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Iowa State Conservation Commission

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Banded Waterfowl Recovered in Iowa (1948-1951)

By JAMES G. SIEH

Waterfowl banded throughout continental North America have been recovered in Iowa. The U. S. Fish and Wildlife Service, via the Bird-Banding Office, Pautuxent, Maryland, has supplied the State Conservation Commission with 340 waterfowl recoveries reported from Iowa since 1948. These recoveries represented 256 mallards (Figure 1), 26 pintails, 15 blue-winged teal, and 11 black ducks. Ten other species of ducks were represented by only 25 recoveries. Six Canada geese and one coot complete the list of waterfowl recoveries in this report.

Fifty percent of all the mallards recovered in Iowa carried their bands less than one year. Approximately 25% of the mallards recovered carried their bands 1-2 years, and 11% carried them 2-3 years. The remaining 14% were represented by mallards carrying bands 3-4, 4-5, 5-6, 6-7, 7-8, 8-9, 9-10, 10-11, and 16-17 years respectively (Table 1). Approximately 75% of the 84 recoveries of waterfowl, other than mallards, carried bands less than one year. Practically all recoveries were taken from waterfowl killed during the open season.

Forty-three of the 84 recoveries of banded waterfowl, other than mallards, were located in counties bordering the Mississippi and Missouri Rivers. Ten of the 11 black duck recoveries were taken in counties bordering the Mississippi River. The eleventh black duck was recovered in Johnson county just one county west of the Mississippi. Of the remaining thirty recoveries, fifteen were located in the lakes region of northwestern Iowa, and the remainder were widespread throughout the state (Figure 2).

Forty-seven percent of the banded mallards were recovered in counties bordering the Mississippi River; however, this did not indicate that approximately half of the mallards killed in Iowa were taken along the river counties because 45% of all the banded mallards recovered in Iowa were banded in Illinois, and 63% of all mallards recovered in the ten Mississippi River counties were banded in Illinois. The proximity of the points of banding in Illinois increased proportionately the large number of mallard returns along the Mississippi River in Iowa.

Since 1948 there have been 113 mallards recovered in Iowa that were banded in Illinois. Forty-two were banded at Spring Lake,

Savanna, Illinois just across the Mississippi River from Sabula, Iowa. Nineteen of these mallards which were banded at Spring Lake in the fall of 1948 were recovered the same fall along the Mississippi River in Jackson, Clinton, and Scott counties. Just one of these nineteen birds was recovered in an inland county, and that just across the Jackson county line in Jones county. This indicated a tendency of these mallards to remain along the Mississippi River during the fall of 1948 in the Sabula area, and little tendency to move inland.

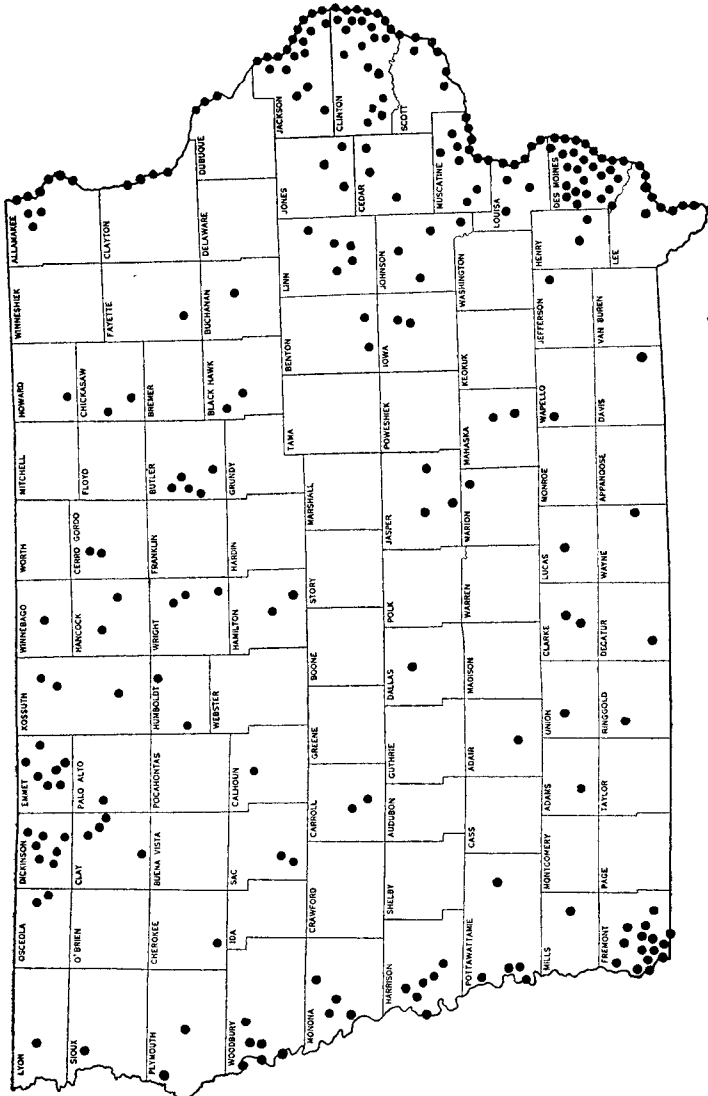


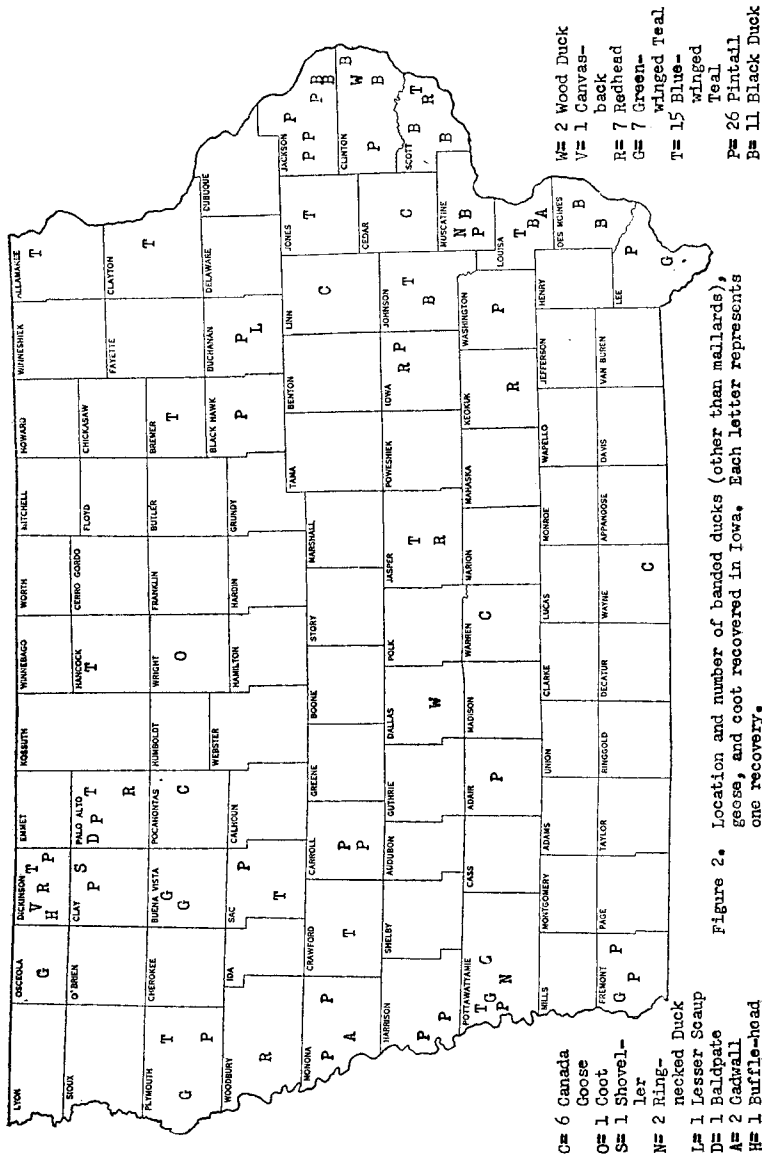
Figure 1. Location of each banded mallard duck recovered in Iowa since 1948. Each dot (•) represents one recovery.

