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ILLINOIS NATURAL HISTORY SURVEY



CENTER FOR WILDLIFE ECOLOGY

Aerial Waterfowl Inventories of Environmental Management
Program Sites in the Confluence Region of the Illinois
and Mississippi Rivers

Annual Report

by

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Illinois Natural History Survey

1 September 1991 through 31 August 1992

The purpose of this project was to aeriially inventory waterfowl during fall and spring, 1991-1992 at Stump Lake, Swan Lake, Dresser Island, Batchtown, and Pharrs Island EMP sites. Inventories were conducted from light aircraft flying at low levels. Fall inventories were made on 4 and 12 September; 7, 15, and 21 October; 4, 13, 18, and 25 November; 4 and 9 December; and 9 January. Spring inventories were made on 25 February; 2, 11, 16, and 24 March; and 1, 7, and 14 April. Species of waterfowl and their respective numbers were recorded during each inventory.

The inventory data is summarized by site in tabular form displaying the peak (highest number counted for all inventories) population count by species for each compartment at each site and also for the entire site during fall (Sept.-Jan.) and spring (Feb.-Apr.) (Tables 2, 5, 8, 11, and 14). The peak number for the entire site may not represent the sum of the peaks for all the compartments because the peak numbers in the various compartments could have occurred on different flight dates. Additionally, the results of each waterfowl inventory are provided by date for each site (Tables 3, 4, 6, 7, 9, 10, 12, 13, 15, and 16). Copies of maps delineating the areas inventoried at each site are also provided (Figures 1-5).

Table 1. Common names of waterfowl aerially inventoried and abbreviations used in the report.

Common name		Abbreviation
Dabbling ducks		
Mallard	=	MALLARD
American black duck	=	BLK
Northern pintail	=	PNT
Blue-winged teal	=	BWT
Green-winged teal	=	GWT
American wigeon	=	WIG
Gadwall	=	GAD
Northern shoveler	=	SH
Diving ducks		
Lesser and greater scaup	=	SCAUP
Ring-necked duck	=	RN
Canvasback	=	CNVB
Redhead	=	RH
Ruddy duck	=	RDY
Common goldeneye	=	GLD
Bufflehead	=	BH
Mergansers		
Common merganser	=	CM
Red-breasted merganser	=	RBM
Hooded merganser	=	HM
Geese		
Canada goose	=	CG
Snow goose	=	B&SG
American coot	=	COOT
Double-crested cormorant	=	CORM
Pelican	=	PEL

Stump Lake

Table 2. Peak numbers of waterfowl aerially inventoried by the Illinois Natural History Survey at Stump Lake EMP site, fall and spring, 1991-1992^a.

	Compartment 1		Compartment 2		Compartment 3		Compartment 4		Total	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Dabbling ducks										
Mallard	800	600	1,600	300	25	100	400	25	2,800	900
American black duck	0	0	0	0	0	0	0	0	0	0
Northern pintail	10	0	250	75	0	0	50	0	300	75
Blue-winged teal	0	0	0	0	0	0	0	0	0	0
Green-winged teal	100	0	200	0	0	25	0	0	300	25
American wigeon	200	0	1,200	0	100	0	75	0	1,225	0
Gadwall	0	0	250	0	0	0	0	0	250	0
Northern shoveler	0	10	0	0	0	0	0	0	0	10
All dabbling ducks	1,100	600	2,475	375	100	100	475	25	4,150	975
Diving ducks										
Lesser & greater scaup	0	0	0	0	0	0	0	100	0	100
Ring-necked duck	0	100	0	200	0	0	0	700	0	1,000
Canvasback	0	0	0	0	0	0	0	0	0	0
Redhead	0	0	0	0	0	0	0	0	0	0
Ruddy duck	0	0	0	0	0	0	0	0	0	0
Common goldeneye	0	0	0	0	0	0	20	0	0	0
Bufflehead	0	0	0	0	0	0	0	0	0	0
All diving ducks	0	100	0	200	0	0	20	800	0	1,100
Mergansers										
Common merganser	0	15	0	0	0	0	0	0	0	15
Red-breasted merganser	0	0	0	0	0	0	0	0	0	0
Hooded merganser	0	0	0	0	0	0	0	0	0	0
All mergansers	0	15	0	0	0	0	0	0	0	15
All ducks	1,100	700	2,475	575	100	100	475	800	4,150	2,075
Geese										
Canada goose	25	25	5	10	0	0	120	20	145	35
Snow goose	0	0	0	0	0	0	0	0	0	0
American coots	2,000	300	3,500	300	0	0	20	200	5,500	650

^a The peak number for the entire site may not represent the sum of the peaks for all the compartments because the peak numbers in the various compartments could have occurred on different flight dates.

Table 3. Waterfowl aerial inventory data for each individual flight for Stump Lake EMP site, fall 1991.

STUMP LAKE		MALLARD	BLK	PNT	BWT	GWT	WIG	GAD	SH	SCAUP	RN	CNVB	RH	RDY	GLD	BH	CH	RBM	HM	DABLERS	TOTAL						
																					DIVERS	MERG.	DUCKS	TOTAL			
Compartment 1																											
09/04/91	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	
09/12/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0
10/07/91	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
10/15/91	500	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	525	0	0	525	25	0	100
10/21/91	800	0	0	0	100	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,100	0	0	1,100	0	0	2,000
11/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/91	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	10	0	0	0
11/25/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/09/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01/09/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Compartment 2																											
09/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/12/91	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	30	0	0	0
10/07/91	1,200	0	250	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,550	0	0	1,550	5	0	0
10/15/91	850	0	75	0	0	1,200	250	0	0	0	0	0	0	0	0	0	0	0	0	0	2,375	0	0	2,375	0	0	300
10/21/91	1,600	0	75	0	200	500	100	0	0	0	0	0	0	0	0	0	0	0	0	0	2,475	0	0	2,475	0	0	3,500
11/04/91	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	25	0	0	0
11/13/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/09/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01/09/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Compartment 3																											
09/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/12/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/07/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/91	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	20	0	0	0
10/21/91	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	100	0	0	0
11/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/91	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	25	0	0	0
11/25/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/09/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01/09/92	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	25	0	0	0

Table 3 continued.

