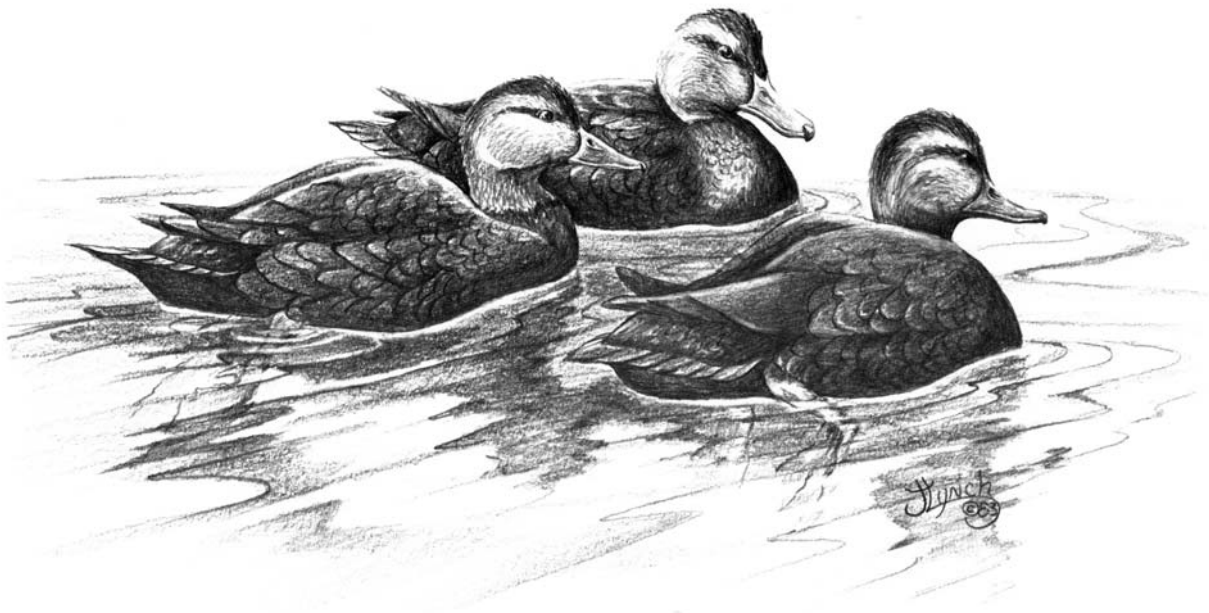


# **WILDLIFE TECHNICAL REPORT**

TENNESSEE  
WATERFOWL REPORT  
2005-06



**TENNESSEE WILDLIFE RESOURCES AGENCY**

**Technical Report No. 06-04**

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# **WATERFOWL TECHNICAL REPORT 2005-06**

**Tennessee Wildlife Resources Agency Technical Report No. 05-07**

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**TENNESSEE WATERFOWL REPORT 2005-06**  
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**TENNESSEE  
2005-06**

**WATERFOWL HABITAT AND HUNTING SEASON REPORT**

Prepared by Tim White, Waterfowl Program Coordinator, TN Wildlife Resources Agency  
February 10, 2006

**Season Dates and Regulations**

	<u>Statewide</u>	<u>Reelfoot</u>	
September Wood Duck/Teal	Sept. 10 - 14	Sept. 10 - 14	
Ducks, Mergansers & Coots	Nov. 26 - 27 Dec. 3 - Jan. 29	Nov. 12 - 13 Dec. 3 - Jan. 29	
Pintail, canvasback	Dec. 31 - Jan. 29	Dec. 31 - Jan. 29	
Youth Waterfowl Hunting Season	Feb. 4 - 5	Feb. 4 - 5	
Light Geese	Nov. 12 – Feb. 26		
White-fronted Geese	Dec. 3 – Feb. 12		
Brant	Nov. 26 - Jan. 30		
Canada Geese	<u>Zone</u>	<u>Quota</u>	<u>Bag Limit</u>
	Northwest MVP Zone	No quota	
	Sept. 1 - 15		5
	Dec. 3 - Feb. 12		2
	Southwest MVP Zone	No quota	
	Sept. 1 - 15		5
	Oct. 1-9		2
	Dec. 11- Jan. 29		2
	KY/Barkley Lakes Zone (SJBK)	No quota	
	Sept. 1 – 15		5
	Oct. 1 – 9		2
	Dec. 11 - Jan. 29		2
	Remainder of Tennessee	No quota	
	Sept. 1 – 15		5
	Oct. 1 – 9		2
	Dec. 1 - Jan. 30		2

**Habitat and Weather Conditions**

**Breeding Habitat and Production:** Most state lands and federal refuges had very good corn crops this year. Some rice-moist soil and Japanese millet-moist soil combinations were used this year and successfully held ducks. Conditions were dry through the summer with only limited flooding occurring in the fall. Nesting conditions were good for Canada geese and wood ducks.

**Waterfowl Population Estimates:** The spring Canada goose survey was conducted by helicopter from late March to mid-April. The Canada goose population was estimated to be 45,880 (95% CL +/-10,707). The 2005 survey estimated the population to be 72,105 (95% CL +/- 22,855).

**Fall and Winter Habitat:** Tennessee had an extremely dry late waterfowl season. Little rain fell until the last week of the season. None of the major rivers in West Tennessee were flooded until the last week of the season. Permanent habitat, river sloughs, beaver ponds, lakes and rivers, as well as pumped impoundments and refuges held the majority of ducks. The State owned and managed lands had ample water from pumping. Water conditions in middle and East Tennessee were also dry.

Our state also experienced seasonable temperatures. In early December temperatures dropped into the teens for about a week and many shallow water areas froze for approximately 4 days. Temperatures turned mild in late December and remained mild throughout the rest of the season. Tennessee had the warmest January on record.

### **Waterfowl Migrations**

In November, mallards and gadwall inventories began to build in West Tennessee. An early December cold snap pushed large numbers of waterfowl into Tennessee. The Tennessee Midwinter inventory was the largest ever recorded at 792,506, a 100% increase from 2005. Goose numbers were 29,288 which was a 72% increase from 2005 but was still 35% below the last 10-year average. Snow geese were up 323% and white-front geese were up 70% from the previous year. Sandhill cranes numbered 14,158, which was a 57% increase from 2005 and was 176% over the last ten-year average.

### **Hunting Season Overview**

Hunting was good throughout the state during early December, particularly in West Tennessee at Reelfoot, Kentucky Lake, the Forked Deer and Obion systems for those areas that had water. Many areas were dry and did not provide any hunting opportunities. As dry conditions persisted, hunting in East and Middle TN deteriorated as hunting pressure pushed ducks out of these areas. With limited water conditions, areas with water, either pumped or natural, had good hunting success.

The September and October Canada goose seasons in Middle and East Tennessee were reported to be good. As the season progressed into December and January, the goose hunting did not improve significantly. The September Wood duck and Teal season was reported to be fair.

### **Disease Events**

No significant disease events were noted.

### **Additional Comments**

- Hunter success during the 2005-06 season appear to be better than the past three seasons.
- The TWRA Commission allowed only one hen mallard in the bag for 2005-06.
- The TWRA Commission passed a resolution urging the Mississippi Flyway Council to study and the U.S. Fish and Wildlife Service to further study the biological, social, and ethical aspects of devices, electronic or motorized, used as attractants for migratory game bird hunting and consider appropriate regulatory changes on a Flyway basis.



(1) The basic duck bag limits may include no more than 1 canvasback daily, 3 in possession, and may not include sea ducks. In addition to the basic duck limits, sea duck limits of 10 daily, 20 in possession, singly or in the aggregate, including no more than 6 each of either harlequin or long-tailed ducks, are allowed. Special sea duck limits will be available to non-residents, but at lower daily limits than residents, and they may take no more than a possession limit of 20 per season, including no more than 4 each of harlequin and long-tailed ducks, black, surf, and white-winged scoters, and king and common eiders. Sea ducks include scoters, common and king eiders, harlequin ducks, long-tailed ducks, and common and red-breasted mergansers. The season for Steller's and spectacled eiders is closed statewide.

(2) Dark geese include Canada and white-fronted geese. Light geese include snow geese and Ross' geese. Separate limits apply to brant. The season for emperor geese is closed Statewide.

(3) In Units 5 and 6, the taking of Canada geese is only permitted from September 28 through December 16. In the Middleton Island portion of Unit 6, the taking of Canada geese is by special permit only, with a maximum of 10 permits and a daily bag and possession limit of 1. In Unit 9(D) and the Unimak Island portion of Unit 10, the limits for dark geese are 6 daily and 12 in possession. In Units 9(E) and 18, the limit for dark geese is 4 daily, including no more than 2 Canada geese. Canada goose season will be closed in Unit 8 (Kodiak).