Table 1
Species and Number of Banded Waterfowl Recovered in Iowa and
The Number of Years Each Band Was Carried

Years	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	16-17
Canada Goose (<i>Branta canadensis</i> <i>canadensis</i>)	4	1										
Lesser Canada Goose (<i>Branta canadensis</i> <i>leucopareia</i>)	1											
Coot (<i>Fulica americana</i>)		1										
Shoveller (<i>Spatula clypeata</i>)	1											
Ring-necked Duck (<i>Nyroca collaris</i>)	1										1	
Lesser Scaup (<i>Nyroca affinis</i>)	1											
Baldpate (<i>Mareca americana</i>)	1											
Gadwall (<i>Chaulelasmus streperus</i>)	2											
Buffle-head (<i>Charitonetta albeola</i>)	1											
Wood Duck (<i>Aix sponsa</i>)	1				1							
Canvas-back (<i>Nyroca valisneria</i>)	1											
Redhead (<i>Nyroca americana</i>)	5	1	1									
Green-winged Teal (<i>Nettion carolinense</i>)	7											
Blue-winged Teal (<i>Querquedula discors</i>)	14			1								
Pintail (<i>Dafila acuta</i>)	17	6	3									
Black Duck (<i>Anas rubripes</i>)	5	2	1	1				1		1		
Mallard (<i>Anas platyrhynchos</i>)	127	62	28	11	10	3	5	5	1	1	2	1*

*The number of years this band was carried is questionable. The years were assumed from the date of letter of recovery. The exact date the bird (band) was recovered was not available.

Twenty-two of the remaining 23 mallards banded at Spring Lake and recovered one to five years later also returned along the Mississippi River during subsequent fall migrations. (Figure 3). Of these 23 birds only four were recovered in counties not adjacent to the Mississippi. Three of these four recoveries occurred in Cedar, Johnson, and Iowa counties which are second and third counties west of the river. The fourth recovery occurred in Winnebago coun-



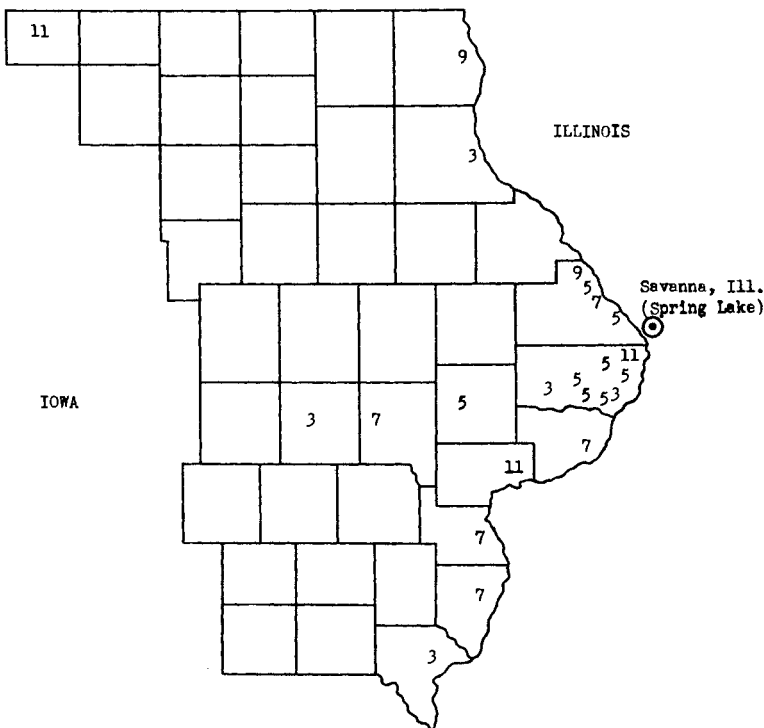


Figure 3. Location of mallards recovered in Iowa which were banded at Spring Lake, Savanna, Illinois. Numbers indicate aggregate spring and fall migrations between date of banding and recovery. Each number represents one recovery.

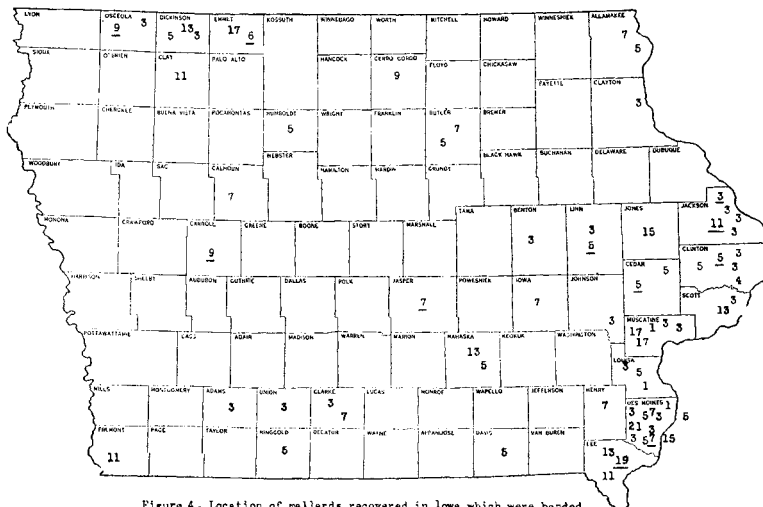


Figure 4. Location of mallards recovered in Iowa which were banded at Chautequa Refuge, Havana, Illinois. Numbers indicate aggregate spring and fall migrations between date of banding and recovery (numbers underlined indicate mallards banded at Flat Lake, Crafton, Ill., or McCinnis Slough, Orland Park, Ill.).

ty, an inland county. These recoveries indicated that these mallards banded at Spring Lake returned along the Mississippi River during subsequent fall migrations, and remained close to the river or its tributaries during the fall.

Sixty mallards banded at the Chautauqua Refuge, Havana, Illinois near the Illinois River were recovered in Iowa (Figure 4). Unlike the recoveries from Spring Lake, the recoveries from Chautauqua Refuge were widespread throughout Iowa, and there were no recoveries of banded mallards taken in Iowa the same fall that they were banded at Chautauqua. This may indicate that there is little if any movement of mallards from the Chautauqua Refuge into Iowa during the same fall migratory period; however, during subsequent fall migrations that there is considerable movement of these same birds into Iowa. It is interesting to note that while the majority of mallards banded at Chautauqua Refuge were recovered along the Mississippi River and its nearby tributaries, six mallards were recovered in northwestern Iowa, and 12 were scattered throughout central and southern Iowa.

Thirteen states and six provinces contributed 84 banded waterfowl, other than mallards, including six Canada geese and one coot which were recovered in Iowa. New Brunswick, Quebec, and British Columbia each provided one bird; Manitoba contributed 24, Saskatchewan nine, and Alberta and California each three. Illinois topped the list of states with ten waterfowl (other than mallards) recovered in Iowa. Missouri supplied six banded waterfowl, five of which were geese. Michigan also provided six waterfowl, and North and South Dakota each five, Louisiana, Nebraska, and Wisconsin each provided two banded ducks while Colorado, Indiana, New York, and Tennessee each contributed one waterfowl recovered in Iowa.

Seventeen states contributed 204 banded mallards which were recovered in Iowa. Illinois supplied the largest number, 113. North Dakota provided 17 banded mallards, Wisconsin 16, Oklahoma and Minnesota each 12. Arkansas and Colorado each supplied six, South Dakota five, Alabama and Missouri each three; Indiana, Louisiana, Nebraska, and Ohio each two, and Michigan, Oregon, and Pennsylvania each one. Four provinces contributed 52 banded mallards recovered in Iowa. Manitoba supplied 34, Alberta nine, Saskatchewan six, and Ontario three.

The grand total of 256 banded mallards were recovered in 63 Iowa counties. The 113 banded in Illinois were recovered in 34 Iowa counties, while the 34 mallards banded in Manitoba were recovered

in 25 counties. The 17 mallards banded in North Dakota were recovered in 15 different counties, while the 16 banded in Wisconsin were recovered in 12 counties. The place of banding of mallards recovered in each Iowa county is listed in the appendix, Table 1.