	TOTAL																	TOTAL												
	MALLARD	BLK	PNT	BMT	GMT	WIG	GAD	SH	SCAUP	RN	CNVB	RH	RDY	GLD	BH	CM	RBM		IHM	DABBLERS	DIVERS	MERG.	DUCKS	CG	B&SG	COOT				
STUMP LAKE																														
Compartment 4																														
09/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09/12/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/07/91	50	0	50	0	0	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	175	0	0	175	10	0	0	0	0	
10/15/91	400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	400	0	0	400	120	0	0	0	0	
10/21/91	400	0	0	0	0	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	475	0	0	475	0	0	0	0	0	
11/04/91	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0	50	0	0	0	20	0	
11/13/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/09/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01/09/92	50	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	50	20	0	70	0	0	0	0	0	
Total	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	25	20	0	0	0	0	0	
09/04/91	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	30	10	0	0	0	0	0	
09/12/91	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,825	0	0	1,825	15	0	0	0	0	0	
10/07/91	1,350	0	300	0	0	175	0	0	0	0	0	0	0	0	0	0	0	0	0	3,320	0	0	3,320	145	0	0	0	0	0	
10/15/91	1,770	0	75	0	0	1,225	250	0	0	0	0	0	0	0	0	0	0	0	0	4,150	0	0	4,150	0	0	0	0	0	0	
10/21/91	2,800	0	75	0	300	875	100	0	0	0	0	0	0	0	0	0	0	0	0	75	0	0	75	0	0	0	0	0	0	
11/04/91	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11/13/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	0	0	35	0	0	0	0	0	0	
11/18/91	25	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11/25/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/09/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01/09/92	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	25	0	0	0	0	0	0	

Table 4. Waterfowl aerial inventory data for each individual flight for Stump Lake EMP site, spring 1992.

STUMP LAKE		TOTAL																									
		MALLARD	BLK	PNT	BVT	GWT	WIG	GAD	SH	SCAUP	RN	CNVB	RH	RDY	GLD	BH	CH	RBH	HM	DABLERS	DIVERS	MERG.	DUCKS	CG	B&SG	COOT	
Compartment 1																											
	02/25/92	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	150	0	0	165	20	0	0	200
	03/02/92	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200	0	0	200	25	0	0	50
	03/11/92	600	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	600	100	0	700	25	0	0	0
	03/16/92	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	100	0	100	10	0	0	300
	03/24/92	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200	0	0	200	0	0	0	50
	04/01/92	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	20	0	20	10	0	0	150
	04/07/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	04/14/92	20	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	30	0	0	30	5	0	0	0
Compartment 2																											
	02/25/92	300	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	325	0	0	325	0	0	0	100
	03/02/92	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200	0	0	200	10	0	0	0
	03/11/92	300	0	75	0	0	0	0	0	200	0	0	0	0	0	0	0	0	0	375	200	0	575	0	0	0	0
	03/16/92	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	100	0	0	0	0	200
	03/24/92	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	100	0	0	0	0	200
	04/01/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300
	04/07/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300
	04/14/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Compartment 3																											
	02/25/92	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	100	0	0	0	0
	03/02/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	03/11/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	03/16/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	03/24/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	04/01/92	50	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	75	0	0	75	0	0	0	0
	04/07/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	04/14/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Compartment 4																											
	02/25/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	03/02/92	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	25	0	0	0	100
	03/11/92	0	0	0	0	0	0	0	100	700	0	0	0	0	0	0	0	0	0	0	800	0	800	0	0	0	200
	03/16/92	20	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	20	50	0	70	0	0	0	
	03/24/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
	04/01/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200
	04/07/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200
	04/14/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 4 continued.

	TOTAL TOTAL TOTAL TOTAL																										
	MALLARD	BLK	PNT	BMT	GMT	WIG	GAD	SH	SCAUP	RN	CNVB	RH	RDY	GLD	BH	CM	RBM	HM	DABLERS	DIVERS	MERG.	DUCKS	CG	B&SG	COOT		
Stump Lake Total																											
02/25/92	550	0	25	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	575	0	15	590	20	0	0	300	
03/02/92	425	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	425	0	0	425	35	0	0	150	
03/11/92	900	0	75	0	0	0	0	0	100	1,000	0	0	0	0	0	0	0	0	975	1,100	0	2,075	25	0	0	200	
03/16/92	120	0	0	0	0	0	0	0	0	150	0	0	0	0	0	0	0	0	120	150	0	270	10	0	0	500	
03/24/92	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300	0	0	300	0	0	0	300	
04/01/92	50	0	0	0	25	0	0	0	0	20	0	0	0	0	0	0	0	0	75	20	0	95	30	0	0	650	
04/07/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	500	
04/14/92	20	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	30	0	0	30	10	0	0	25	

