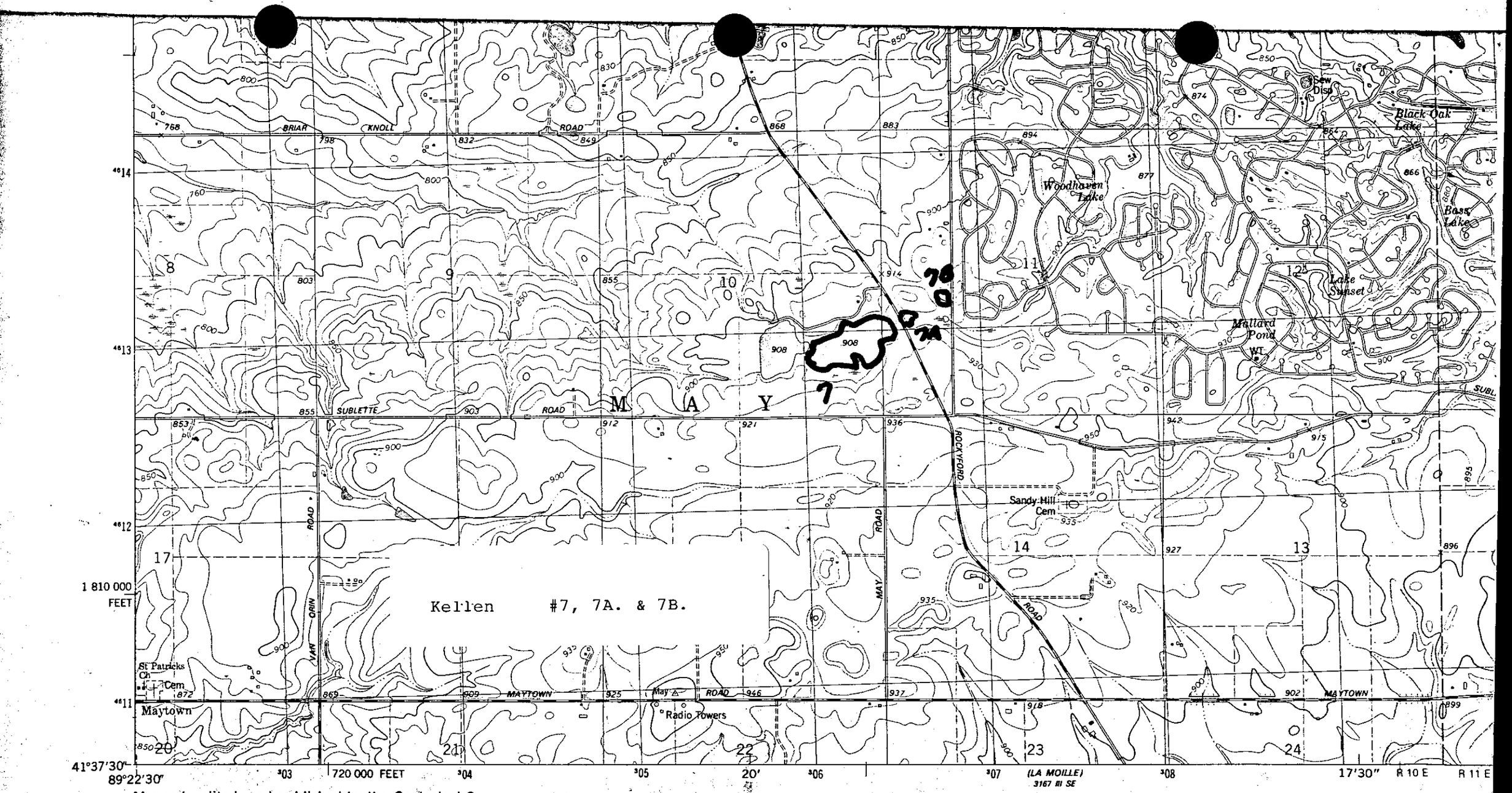
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

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



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)

MN GN 1°32' 27 MILS 1° 18 MILS

SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET

DOTTED LINES REPRESENT 5-FOOT CONTOURS

ILLINOIS

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.

LEE COUNTY, ILLINOIS NO. 88

ILLINOIS MUD TURTLE SURVEY

Site Name: Kellen Coon Cabin Pond #7 **Location:** T 19N - R 10E W½ Sec: 10 W½ SW¼ Sec. 11

Investigators: _____ **Survey Dates:** 6/2 - 5/86

Sheet 1 **of** _____

	Species	ID #	Capture Date	Sex	Weight (Grams)	Carapace (MM) Length	Carapace (MM) Width	Plastron Length	Shell Depth	Age Measurements (MM) 1	2	3	4	5	6	7	8	9	10	11	12
1	Painted (Western)	L-1	6/3/86	F	333.3	147	108	138	46												
2	Painted (Intermediate)	L-2	6/3/86	M	235	126	91	115	43												
3	Painted (Intermediate)	L-9	6/4/86	F	375	149	101	132	59												
4	Painted (Intermediate)	L-10	6/4/86	J	80.9	81	65	76	32												
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Trap type _____ **Trap nights** _____

Water Temp (Daily am/pm)	66	6/3/86	75	6/4/86		6/5/86															
Air Temp (Daily hi/low)	77 / 42					pulled															

Precipitation (Amt./Date) _____

Notes: _____

ILLINOIS MUD TURTLE SURVEY

Site Name: Kellen East of Coon Cabin Pond #7A. **Location:** T 19 N - R 10E W½ Sec. 10 W½ SW¼ Sec.11

Investigators: _____ **Survey Dates:** 6/2 - 5/86

Sheet 1 **of** _____

	Species	ID #	Capture Date	Sex	Weight (Grams)	Carapace (MM) Length	Carapace (MM) Width	Plastron Length	Shell Depth	Age Measurements (MM) 1	2	3	4	5	6	7	8	9	10	11	12
1	Painted (Midland)	L-3	6/3/86	J	86.4	88	70	75	31												
2	Painted (Intermediate)	L-4	6/3/86	J	107.1	95	81	91	37												
3	Painted (Intermediate)	L-5	6/3/86	F	169.2	113	86	108	38												
4	Painted (Intermediate)	L-6	6/3/86	M	275.2	128	98	121	46												
5	Painted (Western)	L-7	6/3/86	M	182.7	113	91	105	39												
6	Painted (Intermediate)	L-8	6/3/86	M	214.1	123	87	117	40												
7	Painted (Midland)	L-11	6/5/86	F	210.0	119	86	112	38												
8																					
9																					
10																					
11																					
12																					

Trap type _____ **Trap nights** _____

Water Temp (Daily am/pm)	69	6/3/86				6/5/86															
Air Temp (Daily hi/low)	77 / 42					pulled															

Precipitation (Amt./Date) _____

Notes: _____

ILLINOIS MUD TURTLE SURVEY

Site Name: Kellen - Water Lily Pond #7B. **Location:** T 19N - R 10E. SE¼ Sec. 10 W½ SW¼ Sec. 11

Investigators: _____ **Survey Dates:** 6/2 - 3/86

Sheet 1 **of** _____

	Species	ID #	Capture Date	Sex	Weight (Grams)	Carapace (MM) Length	Carapace (MM) Width	Plastron Length	Shell Depth	Age Measurements (MM) 1	2	3	4	5	6	7	8	9	10	11	12
1	Painted (Intermediate)	L-1	6/3/86	M	415.9	150	107	139	53												
2	Painted (Western)	L-2	6/3/86	F	289.2	132	97	123	45												
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