The place and date of banding and recovery, the age and sex of each bird banded are essential data for record purposes. The above data are listed in chronological order of date of banding for each waterfowl recovered in Iowa since 1948 (Appendix, Table 2).

ACKNOWLEDGEMENTS

The writer is indebted to Mr. Everett B. Speaker, Superintendent of Biology, of the State Conservation Commission, for his counsel and encouragement; and likewise to his co-workers at the Biology Building, Okoboji, Iowa, for their cooperation and assistance. Appreciation and thanks are expressed to Seth H. Low and his associates of the Bird-Banding Office, Pautuxent, Maryland, for their major contribution to this project.

Appendix

Table 1

Place of Banding of Mallards Recovered in Each Iowa County

	Adams	Allamakee	Adair	Black Hawk	Benton	Butler	Buchanan	Calhoun	Carroll	Cedar	Cerro Gordo	Cherokee	Chickasaw	Clarke	Clay	Clayton	Clinton
Alabama																	
Alberta																	
Arkansas																	
Colorado					1												
Illinois	1	3			1	2		1	1	2	1			2	1	2	22
Indiana				1													
Louisiana																	
Manitoba		1	1	1								1			2		
Michigan																	
Minnesota						1											
Missouri										1							
Nebraska											1						
N. Dakota												1			1		1
Ohio													1				
Oklahoma																1	
Ontario		1				1											
Oregon																	
Pennsylvania																	
Saskatchewan										1							
S. Dakota																	
Wisconsin		4				1	1		1								1

	Davis	Dallas	Decatur	Des Moines	Dickinson	Dubuque	Emmet	Fayette	Hamilton	Fremont	Hancock	Harrison	Henry	Howard	Humboldt	Iowa	Jackson
Alabama										1							
Alberta							1			3		1		1			
Arkansas	1			2	1						1						
Colorado							1		1				1				
Illinois		1		12	3		2		1				1		1	2	17
Indiana																	
Louisiana																	
Manitoba				4	1		2		1	2	1	1					1
Michigan						1											
Minnesota				4					1						1		
Missouri							1					1					
Nebraska										1							
N. Dakota				1	1	1				3							
Ohio																	
Oklahoma			1	2						1		2					
Ontario																	
Oregon									1								
Pennsylvania																	
Saskatchewan							1			1							1
South Dakota						1						1					
Wisconsin				2					1								

Appendix

Table 1 (Continued)

Place of Banding of Mallards Recovered in Each Iowa County

	Jasper	Jefferson	Johnson	Jones	Kossuth	Lee	Linn	Louisa	Lucas	Lyon	Mahaska	Marion	Mills	Monona	Muscatine	Osceola	Palo Alto
Alabama														1	1		
Alberta					1					1							
Arkansas																	
Colorado														1			
Illinois	1	2	2			4	2	4			2				8	2	
Indiana																	
Louisiana						1											
Manitoba	1	1				3	2	1			1				1		1
Michigan																	
Minnesota					1			1							2		
Missouri																	
Nebraska			1														
N. Dakota						1		1					1	1			
Ohio														1			
Oklahoma			1														
Ontario							1										
Oregon																	
Pennsylvania									1	1							
Saskatchewan																	
S. Dakota					1												
Wisconsin	1		1			1											

	Plymouth	Pottawattamie	Ringgold	Sac	Scott	Sioux	Winnebago	Woodbury	Wright	Wayne	Wapello	Union
Alabama												
Alberta				1								
Arkansas		1										
Colorado									1			
Illinois			1		4		1					1
Indiana					1							
Louisiana												
Manitoba		1			1	1		1			1	
Michigan												
Minnesota								1				
Missouri												
Nebraska												
N. Dakota			1	1				1	1			
Ohio												
Oklahoma			2					2				
Ontario												
Oregon												
Pennsylvania												1
Saskatchewan												
South Dakota			1					1				
Wisconsin		1							1			

Appendix

Table 2

Returns of Individual Banded Ducks, Geese, and Coot Recovered In Iowa

Canada Geese

Age, Sex & Place of banding	Date of banding	Location of return	Date of return
A F Swan Lake Refuge Sumner, Mo.	12-11-48	Gilmore City, Ia. Pocahontas County	11-1-50
A — Swan Lake Refuge Sumner, Mo.	1-5-49	Pottawattamie Co. Iowa	11-1-49
J F Swan Lake Refuge Sumner, Mo.	11-25-49	Carlisle, Ia. Warren County	5-2-50
A M Swan Lake Refuge Sumner, Mo.	11-4-50	Marion, Ia. Linn County	10-17-51
— F Necedah Refuge Necedah, Wisc.	7-10-51	Cedar Bluff, Ia. Cedar County	11-7-51

Lesser Canada Geese

— — Fountain Grove Meadville, Mo.	4-29-49	Seymour, Ia. Wayne County	10-27-49
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Coot

J — Lower Souris Ref. Upham, N. Dak.	9-7-48	Little Wall Lake Wright County, Ia.	4-24-50
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Shoveller

— F Leola Hills Leola, S. Dak.	8-16-50	Green's Slough Clay County, Ia.	10-20-50
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Ring-necked Duck

— F Avery Island Louisiana	12-14-40	Honey Creek Lake Pottawattamie Co.	11-2-51
A M Baton Rouge Louisiana	11-28-49	Conesville Marsh Muscatine County	11-1-50

Lesser Scaup

A F Detroit River Gibraltar, Mich.	4-10-51	Wapsipinicon River Independence, Ia.	10-22-51
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Appendix

Table 2 (Continued)

Returns of Individual Banded Ducks, Geese, and Coot Recovered In Iowa

Baldpate					
Age, Sex & Place of banding	Date of banding	Location of return	Date of return		
J F Scentgrass Lake N. Battleford, Saskatchewan	9-7-50	Mud Lake Ruthven, Iowa	11-3-50		
Gadwall					
— F Richmond Lake Aberdeen, S. Dak.	7-31-51	Onawa, Ia. Monona County	10-18-51		
J M Delta Marsh Delta, Manitoba	9-23-51	Lake Odessa Louisa County, Ia.	10-19-51		
Buffle-head					
— — Phililoo Lake British Columbia	7-17-50	Spirit Lake, Ia. Dickinson County	11-15-50		
Wood Duck					
J M Jasper-Pulaski Game Preserve, Indiana	6-30-44	Clinton, Ia. Clinton County	11-15-48		
J M Moscow Bay Bath, Ill.	9-14-50	Adel, Ia. Dallas County	11-4-50		
Canvas-back					
— M Antler, N. Dak.	7-26-51	East Okoboji Lake Arnold's Park, Ia.	11-3-51		
Redhead					
J F Lower Souris Ref. Upham, N. Dak.	10-7-47	Woodbury County, Iowa	*4-1-50		
J F Rockwood, Mich.	3-26-49	Pleasant Valley Scott County	11-4-50		

*Reported as an adult Lesser Scaup on 4-1-50.