(4) In Unit 9, the season for brant is September 17 through October 16.

(5) In Unit 17, the daily bag limit for sandhill cranes is 2 and the possession limit is 4.

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**Falconry:** The total combined bag and possession limit for migratory game birds taken with the use of a falcon under a falconry permit is 3 per day, 6 in possession, and may not exceed a more restrictive limit for any species listed in this subsection.

**Special Tundra Swan Season:** In Units 17, 18, 22, and 23, there will be a tundra swan season from September 1 through October 31 with a season limit of 3 tundra swans per hunter. This season is by registration permit only; hunters will be issued 1 permit allowing the take of up to 3 tundra swans. Hunters will be required to file a harvest report after the season is completed. Up to 500 permits may be issued in Unit 18, 300 permits each in Units 22 and 23, and 200 permits in Unit 17.

4. Section 20.103 is revised to read as follows:

**§20.103 Seasons, limits, and shooting hours for doves and pigeons.**

Subject to the applicable provisions of the preceding sections of this part, areas open to hunting, respective open seasons (dates inclusive), shooting and hawking hours, and daily bag and possession limits for the species designated in this section are prescribed as follows:

Shooting and hawking hours are one-half hour before sunrise until sunset except as otherwise noted. Area descriptions were published in the August 1, 2005, Federal Register (70 FR 44200).

CHECK STATE REGULATIONS FOR AREA DESCRIPTIONS AND ANY ADDITIONAL RESTRICTIONS.

(a) Doves

Note: Unless otherwise specified, the seasons listed below are for mourning doves only.

	Season Dates	Bag	Limits Possession
<u>EASTERN MANAGEMENT UNIT</u>			
<u>Alabama</u>			
North Zone			
12 noon to sunset	Sept. 10 only	15	15
½ hour before sunrise			
to sunset	Sept. 11-Oct. 1 & Oct. 29-Nov. 19 & Dec. 17-Jan. 1	15 15 15	15 15 15
South Zone			
12 noon to sunset	Oct. 8 only	12	12
½ hour before sunrise			
to sunset	Oct. 9-Nov. 6 & Nov. 24-Nov. 27 & Dec. 10-Jan. 14	12 12 12	12 12 12
<u>Delaware</u>			
12 noon to sunset	Sept. 1-Sept. 30	12	24
½ hour before sunrise			
to sunset	Dec. 6-Jan. 14	12	24
<u>Florida (1)</u>			
12 noon to sunset	Oct. 1-Oct. 24	12	24
½ hour before sunrise			
to sunset	Nov. 12-Nov. 27 & Dec. 10-Jan. 8	12 12	24 24
<u>Georgia</u>			
12 noon to sunset	Sept. 3 & Oct. 1	12	24
½ hour before sunrise			
to sunset	Sept. 4-Sept. 17 & Oct. 2-Oct. 10 & Nov. 24-Jan. 7	12 12 12	24 24 24
<u>Illinois</u>			
sunrise to sunset	Sept. 1-Oct. 21 & Nov. 5-Nov. 13	15 15	30 30
<u>Indiana</u>			
	Sept. 1-Oct. 16 & Nov. 4-Nov. 17	15 15	30 30
<u>Kentucky</u>			
11 a.m. to sunset	Sept. 1 only	15	30
½ hour before sunrise			
to sunset	Sept. 2-Oct. 24 & Nov. 24-Nov. 29	15 15	30 30
<u>Louisiana</u>			
12 noon to sunset	Sept. 3-Sept. 4 & Oct. 8-Oct. 9 & Dec. 17-Dec. 18	12 12 12	24 24 24

	Season Dates	Bag	Limits Possession
<u>Louisiana (cont.)</u>			
½ hour before sunrise to sunset	Sept. 5-Sept. 11 & Oct. 10-Nov. 13 & Dec. 19-Jan. 9	12 12 12	24 24 24
<u>Maryland</u>			
12 noon to sunset	Sept. 1-Oct. 15	12	24
½ hour before sunrise to sunset	Nov. 11-Nov. 19 & Dec. 24-Jan. 7	12 12	24 24
<u>Michigan</u>			
CLOSED			
<u>Mississippi</u>			
North Zone	Sept. 3-Sept. 24 & Oct. 8-Oct. 29 & Dec. 31-Jan. 15	15 15 15	30 30 30
South Zone	Sept. 24-Oct. 15 & Nov. 12-Dec. 3 & Dec. 24-Jan. 8	15 15 15	30 30 30
<u>North Carolina</u>			
12 noon to sunset	Sept. 3-Sept. 10	12	24
½ hour before sunrise to sunset	Sept. 11-Oct. 8 & Nov. 21-Nov. 26 & Dec. 19-Jan. 14	12 12 12	24 24 24
<u>Ohio</u>			
	Sept. 1-Oct. 16 & Nov. 13-Nov. 26	15 15	30 30
<u>Pennsylvania</u>			
12 noon to sunset	Sept. 1-Oct. 1 & Oct. 29-Nov. 26 & Dec. 26-Jan. 4	12 12 12	24 24 24
<u>Rhode Island</u>			
12 noon to sunset	Sept. 24-Oct. 10	12	24
½ hour before sunrise to sunset	Oct. 15-Nov. 20 & Dec. 28-Jan. 12	12 12	24 24
<u>South Carolina</u>			
12 noon to sunset	Sept. 3-Sept. 5	12	24
½ hour before sunrise to sunset	Sept. 6-Oct. 8 & Nov. 19-Nov. 26 & Dec. 21-Jan. 15	12 12 12	24 24 24

	Season Dates	Limits	
		Bag	Possession
<u>Tennessee</u>			
12 noon to sunset	Sept. 1 only	15	30
½ hour before sunrise to sunset	Sept. 2-Sept. 26 & Oct. 8-Oct. 23 & Dec. 17-Jan. 3	15 15 15	30 30 30
<u>Virginia</u>			
12 noon to sunset	Sept. 3-Sept. 24	12	24
½ hour before sunrise to sunset	Oct. 8-Nov. 5 & Dec. 27-Jan. 14	12 12	24 24
<u>West Virginia</u>			
12 noon to sunset	Sept. 1 only	12	24
½ hour before sunrise to sunset	Sept. 2-Oct. 8 & Oct. 24-Nov. 5 & Dec. 20-Jan. 7	12 12 12	24 24 24
<u>Wisconsin</u>			
	Sept. 1-Oct. 30	15	30
<u>CENTRAL MANAGEMENT UNIT</u>			
<u>Arkansas</u>			
	Sept. 3-Sept. 25 & Oct. 8-Oct. 23 & Dec. 19-Jan. 8	15 15 15	30 30 30
<u>Colorado (2)</u>			
	Sept. 1-Oct. 30	15	30
<u>Kansas (2)</u>			
	Sept. 1-Oct. 14 Nov. 1-Nov. 16	15 15	30 30
<u>Minnesota</u>			
	Sept. 1-Oct. 30	15	30
<u>Missouri (3)</u>			
	Sept. 1-Nov. 9	12	24
<u>Montana</u>			
	Sept. 1-Oct. 30	15	30
<u>Nebraska (2)</u>			
	Sept. 1-Oct. 30	15	30
<u>New Mexico (2)</u>			
North Zone	Sept. 1-Oct. 30	15	30
South Zone	Sept. 1-Sept. 30 & Dec. 1-Dec. 30	15 15	30 30

	Season Dates	Limits	
		Bag	Possession
<u>New Mexico</u> (1)			
North Zone	Sept. 1-Sept. 20	5	10
South Zone	Oct. 1-Oct. 20	5	10
<u>Oregon</u>	Sept. 15-Sept. 23	2	4
<u>Utah</u> (2)	Sept. 1-Sept. 30	5	10
<u>Washington</u>	Sept. 15-Sept. 23	2	4

(1) In New Mexico, each band-tailed pigeon hunter must have a band-tailed pigeon hunting permit issued by the State.

(2) In Utah, each band-tailed pigeon hunter must have either a band-tailed pigeon hunting permit or a special bird permit stamp issued by the respective State.

