ALABAMA WATERFOWL SURVEY

ANNUAL REPORT, 2011-2012

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May, 2012



Federal Aid Project

Funded by your purchase of hunting licenses and equipment.

ALABAMA DIVISION OF WILDLIFE AND FRESHWATER FISHERIES

WILDLIFE RESTORATION PROGRAM

Grant Number W-35, Study 1

2011-2012 ANNUAL WATERFOWL REPORT

STATE: Alabama Grant Number: W-35

Time Period: July 1, 2011-June 30, 2012

GRANT TYPE: Surveys and Inventories

GRANT TITLE: Statewide Wildlife Research and Surveys

STUDY I: WATERFOWL RESEARCH AND SURVEYS

<u>Study Objective</u>: To determine waterfowl population characteristics and harvest information needed to plan management of ducks and geese in Alabama.

Job I-A. Title: Cooperative Waterfowl Banding

Job Objective: To band waterfowl in accordance with assigned quotas.

<u>Activity</u>: Attempts to trap and band wood ducks were carried out during the summer of 2011 at the following locations in Alabama:

- Swan Creek W.M.A. in Limestone County None banded
- Near Mud Creek W.M.A. in Jackson County 14 AHYM, 6 AHYF, 13 HYM, 3 HYF
- Near the Mobile River in Mobile County 0 AHYM, 1 AHYF, 1 HYM, 1 HYF
- Near Barbour W.M.A in Barbour County 5 AHYM, 1 AHYF, 10 HYM, 7 HYF

A total of 62 wood ducks were banded this year with most birds being collected at the Jackson County site. The banding quota recommended for our agency in the Banding Needs document is 500. The classification of birds banded during the 2011 banding season is outlined in Table 1.

Table 1. Number of Wood Ducks Banded by Sex and Age During the 2011 Banding Season

Age	<u>Sex</u>	<u>Number</u>
AHY	M	19
AHY	F	8
HY	M	24
HY	F	11
U	M	0
U	U	0

<u>Remarks</u>: Efforts to trap and band wood ducks were repeated as in past years. Banders in Mobile County and Swan Creek WMA had difficulties on trap sites due to high levels of non-target species such as feral hogs, squirrels, raccoons, and coyotes keeping the wood ducks from the bait site. Banding in Jackson County as well as the other banding sites was hindered due to non-target interference as well as other undetermined reasons (ducks would not utilize bait). Trapping efforts will be expanded to other sites in Alabama for the 2012 trapping season.

<u>Recommendations</u>: This project needs to incorporate additional banding sites in order to band the quota set for our agency. Additionally, different trapping methods such as floating traps, rocket nets and traps partially submerged in water will be investigated.

Job I-B. Title: Survey of Waterfowl Hunting Activity

<u>Job I-B. Objective</u>: To monitor waterfowl harvest trends and hunter activity on the major waterfowl wintering areas within Alabama.

<u>Activity</u>: Waterfowl hunter bag checks were made at the checking stations on the Tennessee River public hunting areas and at private duck hunting properties and in the Mobile Delta at selected times during the waterfowl season. Information regarding the hunter bag checks conducted during the past 10 years is summarized in Table 2.

Table 2: Duck Hunting Activity Comparison for the Tennessee River and Mobile Bay/Delta Areas for the Past 10 Years.

	Tenness	see River	Mobile Ba	ay & Delta
Hunting Season	Average Hours/Trip	Average Ducks/Trip	Average Hours/Trip	Average Ducks/Trip
11-12	3.2	1.8	3.3	2.1
10-11	3.3	1.6	3.6	1.5
09-10	3.6	1.8	3.3	1.3
08-09	3.8	1.3	3.1	1.6
07-08	4.1	1.0	2.9	1.2
06-07	3.7	0.6	3.2	0.9
05-06	4.5	1.6	3.8	1.9
04-05	3.1	1.6	3.4	1.0
03-04	3.1	2.3	2.7	1.4
02-03	4.1	1.0	3.2	0.9

The composition of the Alabama duck harvest by species for 2011-2012 is contained in Table 3. Duck hunting activity for the past 32 years in the Tennessee River, Mobile Bay, and Delta is summarized in Table 4. The composition of the Alabama duck hunting harvest by percent for 1980s, 1990s, 2000s, 2010s is contained in Tables 5, 6, 7, and 8 for Tennessee Valley and 9, 10, 11 and 12 for Mobile Delta.

Table 3. Percentage of Ducks by Species in the Alabama Hunter Bag Checks Conducted During the 2011-2012 Season on the Tennessee River and Mobile Bay

	Tennessee River	Mobile Bay and Delta
	<u>%</u>	<u>%</u>
Mallard	6.4	0.5
Black Duck	0.2	0.0
Gadwall	42.6	29.4
Widgeon	0.7	1.9
GW Teal	2.5	12.7
Pintail	0.4	0.3
Canvasback	0.5	0.3
Scaup	1.8	6.3
Ringneck	26.5	0.3
Wood Duck	14.0	2.1
Goldeneye	0.1	0.0
Bufflehead	1.1	7.9
Merganser	0.4	0.6
BW Teal	0.3	0.9
Shoveler	2.4	19.5
Ruddy Duck	0.0	2.7
Redhead	0.0	13.9
Mottled Duck	0.0	0.6

Table 4. Duck Hunting Activity Comparison for the Tennessee River and Mobile Bay/Delta Areas for the Past 32 Years.

Decade of the 2010's	Tennes	see River	Mobile Bay and Delta				
Season	Average Trip Hours	Average Harvest/Trip	Average Trip Hours	Average Harvest/Trip			
	•	•	•	•			
11-12	3.2	1.8	3.3	2.1			
10-11	3.3	1.6	3.6	1.5			
Low Value for Decade	3.2	1.6	3.3	1.5			
High Value for Decade	3.3	1.8	3.6	2.1			
Average	3.25	1.7	3.45	1.8			
Tiverage	3.23	1.7	3.13	1.0			
Decade of the 2000's	Tennes	see River	Mobile Ba	y and Delta			
Season	Average Trip Hours	Average Harvest/Trip	Average Trip Hours	Average Harvest/Trip			
09-10	3.6	1.8	3.3	1.3			
08-09	3.9	1.1	2.7	1.6			
07-08	4.1	1.0	2.9	1.0			
06-07	3.7	0.6	3.2	0.9			
05-06	4.5	1.6	3.8	1.9			
04-05	3.1	1.6	3.4	1.0			
03-04	3.1	2.3	2.7	1.4			
02-03	4.1	1.0	3.2	0.9			
01-02	4.0	0.9	3.2	1.8			
00-01	5.2	1.3	3.3	1.4			
Low Value for Decade	3.1	0.6	2.7	0.9			
	5.2	2.3	3.8				
High Value for Decade	4.0	1.3	3.3	1.9			
Average	4.0	1.3	3.3	1.3			
Danada af 41 - 10001 -	Τ	see River	M.L.1. D.	ri and Dalta			
Decade of the 1990's				y and Delta			
Season 99-00	Average Trip Hours	Average Harvest/Trip 0.9	Average Trip Hours 3.4	Average Harvest/Trip			
	4.4			2.0			
98-99	4.9	1.3	3.3	2.0			
97-98		1.0	3.4				
96-97 95-96	5.7	1.0 1.2	3.6	2.0			
	5.6			1.9			
94-95	5.0	1.1	3.8	1.5			
93-94	4.8	0.8	3.8	1.5			
92-93	4.6	0.8	3.9	1.7			
91-92	4.6	0.6	3.8	1.5			
90-91	4.6	0.8	4.1	1.6			
Low Value for Decade	4.4	0.6	3.3	1.5			
High Value for Decade	5.7	1.3	4.1	2.0			
Average	4.9	0.9	3.6	1.8			
Average	4.8	.7	3.8	2.1			