Appendix

Table 2 (Continued)

Returns of Individual Banded Ducks, Geese, and Coot Recovered In Iowa

Readhead—Continued

Age, Sex & Place of banding	Date of banding	Location of return	Date of return
A F Middle Marsh Valentine, Neb.	4-23-49	Spirit Lake, Ia. Dickinson County	11-5-49
J F Delta Marsh Manitoba	9-4-49	West Bend, Ia. Palo Alto County	November 1949
A F Meadville, Mo. Fountain Grove Wildlife Area	3-26-50	Keokuk County, Iowa	11-11-50
I M Ballards Reef Grosse Isle, Michigan	3-28-51	Skunk River Bottom Jasper County, Ia.	10-23-51
A F Ballards Reef Grosse Isle, Michigan	3-28-51	Amana Lily Lake Middle Amana, Ia.	11-2-51

Green-winged Teal

J M Baie Johan Beetz Quebec	8-20-48	Council Bluffs, Ia. Pottawattamie Co.	November 1948
A M Eyebrow Lake Moose Jak, Sask.	7-16-49	LeMars, Ia. Plymouth County	10-27-49
A M Delta Marsh Delta, Manitoba	8-16-50	Ft. Madison, Ia. Lee County	11-14-50
I F Delta Marsh Delta, Manitoba	10-5-51	Ocheyedan, Ia. Osceola County	10-12-51
I M Delta Marsh Delta, Manitoba	10-5-51	Truesdale, Ia. Buena Vista Co.	10-23-51
I M Delta Marsh Delta, Manitoba	10-5-51	Storm Lake, Ia. Buena Vista Co.	11-1-51
I F Delta Marsh Delta, Manitoba	10-13-51	Riverton, Ia. Fremont County.	10-27-51

Blue-winged Teal

J F Delta Marsh Delta, Manitoba	8-16-48	Conesville Marsh Louisa County, Ia.	10-12-51
A M Eyebrow Lake Saskatchewan	7-22-49	Council Bluffs, Ia. Pottawattamie Co.	10-21-49
J M Delta Marsh Delta, Manitoba	8-29-49	Monticello, Ia. Jones County	10-6-49

Appendix

Table 2 (Continued)

Returns of Individual Banded Ducks, Geese, and Coot Recovered In Iowa

Blue-winged Teal—Continued

Age, Sex & Place of banding	Date of banding	Location of return	Date of return
— M Waubay Hills Waubay, S. Dak.	8-25-50	Wall Lake, Ia. Sac County	10-20-50
J F Delta Marsh Delta, Manitoba	8-30-50	Crawford County, Iowa	10-22-50
A M Kingsley Dam Ogallala, Neb.	4-20-51	Eagle Lake Hancock County	10-12-51
A M Whitewater Lake Manitoba	7-9-51	Davenport, Ia. Scott County	10-14-51
— F Marshall County S. Dak.	8-7-51	Mississippi River Guttenberg, Ia.	10-12-51
I F Delta Marsh Delta, Manitoba	8-12-51	Lynnville, Ia. Jasper County	10-18-51
I F Delta Marsh Delta, Manitoba	8-21-51	Spirit Lake, Ia. Dickinson County	10-12-51
I F Lower Souris Ref. Upham, N. Dak.	8-25-51	Readlyn, Ia. Bremer County	10-13-51
I F Delta Marsh Delta, Manitoba	8-27-51	Johnson County, Iowa	10-19-51
I M Delta Marsh Delta, Manitoba	8-27-51	Five Island Lake Emmetsburg, Ia.	10-14-51
A F The Pas Manitoba	9-16-51	Mississippi River Allamakee County	10-13-51
I F Bath, Illinois Mason County	10-14-51	West Branch Creek Plymouth County	10-14-51

Pintail

A M Lower Souris Ref. Upham, N. Dak.	7-12-48	Adair County, Iowa	11-5-48
J F Midgie Marsh New Brunswick	8-23-48	Carroll, Ia. Carroll County	December 1948
J M Delta Marsh Delta, Manitoba	8-25-48	Clay County, Iowa	11-10-48
J F Delta Marsh Delta, Manitoba	8-25-48	Whiting, Ia. Monona County	10-20-50
A M Eyebrow Lake Eyebrow, Sask.	7-16-49	Ft. Madison Lee County	10-23-51

Appendix

Table 2 (Continued)

Returns of Individual Banded Ducks, Geese, and Coot Recovered In Iowa

Pintail—Continued

Age, Sex & Place of banding	Date of banding	Location of return	Date of return
A M Manawi Lake Athabaska Delta	7-4-49	Kingsley, Ia. Plymouth County	October 1949
A M Eyebrow, Saskatchewan	7-16-49	Amana, Ia. Iowa County	11-3-49
A M Eyebrow Lake Eyebrow, Sask.	7-18-49	Waterloo, Ia. Black Hawk County	4-14-50
A M Snipe Lake Eston, Sask.	7-28-49	Missouri Valley, Ia. Harrison County	10-27-49
J M Manawi Lake Athabaska Delta	8-7-49	Conesville, Ia. Muscatine County	October 1949
— F Whitewater Lake Manitoba	8-10-49	Palo Alto County, Iowa	10-26-51
— M Denver County Colorado	3-10-50	Independence, Ia. Buchanan County	10-19-51
A M Delta Marsh Delta, Manitoba	6-25-50	Modale, Ia. Harrison County	10-22-50
A M Johnstone Lake Mossbank, Sask.	7-17-50	Mapleton, Ia. Monona County	10-13-51
A M Whitewater Lake Manitoba	7-18-50	Little Swan Lake Dickinson County	10-12-51
I F Stirling Alberta	9-5-50	Green Island Jackson County, Ia.	10-12-51
— F Seseep Marsh The Pas, Manitoba	9-11-50	Washington County	10-24-50
A M Moscow Bay Bath, Ill.	9-22-50	Farragut, Ia. Fremont County	10-15-51
I F Moscow Bay Bath, Ill.	9-26-50	Green Island Jackson County	10-12—15-51
— M Mina, S. Dak. Edmunds County	7-6-51	Green Island Jackson County	10-12-51
A M Big Muddy Marsh Minton, Sask.	7-12-51	Missouri River Pottawattamie Co.	10-13-51
A F Whitewater Lake Manitoba	7-28-51	Wapsipinicon River Clinton County	10-25-51
I M Delta Marsh Delta, Manitoba	8-20-51	Coon Rapids, Ia. Carroll County	10-20-51
A M Los Banos Refuge Merced, Calif.	8-23-51	Levy Twp., Ia. Sac County	10-13-51

Appendix

Table 2 (Continued)

Returns of Individual Banded Ducks, Geese, and Coot Recovered In Iowa

Pintail—Continued

Age, Sex & Place of banding	Date of banding	Location of return	Date of return
A M Salton Sea Refuge Imperial Co., Calif.	9-11-51	Bellevue, Ia. Jackson County	10-30-51
I M Honey Lake Refuge Wendel, Calif.	10-9-51	Forney Lake Fremont County	10-21-51

Black Duck

— — Rochester, N. Y.	10-28-39	Conesville, Ia. Muscatine County	11-26-48
J M Germfask, Mich.	8-21-42	McCausland, Ia. Scott County	11-18-49
J M Spring Lake Ref. Savanna, Ill.	11-20-46	Sabula, Ia. Jackson County	10-29-49
A M Spring Lake Ref. Savanna, Ill.	11-3-47	Jackson County	11-11-50
A M Chautauqua Refuge Havana, Ill.	11-18-47	Burlington, Ia. Des Moines County	11-15-49
J F Crex Meadows Burnett C., Wisc.	9-22-48	Davenport, Ia. Scott County	11-13-48
J M Spring Lake Savanna, Ill.	10-21-48	Clinton, Ia. Clinton County	11-13-48
J F Spring Lake Savannah, Ill.	11-1-48	Clinton, Ia. Clinton County	11-25-48
J M Seney Refuge Germfask, Mich.	8-11-49	Burlington, Ia. Des Moines County	11-11-49
A — Big Sandy Refuge Henry County, Tennessee	11-7-49	Iowa River Johnson County	10-27-51
J M Chautauqua Refuge Havana, Ill.	11-15-49	Wapello, Ia. Louisa County	10-25-50

Mallard

— M Abbeville, La.	2-12-34	Seymour Reservoir Seymour, Ia.	1-31-51
— M Des Lacs Refuge Kenmare, N. Dak.	10-26-38	Hastings, Ia. Nishna. River	11-6-48
A M Sand Lake Refuge Columbia, S. Dak.	11-30-39	Bancroft, Ia. Kossuth County	11-7-50

Appendix

Table 2 (Continued)