5. Section 20.104 is revised to read as follows:

**§20.104 Seasons, limits, and shooting hours for rails, woodcock, and common snipe.**

Subject to the applicable provisions of the preceding sections of this part, areas open to hunting, respective open seasons (dates inclusive), shooting and hawking hours, and daily bag and possession limits for the species designated in this section are prescribed as follows:

Shooting and hawking hours are one-half hour before sunrise until sunset except as otherwise noted. Area descriptions were published in the August 1, 2005, Federal Register (70 FR 44200).

CHECK STATE REGULATIONS FOR AREA DESCRIPTIONS AND ANY ADDITIONAL RESTRICTIONS.

Note: States with deferred seasons may select those seasons at the same time they select waterfowl seasons in August. Consult late-season regulations for further information.

	Sora and Virginia Rails	Clapper and King Rails	Woodcock	Common Snipe
Daily bag limit	25 (1)	15 (2)	3	8
Possession limit	25 (1)	30 (2)	6	16

ATLANTIC FLYWAY

<u>Connecticut</u> (3)	Sept. 1-Sept. 2 & Sept. 6-Nov. 5	Sept. 1-Sept. 2 & Sept. 6-Nov. 5	Oct. 22-Nov. 19	Oct. 22-Nov. 19
<u>Delaware</u>	Sept. 1-Nov. 9	Sept. 1-Nov. 9	Nov. 21-Dec. 10 & Dec. 22-Dec. 31	Nov. 21-Jan.31
<u>Florida</u>	Sept. 1-Nov. 9	Sept. 1-Nov. 9	Dec. 17-Jan. 15	Nov. 1-Feb. 15

	Sora and Virginia Rails	Clapper and King Rails	Woodcock	Common Snipe
<u>Georgia</u>	Sept. 17-Oct. 23 & Nov. 12-Dec. 14	Sept. 17-Oct. 23 & Nov. 12-Dec. 14	Dec. 17-Jan. 15	Nov. 15-Feb. 28
<u>Maine</u>	Sept. 1-Nov. 9	Closed	Deferred	Sept. 1-Dec. 16
<u>Maryland</u>	Sept. 1-Nov. 9	Sept. 1-Nov. 9	Nov. 4-Nov. 25 & Jan. 14-Jan. 21	Sept. 29-Nov. 25 & Dec. 12-Jan. 28
<u>Massachusetts</u> (4)	Sept. 1-Nov. 8	Closed	Deferred	Sept. 1-Dec. 15
<u>New Hampshire</u>	Closed	Closed	Oct. 1-Oct. 30	Sept. 15-Oct. 30
<u>New Jersey</u> (5)				
North Zone	Sept. 1-Nov. 8	Sept. 1-Nov. 8	Oct. 20-Nov. 12	Sept. 17-Dec. 31
South Zone	Sept. 1-Nov. 8	Sept. 1-Nov. 8	Nov. 12-Nov. 26 & Dec. 23-Dec. 31	Sept. 17-Dec. 31
<u>New York</u> (6)	Sept. 1-Nov. 9	Closed	Oct. 6-Nov. 4	Sept. 1-Nov. 9
<u>North Carolina</u>	Sept. 1-Sept. 3 & Sept. 5-Nov. 10	Sept. 1-Sept. 3 & Sept. 5-Nov. 10	Dec. 15-Dec. 24 & Dec. 26-Jan. 14	Nov. 14-Feb. 28
<u>Pennsylvania</u>	Sept. 1-Nov. 9	Closed	Oct. 15-Nov. 12	Oct. 15-Nov. 19
<u>Rhode Island</u> (7)	Sept. 3-Nov. 11	Sept. 3-Nov. 11	Oct. 27-Nov. 25	Sept. 3-Nov. 11
<u>South Carolina</u>	Sept. 17-Sept. 21 & Oct. 15-Dec. 18	Sept. 17-Sept. 21 & Oct. 15-Dec. 18	Jan. 2-Jan. 31	Nov. 14-Feb. 28
<u>Vermont</u>	Closed	Closed	Deferred	Deferred
<u>Virginia</u>	Sept. 12-Nov. 19	Sept. 12-Nov. 19	Nov. 12-Nov. 26 & Dec. 17-Dec. 31	Oct. 5-Oct. 10 & Oct. 24-Jan. 31
<u>West Virginia</u>	Sept. 1-Nov. 9	Closed	Oct. 21-Nov. 19	Sept. 1-Dec. 16
<u>MISSISSIPPI FLYWAY</u>				
<u>Alabama</u> (8)	Sept. 17-Sept. 25 & Nov. 21-Jan. 20	Sept. 17-Sept. 25 & Nov. 21-Jan. 20	Dec. 17-Jan. 30	Nov. 12-Feb. 26
<u>Arkansas</u>	Sept. 1-Nov. 9	Closed	Nov. 12-Dec. 26	Nov. 5-Feb. 19
<u>Illinois</u> (9)	Sept. 10-Nov. 18	Closed	Oct. 15-Nov. 28	Sept. 10-Dec. 25

	Sora and Virginia Rails	Clapper and King Rails	Woodcock	Common Snipe
<u>Indiana</u> (10)	Sept. 1-Nov. 9	Closed	Oct. 15-Nov. 28	Sept. 1-Dec. 16
<u>Iowa</u> (11)	Sept. 3-Nov. 11	Closed	Oct. 1-Nov. 14	Sept. 3-Nov. 27
<u>Kentucky</u>	Sept. 1-Nov. 9	Closed	Oct. 15-Nov. 28	Sept. 21-Nov. 6 & Nov. 24-Jan. 22
<u>Louisiana</u> (12)	Sept. 17-Sept. 25	Sept. 17-Sept. 25	Dec. 18-Jan. 31	Deferred
<u>Michigan</u> (13)	Sept. 15-Nov. 14	Closed	Sept. 24-Nov. 7	Sept. 15-Nov. 14
<u>Minnesota</u>	Sept. 1-Nov. 4	Closed	Sept. 24-Nov. 7	Sept. 1-Nov. 4
<u>Mississippi</u>	Oct. 8-Dec. 16	Oct. 8-Dec. 16	Dec. 17-Jan. 30	Nov. 12-Feb. 26
<u>Missouri</u>	Sept. 1-Nov. 9	Closed	Oct. 15-Nov. 28	Sept. 1-Dec. 16
<u>Ohio</u>	Sept. 1-Nov. 9	Closed	Oct. 14-Nov. 27	Sept. 1-Nov. 27 & Dec. 5-Dec. 23
<u>Tennessee</u>	Deferred	Closed	Oct. 29-Dec. 12	Nov. 15-Feb. 28
<u>Wisconsin</u>	Deferred	Closed	Sept. 24-Nov. 7	Deferred
<u>CENTRAL FLYWAY</u>				
<u>Colorado</u>	Sept. 1-Nov. 9	Closed	Closed	Sept. 1-Dec. 16
<u>Kansas</u>	Sept. 1-Nov. 9	Closed	Oct. 15-Nov. 28	Sept. 1-Dec. 16
<u>Montana</u>	Closed	Closed	Closed	Sept. 1-Dec. 16
<u>Nebraska</u> (14)	Sept. 1-Nov. 9	Closed	Sept. 24-Nov. 7	Sept. 1-Dec. 16
<u>New Mexico</u>	Sept. 17-Nov. 25	Closed	Closed	Oct. 8-Jan. 22
<u>North Dakota</u>	Closed	Closed	Sept. 24-Nov. 6	Sept. 17-Nov. 27
<u>Oklahoma</u>	Sept. 1-Nov. 9	Closed	Nov. 1-Dec. 15	Oct. 1-Jan. 15
<u>South Dakota</u> (15)	Closed	Closed	Closed	Sept. 1-Oct. 31
<u>Texas</u>	Sept. 10-Sept. 25 & Oct. 29-Dec. 21	Sept. 10-Sept. 25 & Oct. 29-Dec. 21	Dec. 18-Jan. 31	Oct. 29-Feb. 12
<u>Wyoming</u>	Sept. 1-Nov. 9	Closed	Closed	Sept. 1-Dec. 16

- (8) In Alabama, the rail limits are 15 daily and 15 in possession, singly or in the aggregate.
- (9) In Illinois, shooting hours are from sunrise to sunset.
- (10) In Indiana, the sora rail limits are 25 daily and 25 in possession. The season on Virginia rails is closed.
- (11) In Iowa, the limits for sora and Virginia rails are 12 daily and 24 in possession.
- (12) In Louisiana, additional days occurring after September 30 will be published with the late season selections.
- (13) In Michigan, the aggregate limits for sora and Virginia rails are 8 daily and 16 in possession.
- (14) In Nebraska, the rail limits are 10 daily and 20 in possession.
- (15) In South Dakota, the snipe limits are 5 daily and 15 in possession.