Table 4 continued on following page.

Decade of the 1980's	Tenness	see River	Mobile Ba	y and Delta
Season	Average Trip Hours	Average Harvest/Trip	Average Trip Hours	Average Harvest/Trip
89-90	4.8	1.1	3.5	1.8
88-89	4.9	.6	2.8	1.5
87-88	4.8	.8	3.6	2.0
86-87	4.7	.6	4.4	1.1
85-86	4.7	.7	3.8	2.4
84-85	4.5	.7	4.8	3.5
83-84	5.0	1.0	3.6	1.4
82-83	4.9	.6	4.0	2.7
81-82	4.5	.6	4.0	3.0
80-81	4.8	.6		1.6
Low Value for Decade	4.5	.6	2.8	1.1
High Value for Decade	5.0	1.1	4.8	3.5
Average	4.8	.7	3.8	2.1

Table 5. Percentage of Ducks by Species in the Alabama Hunter Bag Checks Conducted During the Decade of the 2010's on the Tennessee River.

Season	19-20	18-19	17-18	16-17	15-16	14-15	13-14	12-13	11-12	10-11	2 Yr. Avg
# hunters									747	1054	900
checked											
# ducks									1346	1707	1527
checked											
Mallard									6.4	17.7	12.1
Black Duck									0.2	0.9	0.6
Gadwall									42.6	46.8	44.7
Widgeon									0.7	1.5	1.1
GW Teal									2.5	2.5	2.5
Pintail									0.4	0.6	0.5
Canvasback									0.5	2.1	1.3
Scaup									1.8	1.1	1.45
Ringneck									26.5	10.6	18.6
Wood Duck									14.0	8.6	11.3
Goldeneye									0.1	0.3	0.2
Bufflehead									1.1	1.5	1.3
Merganser									0.4	2.0	1.2
BW Teal									0.3	0.3	0.3
Shoveler									2.4	3.2	2.8
Ruddy Duck									0.0	0.2	0.1
Redhead									0.0	0.1	0.1
Mottled Duck									0.0	0.0	0.0
Oldsquaw									0.0	0.0	0.0

Table 6. Percentage of Ducks by Species in the Alabama Hunter Bag Checks Conducted During the Decade of the 2000's on the Tennessee River.

Season	09-10	08-09	07-08	06-07	05-06	04-05	03-04	02-03	01-02	00-01	10 Yr. Avg
# hunters	1870	1677	1732	1526	2256	1786	830	1232	1817	1314	1537
checked											
# ducks	3366	1844	1915	936	2734	2887	1868	1195	1611	1763	1856
checked											
Mallard	21.5	25.3	9.2	19.0	22.4	13.8	8.6	30.0	32.4	48.2	23.0
Black Duck	1.9	2.0	0.6	1.8	1.1	0.9	1.0	2.4	2.5	2.6	1.6
Gadwall	29.9	23.5	40.8	29.5	25.5	34.1	32.2	14.1	19.1	25.4	27.6
Baldpate	1.5	2.4	1.9	1.5	1.9	5.1	1.6	1.0	2.3	1.9	2.2
GW Teal	5.2	7.0	2.9	5.2	8.0	6.0	1.2	15.5	7.0	8.6	6.8
Pintail	1.1	4.4	0.3	1.5	1.5	2.1	0.6	0.4	1.1	1.7	1.2
Canvasback	1.1	0.0	2.9	0.8	0.1	0.0	0.3	0.0	0.0	0.4	0.6
Scaup	2.5	0.3	0.8	0.5	2.9	3.3	12.6	0.8	1.1	1.4	2.9
Ringneck	25.3	9.2	26.1	29.9	14.0	8.5	28.9	17.1	8.3	3.7	17.1
Wood Duck	4.8	16.2	4.6	4.6	14.0	14.0	2.8	16.2	19.9	2.4	9.8
Goldeneye	0.9	0.9	0.1	1.1	0.6	0.2	0.3	0.0	0.3	0.0	0.3
Bufflehead	1.5	2.0	0.0	1.2	1.2	1.4	1.0	0.4	1.2	0.8	0.9
Merganser	2.0	1.4	1.2	2.4	0.5	2.6	2.9	0.2	1.2	1.0	1.5
BW Teal	0.0	1.0	2.5	0.0	0.7	0.1	2.0	0.4	0.2	0.2	0.8
Shoveler	0.0	2.9	3.9	0.0	3.5	7.1	3.5	1.4	2.5	1.5	2.9
Ruddy Duck	0.0	0.1	0.1	0.0	0.6	0.1	0.0	0.0	0.2	0.1	0.1
Redhead	0.8	1.4	0.6	0.2	1.5	0.7	0.4	0.1	0.7	0.1	0.5
Mottled Duck	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oldsquaw	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 7. Percentage of Ducks by Species in the Alabama Hunter Bag Checks Conducted During the Decade of the 1990's on the Tennessee River.