Returns of Individual Banded Ducks, Geese, and Coot Recovered In Iowa

Mallard—Continued

Age, Sex & Place of banding	Date of banding	Location of return	Date of return
A M Chautauqua Ref. Havana, Ill.	12-4-39	Muscatine, Ia. Cedar River	11-7-47
— F Chautauqua Refuge Havana, Ill.	12-17-40	Des Moines County Iowa	11-7-50
A M Chautauqua Refuge Havana, Ill.	12-1-41	Estherville, Ia. Emmet County	11-26-49
J M McGinnis Slough Orland Park, Ill.	12-3-41	Montrose, Ia. Lee County	11-11-50
J F Alida Lake Manitoba	7-23-42	Ft. Madison, Ia. Lee County	11-20-48
J M Chautauqua Refuge Havana, Ill.	10-18-42	Burlington, Ia. Des Moines County	11-4-49
A M Chautauqua Refuge Havana, Ill.	11-7-42	Muscatine, Ia. Muscatine County	10-22-50
A M Chautauqua Refuge Havana, Ill.	11-8-42	Ft. Madison, Ia. Lee County	11-26-48
A M Chautauqua Refuge Havana, Ill.	11-17-42	Oxford Junction, Ia. Jones County	10-23-49
A M Big Grass Marsh Langruth, Manitoba	7-10-43	Big Lake Lansing, Ia.	Fall 1947
J M Regina, Sask.	9-30-43	Iowa River Louisa County	11-17-50
A M Chautauqua Refuge Havana, Ill.	11-16-43	Marengo, Ia. Iowa County	November 1946
A M Chautauqua Refuge Havana, Ill.	11-28-43	Oskaloosa, Ia. Mahaska County	10-24-49
A M Chautauqua Refuge Havana, Ill.	11-29-43	Riverton, Ia. Fremont County	11-19-48
A M Mohawk Park Lake Tulsa, Oklahoma	2-11-44	Council Bluffs, Ia. Pottawattamie Co.	11-20-48
J F Athabaska Delta Alberta	8-18-44	Elma, Ia. Howard County	10-20—26-50
A M Chautauqua Refuge Havana, Ill.	11-11-44	Spirit Lake, Ia. Dickinson County	11-19-50
A M Chautauqua Ref. Havana, Ill.	11-15-44	Greenville, Ia. Clay County	11-18—12-27-48
— F Chautauqua Ref. Havana, Ill.	11-23-44	Princeton Isl. 299 Scott County	10-31—11-3-50

Appendix

Table 2 (Continued)

Returns of Individual Banded Ducks, Geese, and Coot Recovered In Iowa

Mallard—Continued

Age, Sex & Place of banding	Date of banding	Location of return	Date of return
A M Chautauqua Ref. Havana, Ill.	11-29-44	Ft. Madison, Ia. Lee County	11-18-49
J M McGinnis Slough Orland Park, Ill.	11-19-45	Maquoketa, Ia. Maquoketa River	10-29-50
— F Spring Lake Savanna, Ill.	10-16-46	Burlington, Ia. Des Moines County	10-24-49
A M Spring Lake Savanna, Ill.	10-18-46	Jackson County	11-11-50
J M Spring Lake Savanna, Ill.	10-21-46	Marengo, Ia. Iowa River	November 1947
A M Spring Lake Savanna, Ill.	11-1-46	Thompson, Ia. Winnebago County	10-12—26-51
— F Spring Lake Savanna, Ill.	11-5-46	Davenport, Ia. Scott County	11-21-49
A M Spring Lake Savanna, Ill.	11-10-46	Oxford Township Johnson County	10-28-49
J M Spring Lake Savanna, Ill.	11-12-46	Geneva Island Muscatine County	10-12-51
— F Spring Lake Savanna, Ill.	11-13-46	Mississippi River Clinton County	10-23-51
— F Spring Lake Savanna, Ill.	11-13-46	Wapello, Ia. Louisa County	10-27-49
J M Spring Lake Savanna, Ill.	11-14-46	Sabula, Ia. Mississippi River	11-14-48
J M Spring Lake Savanna, Ill.	11-20-46	Cedar Bluff, Ia. Cedar River	11-20-48
J M Spring Lake Savanna, Ill.	11-22-46	Iowa River Bottom Allamakee County	11-17-50
A M Wheeler Refuge Decatur, Ala.	12-3-46	Lake Township Monona County	10-20-50
J F Wheeler Wildlife Refuge Decatur, Alabama	12-18-46	Muscatine, Ia. Muscatine County	11-14-48
A F Tulsa, Oklahoma Tulsa County	3-6-47	Iowa City, Ia. Johnson County	10-12—30-51
J M Horicon Marsh Horicon, Wisc.	7-18-47	Burlington, Ia. Des Moines County	11-16-48
J — Wilson Bay Delta, Manitoba	7-23-47	Rock Valley, Ia. Sioux County	11-8-48

Appendix

Table 2 (Continued)

Returns of Individual Banded Ducks, Geese, and Coot Recovered In Iowa

Mallard—Continued

Age, Sex & Place of banding	Date of banding	Location of return	Date of return
J M Rice Lake, Sask.	8-14-47	Chariton, Ia. Lucas County	11-13-49
J M Big Lake Alberta	8-20-47	Harrison County	11-27-48
A M Lower Souris Ref. Upham, N. Dak.	9-20-47	Clarion, Ia. Wright County	11-15-48
J M McGinnis Slough Orland Park, Ill.	10-27-47	Clinton, Ia. Clinton County	6-30-49
A M Spring Lake Savanna, Ill.	10-29-47	DeWitt, Ia. Clinton County	11-27-49
J M Spring Lake Savanna, Ill.	11-1-47	Clinton, Ia. Pool 13	11-5-49
A M Spring Lake Savanna, Ill.	11-3-47	Clinton, Ia. Mississippi River	11-25-48
J M Chautauqua Ref. Havana, Ill.	11-6-47	Stanwood, Ia. Cedar County	10-22-49
J M Horicon Marsh Horicon, Wisc.	11-6-47	Harper's Ferry, Ia. Allamakee County	10-30-48
A M Chautauqua Ref. Havana, Ill.	11-10-47	Lansing, Ia. Big Lake	10-21-50
J M Chautauqua Ref. Havana, Ill.	11-10-47	Lansing, Ia. Big Lake	11-4-49
J M McGinnis Slough Orland Park, Ill.	11-11-47	Muscatine, Ia. Turkey Island	10-21—24-49
J M Chautauqua Ref. Havana, Ill.	11-12-47	Burlington, Ia. Mississippi River	10-26-50
J M McGinnis Slough Orland Park, Ill.	11-13-47	Brown's Lake Jackson County	11-9-48
A M Spring Lake Savanna, Ill.	11-13-47	Ft. Madison, Ia. Lee County	11-28-48
— F Spring Lake Savanna, Ill.	11-13-47	Brown's Lake Jackson County	11-9-50
A M Spring Lake Savanna, Ill.	11-14-47	Clinton, Ia. Clinton County	11-22-49
— F Spring Lake Savanna, Ill.	11-14-47	Clinton, Ia. Pool 13	1-8-49
A M Flat Lake Grafton, Ill.	11-15-47	Grass Lake Emmet County	3-24-50

Appendix

Table 2 (Continued)