6. Section 20.105 is amended by revising paragraphs (a) through (f) to read as follows:

**§20.105 Seasons, limits, and shooting hours for waterfowl, coots, and gallinules.**

Subject to the applicable provisions of the preceding sections of this part, areas open to hunting, respective open seasons (dates inclusive), shooting and hawking hours, and daily bag and possession limits for the species designated in this section are prescribed as follows:

Shooting and hawking hours are one-half hour before sunrise until sunset, except as otherwise noted. Area descriptions were published in the August 1, 2005, Federal Register (70 FR 44200).

CHECK STATE REGULATIONS FOR AREA DESCRIPTIONS AND ANY ADDITIONAL RESTRICTIONS.

Note: States with deferred seasons may select those seasons at the same time they select waterfowl seasons in August. Consult late-seasons regulations for further information.

(a) Common Moorhens and Purple Gallinules

	Season Dates	Limits	
		Bag	Possession
<b><u>ATLANTIC FLYWAY</u></b>			
<u>Delaware</u>	Sept. 1-Nov. 9	15	30
<u>Florida</u> (1)	Sept. 1-Nov.9	15	30
<u>Georgia</u>	Deferred	--	--
<u>Maine</u>	Closed	--	--
<u>New Jersey</u>	Sept. 1-Nov. 8	10	20



	Season Dates	Limits	
		Bag	Possession
<u>New York</u>			
Long Island	Closed	--	--
Remainder of State	Sept. 1-Nov. 9	8	16
<u>North Carolina</u>			
	Sept. 1-Sept. 3 & Sept. 5-Nov. 10	15 15	30 30
<u>Pennsylvania</u>			
	Sept. 1-Nov. 9	15	30
<u>South Carolina</u>			
	Sept. 17-Sept. 21 & Oct. 15-Dec. 18	15 15	30 30
<u>Virginia</u>			
	Deferred	--	--
<u>West Virginia</u>			
	Deferred	--	--
<u>MISSISSIPPI FLYWAY</u>			
<u>Alabama</u>			
	Sept. 17-Sept. 25 & Nov. 21-Jan. 20	15 15	15 15
<u>Arkansas</u>			
	Sept. 1-Nov. 9	15	30
<u>Kentucky</u>			
	Sept. 1-Nov. 9	15	30
<u>Louisiana (2)</u>			
	Sept. 17-Sept. 25	15	30
<u>Michigan</u>			
	Deferred	--	--
<u>Minnesota</u>			
	Deferred	--	--
<u>Mississippi</u>			
	Oct. 8-Dec. 16	15	30
<u>Ohio</u>			
	Sept. 1-Nov. 9	15	30
<u>Tennessee</u>			
	Deferred	--	--
<u>Wisconsin</u>			
	Deferred	--	--
<u>CENTRAL FLYWAY</u>			
<u>New Mexico</u>			
Zone 1	Oct. 8-Dec. 16	1	2
Zone 2	Oct. 8-Dec. 16	1	2

	Season Dates	Limits	
		Bag	Possession
<u>Oklahoma</u>	Sept. 1-Nov. 9	15	30
<u>Texas</u>	Sept. 10-Sept. 25 & Oct. 29-Dec. 21	15 15	30 30
<u>Wyoming</u>	Deferred	--	-
<u>PACIFIC FLYWAY</u>			
All States	Deferred	--	-

(1) The season applies to common moorhens only.

(2) Additional days occurring after September 30 will be published with the late season selections.

(b) Sea Ducks (scoter, eider, and oldsquaw ducks in Atlantic Flyway).

Within the special sea duck areas, the daily bag limit is 7 scoter, eider, and oldsquaw ducks, singly or in the aggregate, of which no more than 4 may be scoters. Possession limits are twice the daily bag limit. These limits may be in addition to regular duck bag limits only during the regular duck season in the special sea duck hunting areas.

	Season Dates	Limits	
		Bag	Possession
<u>Connecticut</u> (1)	Sept. 21-Jan. 21	5	10
<u>Delaware</u>	Sept. 17-Jan. 19	7	14
<u>Georgia</u>	Deferred	--	--
<u>Maine</u>	Deferred	--	-
<u>Maryland</u>	Deferred	--	--
<u>Massachusetts</u>	Deferred	--	--
<u>New Hampshire</u> (2)	Oct. 1-Jan. 15	7	14
<u>New Jersey</u>	Sept. 17-Jan. 17	7	14
<u>New York</u>	Oct. 15-Jan. 29	7	14
<u>North Carolina</u>	Deferred	--	-
<u>Rhode Island</u>	Oct. 8-Jan. 22	7	14

	Season Dates	Limits	
		Bag	Possession
<u>South Carolina</u>	Deferred	--	--
<u>Virginia</u>	Deferred	--	--

NOTE: Notwithstanding the provisions of this Part 20, the shooting of crippled waterfowl from a motorboat under power will be permitted in Maine, Massachusetts, New Hampshire, Rhode Island, Connecticut, New York, Delaware, Virginia and Maryland in those areas described, delineated, and designated in their respective hunting regulations as special sea duck hunting areas.

- (1) In Connecticut, the daily bag limit may include no more than 4 scoters or 4 oldsquaws.
- (2) In New Hampshire, the daily bag limit may include no more than 4 scoters, 4 eiders, or 4 oldsquaws.
- (c) Early (September) Duck Seasons.

Note: Unless otherwise specified, the seasons listed below are for teal only.

	Season Dates	Limits	
		Bag	Possession
<u>ATLANTIC FLYWAY</u>			
<u>Delaware</u> (1)(2)	Sept. 17-Sept. 27	4	8
<u>Florida</u> (3)	Sept. 24-Sept. 28	4	8
<u>Georgia</u>	Sept. 17-Sept. 25	4	8
<u>Maryland</u> (1)	Sept. 15-Sept. 24	4	8
<u>North Carolina</u> (1)	Sept. 15-Sept. 24	4	8
<u>South Carolina</u> (4)	Sept. 16-Sept. 24	4	8
<u>Virginia</u> (1)	Sept. 15-Sept. 24	4	8
<u>MISSISSIPPI FLYWAY</u>			
<u>Alabama</u>	Sept. 17-Sept. 25	4	8
<u>Arkansas</u> (4)	Sept. 17-Sept. 25	4	8
<u>Illinois</u> (4)	Sept. 10-Sept. 18	4	8
<u>Indiana</u> (4)	Sept. 3-Sept. 11	4	8

	Season Dates	Limits	
		Bag	Possession
<u>Iowa</u> (5)			
North Zone	Sept. 17-Sept. 21	--	--
South Zone	Sept. 24-Sept. 28	--	--
<u>Kentucky</u> (3)	Sept. 21-Sept. 25	4	8
<u>Louisiana</u>	Sept. 17-Sept. 25	4	8
<u>Mississippi</u>	Sept. 17-Sept. 25	4	8
<u>Missouri</u> (4)	Sept. 10-Sept. 18	4	8
<u>Ohio</u> (4)	Sept. 3-Sept. 11	4	8
<u>Tennessee</u> (3)	Sept. 10-Sept. 14	4	8
<u>CENTRAL FLYWAY</u>			
<u>Colorado</u> (1)	Sept. 3-Sept. 11	4	8
<u>Kansas</u>			
Low Plains	Sept. 17-Sept. 25	4	8
High Plains	Sept. 17-Sept. 24	4	8
<u>Nebraska</u> (1)	Sept. 10-Sept. 18	4	8
<u>New Mexico</u>	Sept. 17-Sept. 25	4	8
<u>Oklahoma</u>			
Low Plains	Sept. 10-Sept. 18	4	8
High Plains	Sept. 10-Sept. 18	4	8
<u>Texas</u>	Sept. 17-Sept. 25	4	8

(1) Area restrictions. See State regulations.

(2) In Delaware, the shooting hours are from ½ hour before sunrise to 10:00 a.m.

(3) In Florida, Kentucky, and Tennessee, the daily bag limit is 4 wood ducks and teal in the aggregate, of which no more than 2 may be wood ducks. The possession limit is twice the daily bag limit.

(4) Shooting hours are from sunrise to sunset.

(5) In Iowa, the September season is part of the regular season, and limits will conform to those set for the regular season.

(d) Special Early Canada Goose Seasons.