Season	99-00	98-99	97-98	96-97	95-96	94-95	93-94	92-93	91-92	90-91	10 Yr. Avg
# hunters	1144	1833	1648								
checked											
# ducks	1015	2392	1725								
checked											
Mallard	24.3	38.4	21.0	35.3	30.8	35.7	51.9	31.7	43.0	28.4	34.1
Black Duck	1.7	2.8	1.0	1.3	2.2	2.4	4.8	3.8	7.6	2.1	3.0
Gadwall	23.4	12.5	16.7	16.4	23.2	20.4	13.8	16.8	12.7	17.7	17.4
Baldpate	2.3	2.1	3.1	2.0	2.5	3.1	0.9	6.6	3.7	4.5	3.1
GW Teal	15.8	15.8	9.0	5.1	8.4	7.4	6.6	3.9	5.2	8.9	8.6
Pintail	1.2	2.7	5.3	1.9	1.5	3.5	1.7	3.2	0.8	1.3	2.3
Canvasback	0.2	0.5	0.3	0.1	0.8	0.1	0.0	0.0	0.0	0.1	0.2
Scaup	3.6	2.8	3.8	1.2	1.4	0.7	1.1	4.2	0.5	1.5	2.1
Ringneck	6.9	10.4	15.1	13.4	6.9	9.5	5.3	15.6	3.0	9.2	9.5
Wood Duck	7.7	4.6	13.5	15.8	11.6	9.1	5.9	6.5	15.5	11.3	10.2
Goldeneye	1.2	1.1	1.5	1.4	1.9	1.0	1.1	0.9	2.1	3.0	1.5
Bufflehead	3.2	1.4	1.5	1.0	3.6	0.9	1.2	2.0	2.3	3.9	2.1
Merganser	1.5	2.3	2.0	1.8	1.6	2.2	1.8	3.1	2.6	3.5	2.2
BW Teal	0.4	0.1	1.3	0.4	0.6	0.3	0.0	0.0	0.0	0.0	0.3
Shoveler	5.5	3.8	4.3	2.2	2.2	3.4	3.9	1.7	8.0	4.1	3.2
Ruddy Duck	0.6	0.2	0.7	0.9	0.2	0.1	0.0	0.0	0.0	0.5	0.3
Redhead	0.5	0.4	0.6	0.5	0.2	0.2	0.0	0.0	0.1	0.0	0.3
Mottled Duck	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oldsquaw	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 8. Percentage of Ducks by Species in the Alabama Hunter Bag Checks Conducted During the Decade of the 1980's on the Tennessee River.

Season	89-90	88-89	87-88	86-87	85-86	84-85	83-84	82-83	81-82	80-81	10 Yr. Avg
Mallard	32.7	40.8	23.4	41.1	28.7	41.7	64.5	44.4	32.0	34.3	38.4
Black Duck	4.6	4.1	2.0	2.7	4.4	3.8	5.6	4.7	2.0	4.6	3.9
Gadwall	10.1	3.9	7.2	2.8	4.6	4.0	4.4	5.9	4.1	7.9	5.5
Baldpate	5.0	3.0	5.9	3.4	7.4	9.0	7.5	4.5	6.5	9.3	6.2
GW Teal	5.3	15.8	22.8	18.2	13.1	2.5	3.4	2.5	3.9	4.8	9.2
Pintail	2.1	4.0	5.8	1.5	5.8	2.3	1.8	2.5	5.1	8.5	3.9
Canvasback	0.0	0.8	0.4	0.1	0.7	1.3	0.7	0.7	1.1	1.6	0.7
Scaup	4.8	5.6	4.1	3.1	5.6	3.1	1.3	3.7	1.3	0.6	3.3
Ringneck	10.1	8.1	12	14.4	16.4	19.4	5.5	7.8	17.9	13.2	12.5
Wood Duck	9.8	1.3	2.4	2.9	5.6	8.3	1.6	17.3	17.9	9.5	7.7
Goldeneye	3.5	2.5	2.4	1.2	1.5	1.1	0.5	1.9	2.3	0.9	1.8
Bufflehead	1.0	3.2	1.3	2.8	1.3	0.6	0.1	0.5	3.5	2.7	1.7
Merganser	0.7	3.3	4.7	3.0	0.9	0.6	0.4	0.8	1.4	0.5	1.6
BW Teal	0.0	0.1	0.4	1.8	0.4	0.5	0.1	0.1	0.3	0.0	0.4
Shoveler	9.5	2.7	4.2	0.3	2.3	0.9	1.8	1.8	0.5	1.1	2.5
Ruddy Duck	0.6	0.7	0.7	0.3	0.7	0.5	0.1	0.1	0.0	0.2	0.4
Redhead	0.2	0.0	0.1	0.6	0.7	0.3	0.8	0.8	0.1	0.2	0.4
Mottled Duck	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oldsquaw	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0

Table 9. Percentage of Ducks by Species in the Alabama Hunter Bag Checks Conducted During the Decade of the 2010's in the Mobile Bay and Delta.

Season	19-20	18-19	17-18	16-17	15-16	14-15	13-14	12-13	11-12	10-11	2 Yr. Avg
# hunters									297	205	251
checked											
# ducks									632	307	470
checked											
Mallard									0.5	2.0	1.3
Black Duck									0.0	0.0	0.0
Gadwall									29.4	40.2	34.8
Widgeon									1.9	0.0	0.9
GW Teal									12.7	2.6	7.7
Pintail									0.3	0.0	0.2
Canvasback									0.3	0.0	0.2
Scaup									6.3	13.1	9.7
Ringneck									0.3	0.9	0.6
Wood Duck									2.1	33.6	17.9
Goldeneye									0.0	2.0	1.0
Bufflehead									7.9	0.0	3.9
Merganser									0.6	1.3	0.9
BW Teal									0.9	0.3	0.6
Shoveler									19.5	2.0	10.8
Ruddy Duck									2.7	0.0	1.4
Redhead									13.9	0.0	6.9
Mottled Duck									0.6	2.0	1.3
Oldsquaw									0.0	0.0	0.0

Table 10. Percentage of Ducks by Species in the Alabama Hunter Bag Checks Conducted During the Decade of the 2000's in the Mobile Bay and Delta.

Season	09-10	08-09	07-08	06-07	05-06	04-05	03-04	02-03	01-02	00-01	10 Yr. Avg
# hunters	211	239	153	289	387	348	300	408	368	178	325
checked											
# ducks	338	331	252	260	741	344	415	402	676	243	440
checked											
Mallard	1.0	0.3	1.0	0.7	0.6	0.3	1.0	2.4	0.3	5.9	1.5
Black Duck	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gadwall	52.8	50.8	43.5	48.5	62.1	59.2	37.8	36.2	49.9	21.8	44.9
Baldpate	3.1	3.1	3.0	1.2	0.9	0.6	2.7	0.5	0.9	3.7	1.7
GW Teal	3.7	3.7	10.3	20.0	14.9	3.2	11.8	13.7	10.1	30.5	14.3
Pintail	0.0	0.0	0.0	0.3	1.5	0.0	0.0	0.0	1.9	1.6	0.7
Canvasback	0.0	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.8	0.2
Scaup	12.5	13.3	10.3	6.2	5.0	6.4	5.8	25.3	18.0	8.2	10.7
Ringneck	0.0	0.3	4.0	0.7	3.1	5.2	6.3	3.0	4.6	6.6	4.2
Wood Duck	7.3	7.3	8.6	4.2	2.6	11.9	17.3	3.2	1.8	8.6	7.3
Goldeneye	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bufflehead	2.4	3.1	4.7	0.0	0.7	4.1	2.4	5.2	6.2	4.1	3.4
Merganser	2.3	2.3	0.8	0.7	0.3	0.3	0.7	0.2	0.3	0.0	0.4
BW Teal	8.8	8.8	1.7	2.7	0.7	1.5	1.9	0.0	1.8	2.5	1.6
Shoveler	5.9	5.9	1.3	4.2	4.9	3.5	5.1	2.7	0.7	2.0	3.1
Ruddy Duck	0.0	0.0	0.0	0.0	0.3	0.9	0.5	1.2	0.6	0.4	0.6
Redhead	0.0	0.3	8.2	6.9	0.9	0.6	5.3	0.5	2.2	0.4	3.1
Mottled Duck	0.2	0.1	2.2	3.0	1.5	2.3	1.4	5.9	0.7	2.9	2.5
Oldsquaw	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 11. Percentage of Ducks by Species in the Alabama Hunter Bag Checks Conducted During the Decade of the 1990's in the Mobile Bay and Delta.