Returns of Individual Banded Ducks, Geese, and Coot Recovered In Iowa

Mallard—Continued

Age, Sex & Place of banding	Date of banding	Location of return	Date of return
J M Horicon Marsh Horicon, Wisc.	11-15-47	Skunk River Jasper County	11-24-49
J M Chautauqua Ref. Havana, Ill.	11-19-47	Muscatine, Ia. Mississippi River	November 1948
J M Chautauqua Ref. Havana, Ill.	11-19-47	Arnold's Park, Ia. Lake Okoboji	12-22-49
A M Chautauqua Ref. Havana, Ill.	11-20-47	Clear Lake, Ia. Cerro Gordo County	11-3-51
— F McGinnis Slough Orland Park, Ill.	11-20-47	Killduff, Ia. Jasper County	11-9-50
J M Spring Lake Savanna, Ill.	11-21-47	Clinton, Ia. Pool 13	11-21-49
A M Flat Lake Grafton, Ill.	11-24-47	Harris, Ia. Osceola County	10-24-51
A M Flat Lake Grafton, Ill.	11-24-47	Raccoon River Carroll County	11-4-51
A M Chautauqua Ref. Havana, Ill.	11-25-47	Dumont, Ia. Butler County	10-22-50
A M Chautauqua Ref. Havana, Ill.	11-26-47	De Witt, Ia. Wapsi River	11-21-49
A M Chautauqua Ref. Havana, Ill.	11-27-47	Osceola, Ia. Waterworks Lake	10-25-50
A M Flat Lake Grafton, Ill.	12-1-47	Cedar Rapids, Ia. Cedar River	10-24-49
J M Chautauqua Ref. Havana, Ill.	12-5-47	Clinton, Ia. Pool 13	11-7-48
A M Chautauqua Ref. Havana, Ill.	12-5-47	New London, Ia. Henry County	10-24-50
— M Salt Plains Ref. Jet, Okla.	12-16-47	Guttenberg, Ia. Mississippi River	11-5-50
A M Mohawk Park Tulsa, Okla.	12-29-47	Round Lake Harrison County	11-4-51
A M Mohawk Park Tulsa, Okla.	12-30-47	Fremont County, Iowa	11-14-48
A M Mohawk Park Tulsa, Okla.	1-3-48	Burlington, Ia. Des Moines County	11-5-49
A M Mohawk Park Tulsa, Okla.	1-7-48	Sioux City, Ia. Brown's Lake	10-30-49

Appendix

Table 2 (Continued)

Returns of Individual Banded Ducks, Geese, and Coot Recovered In Iowa

Mallard—Continued

Age, Sex & Place of banding	Date of banding	Location of return	Date of return
A M Valmont Reservoir Boulder, Colo.	3-1-48	Henry County, Iowa	11-14-49
A F Mohawk Park Tulsa, Okla.	3-3-48	Sioux City, Ia. Missouri River	11-10-48
A M Lower Souris Ref. Upham, N. Dak.	7-11-48	Louisa County Mississippi River	11-6-49
J M Delta Marsh Delta, Manitoba	8-4-48	New Hampton, Ia. Wapsipinicon River	11-15-48
A F Des Lacs Refuge Kenmare, N. Dak.	8-9-48	Clinton, Ia. Mississippi River	11-25-48
A M Yorktown, Sask.	8-16-48	Brown's Lake Jackson County	10-29-48
A M Delta Marsh Delta, Manitoba	8-28-48	Ruthven, Ia. Lost Island Lake	11-24-49
J F Athabaska Delta Hilda Lake, Alberta	8-31-48	Union Slough Kossuth County	11-20-48
J F Delta Marsh Delta, Manitoba	9-3-48	Jefferson County Iowa	11-10-50
J F Delta Marsh Delta, Manitoba	9-6-48	Princeton, Ia. Clinton County	10-21—24-49
J — Ministik Lake Alberta	9-6-48	Riverton, Ia. Fremont County	11-13-48
J F Lower Souris Ref. Upham, N. Dak.	9-12-48	Hancock, Ia. Pottawattamie Co.	11-24-48
J M Delta Marsh Delta, Manitoba	9-13-48	Sioux City, Ia. Brown's Lake	11-27-48
A M Lower Souris Ref. Upham, N. Dak.	9-15-48	Cascade, Ia. Dubuque County	10-26-51
J F Delta Marsh Delta, Manitoba	9-17-48	Eagle Lake Hancock County	10-26-49
J M Delta Marsh Delta, Manitoba	9-18-48	Mud Lake Emmet County	11-6-49
A F Lower Souris Ref. Upham, N. Dak.	9-19-48	Missouri River Woodbury County	10-12— 11-6-51
A M Lower Souris Ref. Upham, N. Dak.	9-19-48	Milford, Ia. Dickinson County	11-20-48
J F Lower Souris Ref Upham, N. Dak.	9-21-48	Riverton, Ia. Fremont County	11-19-48

Appendix

Table 2 (Continued)

Returns of Individual Banded Ducks, Geese, and Coot Recovered In Iowa

Mallard—Continued

Age, Sex & Place of banding	Date of banding	Location of return	Date of return
J M Lower Souris Ref. Upham, N. Dak.	9-21-48	Onawa, Ia. Monona County	11-29-49
J M Fish Lake Horicon, Wisc.	9-22-48	Burlington, Ia. Mississippi River	10-25-50
J F Portage Creek Delta, Manitoba	9-22-48	LeMars, Ia. Plymouth County	11-19-48
J M Portage Creek Delta, Manitoba	9-25-48	Burlington, Ia. Mississippi River	11-22-48
J M Thief Lake Ref. Middle River, Minn.	9-26-48	Wapello, Ia. Louisa County	11-26-48
A M Valentine Ref. Valentine, Neb.	10-4-48	Iowa City, Ia. Johnson County	11-22-48
A M Lower Souris Ref. Upham, N. Dak.	10-7-48	Ruthven, Ia. Trumbull Lake	11-3-49
J F Lower Souris Ref. Upham, N. Dak.	10-18-48	Ft. Madison, Ia. Mississippi River	11-27-49
J M Spring Lake Savanna, Ill.	10-18-48	Brown's Lake Jackson County	10-29-48
J M Spring Lake Savanna, Ill.	10-19-48	DeWitt, Ia. Wapsipinicon River	11-27-49
J M Spring Lake Savanna, Ill.	10-19-48	Clinton, Ia. Clinton County	11-11-48
J M Spring Lake Savanna, Ill.	10-20-48	Guttenberg, Ia. Mississippi River	10-22-49
— F Spring Lake Savanna, Ill.	10-20-48	Jackson County	10-30-48
J M Spring Lake Savanna, Ill.	10-20-48	Clinton, Ia. Pool 13	11-2-48
J M Spring Lake Savanna, Ill.	10-20-48	Sabula, Ia. Jackson County	10-31-48
J M Spring Lake Savanna, Ill.	10-20-48	Princeton, Ia. Pool 14	11-11-48
J M Spring Lake Savanna, Ill.	10-20-48	Sabula, Ia. Jackson County	10-29-48
A M Wheeler Refuge Decatur, Ala.	10-21-48	Thurman, Ia. Forney's Lake	11-1-49
J M Spring Lake Savanna, Ill.	10-21-48	Bellevue, Ia. Jackson County	11-5-48

Appendix

Table 2 (Continued)

Returns of Individual Banded Ducks, Geese, and Coot Recovered In Iowa

Mallard—Continued

Age, Sex & Place of banding	Date of banding	Location of return	Date of return
J M Spring Lake Savanna, Ill.	10-21-48	Clinton County	November 1948
— F Spring Lake Savanna, Ill.	10-21-48	Jackson County	10-29-48
J F Spring Lake Savanna, Ill.	10-21-48	Clinton, Ia. Clinton County	10-31-48
J M Spring Lake Savanna, Ill.	10-21-48	Clinton, Ia. Clinton County	11-5-48
J M Spring Lake Savanna, Ill.	10-21-48	Grand Mound, Ia. Clinton County	11-7-48
— F Spring Lake Savanna, Ill.	10-22-48	Wyoming, Ia. Jones County	December 1948
J M Spring Lake Savanna, Ill.	10-22-48	Camanche, Ia. Clinton County	10-29-48
— F Spring Lake Savanna, Ill.	10-22-48	Green Island Jackson County	11-4-48
A M Spring Lake Savanna, Ill.	10-22-48	Brown's Lake Jackson County	11-3-48
— F Spring Lake Savanna, Ill.	10-24-48	Sabula, Ia. Jackson County	11-5-50
J F Spring Lake Savanna, Ill.	10-26-48	Clinton, Ia. Pool 13	11-1-48
J M Spring Lake Savanna, Ill.	10-26-48	Clinton, Ia. Clinton County	10-29-48
J M Chautauqua Ref. Havana, Ill.	10-26-48	Spirit Lake, Ia. Dickinson County	11-19-49
A M Squaw Creek Ref. Mound City, Mo.	10-27-48	Twelve Mile Lake Emmet County	11-12-48
A F Mohawk Park Lake Tulsa, Okla.	11-11-48	Lamoni, Ia. Decatur County	11-17-48
A M Chautauqua Ref. Havana, Ill.	11-12-48	Burlington, Ia. Des Moines County	11-8-50
A M Chautauqua Ref. Havana, Ill.	11-15-48	Rockwell City South Twin Lakes	11-3-51
J M Chautauqua Ref. Havana, Ill.	11-28-48	Sabula, Ia. Green Isl. Bottoms	11-15-49
J M Chautauqua Ref. Havana, Ill.	11-29-48	Lone Tree, Ia. Johnson County	11-18-49