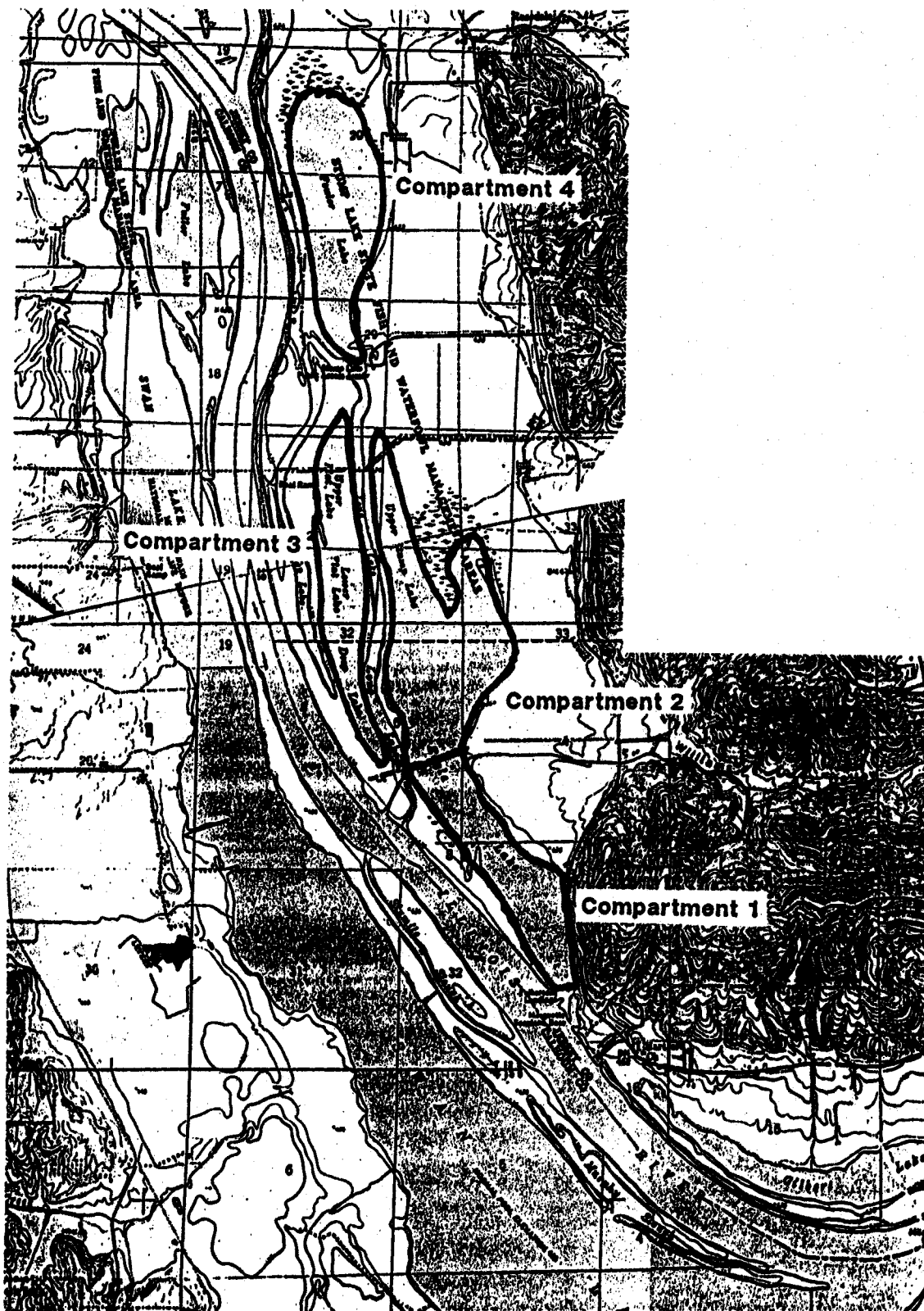


Figure 1. The Stump Lake EMP site with boundaries drawn delineating compartments 1, 2, 3, and 4.

Swan Lake

Table 5. Peak numbers of waterfowl aerially inventoried by the Illinois Natural History Survey at Swan Lake EMP site, fall and spring, 1991-1992^a.

	Compartment 1		Compartment 2		Compartment 3		Total	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Dabbling ducks								
Mallard	22,000	300	47,000	1,800	2,200	5,000	54,050	5,200
American black duck	200	0	470	25	25	0	540	25
Northern pintail	500	0	2,500	0	125	50	3,000	50
Blue-winged teal	50	0	300	0	500	0	800	0
Green-winged teal	900	0	2,500	220	400	100	2,500	320
American wigeon	2,600	0	4,000	75	100	600	5,800	600
Gadwall	1,500	0	5,000	200	0	800	6,500	1,000
Northern shoveler	0	0	0	0	0	600	0	600
All dabbling ducks	26,300	300	59,970	2,100	2,300	6,850	69,090	7,250
Diving ducks								
Lesser & greater scaup	2,500	400	1,300	600	50	1,500	3,300	1,600
Ring-necked duck	100	300	75	650	0	2,000	175	2,300
Canvasback	800	250	350	100	100	200	900	350
Redhead	0	0	0	0	0	0	0	0
Ruddy duck	0	25	0	0	0	0	0	25
Common goldeneye	250	0	50	0	0	100	50	100
Bufflehead	0	0	0	0	0	0	0	0
All diving ducks	2,625	700	1,300	750	100	3,700	3,850	4,100
Mergansers								
Common merganser	10	0	0	50	0	25	0	50
Red-breasted merganser	0	0	0	0	0	0	0	0
Hooded merganser	0	0	0	0	0	0	0	0
All mergansers	10	0	0	50	0	25	0	50
All ducks	28,300	1,000	61,270	2,800	2,300	7,550	70,790	7,950
Geese								
Canada goose	1,640	0	1,800	30	40	0	2,740	30
Snow goose	4,300	0	0	0	0	0	4,300	0
American coots	1,000	1,100	1,500	800	0	600	2,000	1,900

^a The peak number for the entire site may not represent the sum of the peaks for all the compartments because the peak numbers in the various compartments could have occurred on different flight dates.

Table 6. Waterfowl aerial inventory data for each individual flight for Swan Lake EHP site, fall 1991.

		MALLARD	BLK	PNT	BWT	GNT	WIG	GAD	SH	SCAUP	RN	CNWB	RH	RDY	GLD	BH	CM	RBM	HM	DABLERS	DIVERS	MERG.	DUCKS	CG	B&SG	COOT			
		TOTAL TOTAL TOTAL																											
SWAN LAKE																													
Compartment 1																													
09/04/91	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09/12/91	150	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10/07/91	525	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10/15/91	2,425	0	200	0	300	75	0	0	0	450	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10/21/91	5,500	0	500	0	0	2,600	1,100	0	2,500	100	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11/04/91	22,000	200	200	0	900	2,000	1,000	0	1,200	0	800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11/13/91	7,000	70	500	0	0	0	1,500	0	0	400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11/18/91	11,500	115	500	0	0	0	500	0	400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11/25/91	4,500	0	500	0	0	0	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12/04/91	500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12/09/91	5,300	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01/09/92	350	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Compartment 2																													
09/04/91	200	240	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/12/91	175	0	250	100	300	1,000	400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/07/91	2,600	100	350	300	1,000	400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/91	3,500	0	675	0	500	1,500	400	0	800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/91	7,000	0	950	0	1,500	3,100	2,000	0	800	75	350	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/04/91	8,000	20	0	0	1,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/91	47,000	470	1,000	0	2,500	4,000	5,000	0	1,300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/91	18,800	190	2,500	0	1,700	1,500	3,000	0	700	0	200	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/91	1,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/04/91	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/09/91	6,500	100	0	0	0	0	0	0	200	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01/09/92	50	0	0	0	0	0	0	0	0	0	0	0	0	250	0	10	0	0	0	0	0	0	0	0	0	0	0	0	
Compartment 3																													
09/04/91	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/12/91	400	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/07/91	600	0	500	400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/91	200	0	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/91	2,200	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/04/91	400	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/91	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/91	200	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/09/91	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01/09/92	250	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 6 continued.

	TOTAL																TOTAL	TOTAL	TOTAL								
	MALLARD	BLK	PNT	BWT	GMT	WTG	GAD	SH	SCALUP	RN	CNV8	RH	RDY	GLD	BH	CM				RBM	HM	DABBLERS	DIVERS	MERG.	DUCKS	CG	B&SG
SWAN LAKE																											
Total	250	265	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	640	0	0	640	0	0	0	0
09/04/91	725	0	0	300	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,145	0	0	1,145	70	0	0	0
09/12/91	3,725	100	370	800	1,400	400	0	0	0	0	0	0	0	0	0	0	0	0	0	6,795	0	0	6,795	220	20	0	0
10/07/91	6,125	0	1,000	0	800	1,575	400	0	1,250	0	0	0	0	0	0	0	0	0	0	9,900	1,250	0	11,150	515	150	2,000	0
10/15/91	14,700	0	1,450	0	1,500	5,800	3,100	0	3,300	175	375	0	0	0	0	0	0	0	0	26,550	3,850	0	30,400	220	25	0	0
10/21/91	30,400	220	200	0	2,100	2,000	1,000	0	1,200	0	900	0	0	0	0	0	0	0	0	35,920	2,100	0	38,020	1,000	2,200	1,000	0
11/04/91	54,050	540	1,500	0	2,500	4,000	6,500	0	1,300	0	400	0	0	0	0	0	0	0	0	69,090	1,700	0	70,790	1,900	3,500	0	0
11/13/91	30,500	305	3,000	0	1,700	1,500	3,500	0	1,150	0	200	100	0	0	0	0	0	0	0	40,505	1,450	0	41,955	370	0	0	0
11/18/91	5,500	0	500	0	0	0	200	0	0	0	0	0	0	0	0	0	0	0	0	6,200	0	0	6,200	300	0	0	0
11/25/91	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	600	0	0	600	1,150	0	0	0
12/04/91	11,950	125	0	0	0	0	0	0	200	0	0	0	0	0	0	0	0	0	0	12,075	250	0	12,325	2,580	4,300	0	0
12/09/91	10,300	25	500	0	0	0	200	0	0	0	0	0	0	0	0	0	0	0	0	11,025	0	0	11,025	2,740	4,300	0	0
01/09/92																											