Season	99-00	98-99	97-98	96-97	95-96	94-95	93-94	92-93	91-92	90-91	10 Yr. Avg
# hunters	287	201	213		70.70	, , , , ,	70.7	7 - 7 -	, , , , ,	, , , ,	
checked											
# ducks	565	413	411								
checked											
Mallard	3.6	0.5	0.7	3.6	5.2	5.0	7.8	3.9	6.1	10.0	4.6
Black Duck	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.4	3.9	0.5
Gadwall	35.5	19.9	4.6	8.1	6.0	4.6	2.3	4.8	2.4	2.2	9.0
Baldpate	4.1	3.7	1.9	1.1	1.8	7.4	2.0	3.3	0.8	3.1	2.9
GW Teal	28.4	48.2	25.0	15.5	35.0	32.2	34.6	32.7	32.7	27.9	31.2
Pintail	1.6	1.0	1.2	1.3	3.4	2.0	3.8	1.5	2.9	5.2	2.4
Canvasback	1.5	1.7	1.2	1.7	1.1	0.0	0.0	0.0	0.0	0.4	0.8
Scaup	7.5	9.7	17.0	25	4.3	5.8	4.9	19.8	5.7	3.1	10.3
Ringneck	2.3	2.9	14.0	9.2	7.6	7.0	2.6	1.8	8.2	11.8	6.7
Wood Duck	1.8	0.5	1.0	1.4	0.0	3.3	0.0	0.0	0.4	1.3	1.0
Goldeneye	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bufflehead	4.1	2.7	1.4	1.6	1.5	0.0	0.8	3.0	0.0	0.0	1.4
Merganser	1.8	0.5	0.7	0.9	0.2	0.8	1.1	0.6	0.0	0.0	0.7
BW Teal	0.6	3.7	15.0	16.1	11.5	17.0	13.8	17.2	22.0	23.1	14.0
Shoveler	3.8	1.7	10.0	5.2	14.4	2.9	10.5	6.9	9.0	3.5	6.8
Ruddy Duck	1.6	0.3	0.2	1.2	1.1	2.9	2.0	0.0	0.8	2.2	1.2
Redhead	0.7	2.5	1.0	2.6	2.4	3.3	1.7	0.0	0.4	2.2	1.7
Mottled Duck	1.1	1.0	2.9	6.1	4.5	5.8	11.9	4.5	8.2	0.0	4.6
Oldsquaw	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 12. Percentage of Ducks by Species in the Alabama Hunter Bag Checks Conducted During the Decade of the 1980's in the Mobile Bay and Delta.

Season	89-90	88-89	87-88	86-87	85-86	84-85	83-84	82-83	81-82	80-81	10 Yr. Avg
Mallard	6.1	14.5	11.8	0.8	0.0	0.9	3.8	8.4	5.1	3.0	5.4
Black Duck	1.7	2.4	0.4	2.7	1.6	0.6	0.3	0.0	0.3	0.0	1.0
Gadwall	5.8	20.8	13.2	15.6	1.6	1.9	6.2	8.1	3.5	14.6	9.1
Baldpate	4.7	6.8	3.2	3.1	0.0	0.3	3.5	4.1	2.7	12.9	4.1
GW Teal	35.3	29.5	29.3	7.0	1.6	20.1	33.2	38.2	41.7	24.6	26.1
Pintail	6.1	3.4	2.0	1.6	0.0	1.3	2.2	2.5	2.9	3.9	2.6
Canvasback	0.0	0.0	0.0	0.1	0.0	0.3	2.5	0.7	0.2	0.0	0.4
Scaup	3.1	5.8	6.9	14.8	88.5	27.9	4.4	0.0	25.3	3.0	18.0
Ringneck	4.2	2.9	5.1	9.4	0.0	3.8	4.9	1.0	1.4	4.5	3.7
Wood Duck	0.6	3.9	1.4	0.0	0.0	8.3	.5	0.3	1.1	3.7	2.0
Goldeneye	0.6	2.5	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.3
Bufflehead	0.6	1.0	1.6	7.8	0.0	0.6	0.3	0.5	0.6	0.0	1.3
Merganser	1.1	2.4	1.0	1.6	0.0	0.6	1.4	0.0	0.3	0.0	.8
BW Teal	24.4	4.8	7.5	9.4	1.6	30.1	17.4	13.5	6.7	7.7	12.3
Shoveler	2.2	1.4	11.4	7.0	0.0	5.3	9.0	5.7	3.0	7.9	5.3
Ruddy Duck	1.9	0.5	0.8	10.2	1.6	4.4	8.5	2.7	4.3	13.9	4.9
Redhead	1.1	0.0	3.5	11.7	3.3	1.6	1.9	0.5	0.8	0.7	2.5
Mottled Duck	0.6	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Oldsquaw	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

One coot was taken in the Mobile Delta for each 4 hunting trips. The Tennessee Valley averaged only one coot taken for each 83 hunting trips. The coot is not a desirable species for most hunters in Alabama.

The Gulf Coast of Alabama traditionally receives only sparse and sporadic use by geese; this year only 2 geese were reported harvested.