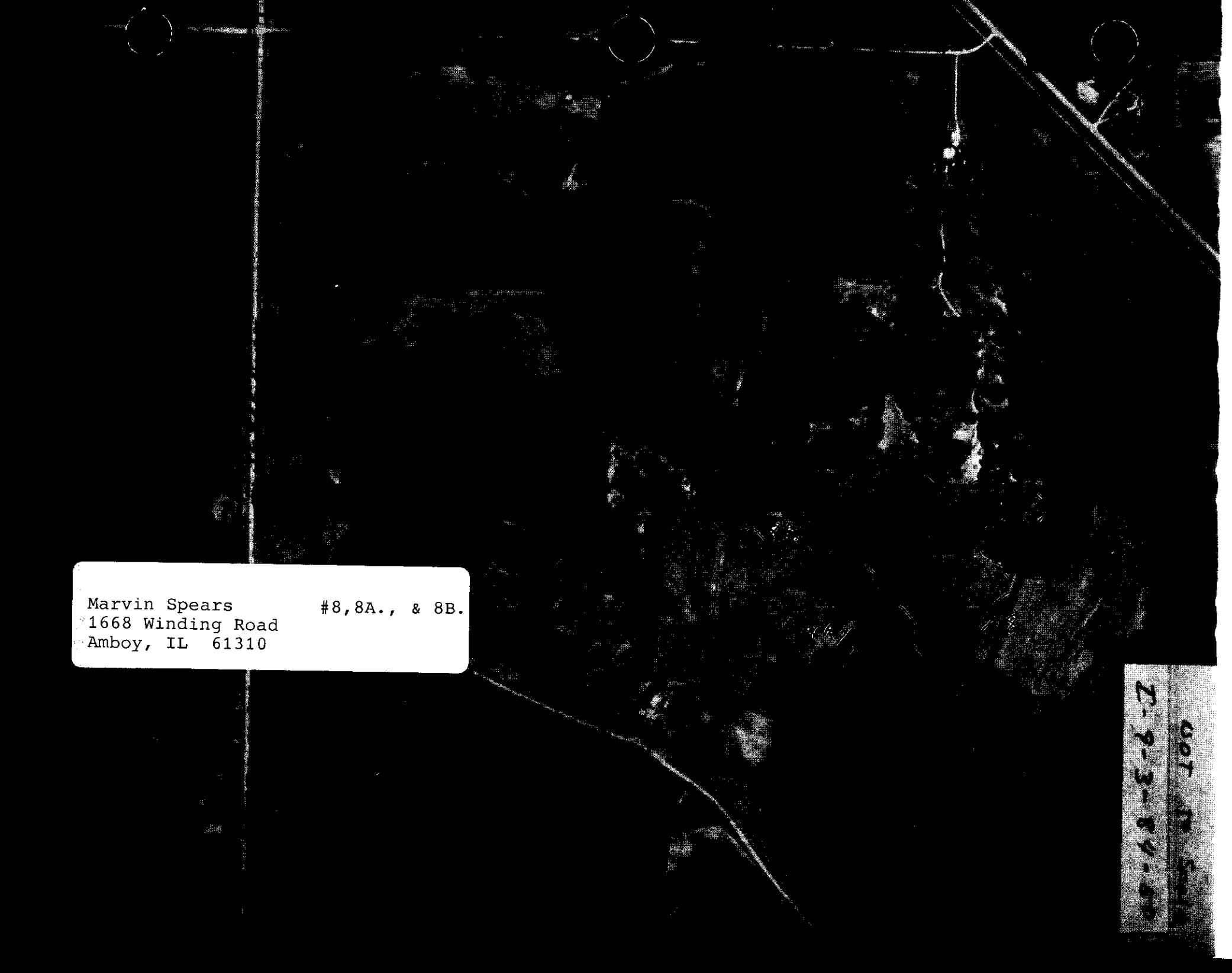
Trap type _____ **Trap nights** _____

Water Temp (Daily am/pm) 64 / 6/3/86

Air Temp (Daily hi/low) 77 / 42

Precipitation (Amt./Date) _____

Notes: _____



Marvin Spears
1668 Winding Road
Amboy, IL 61310

#8,8A., & 8B.

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

T NUMBER 77

77

N

1 Mile
5 000 Feet

Scale 1:15 840

0 0 ¼ ½ ¾ 1

1 000 2 000 3 000 4 000 5 000

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

N.

ILLINOIS MUD TURTLE SURVEY

Site Name: Spear - Large pond #8 **Location:** Twp. T 20N. - R 10E. Sec/ 35

Investigators: _____ **Survey Dates:** 6/2/86-6/11/86

Sheet 1 **of** _____

	Species	ID #	Capture Date	Sex	Weight (Grams)	Carapace (MM) Length	Carapace (MM) Width	Plastron Length	Shell Depth	Age Measurements (MM) 1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Painted (Intermedaite)	L-2	6/3/86	F	329.1	136	97	130	47														
2	Painted (Western)	L-3	6/4/86	J	35.1	60	52	57	25														
3	Painted (Midland)	L-8	6/5/86	J	49.5	61	55	57	25														
4	Painted (Western)	L-9	6/11/86	F	547.5	157	82.4	149.2	62.3														
5	Blanding's	L-5	6/11/86	M	1106.2	199	102.4	187	72.4	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
6																						(15)	38.84
7																							
8																							
9																							
10																							
11																							
12																							

Trap type _____ **Trap nights** _____

Water Temp (Daily am/pm)	68	6/3/86	72	6/4/86	71	6/5/86	67	6/6/86	83	6/11/86													
Air Temp (Daily hi/low)	77/42																						

Precipitation (Amt./Date) _____

Notes: _____

ILLINOIS MUD TURTLE SURVEY

Site: Spear - Large pond #8 **County:** Lee

Locality:

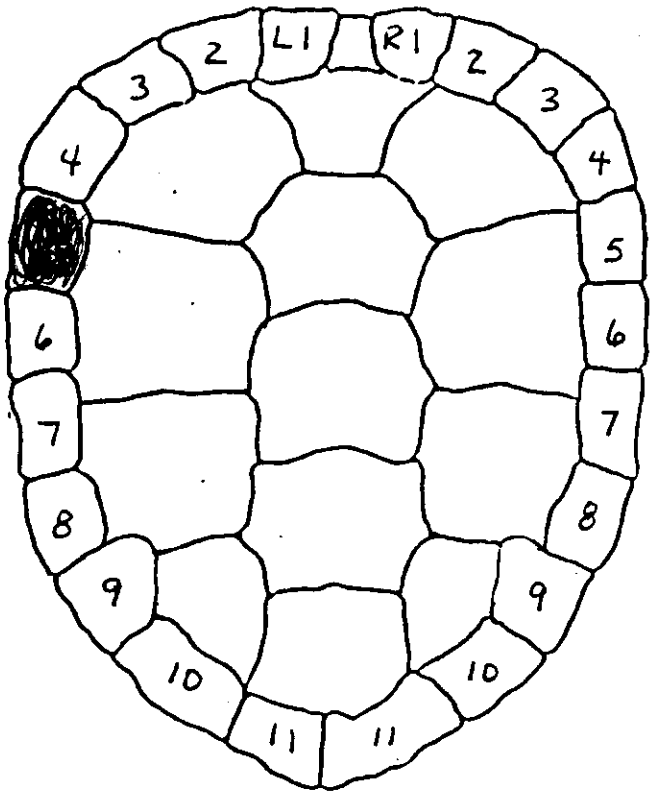
Investigators:

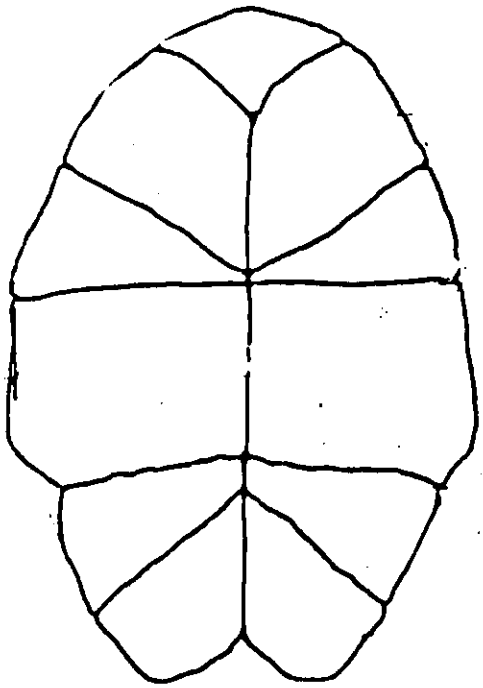
Species: Blanding's

I.D. # 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 Name: Spears (Tiny) #8A. **Location:** Twp. T 20 N. - R 10E. NE¼ NE¼ Sec. 35