Table 7. Waterfowl aerial inventory data for each individual flight for Swan Lake EHP site, spring 1992.

SWAN LAKE		TOTAL														TOTAL	TOTAL	TOTAL	TOTAL										
		MALLARD	BLK	PNT	BMT	GHT	WIG	GAD	SH	SCAUP	RN	CNVB	RH	RDY	GLD					BH	CM	RBM	HM	DABLERS	DIVERS	MERG.	DUCKS	CG	B&SG
Compartment 1																													
02/25/92	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03/02/92	300	0	0	0	0	0	0	400	50	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03/11/92	0	0	0	0	0	0	0	100	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03/16/92	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03/24/92	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04/01/92	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04/07/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04/14/92	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Compartment 2																													
02/25/92	125	10	0	0	0	0	25	0	100	650	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	
03/02/92	1,800	25	0	200	75	0	0	600	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03/11/92	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03/16/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	
03/24/92	100	0	0	0	0	0	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04/01/92	250	0	0	220	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	
04/07/92	100	0	0	50	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04/14/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Compartment 3																													
02/25/92	500	0	0	0	0	100	0	0	50	400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03/02/92	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03/11/92	1,000	0	0	0	0	0	0	0	1,500	2,000	200	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	
03/16/92	1,200	0	0	0	0	0	0	0	0	400	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03/24/92	5,000	0	0	50	400	800	600	200	500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04/01/92	300	0	50	100	600	200	0	100	450	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04/07/92	0	0	0	0	0	0	0	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04/14/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Swan Lake Total																													
02/25/92	925	10	0	0	0	100	25	0	150	1,050	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	
03/02/92	2,200	25	0	200	75	0	0	1,000	50	350	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03/11/92	1,050	0	0	0	0	0	0	1,600	2,300	200	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	
03/16/92	1,300	0	0	0	0	0	0	0	0	400	0	0	0	100	0	20	0	0	0	0	0	0	0	0	0	0	0	0	
03/24/92	5,200	0	0	50	400	1,000	600	200	500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04/01/92	550	0	50	320	600	200	0	100	500	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	
04/07/92	100	0	0	50	0	50	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04/14/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

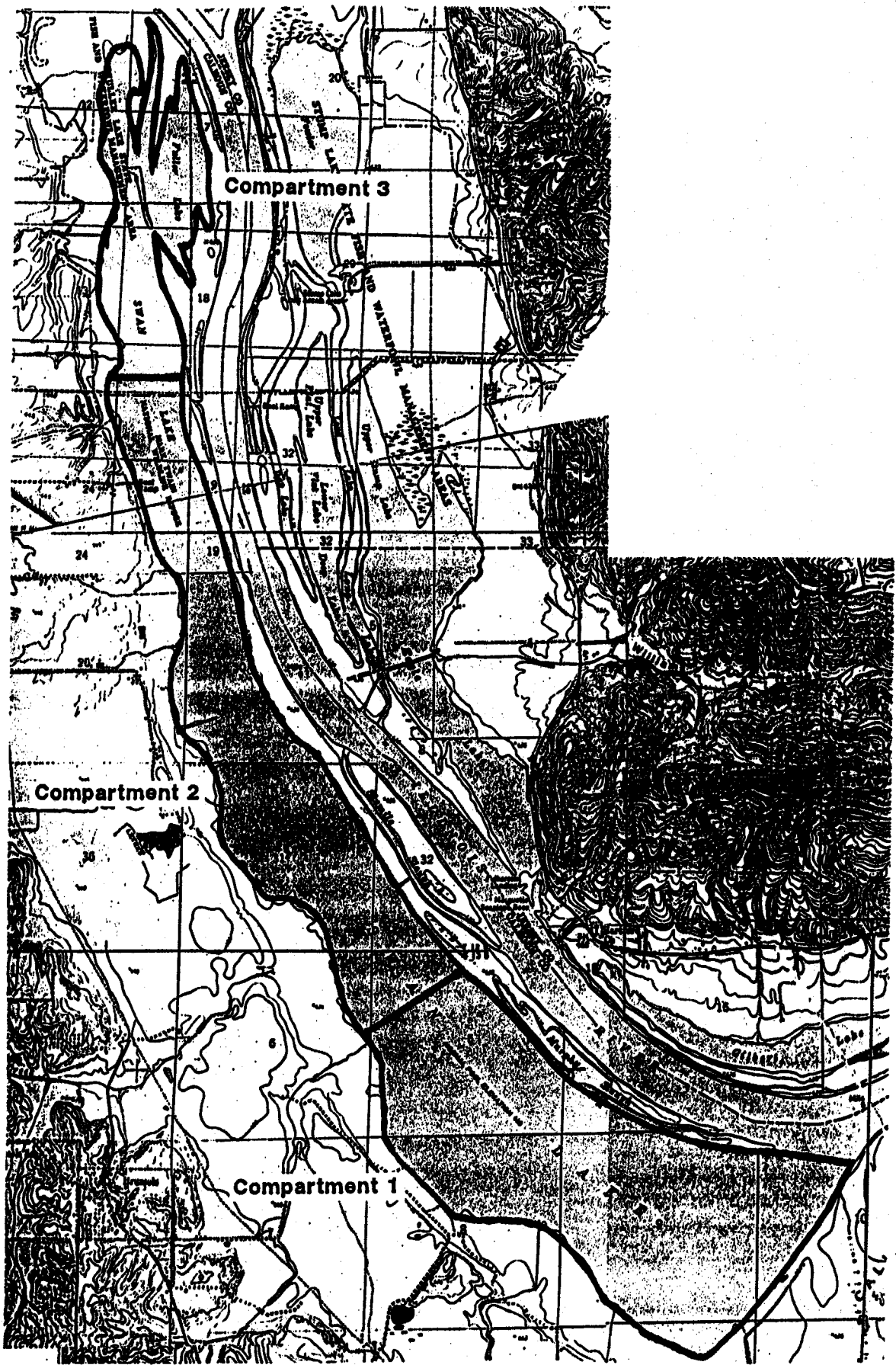


Figure 2. The Swan Lake EMP site with boundaries drawn delineating compartments 1, 2, and 3.