The goose population of the Tennessee Valley contains two distinct segments, resident Canada geese and migrant Canada geese from the Southern James Bay area of Canada. In recent years the resident geese have expanded their numbers to the point of becoming a nuisance in some areas. Alabama has incorporated an early season to improve management of resident geese. This allows hunters more opportunity in the field and the harvest can serve act as a tool to contain a goose population explosion. The 2011-2012 Special Goose Season was 15 days beginning on September 1st and ending September 15th. Success during this season continues to depend on local giant Canada geese populations and increasing hunter participation. Bag checks reflected harvest success estimates during this special season to be 2.7 geese harvested per hunter trip; however, these data are biased considering only a handful of private properties were included in the data set. No Canada geese were reported during the first split of regular Canada goose season, September 24th – October 5th, outside the Southern James Bay Population zone. The 2nd split of the Canada goose season ran from December 3rd through January 29th and resulted in 1 Canada goose recorded in the harvest checks. Goose harvest during the regular season decreased as compared to the 2010-11 season. In recent years, migrant Canada goose numbers, most of which winter at Wheeler NWR, were at levels well below historical averages. The small, but presently stable, group of Snow geese that winter in Alabama congregates at Wheeler Refuge where there is no open season. Most goose hunting opportunity is presently in the form of hunting resident Canada geese, which by their nature are harvested more frequently during special seasons or early segments of the regular seasons. These seasons are currently growing slowly in popularity and are providing the most substantial portion of the goose harvest in Alabama. Since these seasons were implemented early in the population growth stage of resident Canada geese in the state, the harvest is presently serving somewhat successfully as a control measure, yet remaining small by flyway standards. These "resident" season harvests are not normally subjected to the more drastic harvest swings sometimes associated with weather related migrations of "interiors". Therefore, harvest will not tend to vary as greatly from year to year. Harvest of geese in Alabama is expected to continue to track the growth and availability of resident goose harvest opportunity within the state. Table 13 is a comparison of hunter activity measured in the number of trips to harvest one Canada Goose at times outside and concurrent with the duck season.

Table 13. Comparison of Number of Hunter Trips to Harvest One Canada Goose in Tennessee Valley.

Dates	Geese/Trip
9/1/11-9/15/11	2.7
9/24/11 -10/5/11	N/A
12/3/10-1/29/12	1 goose/ 622 trips

<u>Recommendations</u>: This project furnishes vital data that is used in developing recommendation on waterfowl season and bag limits for next year. It is recommended that this project continue.

Job I-C. Title: Inventory of Wintering Waterfowl

<u>Job I-C. Objective</u>: To determine periods and variations of distribution or abundance of waterfowl on major waterfowl wintering areas within Alabama.

<u>Activity</u>: Two annual aerial waterfowl inventories were flown on the Tennessee River, Mobile Bay and Delta as in previous years. The first of the surveys is termed the pre-season inventory and the second is conducted in cooperation with the U.S. Fish and Wildlife Service's mid-winter inventory. The results for the complete Tennessee River and the Mobile Bay and Delta inventories are represented in the tables below. The pre-season and mid-winter inventories are compared to historical data in Tables 16 and 18 for the Tennessee River and 17 and 19 for the Mobile area.

The water level on the Tennessee River is presented as average number of feet above normal winter pool level. Normal winter pool represents 157,750 acres. The reservoir areas of the Tennessee River change with fluctuations in water elevation. These are presented in the Tables on page 9. The Mobile Bay and Delta survey covers about 57,600 acres and requires around two hours to survey. The Bay and Delta are tidally influenced; however, the water acreage varies very little under normal tidal conditions.

The 2011 pre-season surveys were up 39% in the Tennessee Valley (northern) region and up 169% in the Mobile Delta (southern) versus the 2010 survey. Goose numbers surveyed for both regions numbered 443, which was a decrease by 47% as compared to 2010.

The 2012 Mid-winter counts reflected an increase in ducks numbers by 5% in the Tennessee Valley and an increase of 61% in the Mobile Bay and Delta versus the 2011 survey. Compared to the 10 year averages, 2012 mid-winter duck survey numbers were +1% in the Tennessee Valley and +24% in the Delta. Mid-Winter goose numbers remained low (1,200) and reflect no significant change from 2011.

USFWS personnel reported that the Canada goose numbers continue to decline and only 466 geese were observed during the peak on February 7, 2012. This number is well below the 1,665 birds observed on January 2, 2011 and the historical average. Snow goose numbers peaked at 650 birds, fewer than in 2011, although the annual variation in snow goose numbers seems to correlate with population fluctuations. Greater white front geese numbers peaked on January 24, 2012 at 235 observed, which is more than the 80 observed in 2011. Duck numbers at Wheeler peaked at 51,000, which was an increase from 46,967 during the 2010-11 season.

Table 14. Data from Inventories of the Tennessee River, Mobile Bay and Delta for the 2011-2012 Hunting Seasons

Tennessee R	River	Winter Pool	= 157,750	acres	Summer Po	ool = 196,900 acres		
		Water	Ducks	% Change from	Geese	% Change from	Coots	% Change from
Date	Temperature	Level	Seen	Previous Flight	Seen	Previous Flight	Seen	Previous Flight
11/20/11	62	0.4	32,030	+39%	433	-49.4%	52,223	-18%
01/04/12	45	0.4	76,505	+5%	1,163	-69%	38,610	-16%
Mobile Bay	and Delta	Winter Pool = 57,600 acres			Summer Pool = 57,600 acres			
		Water	Ducks	% Change from	Geese	% Change from	Coots	% Change from
Date	Temperature	Level	Seen	Previous Flight	Seen	Previous Flight	Seen	Previous Flight
11/21/11	N/A	normal	3,047	+169%	10	N/A (0 last)	10,875	+247%
01/03/12	N/A	normal	2,757	+61%	37	+363%	4,607	+36%

The Tennessee River inventory is composed of four segments which correspond to the four reservoirs located within the state. The area of Wheeler Reservoir east of U.S. highway 31 which encompasses approximately 21,000 acres is in the inventory but is not included in the area of the reservoir in Table 15.

Table 15. Data from Inventories of the 4 Reservoirs Comprising the Alabama portion of the Tennessee River during the 2011-2012 Hunting Season.