	Season Dates	Limits	
		Bag	Possession
<u>ATLANTIC FLYWAY</u>			
<u>Connecticut</u>			
North Zone	Sept. 1-Sept. 2 & Sept. 6-Sept. 30	8	16
South Zone	Sept. 15-Sept. 30	8	16
<u>Delaware</u>			
	Sept. 1-Sept. 15	8	16
<u>Florida (1)</u>			
	Sept. 3-Sept. 28	5	10
<u>Georgia</u>			
	Sept. 3-Sept. 25	5	10
<u>Maine</u>			
	Sept. 6-Sept. 24	4	8
<u>Maryland</u>			
Eastern Unit	Sept. 1-Sept. 15	8	16
Western Unit	Sept. 1-Sept. 24	8	16
<u>Massachusetts</u>			
Central Zone	Sept. 6-Sept. 25	5	10
Coastal Zone	Sept. 6-Sept. 25	5	10
Western Zone	Sept. 6-Sept. 25	5	10
<u>New Hampshire</u>			
	Sept. 6-Sept. 25	5	10
<u>New Jersey</u>			
	Sept. 1-Sept. 30	8	16
<u>New York</u>			
Lake Champlain Zone	Sept. 6-Sept. 25	5	10
Northeastern Zone	Sept. 1-Sept. 25	8	16
Western Zone	Sept. 1-Sept. 25	8	16
Southeastern Zone	Sept. 1-Sept. 25	8	16
Long Island Zone (3)	Sept. 6-Sept. 30	8	16
<u>North Carolina (4)</u>			
	Sept. 1-Sept. 30	5	10
<u>Pennsylvania</u>			
Pymatuning Zone	Closed	--	--
Rest of State	Sept. 1-Sept. 24	8	16
<u>Rhode Island</u>			
	Sept. 1-Sept. 30	8	16
<u>South Carolina</u>			
Early-Season Hunt Unit	Sept. 9-Sept. 24	8	16

	Season Dates	Limits	
		Bag	Possession
<u>Vermont</u>			
Lake Champlain Zone (5)	Sept. 6-Sept. 25	5	10
Interior Vermont Zone (5)	Sept. 6-Sept. 25	5	10
Connecticut River Zone (6)	Sept. 6-Sept. 25	5	10
<u>Virginia</u>	Sept. 1-Sept. 24	5	10
<u>West Virginia</u>	Sept. 1-Sept. 17	5	10
<u>MISSISSIPPI FLYWAY</u>			
<u>Alabama</u>	Sept. 1-Sept. 15	5	10
<u>Illinois</u>			
Northeast Zone	Sept. 1-Sept. 15	5	10
North Zone	Sept. 1-Sept. 15	2	4
Central Zone	Sept. 1-Sept. 15	2	4
South Zone	Sept. 1-Sept. 15	2	4
<u>Indiana</u>	Sept. 1-Sept. 15	5	10
<u>Iowa</u>			
South Goose Zone			
Des Moines Goose Zone	Sept. 1-Sept. 15	3	6
Cedar Rapids/Iowa City Goose Zone	Sept. 1-Sept. 15	3	6
Remainder of South Zone	Sept. 10-Sept. 11	2	4
North Goose Zone	Sept. 10-Sept. 11	2	4
<u>Kentucky (3)</u>	Sept. 3-Sept. 11	2	4
<u>Michigan</u>			
Upper Peninsula	Sept. 1-Sept. 10	3	6
Lower Peninsula:			
Huron, Saginaw, and Tuscola Counties	Sept. 1-Sept. 10	3	6
Remainder	Sept. 1-Sept. 15	3	6
<u>Minnesota</u>			
Twin Cities Metro Zone	Sept. 3-Sept. 22	5	10
Southeast Goose Zone	Sept. 3-Sept. 22	2	4
Five Goose Zone	Sept. 3-Sept. 22	5	10
Northwest Goose Zone	Sept. 3-Sept. 15	5	10
<u>Mississippi (7)</u>	Sept. 1-Sept. 15	5	10
<u>Ohio (3)</u>	Sept. 1-Sept. 15	3	6

	Season Dates	Limits	
		Bag	Possession
<u>Tennessee</u>	Sept. 1-Sept. 15	5	10
<u>Wisconsin</u>	Sept. 1-Sept. 15	5	10
<u>CENTRAL FLYWAY</u>			
<u>Kansas:</u>			
Sept. Canada Goose Unit (3)	Sept. 3-Sept. 12	3	6
<u>Nebraska (3)</u>			
Sept. Canada Goose Unit	Sept. 10-Sept. 19	5	10
<u>North Dakota</u>	Sept. 1-Sept. 15	5	10
<u>Oklahoma</u>	Sept. 10-Sept. 19	3	6
<u>South Dakota (3):</u>			
Unit A	Sept. 3-Sept. 11	5	10
Unit B	Sept. 3-Sept. 23	5	10
Unit C	Sept. 10-Sept. 23	5	10
Unit D	Sept. 10-Sept. 15	5	10
<u>PACIFIC FLYWAY</u>			
<u>Colorado:</u>			
	Sept. 3-Sept. 11	3	6
<u>Oregon:</u>			
Northwest Zone	Sept. 10-Sept. 20	5	10
Southwest Zone	Sept. 10-Sept. 15	5	10
East Zone	Sept. 10-Sept. 15	5	10
<u>Washington:</u>			
Mgmt. Area 2B	Sept. 1-Sept. 15	5	10
Mgmt. Areas 1 & 3	Sept. 10-Sept. 15	5	10
Mgmt. Area 4 & 5	Sept. 10-Sept. 11	3	6
Mgmt. Area 2A	Sept. 10-Sept. 15	3	6
<u>Wyoming</u>	Sept. 1-Sept. 8	2	4

(1) In Florida, the September Canada goose season is only open in the Florida waters of Lake Seminole in Jackson County that are south of State Route 2, north of the Jim Woodruff Dam, and east of State Route 2.

(2) State permit required.

(3) See State regulations for additional information.

(4) In North Carolina, in the area of Dare County that included Roanoke Island, 1,000 yards around Roanoke Island, and 1,000 yards both north and south of Highway 64 causeway between Roanoke Island and Bodie Island, the daily bag and possession limits are 2 and 4, respectively.

- (5) In Vermont, in Addison County, the daily bag and possession limit is 2 and 4, respectively.
- (6) In Vermont, the Connecticut River Zone set by New Hampshire, is the same as the New Hampshire Inland Zone.
- (7) In Mississippi, the season is closed on Roebuck Lake in Leflore County.

(e) Regular Goose Seasons.

Note: Bag and possession limits will conform to those set for the regular season.

Season Dates

MISSISSIPPI FLYWAY

Michigan (1)

Canada:

MVP Zone	Deferred
SJBZ Zone	Deferred
White-fronted and Brant	Deferred
Light geese	Deferred

Wisconsin

Horicon Zone	Sept. 16-Sept. 30
Collins Zone	Sept. 16-Sept. 30
Exterior Zone	Sept. 17-Sept. 30

(1) In Michigan, season dates for the Muskegon Wastewater, Saginaw County, Allegan County, and Tuscola/Huron Goose Management Units in the South Zone will be established in the late-season regulatory process.

(f) Youth Waterfowl Hunting Days

The following seasons are open only to youth hunters. Youth hunters must be accompanied into the field by an adult at least 18 years of age. This adult cannot duck hunt but may participate in other open seasons.

**Definitions**

**Youth Hunters:** Includes youths 15 years of age or younger.

**The Atlantic Flyway:** Includes Connecticut, Delaware, Florida, Georgia, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, North Carolina, Pennsylvania, Rhode Island, South Carolina, Vermont, Virginia, and West Virginia.

**The Mississippi Flyway:** Includes Alabama, Arkansas, Illinois, Indiana, Iowa, Kentucky, Louisiana, Michigan, Minnesota, Mississippi, Missouri, Ohio, Tennessee, and Wisconsin.

**The Central Flyway:** Includes Colorado (east of the Continental Divide), Kansas, Montana (Blaine, Carbon, Fergus, Judith Basin, Stillwater, Sweetgrass, Wheatland, and all counties east thereof), Nebraska, New Mexico (east of the Continental Divide except that the Jicarilla Apache Indian Reservation is in the Pacific Flyway), North Dakota, Oklahoma, South Dakota, Texas, and Wyoming (east of the Continental Divide).



**The Pacific Flyway:** Includes Arizona, California, Colorado (west of the Continental Divide), Idaho, Montana (including and to the west of Hill, Chouteau, Cascade, Meagher, and Park Counties), Nevada, New Mexico (the Jicarilla Apache Indian Reservation and west of the Continental Divide), Oregon, Utah, Washington, and Wyoming (west of the Continental Divide including the Great Divide Basin).