Appendix

Table 2 (Continued)

Returns of Individual Banded Ducks, Geese, and Coot Recovered In Iowa

Mallard—Continued

Age, Sex & Place of banding	Date of banding	Location of return	Date of return
J M Chautauqua Ref. Havana, Ill.	12-4-48	Muscatine, Ia. Muscatine County	11-5-49
A M Chautauqua Ref. Havana, Ill.	12-8-48	Watkins, Ia. Benton County	10-21— 11-29-49
— F Chautauqua Ref. Havana, Ill.	12-17-48	Clinton, Ia. Clinton County	11-16-49
A M Tulsa, Okla.	12-31-48	Burlington, Ia. Des Moines County	11-26-49
A F Tulsa, Okla.	1-2-49	Missouri Valley, Ia. Boyer River	11-13-50
A M Tulsa, Okla.	1-6-49	Council Bluffs, Ia. Pottawattamie Co.	10-23-49
A M Hermiston, Oregon Umatilla District	2-2-49	Percival, Ia. Missouri River	10-24-49
A F Sedgwick, Colo. South Platte River	2-8-49	Clarion, Ia. Elm Lake	11-23-50
A M Sedgwick, Colo. South Platte River	2-16-49	Monona County Missouri River	11-10-50
— F Swan Lake Ref. Sumner, Mo.	3-17-49	Clear Lake, Ia. Cerro Gordo County	11-23-50
A F Eyebrow, Sask.	7-18-49	Clarence, Ia. Cedar County	4-22-50
A M Eyebrow, Sask.	7-18-49	Dubuque, Ia. Mississippi River	10-29-50
A M Hilda Lake, Alberta Athabaska Delta	7-19-49	Wall Lake, Ia. Sac County	12-7-49
A M Whitewater Lake Manitoba	7-22-49	Ruthven, Ia. Trumbull Lake	11-5-49
A F Hilda Lake, Alberta Athabaska Delta	7-22-49	Riverton Area Fremont County	10-30-49
J M Clam Lake Horicon, Wisc.	7-24-49	Guttenberg, Ia. Clayton County	10-20-50
A M Lower Souris Ref. Upham, N. Dak.	7-26-49	Forney's Lake Fremont County	11-15-50
A M Whitewater Lake Manitoba	7-26-49	Ft. Madison, Ia. Mississippi River	11-27-49
A M Lower Souris Ref. Upham, N. Dak.	7-26-49	Forney's Lake Fremont County	11-15-49

Appendix

Table 2 (Continued)

Returns of Individual Banded Ducks, Geese, and Coot Recovered In Iowa

Mallard—Continued

Age.	Sex & Place of banding	Date of banding	Location of return	Date of return
J M	Whitewater Lake Manitoba	7-26-49	Burlington, Ia. Mississippi River	11-14-50
A M	Berry Lake Pollockville, Alberta	7-28-49	Twelve Mile Lake Emmet County	11-12-51
A M	Manawi Lake Athabaska Delta	8-1-49	Rock Rapids, Ia. Little Rock River	11-22-50
A M	Lower Souris Ref. Upham, N. Dak.	8-5-49	Blackhawk Lake Sac County	11-11-49
— M	Whitewater Lake Manitoba	8-6-49	Lake Park, Ia. Dickinson County	11-1-51
A M	Delta Marsh Delta, Manitoba	8-9-49	Keokuk, Ia. Des Moines River	11-12-50
— M	Whitewater Lake Manitoba	8-11-49	Pella, Ia. South Skunk River	10-23-49
— M	Whitewater Lake Manitoba	8-11-49	Burlington, Ia. Mississippi River	10-20—25-49
A F	Delta Marsh Delta, Manitoba	8-12-49	Cedar Rapids, Ia. Linn County	11-22-49
— M	Whitewater Lake Manitoba	8-17-49	Monroe, Ia. Jasper County	10-20— 11-12-50
I F	Delta Marsh Delta, Manitoba	8-20-49	Hamilton County Iowa	10-28-51
J F	Lake Claire Alberta	8-23-49	Riverton, Ia. Fremont County	10-20— 11-23-50
— M	Mud Lake Refuge Holt, Minn.	8-30-49	Sioux City, Ia. Woodbury County	11-25-49
— M	Whitewater Lake Manitoba	9-1-49	Louisa County	10-31-49
A F	Whitewater Lake Manitoba	9-1-49	Little Wall Lake Hamilton County	11-14-50
J F	Delta Marsh Delta, Manitoba	9-11-49	Harrison County Missouri River	10-23-49
A F	Lower Souris Ref. Upham, N. Dak.	9-16-49	Burlington, Ia. Des Moines County	11-30-49
A M	Thief Lake Ref. Middle River, Minn.	9-24-49	Wilton Junction, Ia. Muscatine County	10-28-49
J M	Burnett Co. Area Wisconsin	9-28-49	Lansing, Ia. Allamakee County	10-21-49

Appendix

Table 2 (Continued)

Returns of Individual Banded Ducks, Geese, and Coot Recovered In Iowa

Mallard—Continued

Age, Sex & Place of banding	Date of banding	Location of return	Date of return
A M Lower Souris Ref. Upham, N. Dak.	9-29-49	Quimby, Ia. Little Sioux River	11-1-49
A M Mud Lake Refuge Holt, Minn.	10-16-49	Burlington, Ia. Des Moines County	11-15-49
J M Burnett Co. Area Wisconsin	10-26-49	Olin, Ia. Jones County	11-20-49
J M Seney Refuge Germfask, Mich.	10-28-49	Dubuque, Ia. Zollikeffer Lake	11-3-50
A M Chautauqua Ref. Havana, Ill.	10-28-49	Livermore, Ia. Humboldt County	10-28-51
J M Chautauqua Ref. Havana, Ill.	10-28-49	Cedar Rapids, Ia. Linn County	10-20— 11-14-50
A M Chautauqua Ref. Havana, Ill.	10-30-49	Mahaska County, Iowa	10-26-51
J M Burnett Co. Area Wisconsin	10-31-49	Carroll, Ia. Carroll County	11-10-49
J M Snider Lake Burnett Co., Wisc.	11-2-49	Oelwein, Ia. Fayette County	11-13-49
A M Chautauqua Ref. Havana, Ill.	11-7-49	Wapello, Ia. Lake Odessa	11-8-49
A F Chautauqua Ref. Havana, Ill.	11-8-49	Kesley, Ia. Butler County	10-28-51
— F Chautauqua Ref. Havana, Ill.	11-9-49	Burlington, Ia. Des Moines County	10-26-51
A M Chautauqua Ref. Havana, Ill.	11-11-49	Burlington, Ia. Des Moines County	10-24-50
— M Squaw Creek Refuge Mound City, Mo.	11-11-49	Missouri Valley, Ia. Missouri River	11-26-49
I M Chautauqua Ref. Havana, Ill.	11-14-49	DeWitt, Ia. Clinton County	10-20-51
A M Chautauqua Ref. Havana, Ill.	11-18-49	Princeton, Ia. Scott County	11-6-50
— F Chautauqua Ref. Havana, Ill.	11-19-49	Ocheyedan, Ia. Rush Lake	11-2-50
A M Chautauqua Ref. Havana, Ill.	11-22-49	Burlington, Ia. Des Moines County	11-5-50
— F Chautauqua Ref. Havana, Ill.	11-22-49	Burlington, Ia. Des Moines County	12-1-51

Appendix

Table 2 (Continued)