	Reservoir						
Winter Pool =	593.0 MSL 62,	000 acres	Summer Po	ol = 595.0 MSL	66,000 acres		
	Approximate		Approximate	Approximate			
	Survey	Air	Reservoir	Reservoir	Number of	Number of	Number of
Date	Time	Temp.	Elevation	Acres	Ducks	Geese	Coots
11/20/11	120 min.	62	593.57	64,908	28,481	160	49,335
01/04/12	120 min.	45	593.54	64,821	23,745	297	32,065
Wheeler Rese	rvoir						
Winter Pool =	550.0 MSL 45,4	50 acres	Summer Poo	ol = 556.0 MSL	57,070 acres		
	Approximate		Approximate	Approximate			
	Survey	Air	Reservoir	Reservoir	Number of	Number of	Number
Date	Time	Temp.	Elevation	Acres	Ducks	Geese	Coots
11/20/11	45 min.	60	551.40	50,461*	2,943	8	1,755
01/04/12	45 min.	42	551.70	51,535*	334	2	475
*Note: The ac	reage shown is for	the entire reser	voir, the inventory		0 acres less.		
*Note: The ac		the entire reser	voir, the inventory		0 acres less.		
	voir	the entire reser		area is about 21,00	0 acres less. 5,600 acres		
Wilson Reserv	voir			area is about 21,00			
Wilson Reserv	v oir 504.7 MSL 15,0		Summer Poo	area is about 21,00 l = 507.7 MSL 1		Number of	Number
Wilson Reserv	voir 504.7 MSL 15,0 Approximate	000 acres	Summer Pool Approximate	area is about 21,00 1 = 507.7 MSL 1 Approximate	5,600 acres	Number of Geese	Number Coots
Wilson Reserved	voir 504.7 MSL 15,0 Approximate Survey	000 acres	Summer Pool Approximate Reservoir	area is about 21,00 l = 507.7 MSL 1 Approximate Reservoir	5,600 acres Number of		
Wilson Reserved	voir 504.7 MSL 15,0 Approximate Survey	000 acres	Summer Pool Approximate Reservoir	area is about 21,00 l = 507.7 MSL 1 Approximate Reservoir	5,600 acres Number of		
Wilson Reservence Winter Pool =	yoir 504.7 MSL 15,0 Approximate Survey Time	000 acres Air Temp.	Summer Pool Approximate Reservoir Elevation	area is about 21,00 1 = 507.7 MSL 1 Approximate Reservoir Acres	5,600 acres Number of Ducks	Geese	Coots
Wilson Reserve Winter Pool = Date 11/20/11	yoir 504.7 MSL 15,0 Approximate Survey Time 30 min	O00 acres Air Temp.	Summer Pool Approximate Reservoir Elevation 506.8	area is about 21,00 1 = 507.7 MSL 1 Approximate Reservoir Acres 15,406	5,600 acres Number of Ducks	Geese 0	Coots 411
Wilson Reserve Winter Pool = Date 11/20/11	yoir 504.7 MSL 15,0 Approximate Survey Time 30 min 30 min	O00 acres Air Temp.	Summer Pool Approximate Reservoir Elevation 506.8	area is about 21,00 1 = 507.7 MSL 1 Approximate Reservoir Acres 15,406	5,600 acres Number of Ducks	Geese 0	Coots 411
Wilson Reserve Winter Pool = Date 11/20/11 01/04/12	yoir 504.7 MSL 15,0 Approximate Survey Time 30 min 30 min	O00 acres Air Temp.	Summer Pool Approximate Reservoir Elevation 506.8 505.40	area is about 21,00 1 = 507.7 MSL 1 Approximate Reservoir Acres 15,406	5,600 acres Number of Ducks	Geese 0	Coots 411
Wilson Reservements Winter Pool = Date 11/20/11 01/04/12 Pickwick Reservements	yoir 504.7 MSL 15,0 Approximate Survey Time 30 min 30 min	000 acres Air Temp. 60 42	Summer Pool Approximate Reservoir Elevation 506.8 505.40	area is about 21,00 1 = 507.7 MSL 1 Approximate Reservoir Acres 15,406 15,159	Number of Ducks 69 99	Geese 0	Coots 411
Wilson Reservements Winter Pool = Date 11/20/11 01/04/12 Pickwick Reservements	yoir 504.7 MSL 15,0 Approximate Survey Time 30 min 30 min 408.0 MSL 37,0	000 acres Air Temp. 60 42	Summer Pool Approximate Reservoir Elevation 506.8 505.40 Summer Pool	area is about 21,00 1 = 507.7 MSL 1 Approximate Reservoir Acres 15,406 15,159 ool = 414.0 MSL	Number of Ducks 69 99	Geese 0	Coots 411
Wilson Reserve Winter Pool = Date 11/20/11 01/04/12 Pickwick Reserve	yoir 504.7 MSL 15,0 Approximate Survey Time 30 min 30 min 408.0 MSL 37,0 Approximate	000 acres Air Temp. 60 42 000 acres	Summer Pool Approximate Reservoir Elevation 506.8 505.40 Summer Pool Approximate	area is about 21,00 1 = 507.7 MSL 1 Approximate Reservoir Acres 15,406 15,159 ool = 414.0 MSL Approximate	5,600 acres Number of Ducks 69 99 42,700 acres	Geese 0 0	Coots 411 925
Wilson Reserve Winter Pool = Date 11/20/11 01/04/12 Pickwick Reserve Winter Pool =	yoir 504.7 MSL 15,0 Approximate Survey Time 30 min 30 min ervoir 408.0 MSL 37,0 Approximate Survey	000 acres Air Temp. 60 42 000 acres Air	Summer Pool Approximate Reservoir Elevation 506.8 505.40 Summer Pool Approximate Reservoir	area is about 21,00 1 = 507.7 MSL 1 Approximate Reservoir Acres 15,406 15,159 ool = 414.0 MSL Approximate Reservoir	5,600 acres Number of Ducks 69 99 42,700 acres Number of	Geese 0 0 Number of	Coots 411 925 Number
Wilson Reserve Winter Pool = Date 11/20/11 01/04/12 Pickwick Reserve Winter Pool =	yoir 504.7 MSL 15,0 Approximate Survey Time 30 min 30 min ervoir 408.0 MSL 37,0 Approximate Survey	000 acres Air Temp. 60 42 000 acres Air	Summer Pool Approximate Reservoir Elevation 506.8 505.40 Summer Pool Approximate Reservoir	area is about 21,00 1 = 507.7 MSL 1 Approximate Reservoir Acres 15,406 15,159 ool = 414.0 MSL Approximate Reservoir	5,600 acres Number of Ducks 69 99 42,700 acres Number of	Geese 0 0 Number of	Coots 411 925 Number

Table 16. Historical Data from Alabama Pre-season Inventories of the Tennessee River.