Dresser Island

Table 8. Peak numbers of waterfowl aeri ally inventoried by the Illinois Natural History Survey at Dresser Island EMP site, fall and spring, 1991-1992.

	<u>Fall</u>	<u>Spring</u>
Dabbling ducks		
Mallard	125	650
American black duck	0	5
Northern pintail	0	0
Blue-winged teal	0	0
Green-winged teal	0	25
American wigeon	0	0
Gadwall	0	0
Northern shoveler	0	0
All dabbling ducks	125	675
Diving ducks		
Lesser & greater scaup	0	0
Ring-necked duck	0	0
Canvasback	0	0
Redhead	0	0
Ruddy duck	0	0
Common goldeneye	0	0
Bufflehead	0	0
All diving ducks	0	0
Mergansers		
Common merganser	0	0
Red-breasted merganser	0	0
Hooded merganser	0	0
All mergansers	0	0
All ducks	125	675
Geese		
Canada goose	0	0
Snow goose	0	0
American coots	0	0

Table 9. Waterfowl aerial inventory data for each individual flight for Dresser Island EMP site, fall 1991.

	MALLARD	BLK	PNT	BWT	GWT	WIG	GAD	SH	SCAUP	RN	CNVB	RH	RDY	GLD	BH	CH	RBM	HM	DABLERS	DIVERS	MERG.	DUCKS	CG	B&SG	COOT	
	TOTAL																									
	TOTAL																									
DRESSER ISLAND																										
09/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/12/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/07/91	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	0	0	0	0	0	0	0
10/15/91	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125	0	0	0	0	0	0	0
10/21/91	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0
11/04/91	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125	0	0	0	0	0	0	0
11/13/91	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0
11/18/91	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	0	0	0	0	0	0	0
11/25/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/04/91	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0
12/09/91	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0
01/09/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 10. Waterfowl aerial inventory data for each individual flight for Dresser Island EMP site, spring 1992.

	TOTAL																TOTAL	TOTAL	TOTAL	TOTAL						
	MALLARD	BLK	PNT	BWT	GMT	WIG	GAD	SH	SCAUP	RN	CNVB	RH	RDY	GLD	BH	CM					RBM	HM	DABBLERS	DIVERS	MERG.	DUCKS
DRESSER ISLAND																										
02/25/92	525	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03/02/92	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03/11/92	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03/16/92	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03/24/92	650	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/01/92	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/07/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/14/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

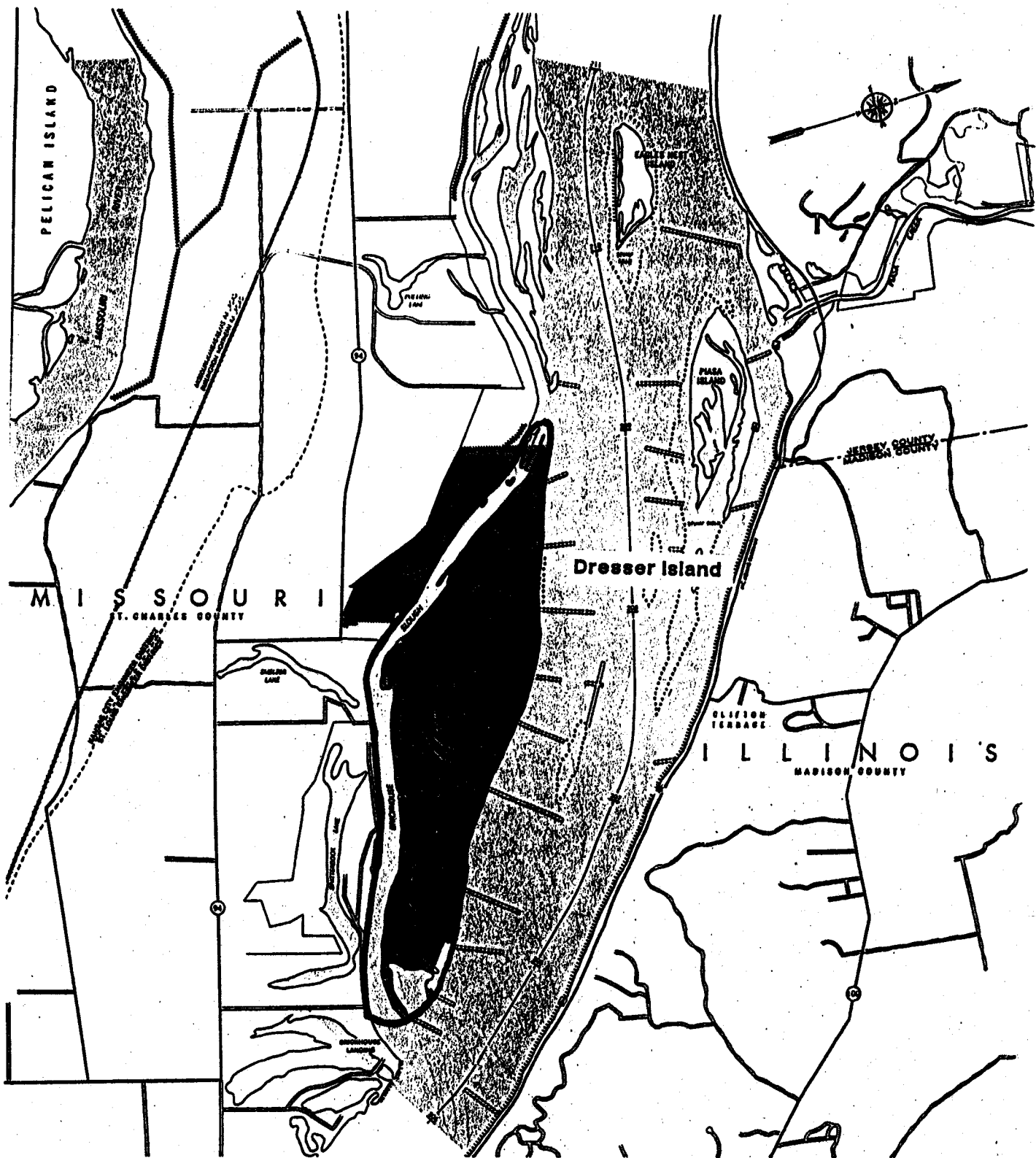


Figure 3. The Dresser Island EMP site with boundaries drawn delineating the area.

Table 11. Peak numbers of waterfowl aerielly inventoried by the Illinois Natural History Survey at Batchtown EMP site, fall and spring, 1991-1992^a.