Investigators: _____ **Survey Dates:** 6/13/86

Sheet 1 **of** _____

	Species	ID #	Capture Date	Sex	Weight (Grams)	Carapace (MM) Length	Carapace (MM) Width	Plastron Length	Shell Depth	Age Measurements (MM) 1	2	3	4	5	6	7	8	9	10	11	12
1	Blanding's	L-7	6/13/86	F	944.3	185.0	124.1	175.0	77.3	3.76	5.96	7.65	9.94	12.3	13.91	15.21	19.5	25.8	27.32	33.23	
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Trap type _____ **Trap nights** _____

											6/13	70						
Water Temp (Daily am/pm)																		
Air Temp (Daily hi/low)																		

Precipitation (Amt./Date) _____

Notes: _____

ILLINOIS MUD TURTLE SURVEY

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

Locality:

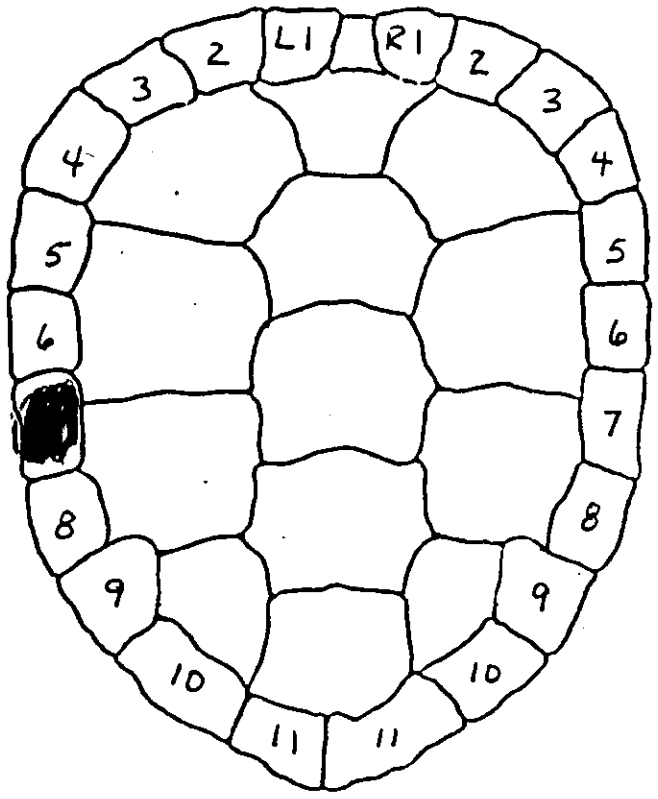
Investigators: Townsend, Glass, Johnston

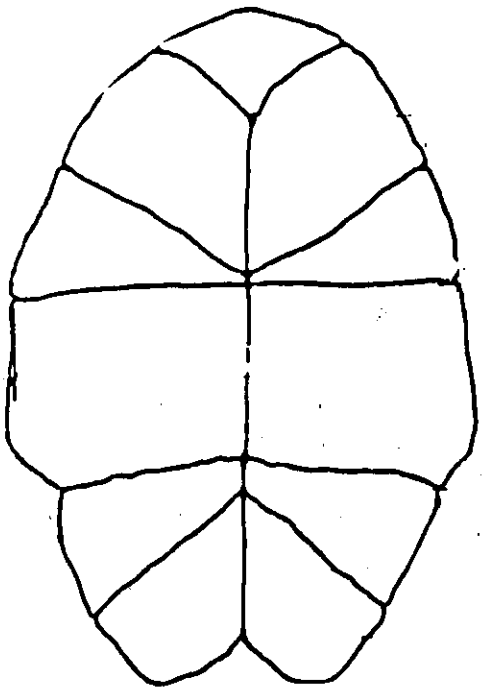
Species: Blanding's

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 Name: Spears - Sm. pond (Blanding's)#8B. **Location:** Twp. T 20N -R 10E. NE¼ NE¼ Sec. 35

Investigators: _____ **Survey Dates:** 6/2/86 - 6/10/86

Sheet 1 **of** _____

	Species	ID #	Capture Date	Sex	Weight (Grams)	Carapace (MM) Length	Carapace (MM) Width	Plastron Length	Shell Depth	Age Measurements (MM) 1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Painted (Intermediate)	L-1	6/3/86	F	154.9	125	93	117	42														
2	Blanding's	L-1	6/3/86	F	1330	207	141	193	88	1.4	2.9	3.7	7.9	12.3	15.0	19.8	21.9	28.2					
3	Blanding's	L-2	6/3/86	F	1251.5	202	132	189	92	1.14	4.68	7.66	10.3	13.7	17.1	24.4	26.	29.52					
4	Blanding's	L-3	6/4/86	F	290.1	126	88	127	50	1.4	2.48	3.64	4.78	5.68	7.76	10.76	13.2	15.46	16.82	19.2	20.28		
5	Painted (Intermediate)	L-4	6/4/86	M	386.9	143	106	137	52														
6	Blanding's	L-4	6/10/86	F	984.7	193	125.0	187	74.5	1.32	3.74	6.0	8.24	10.82	13.62	14.68	18.34	20.4	23.3	25.6	29.7	35.0	39.2
7	Blanding's	L-5	6/12/86	M	280.6	131.6	92.4	122.42	55.46	2.76	3.3	5.0	7.86	10.78	12.96	16.2	20.28						
8	Painted (Western)	L-5	6/13/86	F	487.2	155.0	110.1	146.0	58.2														
9	Painted (Intermediate)	L-6	6/13/86	F	536.3	162.0	117.1	151.2	57.0														
10	Painted (Western)	L-7	6/13/86	F	569.2	169.0	121.2	159.0	60.4														
11																							
12																							

Trap type _____ **Trap nights** _____

Water Temp (Daily am/pm)	68	6/3/86	74	6/4/86		6/5/86	70	6/6/86	75	6/10/86		6/13/86	68										
Air Temp (Daily hi/low)	77/42							pulled															

Precipitation (Amt./Date) _____

Notes: _____

ILLINOIS MUD TURTLE SURVEY

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

Locality: Twp. T 20N. - R 10E. NE¼ NE¼ Sec. 35

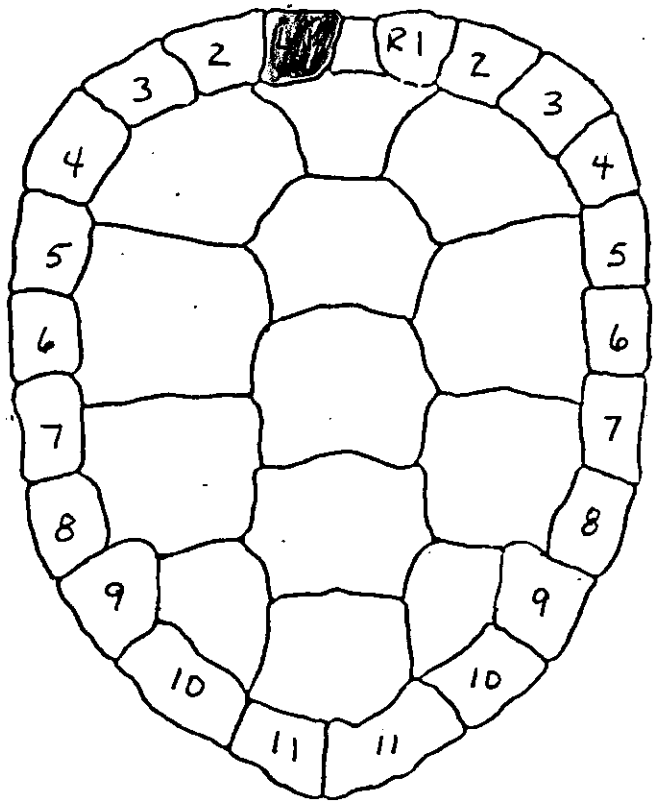
Investigators:

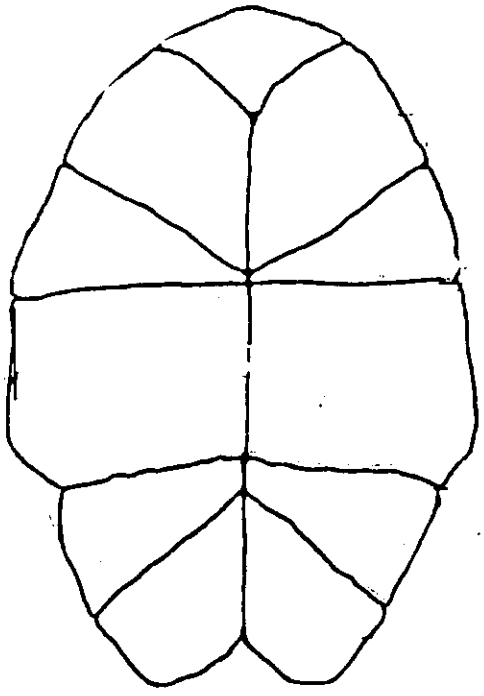
Species: Blanding's

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. NE¼ NE¼ Sec. 35

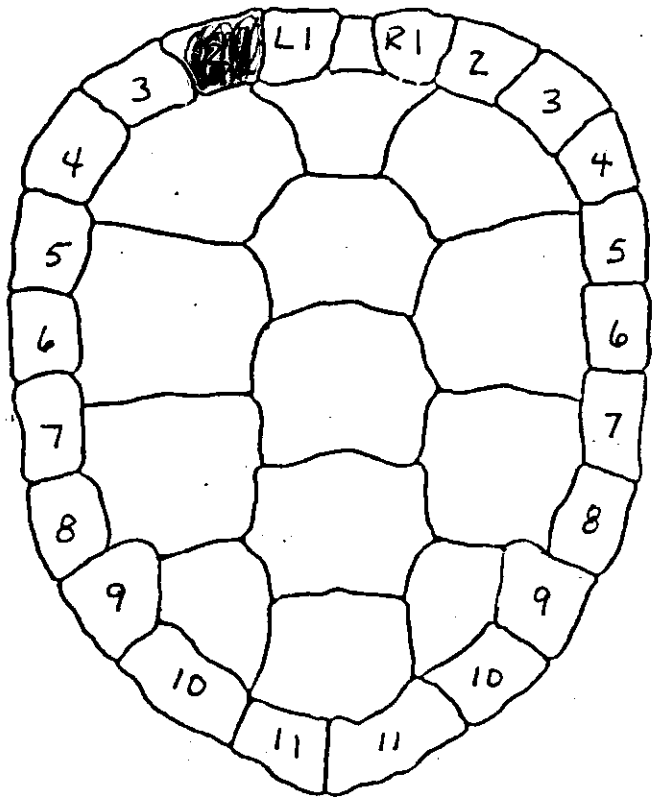
Investigators:

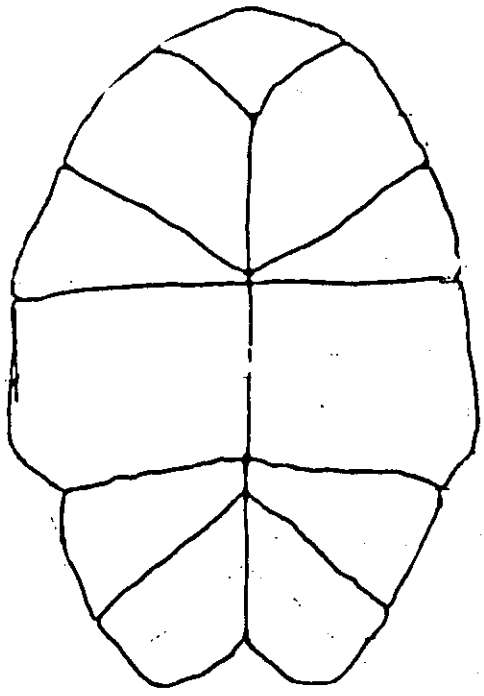
Species: Blanding's

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. NE¼ NE¼ Sec. 35

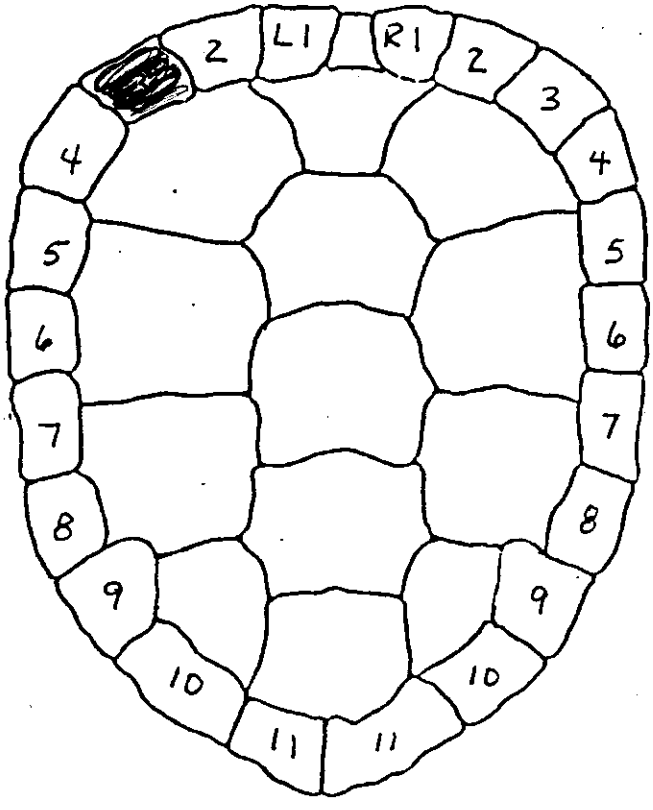
Investigators:

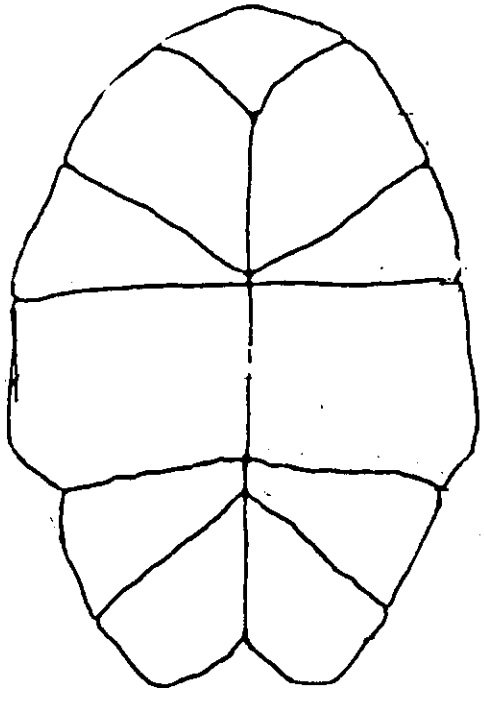
Species: Blanding's

I.D. # 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 NE¼ NE¼ Sec. 35

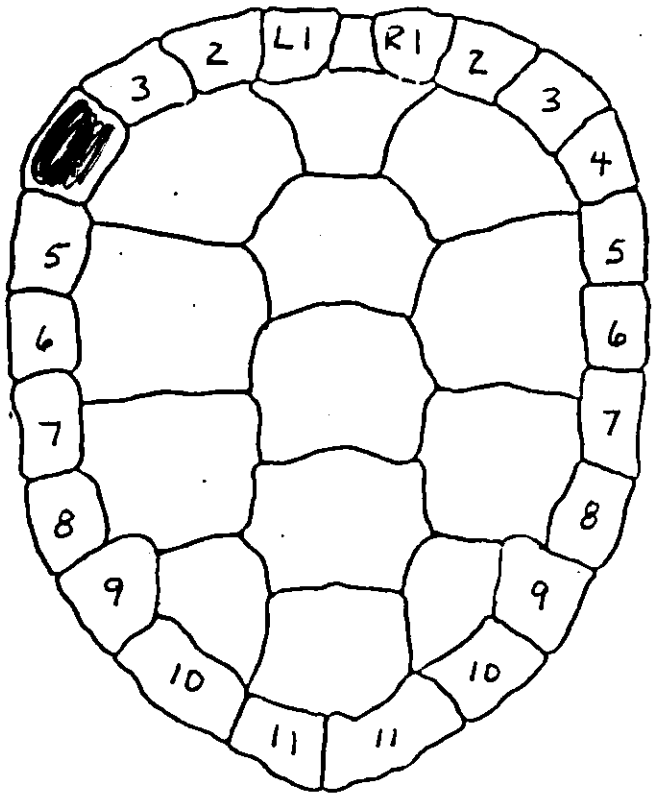
Investigators:

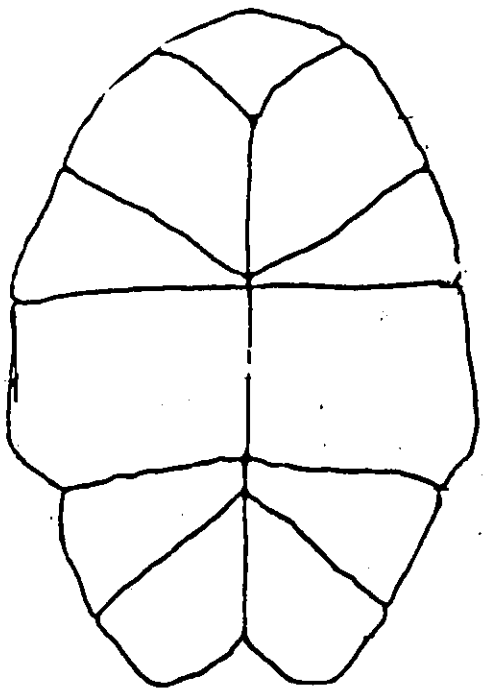
Species: Blanding's

I.D. # 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 NE¼ NE¼ Sec. 35

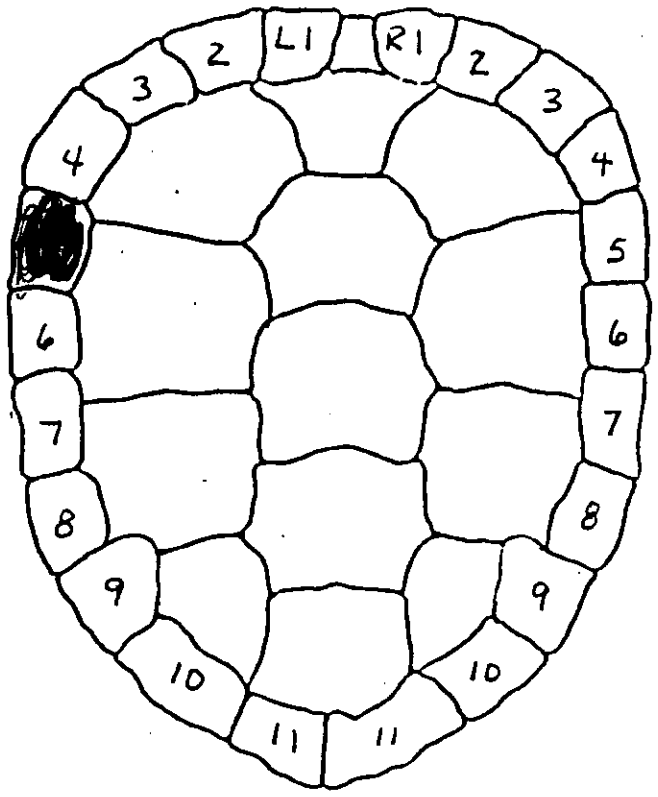
Investigators: Glass, Townsend, Osmer, Jarrard, Harty, Johnston

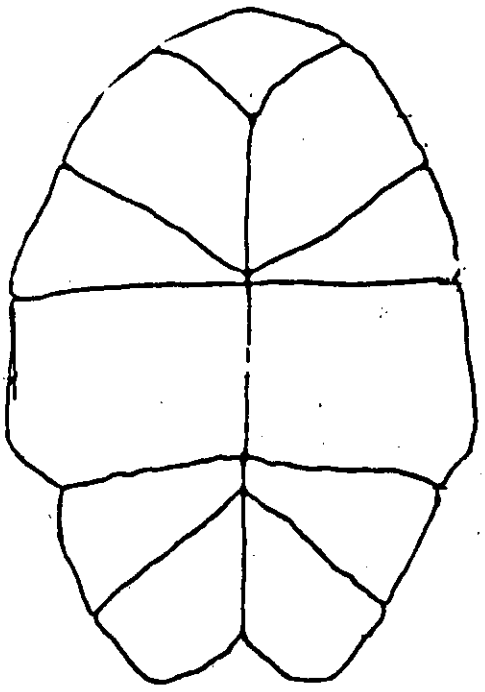
Species: Blanding's

I.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





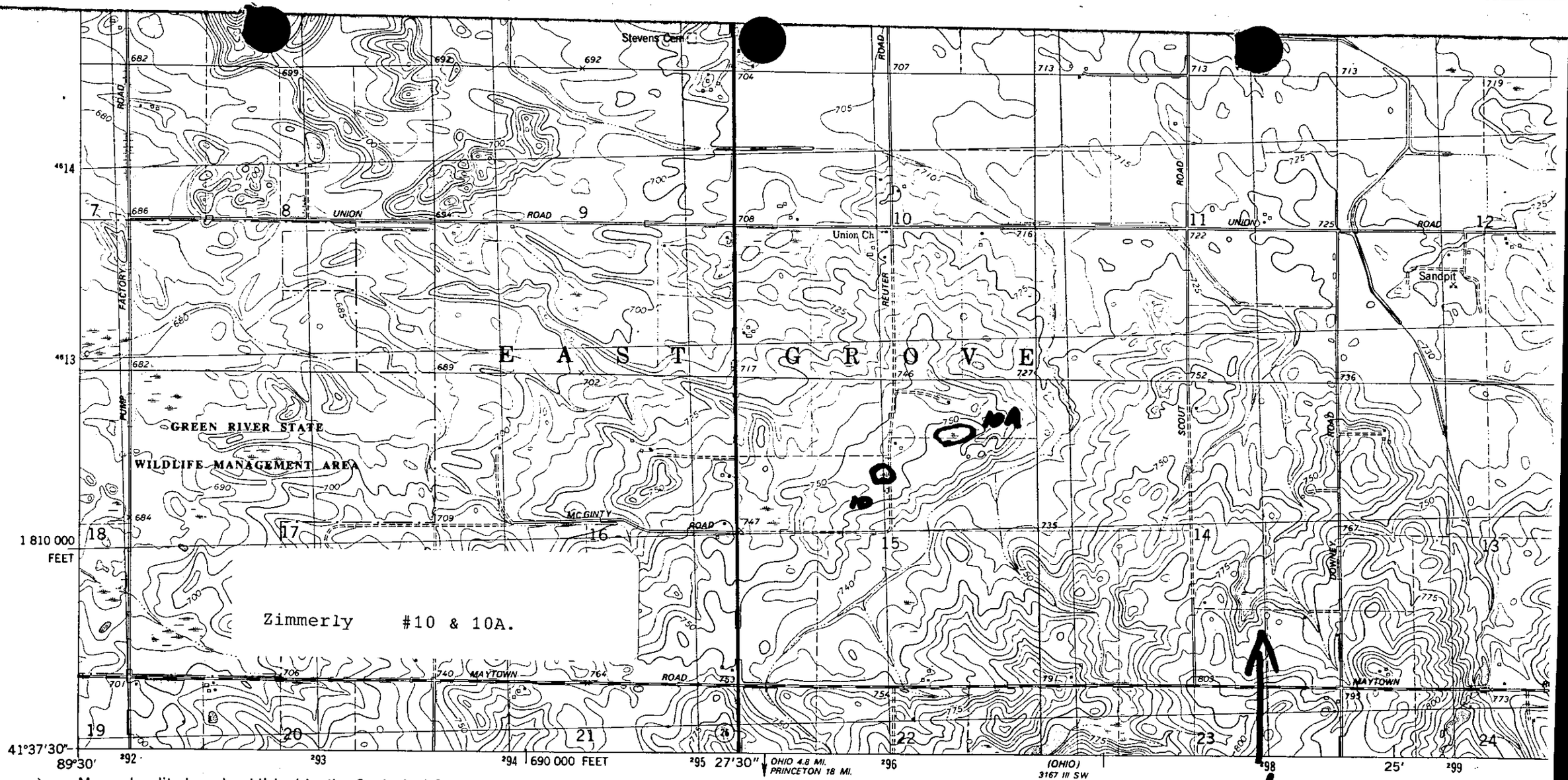
Age Measurements (MM)