Decade of th	e 2010's						
Date	Season	# of Ducks	% Change from Previous Season	# of Geese	% Change from Previous Season	# of Coots	% Change from Previous Season
11/20/11	2011-12	32,030	39%	433	-49%	52,223	23%
11/22/10	2010-11	23,020	-38%	855	45%	42,425	-16%
Low Value for		23,020	3070	433	1370	42425	1070
High Value f		32,030		855		52,223	
Average for 2		27,525		644		47,324	
		21,323		044		77,327	
Decade of th	ie 2000'S	# of	% Change from	# of	% Change from	# of	% Change from
Date	Season	Ducks	% Change from Previous Season	Geese	Previous Season	Coots	% Change from Previous Season
11/23/09	2009-10	37,422	.04%	588	99%	76,260	11%
11/25/08	2008-09	37,250	-24%	296	-60%	68,588	-29%
11/20/07	2007-08	48,744	275%	748	279%	96,728	252%
11/21/06	2006-07	17,722	-47%	268	-70%	38,259	70%
11/22/05	2005-06	33,681	261%	910	139%	22,445	-16%
11/20/04	2004-05	9,316	-59%	380	-28%	26,718	-47%
11/23/03	2003-04	22,546	-11%	529	-12%	50,002	4%
11/22/02	2002-03	25,212	7%	600	20%	48,088	-23%
11/18/01	2001-02	23,545	-26%	502	-50%	62,116	83%
12/05/00	2000-01	31,786	47%	1,003	-3%	33,919	-2%
Low Value for	or Decade	9,316		380		22,445	
High Value f	or Decade	48,744		1,003		96,728	
Average for 2		23,401		599		40,221	
Decade of th						,	
Decaue of th	1770 8	# of	% Change from	# of	% Change from	# of	% Change from
Date	Season	Ducks	Previous Season	Geese	Previous Season	Coots	Previous Season
12/07/99	99-00	21,636	-26%	1,036	-4%	34,738	-18%
12/08/98	98-99	29,126	5%	1,075	5%	42,196	3%
11/17/97	97-98	27,853	3%	1,025	66%	40,809	29%
11/29/96	96-97	27,011	-20%	619	-32%	31,740	41%
11/29/95	95-96	33,681	77%	910	22%	22,445	33%
12/02/94	94-95	19,041	-54%	745	-44%	16,886	-36%
12/16/93	93-94	41,678	12%	1,331	37%	26,328	-29%
12/14/92	92-93	37,330	26%	975	-29%	37,120	36%
	91-92	29,634	75%	1,370	116%	27,330	13%
	90-91	16,904	7%	633	1%	24,235	27%
Low Value for		16,904		745		16,886	
High Value f		41,678		1,370		42,196	
Average for		28,389		972		30,383	
Tiverage 101	1770 8	20,303		214		20,263	

Table 16 continued.

		# of	% Change from	# of	% Change from	# of	% Change from	
Date	Season	Ducks	Previous Season	Geese	Previous Season	Coots	Previous Season	
12/05/89	89-90	15,859	-30%	628	-65%	19080	-2%	
	88-89	22,776	-10%	1781	134%	19494	-17%	
12/03/87	87-88	25,397	23%	762		23594	-4%	
	86-87	20,700	31%		-100%	24500	25%	
12/03/85	85-86	15,836	-10%	1728	49%	19655	71%	
11/29/84	84-85	17,544	40%	1163	37%	11491	-32%	
11/29/83	83-84	12,500	51%	850	95%	16800	38%	
11/30/82	82-83	8,299	-38%	435	-66%	12206	8%	
	81-82	13,406	-6%	1271	24%	11265	102%	
11/25/80	80-81	14,322		1028		5563		
Low Value for	or Decade	8,299		435		5,563		
High Value f	or Decade	25,397		1,781		24,500		
Average for 1	1980's	16,664		965		16,365		

Table 17. Historical Number of Waterfowl Seen During Pre-season Inventories of the Mobile Bay and Delta.

Decade of th			% Change from		% Change from		% Change from
Date	Season	Ducks	Previous Season	Geese	Previous Season	Coots	Previous Season
11/21/11	2011-12	3,047	169%	10	N/A	10,875	247%
11/23/10	2010-11	1,132	-7%	0	N/A	3,132	152%
Low Value f		1,132		0	0	3,132	
High Value f		3,047		0	10	10,875	
Average for Decade of the		2,090		0	5	7,004	
Decade of th	20008		% Change from		% Change from		% Change from
Date	Season	Ducks	Previous Season	Geese	Previous Season	Coots	Previous Season
11/23/09	2009-10	1,211	-48%	0		1,239	196%
11/24/08	2008-09	2,356	62%	0		418	-61%
11/19/07	2007-08	1,453	20%	0		1,065	42%
11/20/06	2006-07	1,166	-34%	0		1,850	83%
11/21/05	2005-06	1,790	49%	0		1,007	-55%
11/22/04	2004-05	1,200	-58%	0		2,253	-40%
11/25/03	2003-04	2,889	19%	0		3,781	127%
11/24/02	2002-03	2,421	-40%	0		1,664	-51%
11/24/02	2002-03	4,054	-6%	0		3,390	-59%
		· ·					
12/04/00 Low Value f	2000-01	4,331 1,166	-64%	0		8,214 1,007	-76%
High Value f		4,331		0		8,214	
Average for		2,550		0		3,165	
Decade of the		2,330		U		3,103	
200000000			% Change from		% Change from		% Change from
Date	Season	Ducks	Previous Season	Geese	Previous Season	Coots	Previous Season
12/08/99	99-00	12,088	94%	0		34,152	349%
12/10/98	98-99	6,241	39%	0		7,613	-76%
11/10/97	97-98	4,485	53%	0		31,090	245%
11/12/96	96-97	2,931	54%	0		9,008	-5%
11/13/95	95-96	1,908	71%	0		9,446	48%
11/14/94	94-95	1,116	-33%	0		6,398	34%
11/17/93	93-94	1,654	-75%	0		4,779	-40%
11/17/92	92-93	6,498	32%	0		7,916	-55%
11/22/91	91-92	4,908	29%	0		17,572	314%
11/13/90	90-91	3,802	-2%	0		4,245	-19%
Low Value f	or Decade	1,116		0		4,245	
High Value f	for Decade	12,088		0		34,152	
Average for	1990s	4,563		0		13,222	

Table 17 continued.

Decade of th	e 1980s						
			% Change from		% Change from		% Change from
Date	Season	Ducks	Previous Season Geese		Previous Season	Coots	Previous Season
11/13/89	11/13/89 89-90		3,888 99%			5,215	63%
	88-89	1,955	-44%	0		3,200	-40%
	87-88	3,475	190%	0		5,295	-50%
	86-87	1,200	-54%	0		10,600	64%
	85-86	2,610	-65%	10		6,480	20%
	84-85	7,400	63%	0		5,420	-71%
	83-84	4,530	-42%	0		19,000	86%
	82-83	7,785	1%	6		10,200	-10%
	81-82	7,710	-10%	0		11,330	-54%
	80-81	8,560		0		24,475	
Low Value for	or Decade	1,200		0		3,200	
High Value f	or Decade	8,560		10		24,475	
Average for	1980s	4,911		2		10,122	

Table 18. Historical Number of Waterfowl Seen During Mid-winter Inventories of the Tennessee River.