	Compartment 1		Compartment 2		Compartment 3		Total	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Dabbling ducks								
Mallard	1,250	100	800	200	6,500	500	6,850	625
American black duck	10	0	0	0	200	0	200	0
Northern pintail	200	0	0	0	1,100	0	1,150	0
Blue-winged teal	0	0	0	0	50	50	50	50
Green-winged teal	400	0	0	0	800	0	800	0
American wigeon	25	0	0	0	1,500	50	1,500	50
Gadwall	0	0	0	0	1,000	100	1,000	100
Northern shoveler	0	0	0	0	0	50	0	50
All dabbling ducks	1,550	100	800	200	9,100	550	9,450	675
Diving ducks								
Lesser & greater scaup	400	1,000	0	0	0	200	400	1,000
Ring-necked duck	25	0	0	0	0	0	25	0
Canvasback	200	0	0	0	0	0	200	0
Redhead	0	0	0	0	0	0	0	0
Ruddy duck	0	0	0	0	0	0	0	0
Common goldeneye	25	0	0	0	0	50	25	50
Bufflehead	0	0	0	0	0	0	0	0
All diving ducks	400	1,000	0	0	0	200	400	1,000
Mergansers								
Common merganser	0	25	0	0	0	0	0	25
Red-breasted merganser	0	0	0	0	0	0	0	0
Hooded merganser	0	0	0	0	0	0	0	0
All mergansers	0	25	0	0	0	0	0	25
All ducks	1,675	1,025	800	200	9,100	550	9,850	1,545
Geese								
Canada goose	100	20	0	5	350	20	175	40
Snow goose	0	0	0	0	0	0	0	0
American coots	1,320	100	0	0	0	0	1,320	100

^a The peak number for the entire site may not represent the sum of the peaks for all the compartments because the peak numbers in the various compartments could have occurred on different flight dates.

Batchtown

Batchtown is a small town in the state of...

Table 12. Waterfowl aerial inventory data for each individual flight for Batchtown EMP site, fall 1991.

		MALLARD	BLK	PNT	BWT	GWT	WIG	GAD	SH	SCALP	RN	CNVB	RH	RDY	GLD	BH	CH	RBM	HM	DABLERS	DIVERS	MERG.	DUCKS	CG	B&SG	COOT		
		TOTAL TOTAL TOTAL																										
BATCHTOWN																												
Compartment 1																												
09/04/91	375	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	375	10	0	0	0	
09/12/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10/07/91	850	0	0	400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,250	100	0	0	0	0	
10/15/91	1,250	0	200	100	0	0	0	0	0	125	0	0	0	0	0	0	0	0	0	0	0	1,550	125	0	1,675	10	1,320	
10/21/91	550	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	550	0	550	50	0	500	
11/04/91	300	0	0	0	0	0	0	0	0	400	0	0	0	0	0	0	0	0	0	0	300	400	0	700	0	0	0	
11/13/91	50	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	0	50	120	0	170	0	0	0	
11/18/91	500	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	525	0	0	525	0	0	0	
11/25/91	0	0	0	0	0	0	0	0	0	20	25	200	0	0	0	0	0	0	0	0	0	0	245	0	245	0	0	
12/04/91	25	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	25	25	0	50	0	0	0	
12/09/91	75	0	0	0	0	0	0	0	0	300	0	0	0	0	0	0	0	0	0	0	75	300	0	375	10	0	0	
01/09/92	400	10	0	0	0	0	0	0	0	50	0	0	0	0	25	0	0	0	0	0	410	75	0	485	0	0	0	
Compartment 2																												
09/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/12/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/07/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/91	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	0	0	150	0	0	0	0
10/21/91	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200	0	0	200	0	0	0	0
11/04/91	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0	50	0	0	0	0
11/13/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/09/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01/09/92	800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	800	0	0	800	0	0	0	0
Compartment 3																												
09/04/91	0	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200	0	0	0	0
09/12/91	25	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	0	0	75	0	0	0	0
10/07/91	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200	0	0	200	0	0	0	0
10/15/91	2,100	0	950	0	400	200	20	0	0	0	0	0	0	0	0	0	0	0	0	0	3,670	0	0	3,670	0	0	0	0
10/21/91	4,400	0	1,100	0	0	1,500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,000	0	0	7,000	35	0	0	0
11/04/91	6,500	0	300	0	800	500	1,000	0	0	0	0	0	0	0	0	0	0	0	0	0	9,100	0	0	9,100	0	0	0	0
11/13/91	1,500	0	50	0	0	50	200	0	0	0	0	0	0	0	0	0	0	0	0	0	1,800	0	0	1,800	0	0	0	0
11/18/91	1,500	0	0	0	200	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	1,750	0	0	1,750	0	0	0	0
11/25/91	1,200	50	25	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	1,295	0	0	1,295	0	0	0	0
12/04/91	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120	0	0	120	175	0	0	0
12/09/91	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	250	0	0	250	50	0	0	0
01/09/92	1,600	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,615	0	0	1,615	350	0	0	0

Table 12 continued.

BATCH/TOWN	TOTAL																TOTAL										
	MALLARD	BLK	PNT	BVT	GMT	WIG	GAD	SH	SCAUP	RN	CNVB	RH	RDY	GLD	BH	CM		RBH	HM	DABLERS	DIVERS	MERG.	DUCKS	CG	B&SG	COOT	
Total																											
09/04/91	375	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/12/91	25	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/07/91	1,050	0	0	400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/91	3,500	0	1,150	0	500	200	20	0	125	0	0	0	0	0	0	0	0	0	0	0	0	125	0	5,495	10	0	1,320
10/21/91	5,150	0	1,100	0	0	1,500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,750	0	7,750	85	0	500
11/04/91	6,850	0	300	0	800	500	1,000	0	400	0	0	0	0	0	0	0	0	0	0	0	0	9,450	400	9,850	0	0	0
11/13/91	1,550	0	50	0	0	50	200	0	120	0	0	0	0	0	0	0	0	0	0	0	0	1,850	120	1,970	0	0	0
11/18/91	2,000	0	0	0	200	25	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,275	0	2,275	0	0	0
11/25/91	1,200	50	25	0	0	0	20	0	20	25	200	0	0	0	0	0	0	0	0	0	0	1,295	245	1,540	0	0	0
12/04/91	145	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	145	25	170	175	0	0
12/09/91	325	0	0	0	0	0	0	0	300	0	0	0	0	0	0	0	0	0	0	0	0	325	300	625	60	0	0
01/09/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 13. Waterfowl aerial inventory data for each individual flight for Batchtown EMP site, spring 1992.