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:

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

UTM GRID AND 1982 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

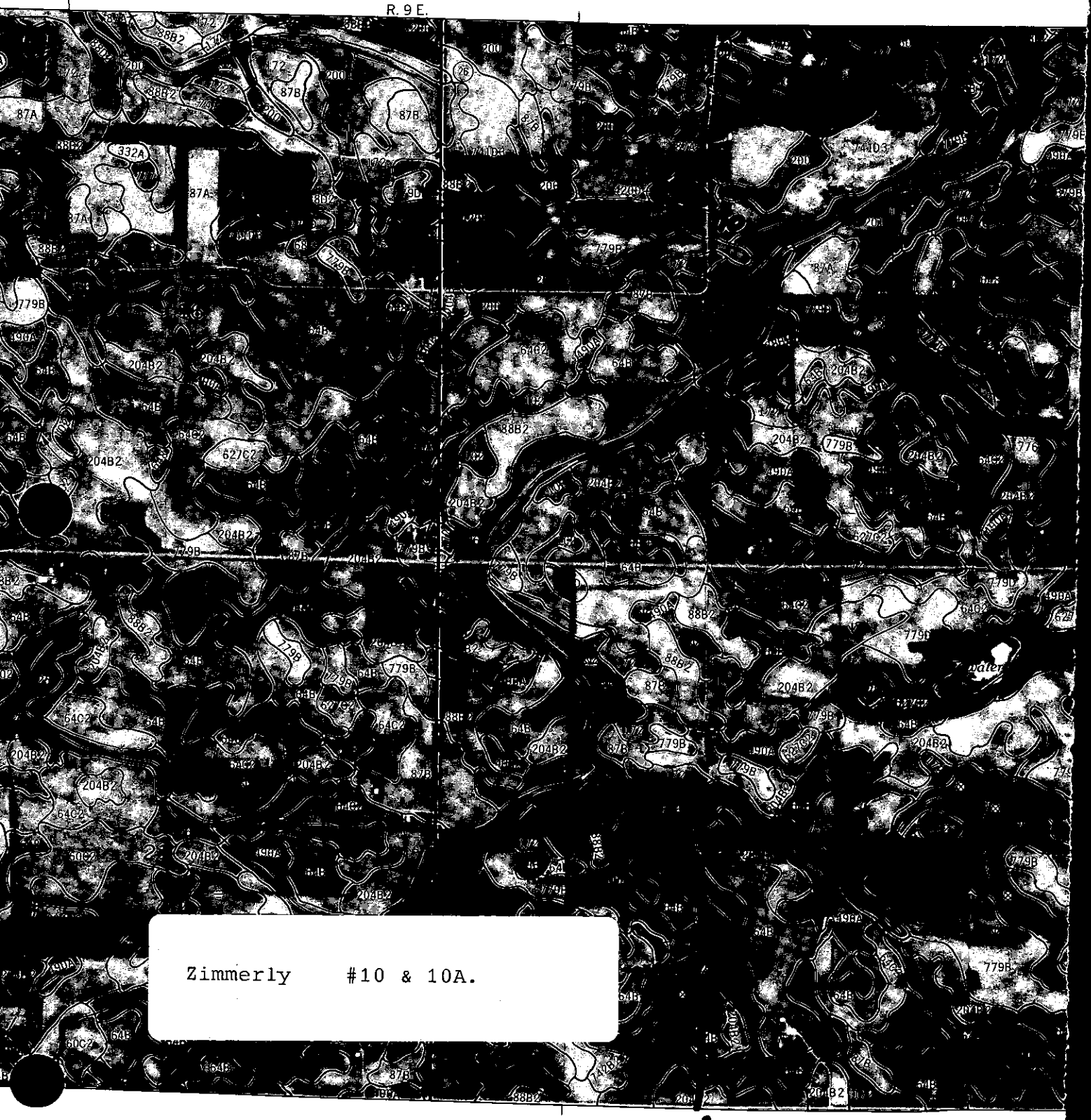
1 .5 0 1 KILOMETER

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

ILLINOIS

QUADRANGLE LOC



Zimmerly #10 & 10A.

ILLINOIS MUD TURTLE SURVEY

Site Name: Zimmerly #10 **Location:** T 19N - R 9E SE¼ NW¼ Sec.15

Investigators: Glass, townsend, Johnston, Jarrard, Osmer **Survey Dates:** 6/11 - 13/86

Sheet 1 **of** _____

	Species	ID #	Capture Date	Sex	Weight (Grams)	Carapace (MM) Length	Carapace (MM) Width	Plastron Length	Shell Depth	Age Measurements (MM) 1	2	3	4	5	6	7	8	9	10	11	12	13
1	Mud	L-1	6/11/86	M	344.2	125.0	91.40	110.90	44.92	1.52	2.94	3.14	5.96	8.42	11.54	14.30	16.28	17.56	17.78			
2	Painted (Intermediate)	L-1	6/11/86	F	493.3	161	117	149	55													
3	Painted (Intermediate)	L-2	6/11/86	F	426.7	162	115	149	51													
4	Blanding's	L-1	6/11/86	M	1262.9	200	140	190	68	1.00	1.98	5.84	8.98	14.62	17.0	21.62	25.14	28.12	30.0			
5	Blanding's (previously marked by someone else)	R-1	6/12/86	F	1440.2	210	138	120.9	90	2.0	3.0	4.1	5.2	8.1	14.1	17.0	20.0	20.2	26.5	29.8	36.0	38.5
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Trap type _____ **Trap nights** _____

Water Temp (Daily am/pm) 77 | 6/11/86

Air Temp (Daily hi/low)

Precipitation (Amt./Date) _____

Notes: _____

ILLINOIS MUD TURTLE SURVEY

Site: Zimmerly #10 **County:** Lee

Locality: East Grove Twp. T 19N - R 9E SE¼ NW¼ Sec. 15

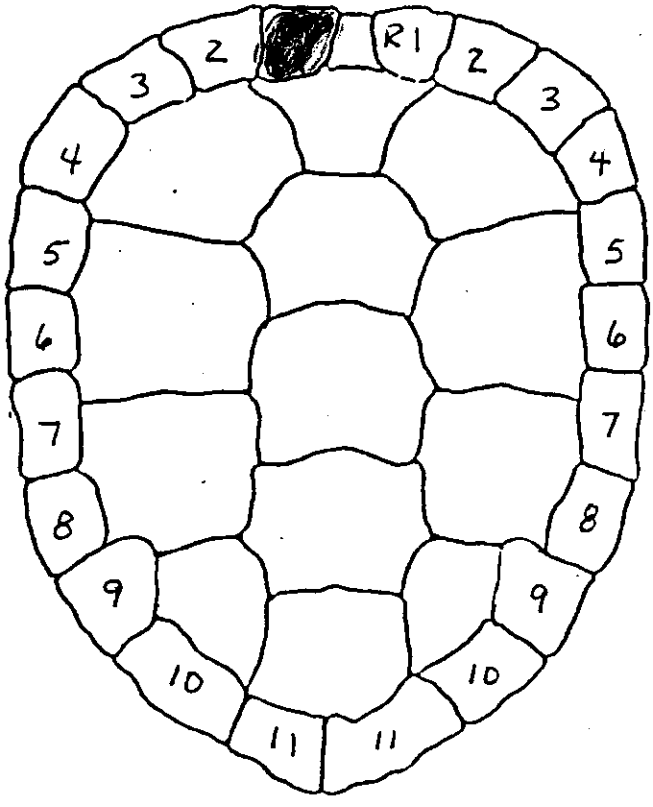
Investigators: Bill Glass, Karen Townsend