Date	Season	Ducks	% Change from Previous Season	Geese	% Change from Previous Season	Coots	% Change from Previous Season
		1	Flevious Season		Fievious Season		Flevious Season
1/4/12	2011-12	76,505	5%	1,163	-69%	38,610	-16%
1/4/12	2011-12		33%		38%	45,872	68%
Low Value		72,800	33%	3,707	38%	45,872	08%
High Value Average for							
Decade of t		1	I	Ī	1	1	1
Date	Season	Ducks	% Change from	Geese	% Change from	Coots	% Change from
			Previous Season		Previous Season		Previous Season
1/5/10	2009-10	54,866	16.2%	2,677	15.8%	27,269	8.2%
1/6/09	2008-09	47,228	17.7%	2,312	600%	25,213	8.2%
1/7/08	2007-08	40,113	179%	329	-69%	95,307	600%
1/7/07	2006-07	14,384	-50%	1,075	33%	13,500	-69%
1/5/06	2005-06	29,016	25%	811	147%	43,893	11%
1/3/05	2004-05	23,282	-25%	328	21%	39,460	-16%
1/7/04	2003-04	31,035	8%	271	-37%	47,188	5%
1/7/03	2002-03	28,781	19%	427	-56%	44,992	59%
1/8/01	2001-02	24,277	-40%	975	-4%	28,327	-28%
1/3/01	2000-01	40,182	52%	1,020	12%	39,092	-3%
Low Value	for Decade	14,384		271		13,500	
High Value	for Decade	40,182		1,075		47,188	
Average for		27,280		701		36,636	
Decade of t	he 1990s		% Change from		% Change from		% Change from
Date	Season	Ducks	Previous Season	Geese	Previous Season	Coots	Previous Season
1/4/00	99-00	26,397	-30%	910	-17%	40,502	4%
1/05/99	98-99	37,670	24%	1,101	-32%	38,929	-3%
1/10/98	97-98	30,296	111%	1,608	50%	39,966	196%
1/7/97	96-97	14,384	-45%	1,075	-4%	13,500	-43%
	95-96	26,116	11%	1,123	20%	23,543	35%
	94-95	23,479	-29%	934	-18%	17,428	-44%
	93-94	33,078	11%	1,138	32%	31,023	-7%
	92-93	29,906	-14%	865	37%	33,275	3%
	91-92	34,777	85%	632	11%	32,280	21%
	90-91	18,823	34%	567	-75%	26,692	26%
Low Value	for Decade	14,384				13,500	
High Value	for Decade	37,670				40,502	
Average for	1000g	27,493		1		29,714	

Table 18 continued.

Decade of t	the 1980s						
			% Change from		% Change from		% Change from
Date	Season	Ducks	Previous Season	Geese	Previous Season	Coots	Previous Season
	89-90 14,088		-20%	2,274		21,155	-24%
	88-89	17,588	5%	1,336		27,763	6%
	87-88	16,818	11%	773		26,278	10%
	86-87	15,100	17%			23,800	158%
	85-86	12,925	34%	3,188		9,232	-25%
	84-85	9,620	-41%	822		12,385	13%
	83-84	16,200	19%	1,800		11,000	-26%
1/4/83	82-83	13,589	-39%	991		14,931	26%
1/5/82	81-82	22,159	-13%	1,053		11,887	-4%
	80-81	25,426		1,470		12,333	
Low Value	for Decade	9,620				9,232	
High Value	for Decade	25,426				27,773	
Average for	r 1980s	16,351				17,076	

Table 19. Number of Waterfowl Seen During Mid-winter Inventories of the Mobile Bay and Delta for the Past 32 Years.

			% Change from		% Change from		% Change from
Date	Season	Ducks	Previous Season	Geese	Previous Season	Coots	Previous Season
1/3/12	2011-12	2,757	61%	37	362%	4,607	36%
1/4/11	2010-11	1,710	-13%	8	100%	3,400	49%
Low Value for		1,710		8		3,400	
High Value f		2,757		37		4,607	
Average for		2,234		23		4,004	
Decade of the		1 ′	<u> </u>	I	<u> </u>	1 ′	
			% Change from		% Change from		% Change from
Date	Season	Ducks	Previous Season	Geese	Previous Season	Coots	Previous Season
1/05/10	2009-10	1,970	411%	4		2286	
1/06/09	2008-09	385	-312%	0		0	100/
1/08/08	2007-08	3,709	356%	0		2,286	-10%
1/9/07	2006-07	814	36%	0		2,532	325%
1/6/06	2005-06	599	-52%	0		596	-80%
1/4/05	2004-05	1,259	13%	0		3,017	10%
1/8/04	2003-04	1,118	98%	0		2,751	134%
1/8/03	2002-03	562	-80%	0		1,175	-65%
1/8/02	2001-02	2,779	-35%	0		3,390	0%
1/3/01	2000-01	4,331	-28%	0		3,395	-68%
Low Value for		562		0		596	
High Value f		4,331		0		3,395	
Average for : Decade of the		1637		0		2,408	
Date Decade of the	Season	Ducks	% Change from	Geese	% Change from	Coots	% Change from
Dute	Beason	Ducks	Previous Season	deese	Previous Season	Coots	Previous Season
1/05/00	99-00	6,046	-25%	0		10,657	-35%
1/07/99	98-99	8,017	167%	0		16,409	175%
1/08/98	97-98	3,000	-38%	0		5,969	-36%
1/09/97	96-97	4,832	-4%	8		9,372	8%
1/05/96	95-96	5,054	99%	0		8,718	-46%
	94-95	2,538	12%	9		16,018	131%
	93-94	2,262	35%	4		6,930	135%
	92-93	1,673	-63%	0		2,954	-36%
	91-92	4,496	-63%	0		4,631	-20%
	90-91	12,229	-18%	0		5,816	-12%
Low Value for		1,673		0		2,954	
High Value f	for Decade	12,229		9		16,409	

Table 19 continued.

Decade of th	Decade of the 1980s											
			% Chai	% Change from		% Chan	% Change from		% Change from			
Date	Season	Ducks	Previou	Previous Season		Previous Season		Coots	Previous Season			
	89-90	14,916	2:	2%	0			6,605	50%			
	88-89	12,258	20	19%	0			4,400	161%			
	87-88	3,972	5	5%	0			1,685	-65%			
	86-87	3,800	-5	5%	0			4,800	-61%			
	85-86	8,367	6	1%	85			12,365	56%			
	84-85	5,188	-4	4%	0			7,910	-36%			
	83-84	9,300	9	1%	0			12,300	19%			
	82-83	8,550	8	3%	0			10,325	-27%			
	81-82	7,895	-4	2%	0			14,200	-15%			
	80-81	13,500						16,700				
Low Value for	or Decade	3,800			0			1,685				
High Value f	for Decade	14,916			85			16,700				
Average for	1980s	8,775			9			9,129				

<u>Recommendations</u>: This project furnishes vital data that is used in developing recommendation on waterfowl season and bag limits for next year. It is recommended that this project continue.