BATCHTOWN		MALLARD	BLK	PNT	BWT	GMT	WIG	GAD	SH	SCAUP	RN	CKVB	RH	RDY	GLD	BH	CM	RBM	HM	TOTAL				B&SG	COOT
																				DABBLERS	DIVERS	MERG.	DUCKS		
Compartment 1																									
02/25/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
03/02/92	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	100	20	0		
03/11/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
03/16/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
03/24/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100		
04/01/92	0	0	0	0	0	0	0	0	0	1,000	0	0	0	0	0	0	25	0	0	0	1,000	25	1,025	0	
04/07/92	0	0	0	0	0	0	0	0	0	75	0	0	0	0	0	0	0	0	0	0	75	0	75	0	
04/14/92	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	100	0	100	10	
Compartment 2																									
02/25/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
03/02/92	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	25		
03/11/92	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200	0	200		
03/16/92	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	25		
03/24/92	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120	0	120		
04/01/92	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	50		
04/07/92	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	10		
04/14/92	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	10		
Compartment 3																									
02/25/92	420	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0	0	0	420	50	470	0	
03/02/92	500	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	550	0	550	20	
03/11/92	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	100	0	
03/16/92	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125	0	125	0	
03/24/92	300	0	0	0	0	0	0	0	0	200	0	0	0	0	0	0	0	0	0	0	300	200	500	15	
04/01/92	320	0	0	0	0	0	100	50	0	0	0	0	0	0	0	0	0	0	0	0	470	0	470	0	
04/07/92	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	50	0	
04/14/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Batchtown Total																									
02/25/92	420	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0	0	0	420	50	470	0	
03/02/92	625	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	675	0	675	40	
03/11/92	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300	0	300	0	
03/16/92	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	0	150	0	
03/24/92	420	0	0	0	0	0	0	0	0	200	0	0	0	0	0	0	0	0	0	0	420	200	620	15	
04/01/92	370	0	0	0	0	0	100	50	0	1,000	0	0	0	0	0	0	25	0	0	0	520	1,000	25	1,545	
04/07/92	10	0	0	50	0	0	0	0	0	75	0	0	0	0	0	0	0	0	0	0	60	75	0	135	
04/14/92	10	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	10	100	0	110	

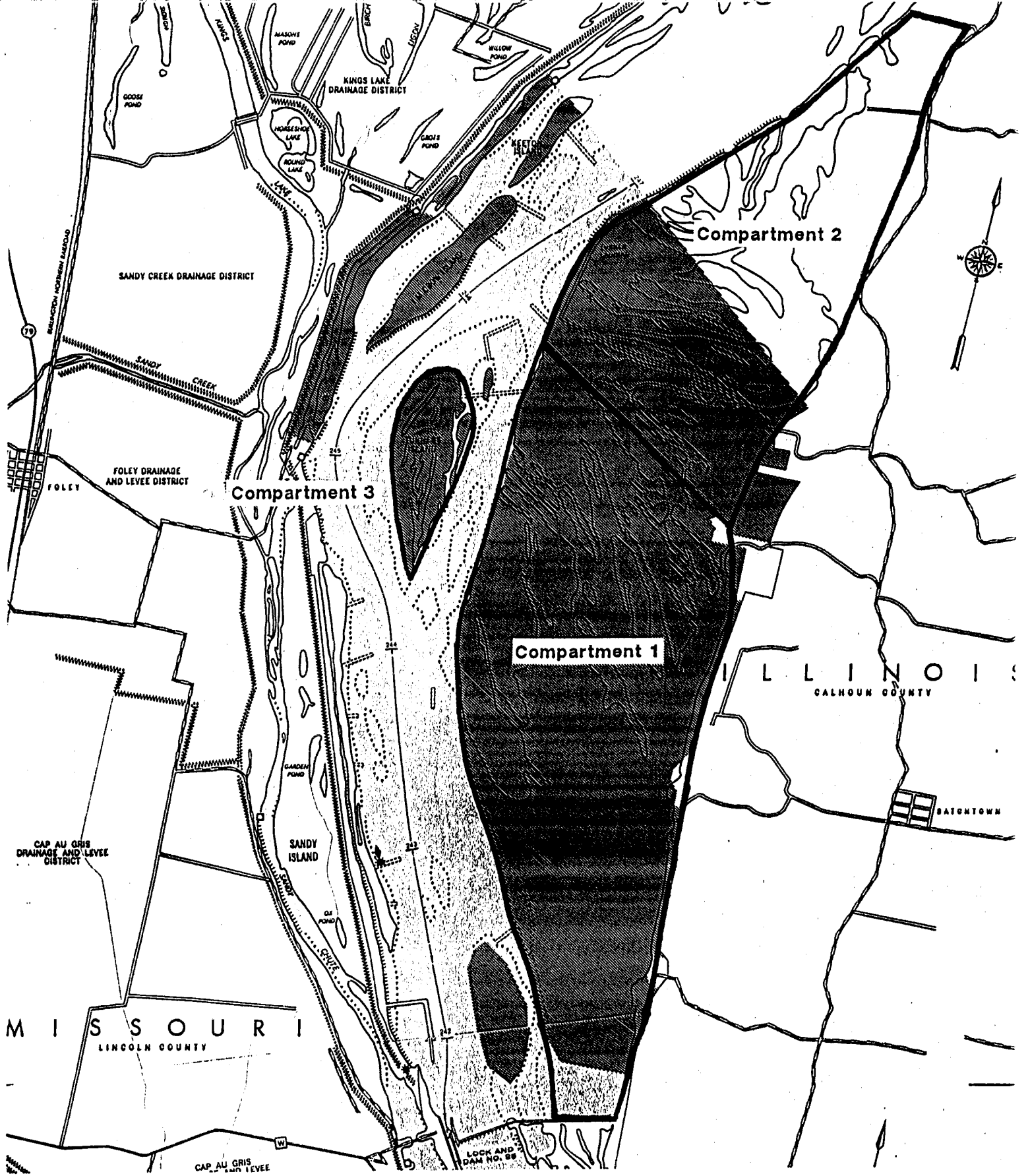


Figure 4. The Batchtown EMP site with boundaries drawn delineating compartments 1, 2, and 3.

Pharrs Island

Table 14. Peak numbers of waterfowl aerially inventoried by the Illinois Natural History Survey at Pharrs Island EMP site, fall and spring, 1991-1992^a.