Note: Bag and possession limits will conform to those set for the regular season.

Season Dates

ATLANTIC FLYWAY

<u>Connecticut</u>	Deferred
<u>Delaware</u> Ducks, geese, and coots	Oct. 22
<u>Florida</u>	Deferred
<u>Georgia</u> Ducks, geese, mergansers, coots, moorhens, and gallinules	Nov. 12 & 13
<u>Maine</u> Ducks, mergansers, and coots	Sept. 24
<u>Maryland (1)</u> Ducks, mergansers, coots, and Canada geese	Deferred
<u>Massachusetts</u>	Deferred
<u>New Hampshire</u> Ducks, geese, mergansers, and coots	Sept. 24 & 25
<u>New Jersey</u> Ducks, geese, mergansers, coots, moorhens, and gallinules	
North Zone	Sept. 24
South Zone	Deferred
Coastal Zone	Deferred
<u>New York</u> Ducks, mergansers, coots, brant, and Canada geese (2)	
Long Island Zone	Nov. 12 & 13
Lake Champlain Zone	Sept. 24 & 25
Northeastern Zone	Sept. 24 & 25
Southeastern Zone	Sept. 24 & 25
Western Zone	Oct. 8 & 9
<u>North Carolina</u>	Deferred
<u>Pennsylvania</u> Ducks, mergansers, Canada geese, coots, and moorhens	Sept. 24

## Season Dates

<u>Rhode Island</u>	
Ducks, mergansers and coots	Oct. 29 & 30
<u>South Carolina</u>	Deferred
<u>Vermont</u>	
Ducks, mergansers and coots	Sept. 24 & 25
<u>Virginia</u>	
Deferred	
<u>West Virginia</u> (3)	
Ducks, geese, mergansers, coots, moorhens, and gallinules	Sept. 24
<u>MISSISSIPPI FLYWAY</u>	
<u>Alabama</u>	
Ducks, mergansers, coots, geese, moorhens, and gallinules	Feb. 11 & 12
<u>Arkansas</u>	Deferred
<u>Illinois</u>	Deferred
<u>Indiana</u>	Deferred
<u>Iowa</u>	
Ducks, geese, mergansers, and coots	
North Zone	Oct. 8 & 9
South Zone	Oct. 8 & 9
<u>Kentucky</u>	Deferred
Ducks, geese, mergansers, coots, moorhens, and gallinules	
East Zone	Nov. 5 & 6
West Zone	Feb. 4 & 5
<u>Louisiana</u>	Deferred
<u>Michigan</u>	
Ducks, geese, mergansers, coots, moorhens, and gallinules	Sept. 17 & 18
<u>Minnesota</u> (4)	
Ducks, geese, mergansers, coots, moorhens, and gallinules	Sept. 17
<u>Mississippi</u>	Deferred
<u>Missouri</u>	Deferred

	Season Dates
<u>Ohio</u>	Deferred
<u>Tennessee</u>	Deferred
<u>Wisconsin</u> Ducks, geese, mergansers, coots, moorhens, and gallinules	Sept. 17 & 18
 <u>CENTRAL FLYWAY</u>	
<u>Colorado</u> Ducks, dark geese, mergansers, and coots	Sept. 24 & 25
<u>Kansas</u> (5)	Deferred
<u>Montana</u> Ducks, geese, mergansers, and coots	Sept. 24 & 25
<u>Nebraska</u> (6) Ducks, geese, mergansers, and coots	Sept. 24 & 25
<u>New Mexico</u> Ducks, geese, mergansers, coots, and gallinules North Zone South Zone	Oct. 1 & 2 Oct. 15 & 16
<u>North Dakota</u> Ducks, geese, mergansers, and coots	Sept. 17 & 18
<u>Oklahoma</u>	Deferred
<u>South Dakota</u> (7) Ducks, Canada geese, mergansers, and coots	Sept. 17 & 18
<u>Texas</u>	Deferred
<u>Wyoming</u> Ducks, geese, mergansers, coots, and gallinules Zone 1 Zone 2	Sept. 24 Sept. 24
 <u>PACIFIC FLYWAY</u>	
<u>Arizona</u> Ducks, geese, mergansers, coots, moorhens, and gallinules North Zone South Zone	Oct. 1 Feb. 4

## Season Dates

California

Ducks, geese, mergansers, coots, moorhens, and gallinules	
Northeastern Zone	Sept. 24 & 25
Colorado River Zone	Deferred
Southern Zone	Deferred
Southern San Joaquin Valley Zone	Deferred
Balance-of-State Zone	Deferred

Colorado

Ducks, geese, mergansers, and coots	Sept. 24 & 25
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Idaho

Ducks, Canada geese, mergansers, and coots	Sept. 24 & 25
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Montana

Ducks, geese, mergansers, coots, moorhens, and gallinules	Sept. 24 & 25
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Nevada

Deferred

New Mexico

Ducks, mergansers, and coots	Oct. 8-Oct. 9
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Oregon (8)

Ducks, Canada geese, mergansers, coots, moorhens, and gallinules	Sept. 24 & 25
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Utah

Ducks, geese, mergansers, coots, moorhens, and gallinules	Sept. 24
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Washington

Ducks, Canada geese, mergansers, and coots	Sept. 17 & 18
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Wyoming

Ducks, dark geese, mergansers, coots, and moorhens	Sept. 17
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(1) In Maryland, the accompanying adult must be at least 21 years of age and possess a valid Maryland hunting license (or be exempt from the license requirement). This accompanying adult may not shoot or possess a firearm.

(2) In New York, the daily bag limit for Canada geese is 2.

(3) In West Virginia, the accompanying adult must be at least 21 years of age.

(4) In Minnesota, the Canada goose limit is 5, except that in the Twin Cities, Southeast, and Northwest Goose Zones, Swan Lake Area, and Carlos Avery Wildlife Management Area the limit is 1.

(5) In Kansas, the adult accompanying the youth must possess any licenses and/or stamps required by law for that individual to hunt waterfowl.

(6) In Nebraska, see State regulations for additional information on the daily bag limit.

(7) In South Dakota, the limit for Canada geese is 3, except in areas where the Special Early Canada goose season is open. In those areas, the limit is the same as for that special season.

(8) In Oregon, the Canada goose season is closed for the youth hunt in the Northwest Special Permit Goose Zone and the Northwest General Zone.

7. Section 20.106 is revised to read as follows:

**§20.106 Seasons, limits, and shooting hours for sandhill cranes.**

Subject to the applicable provisions of the preceding sections of this part, areas open to hunting, respective open seasons (dates inclusive), shooting and hawking hours, and daily bag and possession limits on the species designated in this section are as follows:

Shooting and Hawking hours are one-half hour before sunrise until sunset, except as otherwise noted. Area descriptions were published in the August 1, 2005, Federal Register (70 FR 44200).

CHECK STATE REGULATIONS FOR AREA DESCRIPTIONS AND ANY ADDITIONAL RESTRICTIONS.

Note: States with deferred seasons may select those seasons at the same time they select waterfowl seasons in August. Consult late-season regulations for further information.

	Season Dates	Limits	
		Bag	Possession
<u>CENTRAL FLYWAY</u>			
<u>Colorado</u> (1)	Oct. 1-Nov. 27	3	6
<u>Kansas</u> (2)	Deferred	--	--
<u>Montana</u>			
Regular Season Area (1)	Sept. 24-Nov. 20	3	6
Special Season Area (3)	Sept. 10-Sept. 18		1 per season
<u>New Mexico</u>			
Regular Season Area (1)	Oct. 31-Jan. 31	3	6
Middle Rio Grande Valley Area (3)(4)(5)	Nov. 5-Nov. 6 & Nov. 19-Nov. 20 & Dec. 10-Dec. 11 & Jan. 14-Jan. 15	1 1 1 1	2 2 2 2
Southwest Area (3)(4)(5)	Nov. 12-Nov. 13 & Jan. 7-Jan. 8	2 2	4 4
Estancia Valley (4)(5)	Nov. 5-Nov. 6	2	4
<u>North Dakota</u> (2)			
Area 1	Sept. 17-Nov. 13	3	6
Area 2	Sept. 17-Oct. 23	2	4