Returns of Individual Banded Ducks, Geese, and Coot Recovered In Iowa

Mallard—Continued

Age, Sex & Place of banding	Date of banding	Location of return	Date of return
A M Chautauqua Ref. Havana, Ill.	11-23-49	Corning, Ia. Adams County	11-19-50
A M Chautauqua Ref. Havana, Ill.	11-23-49	Benton, Ia. Ringgold County	10-26-51
I M Crab Orchard Ref. Cartersville, Ill.	11-24-49	Conesville, Ia. Muscatine County	10-12-51
A M Chautauqua Ref. Havana, Ill.	11-24-49	Oakville, Ia. Louisa County	11-4-51
A M Chautauqua Ref. Havana, Ill.	11-26-49	Whitehead Island Des Moines County	11-6-50
A M Chautauqua Ref. Havana, Ill.	11-27-49	Pulaski, Ia. Davis County	11-2-51
— F Bayou Meto P.S.G. Reydel, Ark.	11-27-49	Big Island Des Moines County	11-5-50
A M Chautauqua Ref. Havana, Ill.	11-29-49	Osceola, Ia. Clarke County	11-10-50
— M Bayou Meto P.S.G. Reydel, Ark.	12-1-49	Silver Lake Dickinson County	11-21-50
— F Bayou Meto P.S.G. Reydel, Ark.	12-1-49	Burlington, Ia. Big Island	10-28-51
— F Bayou Meto P.S.G. Reydel, Ark.	12-7-49	Garner, Ia. Hancock County	10-20-50
J M Hovey Lake Mt. Vernon, Ind.	12-8-49	Cedar Falls, Ia. Blackhawk County	10-14-51
J F Hovey Lake Mt. Vernon, Ind.	12-13-49	Steamboat Slough Scott County	10-3— 11-3-50
— F Lamar, Colo. Arkansas River	1-27-50	Belle Plaine, Ia. Benton County	11-10-50
— F South Platte River Sedgwick, Colo.	2-11-50	Eagle Lake Emmet County	11-9-50
— M South Platte River Sedgwick, Colo.	3-4-50	Thurman, Ia. Forney's Lake	11-8-50
A M Horicon Marsh Horicon, Wisc.	4-19-50	Vernon Township Wright County	10-22-50
A M Valentine Refuge Valentine, Neb.	4-28-50	Hamburg, Ia. Missouri River	11-11-50
— M Horicon Marsh Horicon, Wisc.	7-27-50	West Point, Ia. Lee County	11-1-51

Appendix

Table 2 (Continued)

Returns of Individual Banded Ducks, Geese, and Coot Recovered In Iowa

Mallard--Continued

Age, Sex & Place of banding	Date of banding	Location of return	Date of return
A M Delta Marsh Delta, Manitoba	8-18-50	Bellevue, Ia. Mississippi River	10-20— 11-23-50
J F La Vallee, Ontario	8-22-50	Dumont, Ia. Butler County	11-18-50
I M Delta Marsh Delta, Manitoba	8-24-50	Spencer, Ia. Clay County	10-28-51
I F State College Pond Centre County, Penn.	8-25-50	Eddyville, Ia. Wapello County	10-28-51
J M Delta Marsh Delta, Manitoba	8-30-50	Muscatine, Ia. Muscatine County	11-10-50
A F Mud Lake Refuge Holt, Minn.	9-3-50	West Fork River Butler County	10-27-51
J M Delta Marsh Delta, Manitoba	9-9-50	Cedar Rapids, Ia. Linn County	11-10-50
I M Delta Marsh Delta, Manitoba	9-11-50	Cedar Falls, Ia. Black Hawk County	10-27-51
I F Delta Marsh Delta, Manitoba	9-14-50	Orient, Ia. Adair County	11-11-50
A F Thief Lake Ref. Marshall Co., Minn.	9-22-50	Burlington, Ia. Mississippi River	10-29-50
I M La Vallee, Ontario	9-24-50	Viola, Ia. Linn County	11-9-50
J F La Vallee, Ontario	9-24-50	Lansing, Ia. Mississippi River	11-12-50
J F Thief Lake Ref. Marshall Co., Minn.	9-29-50	Burlington, Ia. Des Moines County	11-20-50
A M Resthaven Sanctuary Castalia, Ohio	10-8-50	New Hampton, Ia. Chickasaw County	10-22-51
I M Resthaven Sanctuary Castalia, Ohio	10-22-50	Rodney, Ia. Monona County	10-12-51
A F Mud Lake Refuge Holt, Minn.	10-31-50	Burlington, Ia. Des Moines County	11-16-50
A M Mud Lake Refuge Holt, Minn.	10-31-50	Algona, Ia. Des Moines River	11-20-50
A M Chautauqua Ref. Havana, Ill.	11-6-50	McGregor, Ia. Clayton County	10-12— 22-51
— F Chautauqua Ref. Havana, Ill.	11-6-50	Columbus Junction, Ia. Louisa County	10-24-51

Appendix

Table 2 (Continued)

Returns of Individual Banded Ducks, Geese, and Coot Recovered In Iowa

Mallard—Continued

Age, Sex & Place of banding	Date of banding	Location of return	Date of return
A M Chautauqua Ref. Havana, Ill.	11-7-50	Bellevue, Ia. Jackson County	10-12-51
A M Chautauqua Ref. Havana, Ill.	11-10-50	Burlington, Ia. Des Moines County	11-2-51
I M Chautauqua Ref. Havana, Ill.	11-14-50	Nichols, Ia. Muscatine County	11-23-50
I M Chautauqua Ref. Havana, Ill.	11-22-50	Sabula, Ia. Jackson County	10-12—30-51
I M Chautauqua Ref. Havana, Ill.	11-23-50	Creston, Ia. Union County	11-1-51
A M Lacassine Refuge Lake Arthur, La.	11-26-50	Mississippi River Lee County	11-3-51
— F Bayou Meto P.S.G. Reydel, Ark.	12-22-50	Council Bluffs, Ia. Lake, Manawa	11-6-51
— F Lake Andes S. Dak.	12-23-50	Lake Park, Ia. Dickinson County	11-4-51
— M Lake Andes S. Dak.	12-31-50	Council Bluffs, Ia. Honey Creek Lake	10-28-51
— M Lake Andes S. Dak.	1-3-51	Missouri Valley, Ia. Harrison County	10-28-51
— M Lake Andes S. Dak.	1-7-51	Sioux City, Ia. Woodbury County	11-2-51
— M Bayou Meto P.S.G. Reydel, Ark.	1-29-51	Dallas County, Iowa	10-12—27-51
J F Minton, Sask.	7-13-51	Thurman, Ia. Fremont County	11-3-51
I M La Crosse, Wisc.	7-23-51	Independence, Ia. Buchanan County	10-12— 11-3-51
I M Mud Lake Refuge Holt, Minn.	8-6-51	Gilmore City, Ia. Lizard Lake	10-13-51
I M La Crosse, Wisc.	8-6-51	Lansing, Ia. Allamakee County	10-12-51
I F La Crosse, Wisc.	8-6-51	Lansing, Ia. Allamakee County	10-20-51
I F La Crosse, Wisc.	8-6-51	Aplington, Ia. Butler County	11-2-51
I F Delta Marsh Delta, Manitoba	8-7-51	Emmet County, Iowa	11-4-51

Appendix

Table 2 (Continued)

Returns of Individual Banded Ducks, Geese, and Coot Recovered In Iowa
Mallard—Continued

Age, Sex & Place of banding	Date of banding	Location of return	Date of return
A M Delta Marsh Delta, Manitoba	8-10-51	Riverton Area Fremont County	10-28-51
I F Mud Lake Refuge Holt, Minn.	8-11-51	Fairport, Ia. Muscatine County	11-4-51
I F Mud Lake Refuge Holt, Minn.	8-14-51	Riverton Area Fremont County	10-16-51
I M Delta Marsh Delta, Manitoba	8-20-51	Burlington, Ia. Des Moines County	11-1-51
I M Horicon Marsh Horicon, Wisc.	8-20-51	Missouri River Plymouth County	10-13-51
— F Chautauqua Ref. Havana, Ill.	10-28-51	Burlington, Ia. Des Moines County	11-7-51

BIOLOGY SECTION

STATE CONSERVATION COMMISSION

OKOBOJI, IOWA