	Compartment 1		Compartment 2		Total	
	Fall	Spring	Fall	Spring	Fall	Spring
Dabbling ducks						
Mallard	0	0	350	350	350	350
American black duck	0	0	0	0	0	0
Northern pintail	0	0	0	0	0	0
Blue-winged teal	0	0	0	0	0	0
Green-winged teal	0	0	0	0	0	0
American wigeon	0	0	0	0	0	0
Gadwall	0	0	0	0	0	0
Northern shoveler	0	0	0	0	0	0
All dabbling ducks	0	0	350	350	350	350
Diving ducks						
Lesser & greater scaup	0	0	20	0	20	0
Ring-necked duck	0	0	75	0	75	0
Canvasback	0	0	0	0	0	0
Redhead	0	0	0	0	0	0
Ruddy duck	0	0	0	0	0	0
Common goldeneye	0	20	0	0	0	20
Bufflehead	0	0	0	0	0	0
All diving ducks	0	20	95	0	95	20
Mergansers						
Common merganser	0	0	0	0	0	0
Red-breasted merganser	0	0	0	0	0	0
Hooded merganser	0	0	0	0	0	0
All mergansers	0	0	0	0	0	0
All ducks	0	20	350	350	350	370
Geese						
Canada goose	10	0	25	0	25	0
Snow goose	0	0	0	0	0	0
American coots	0	0	0	0	0	0

^a The peak number for the entire site may not represent the sum of the peaks for all the compartments because the peak numbers in the various compartments could have occurred on different flight dates.

Table 15. Waterfowl aerial inventory data for each individual flight for Pharrs Island EMP site, fall 1991.

	MALLARD	BLK	PNT	BWT	GMT	WIG	GAD	SH	SCAUP	RN	CNVB	RH	RDY	GLD	BH	CM	RBM	NM	DABLERS	DIVERS	MERG.	DUCKS	CG	B&SG	COOT	
	TOTAL TOTAL TOTAL																									
PHARRS ISLAND																										
Compartment 1																										
09/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/12/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/07/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0
11/13/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/09/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01/09/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Compartment 2																										
09/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/12/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/07/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/91	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	20	25	0
10/21/91	350	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	350	0	0	0	0	0	0
11/04/91	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
11/13/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/09/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01/09/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total																										
09/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/12/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/07/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/91	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	20	25	0
10/21/91	350	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	350	0	0	0	0	0	0
11/04/91	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
11/13/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/09/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01/09/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total																										
09/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/12/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/07/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/91	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	20	25	0
10/21/91	350	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	350	0	0	0	0	0	0
11/04/91	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
11/13/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/04/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/09/91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01/09/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 16. Waterfowl aerial inventory data for each individual flight for Pharrs Island EMP site, spring 1992.

	MALLARD	BLK	PNT	BMT	GWT	WIG	GAD	SH	SCAUP	RN	CNVB	RH	RDY	GLD	BH	CM	RBM	HM	DABLERS	DIVERS	MERG.	DUCKS	CG	B&SG	COOT	TOTAL				
																										TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
PHARRS ISLAND																														
Compartment 1																														
02/25/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0				
03/02/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
03/11/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
03/16/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
03/24/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
04/01/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
04/07/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
04/14/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Compartment 2																														
02/25/92	350	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	350	0	0	0	0				
03/02/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
03/11/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
03/16/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
03/24/92	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0	0				
04/01/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
04/07/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
04/14/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Total																														
02/25/92	350	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	350	20	0	0	0				
03/02/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
03/11/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
03/16/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
03/24/92	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0	0				
04/01/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
04/07/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
04/14/92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				

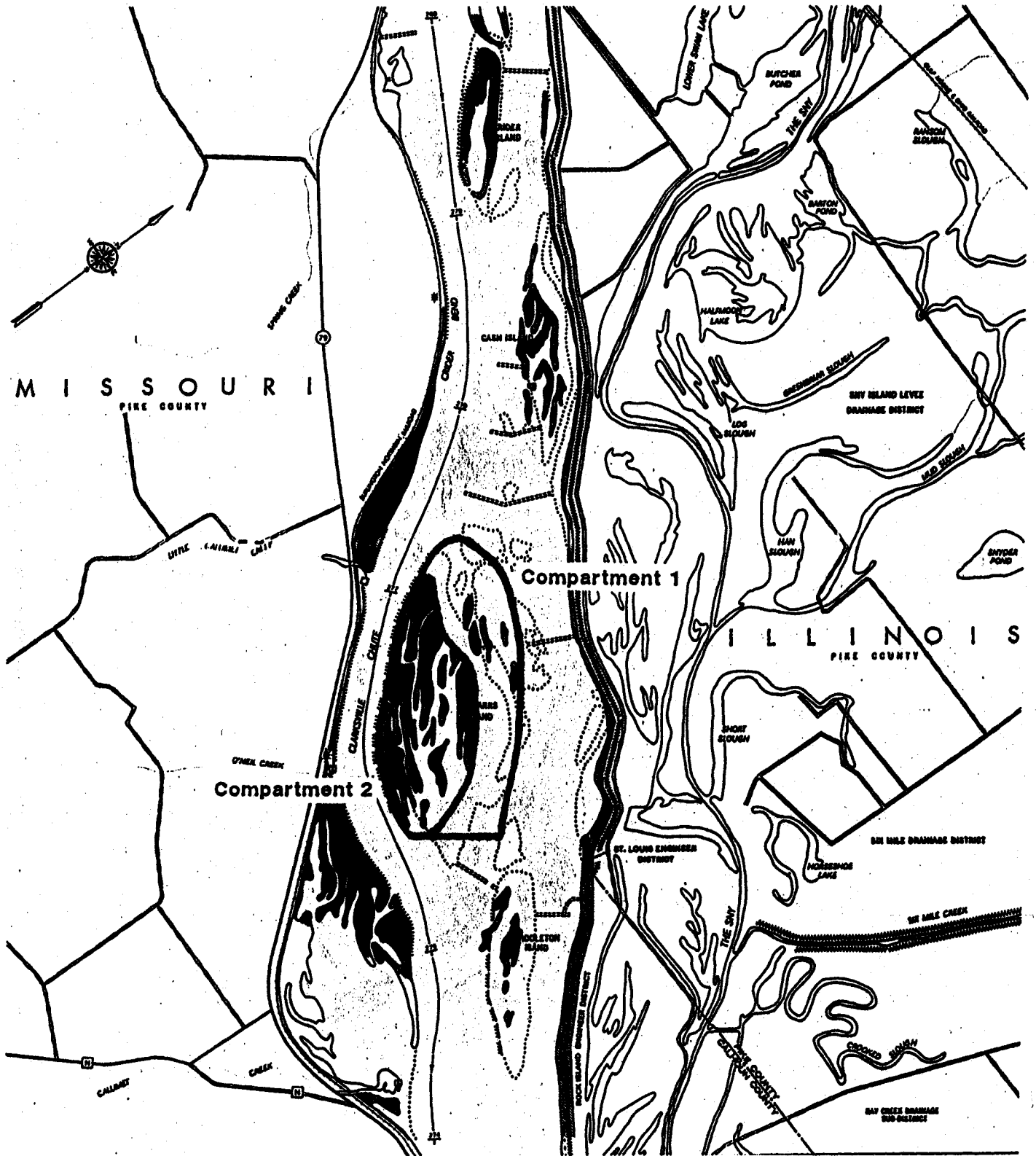


Figure 5. The Pharrs Island EMP site with boundaries drawn delineating compartments 1 and 2.