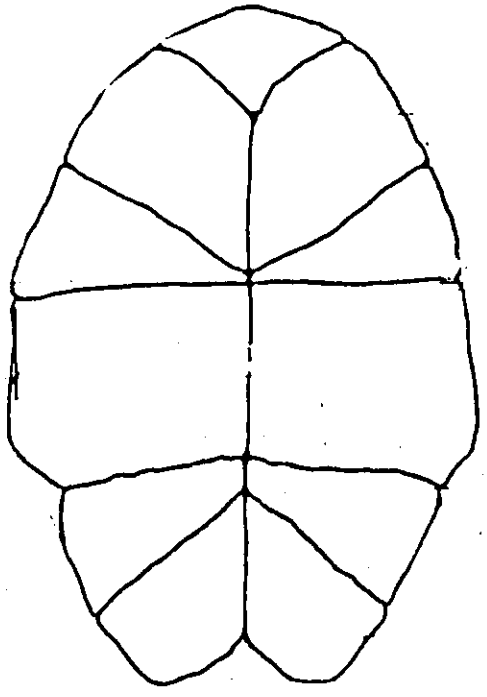
Species: Mud

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. SE¼ NW¼ Sec. 15

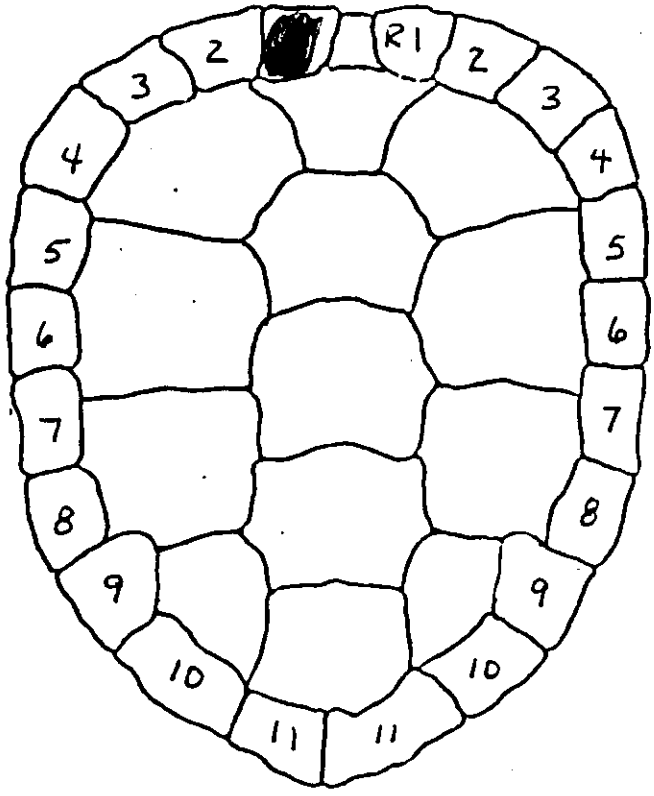
Investigators:

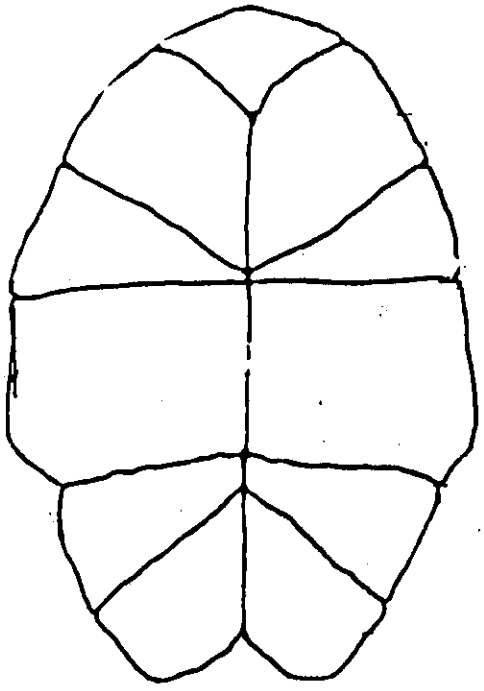
Species: Blanding's

I.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.

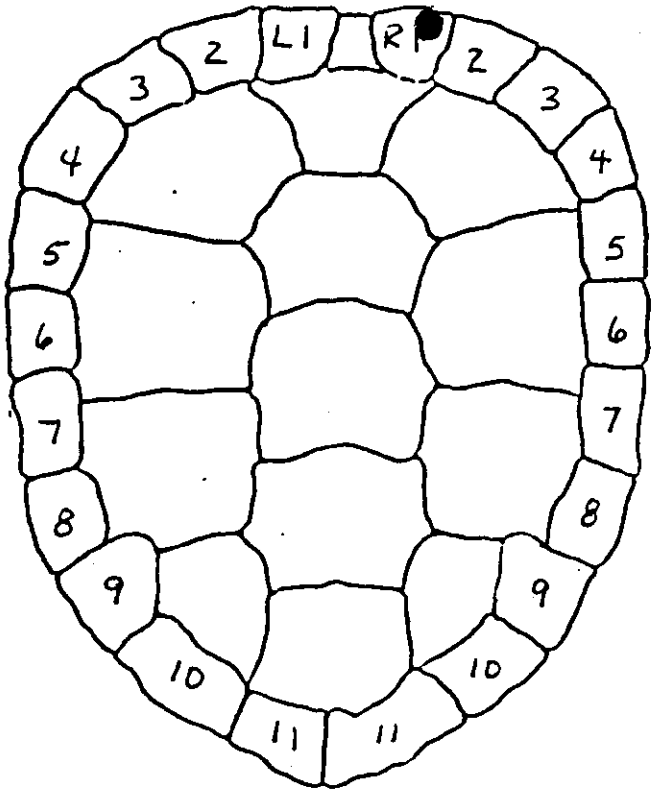
Investigators:

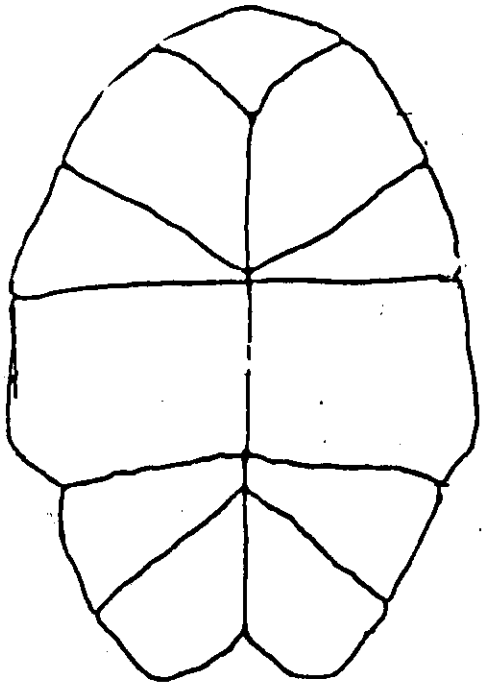
Species: Blanding's

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

ILLINOIS MUD TURTLE SURVEY

Site Name: Zimmerly - East #10A. **Location:** Lee

Investigators: Glass, Townsend **Survey Dates:** 6/13/86

Sheet 1 **of** ____

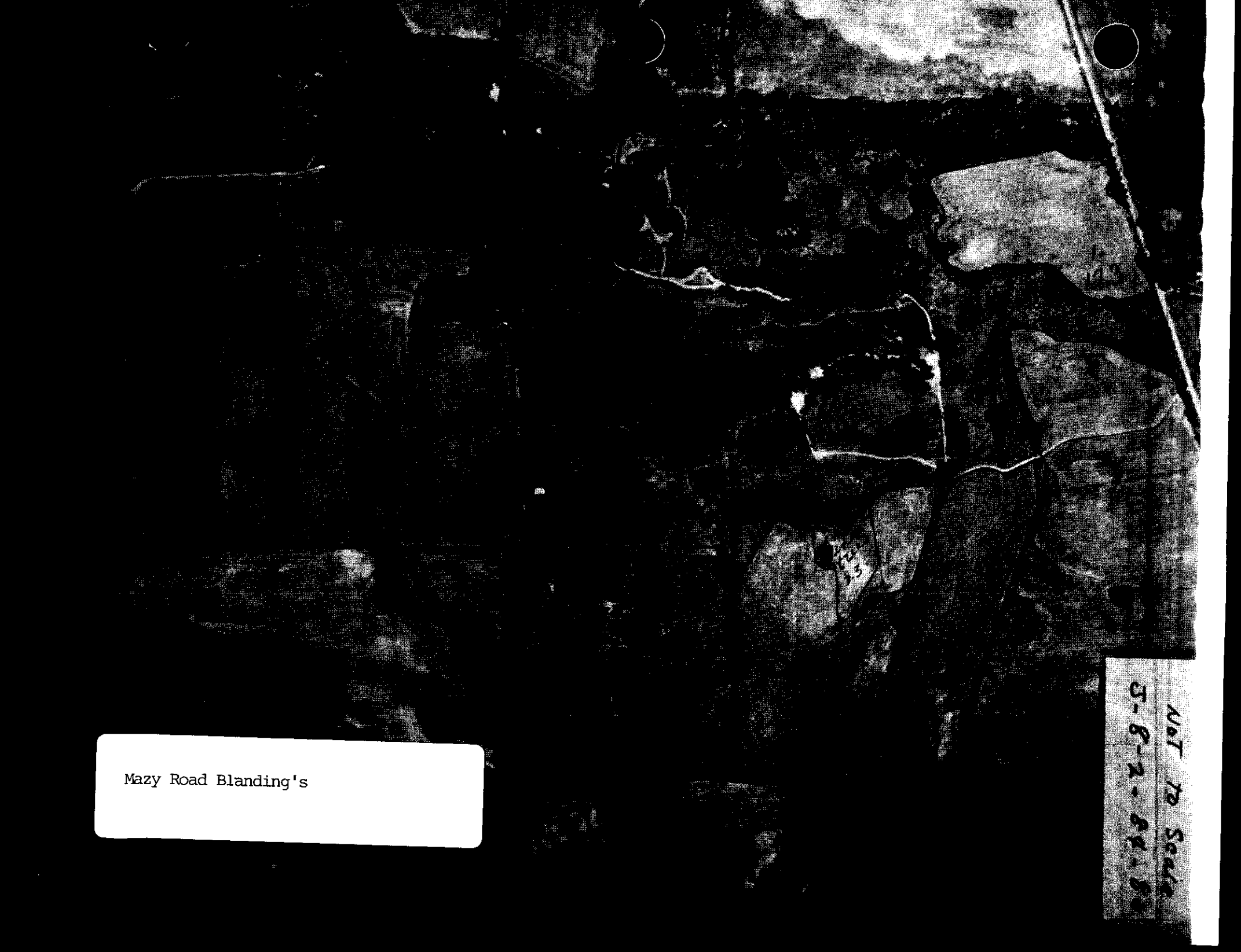
	Species	ID #	Capture Date	Sex	Weight (Grams)	Carapace (MM) Length	Carapace (MM) Width	Plastron Length	Shell Depth	Age Measurements (MM) 1	2	3	4	5	6	7	8	9	10	11	12
1	Painted (Intermediate)	L-3	6/13/86	F	411.1	150.3	109.3	137	51.2												
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Trap type ____ **Trap nights** ____

Water Temp (Daily am/pm)	65	6/13/86																			
Air Temp (Daily hi/low)																					

Precipitation (Amt./Date) ____

Notes: ____



Mazy Road Blanding's

ILLINOIS MUD TURTLE SURVEY

Site Name: Mazy Road **Location:** Lee Co.

Investigators: **Survey Dates:**

Sheet 1 **of** ____

	Species	ID #	Capture Date	Sex	Weight (Grams)	Carapace (MM) Length	Carapace (MM) Width	Plastron Length	Shell Depth	Age Measurements (MM) 1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Blanding's	L-1	6/10/86	M	1255	215.0	133.0	196.5	78.0	2.24	3.6	6.28	9.82	11.94	14.10	18,84	20.62	22.38	26.24	29.62	31.88	35.76	42
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Trap type ____ **Trap nights** ____

Water Temp (Daily am/pm)	65	6/9/86																					
Air Temp (Daily hi/low)																							

Precipitation (Amt./Date) ____

Notes: ____

ILLINOIS MUD TURTLE SURVEY

Site: Mazy Road **County:** Lee

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

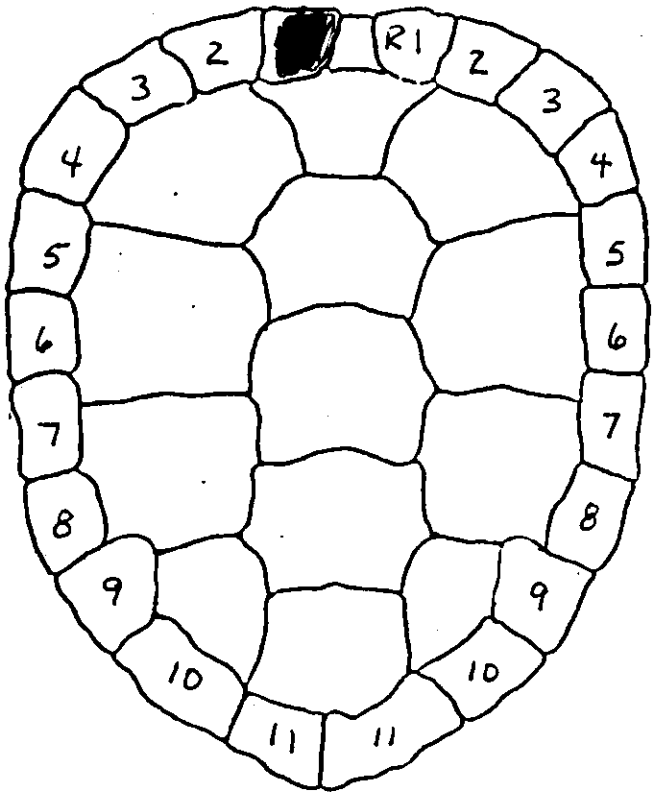
Investigators:

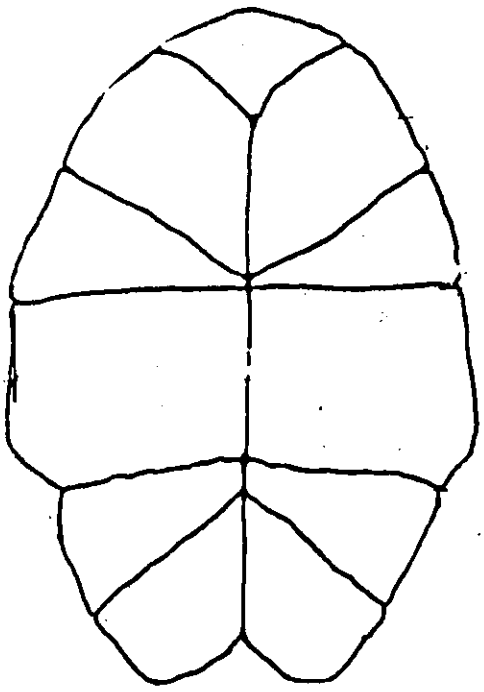
Species: Blanding's

I.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 yeilded only Painted turltes. 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 occassionally. 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 yeilded 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. Tuberous 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	Cattail
Wormwood	Arrowhead
Needlegrass	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