	Season Dates	Limits	
		Bag	Possession
<u>Oklahoma</u> (1)	Deferred	--	-
<u>South Dakota</u> (1)	Sept. 24-Nov. 20	3	6
<u>Texas</u> (1)	Deferred	--	-
<u>Wyoming</u>			
Regular Season Area (1)(5)	Sept. 17-Nov. 13	3	6
Riverton-Boysen Unit (Area 4) (3)(5)	Sept. 17-Oct. 7		1 per season
Big Horn and Park Counties (Area 6) (3)(5)	Sept. 17-Oct. 2		1 per season
<u>PACIFIC FLYWAY</u>			
<u>Arizona</u> (3)	Nov. 1-Nov. 3 & Nov. 5-Nov. 7 & Nov. 9-Nov. 11 & Nov. 13-Nov. 15 & Nov. 25-Nov. 27		2 per season 2 per season 2 per season 2 per season 2 per season
<u>Idaho</u> (3)	Sept. 1-Sept. 15	2	9 per season
<u>Montana</u>			
Special Season Area (3)	Sept. 10-Sept. 18		1 per season
<u>Utah</u> (3)			
Rich County	Sept. 3-Sept. 11		1 per season
Cache County	Sept. 3-Sept. 11		1 per season
Eastern Box Elder County	Sept. 3-Sept. 11		1 per season
Uintah County	Sept. 24-Oct. 2		1 per season
<u>Wyoming</u> (3)(5)			
Bear River Area (Area 1)	Sept. 1-Sept. 8		1 per season
Salt River Area (Area 2)	Sept. 1-Sept. 8		1 per season
Eden-Farson Area (Area 3)	Sept. 1-Sept. 8		1 per season

(1) Each hunter participating in a regular sandhill crane hunting season must obtain and carry in his or her possession while hunting sandhill cranes a valid Federal sandhill crane hunting permit available without cost from conservation agencies in the States where crane hunting seasons are allowed. The permit must be displayed to any authorized law enforcement official upon request.

(2) In Kansas and North Dakota, each hunter participating in a regular sandhill crane hunting season must obtain and carry in his or her possession while hunting sandhill cranes a valid Federal sandhill crane hunting permit issued and validated by the State. The permit must be displayed to any authorized law enforcement official upon request.

(3) Hunting is by State permit only.

(4) In New Mexico, the seasonal bag limit is 2 in the Middle Rio Grande Valley Area, 4 in the Estancia Valley, and 8 in the Southwest Area.

(5) Shooting hours are one-half hour before sunrise to sunset.

8. Section 20.109 is revised to read as follows:

**§20.109 Extended seasons, limits, and hours for taking migratory game birds by falconry.**

Subject to the applicable provisions of the preceding sections of this part, areas open to hunting, respective open seasons (dates inclusive), hawking hours, and daily bag and possession limits for the species designated in this section are prescribed as follows:

Hawking hours are one-half hour before sunrise until sunset except as otherwise noted. Area descriptions were published in the August 1, 2005, Federal Register (70 FR 44200). For those extended seasons for ducks, mergansers, and coots, area descriptions were published in the August 22, 2005, Federal Register (70 FR 49068) and will be published again in a September 2005 Federal Register.

CHECK STATE REGULATIONS FOR AREA DESCRIPTIONS AND ANY ADDITIONAL RESTRICTIONS.

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Daily bag limit . . . . . 3 migratory birds, singly or in the aggregate.

Possession limit . . . . . 6 migratory birds, singly or in the aggregate.

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These limits apply to falconry during both regular hunting seasons and extended falconry seasons -- unless further restricted by State regulations. The falconry bag and possession limits are not in addition to regular season limits. Unless otherwise specified, extended falconry for ducks does not include sea ducks within the special sea duck areas. Only extended falconry seasons are shown below. Many States permit falconry during the gun seasons. Please consult State regulations for details.

For ducks, mergansers, coots, geese, and some moorhen seasons; additional season days occurring after September 30 will be published with the late-season selections. Some States have deferred selections. Consult late-season regulations for further information.

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Extended Falconry Dates

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ATLANTIC FLYWAY

Delaware

Mourning doves	Oct. 1-Oct. 31 & Jan. 16-Jan. 21
Rail	Nov. 10-Dec. 16
Woodcock	Oct. 1-Oct. 4 & Feb. 1-Mar. 4
Snipe	Feb. 1-Mar. 7

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Extended Falconry Dates

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Florida

Mourning and white-winged doves	Oct. 25-Nov. 11 & Nov. 28-Dec. 9 & Jan. 9-Jan. 15
Rails	Nov. 10-Dec. 16
Woodcock	Nov. 24-Dec. 16 & Jan. 16-Mar. 10
Common moorhens	Nov. 10-Dec. 14

Georgia

Moorhens, gallinules, and sea ducks	Nov. 12-Nov. 18 & Nov. 28-Dec. 9 & Jan. 30-Feb. 3
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Maryland

Mourning doves	Oct. 16-Nov. 10 & Dec. 11-Dec. 16 & Jan. 2- Jan. 6
Rails	Nov. 10-Dec. 16
Woodcock	Oct. 1-Nov. 3 & Jan. 27-Mar. 10

Pennsylvania

Mourning doves	Oct. 3-Oct. 28 & Nov. 28-Dec. 8
Rails	Nov. 10-Dec. 16
Woodcock	Sept. 1-Oct. 14 & Nov. 14-Dec. 16
Snipe	Sept. 1-Oct. 14 & Nov. 21-Dec. 17
Moorhens and gallinules	Nov. 10-Dec. 15

Virginia

Mourning doves	Sept. 25-Oct. 7 & Dec. 3-Dec. 26
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Extended Falconry Dates

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Virginia (cont.)

Woodcock Oct. 22-Nov. 11 &  
Nov. 27-Dec. 16 &  
Jan. 1-Jan. 31

MISSISSIPPI FLYWAY

Illinois

Mourning doves Oct. 22-Nov. 4 &  
Nov. 14-Dec. 16

Rails Sept. 1-Sept. 9 &  
Nov. 19-Dec. 16

Woodcock Sept. 1-Oct. 14 &  
Nov. 29-Dec. 16

Indiana

Mourning doves Oct. 17-Nov. 3 &  
Jan. 1-Jan. 29

Woodcock Sept. 24-Oct. 14 &  
Nov. 29-Jan. 8

Ducks, mergansers, and coots (1)  
North Zone Sept. 27-Sept. 30

Louisiana

Mourning doves Sept. 12-Oct. 7 &  
Nov. 14-Nov. 24

Woodcock Oct. 29-Dec. 17 &  
Feb. 1-Feb. 12

Minnesota

Woodcock Sept. 1-Sept. 23 &  
Nov. 8-Dec. 16

Rails and snipe Nov. 5-Dec. 16

Missouri

Mourning and white-winged doves Nov. 10-Dec. 16

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 Extended Falconry Dates
 

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Missouri (cont.)

Ducks, mergansers, and coots	Sept. 10-Sept. 18
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Tennessee

Mourning doves	Sept. 27-Oct. 7 & Oct. 24-Nov. 28
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Ducks (1)	Sept. 15-Sept. 29
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Wisconsin

Rails, snipe, moorhens, and gallinules (1)	Sept. 1-Sept. 23
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Woodcock	Sept. 1-Sept. 23
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Ducks, mergansers, and coots	Sept. 17-Sept. 18
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CENTRAL FLYWAYMontana (2)

Ducks, mergansers, and coots (1)	Sept. 21-Sept. 30
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Nebraska

Ducks, mergansers, and coots	
High Plains	Sept. 10-Sept. 18 & Sept. 24-Sept. 25
Low Plains	Sept. 3-Sept. 25

New Mexico

Doves	
North Zone	Oct. 31-Nov. 12 & Nov. 27-Dec. 30
South Zone	Oct. 1-Nov. 12 & Nov. 27-Nov. 30

Band-tailed pigeons	
North Zone	Sept. 21-Dec. 16
South Zone	Oct. 21-Jan. 15

Ducks and coots	Sept. 17-Sept. 25
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Sandhill cranes	
Regular Season Area	Oct. 17-Oct. 30

Extended Falconry Dates

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New Mexico (cont.)

Common moorhens	Dec. 17-Jan. 22
Sora and Virginia rails	Nov. 26-Jan. 1

North Dakota

Ducks, mergansers, and coots	Sept. 5-Sept. 9 & Sept. 12-Sept. 16
Snipe	Sept. 1-Sept. 17

South Dakota

Ducks, mergansers, and coots (1)	
High Plains	Sept. 4-Sept. 11
Low Plains	
North Zone	Sept. 4-Sept. 16 & Sept. 19-Sept. 23
Middle Zone	Sept. 4-Sept. 16 & Sept. 19-Sept. 23
South Zone	Sept. 4-Sept. 16 & Sept. 19-Sept. 30

Texas

Mourning and white-winged doves	Nov. 19-Dec. 25
Rails and gallinules	Dec. 22-Jan. 27
Woodcock	Nov. 24-Dec. 17 & Feb. 1-Mar. 10

Wyoming

Rails	Nov. 10-Dec. 16
Ducks, mergansers, and coots (1)	
Zone 1	Sept. 21-Sept. 30
Zone 2	Sept. 21-Sept. 30

PACIFIC FLYWAY

Arizona

Doves	Sept. 12-Oct. 29
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 Extended Falconry Dates
 

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Idaho

Mourning doves Nov. 1-Jan. 16

New Mexico

## Doves

North Zone

Oct. 31-Nov. 12 &  
Nov. 27-Dec. 30

South Zone

Oct. 1-Nov. 12 &  
Nov. 27-Nov. 30

## Band-tailed pigeons

North Zone

Sept. 21-Dec. 16

South Zone

Oct. 21-Jan. 15

Oregon (3)

Mourning doves

Oct. 1-Dec. 16

Band-tailed pigeons

Sept. 1-Sept. 14 &  
Sept. 24-Dec. 16

Utah

Mourning doves and band-tailed pigeons

Oct. 1-Dec. 16

Washington

Mourning doves

Oct. 1-Dec. 31

Wyoming

Rails

Nov. 10-Dec. 16

Ducks, mergansers,  
and coots (1)

Sept. 17

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(1) Additional days occurring after September 30 will be published with the late-season selections.

(2) In Montana, the bag limit is 2 and the possession limit is 6.

(3) In Oregon, no more than 1 pigeon daily in bag or possession.

[FR Doc. 05-17238 Filed 8-30-05; 8:45 am]

BILLING CODE 4310-55-C

**PROPOSED REGULATORY ALTERNATIVES FOR DUCK HUNTING DURING THE 2006-07 SEASON**

	ATLANTIC FLYWAY			MISSISSIPPI FLYWAY			CENTRAL FLYWAY (g)			PACIFIC FLYWAY (b)(c)		
	RES	MOD	LIB	RES	MOD	LIB	RES	MOD	LIB	RES	MOD	LIB
Beginning Shooting Time	1/2 hr. before sunrise	1/2 hr. before sunrise	1/2 hr. before sunrise	1/2 hr. before sunrise	1/2 hr. before sunrise	1/2 hr. before sunrise	1/2 hr. before sunrise	1/2 hr. before sunrise	1/2 hr. before sunrise	1/2 hr. before sunrise	1/2 hr. before sunrise	1/2 hr. before sunrise
Ending Shooting Time	Sunset	Sunset	Sunset	Sunset	Sunset	Sunset	Sunset	Sunset	Sunset	Sunset	Sunset	Sunset
Opening Date	Oct. 1	Sat. nearest Sept. 24	Sat. nearest Sept. 24	Sat. nearest Oct. 1	Sat. nearest Sept. 24	Sat. nearest Sept. 24	Sat. nearest Oct. 1	Sat. nearest Sept. 24	Sat. nearest Oct. 1	Sat. nearest Sept. 24	Sat. nearest Sept. 24	Sat. nearest Sept. 24
Closing Date	Jan. 20	Last Sunday in Jan.	Last Sunday in Jan.	Sun. nearest Jan. 20	Last Sunday in Jan.	Last Sunday in Jan.	Sun. nearest Jan. 20	Last Sunday in Jan.	Sun. nearest Jan. 20	Last Sunday in Jan.	Last Sunday in Jan.	Last Sunday in Jan.
Season Length (in days)	30	45	60	30	45	60	39	60	74	60	86	107
Daily Bag/Possession Limit	3 6	6 12	6 12	3 6	6 12	6 12	3 6	6 12	6 12	4 8	7 14	7 14
<b>Species/Sex Limits within the Overall Daily Bag Limit</b>												
Mallard (Total/Female)	3/1	4/2	4/2	2/1	4/1	4/2	3/1	5/1	5/2	3/1	5/2	7/2

- (a) In the High Plains Mallard Management Unit, all regulations would be the same as the remainder of the Central Flyway, with the exception of season length. Additional days would be allowed under the various alternatives as follows: restrictive - 12, moderate and liberal - 23. Under all alternatives, additional days must be on or after the Saturday nearest December 10.
- (b) In the Columbia Basin Mallard Management Unit, all regulations would be the same as the remainder of the Pacific Flyway, with the exception of season length. Under all alternatives except the liberal alternative, an additional 7 days would be allowed.
- (c) In Alaska, framework dates, bag limits, and season length would be different from the remainder of the Pacific Flyway. The bag limit would be 5-7 under the restrictive alternative, and 8-10 under the moderate and liberal alternatives. Under all alternatives, season length would be 107 days and framework dates would be Sep. 1 - Jan. 26.

# OPTIMAL REGULATORY STRATEGIES

We calculated optimal regulatory strategies using stochastic dynamic programming (Lubow 1995, Johnson and Williams 1999). For the three western Flyways, we based this optimization on: (1) the 2005 regulatory alternatives, including the closed-season constraint; (2) current population models and associated weights for midcontinent mallards; and (3) the dual objectives of maximizing long-term cumulative harvest and achieving a population goal of 8.8 million midcontinent mallards. The resulting regulatory strategy (Table 8) is similar to that used last year.

Assuming that regulatory choices adhered to this strategy (and that current model weights accurately reflect population dynamics), breeding-population size would be expected to average 7.34 million (SD = 1.76). Note that prescriptions for closed seasons in this strategy represent resource conditions that are insufficient to support one of the current regulatory alternatives, given current harvest-management objectives and constraints. However, closed seasons under all of these conditions are not necessarily required for long-term resource protection, and simply reflect the NAWMP population goal and the nature of the current regulatory alternatives.

Based on an observed population size of 7.54 million midcontinent mallards (traditional surveys plus MN, MI, and WI) and 3.92 million ponds in Prairie Canada, the optimal regulatory choice for the Pacific, Central, and Mississippi Flyways in 2005 is the liberal alternative.

Table 8. Optimal regulatory strategies for the three western Flyways for the 2005 hunting season. This strategy is based on current regulatory alternatives (including the closed-season constraint), on current midcontinent mallard models and weights, and on the dual objectives of maximizing long-term cumulative harvest and achieving a population goal of 8.8 million mallards. The shaded cell indicates the regulatory prescription for 2005.

Bpop <sup>b</sup>	Ponds <sup>c</sup>									
	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
≤ 5.25	C	C	C	C	C	C	C	C	C	C
5.50-6.25	R	R	R	R	R	R	R	R	R	R
6.5	R	R	R	R	R	R	R	R	R	M
6.75	R	R	R	R	R	R	M	M	M	L
7	R	R	R	R	R	M	M	L	L	L
7.25	R	R	R	M	M	M	L	L	L	L
7.5	R	M	M	M	L	L	L	L	L	L
7.75	M	M	M	L	L	L	L	L	L	L
8	M	M	L	L	L	L	L	L	L	L
8.25	L	L	L	L	L	L	L	L	L	L
≥ 8.5	L	L	L	L	L	L	L	L	L	L

a C = closed season, R = restrictive, M = moderate, L = liberal.

b Mallard breeding population size (in millions) in the traditional survey area (survey strata 1-18, 20-50, 75-77) and Michigan, Minnesota, and Wisconsin.

c Ponds (in millions) in Prairie Canada in May.

Tennessee Wildlife Resources Commission  
Proclamation

Woodcock, Snipe, Crow, and September Waterfowl Regulations

Pursuant to the authority granted by, Tennessee Code Annotated, Sections 70-4-107 and 70-5-108, the Tennessee Wildlife Resources Commission hereby proclaims the following migratory bird hunting regulations effective August 1, 2003.

Season dates and limits are pending in lieu of federal frameworks.

Section I. Season and Daily Bag Limits\*\*

Species	Opens	Closes	Daily Bag
Woodcock	Maximum days allowed by federal regulations beginning the last Saturday in October		Maximum bag limit allowed by federal regulations
Wilson Snipe	107 consecutive days ending Feb. 29		8
Crow	Fridays, Saturdays and Sundays only from June 1 - end of February		No limit
Wood Duck/Teal	2nd Sat. in Sept. and continues for five consecutive days		41
Canada Goose	Sept. 1	Sept. 15	5

Section II. Shooting Hours

Shooting hours same as federal frameworks.\*\*

Section III. Possession Limits

**The possession limit for all species listed herein is twice the daily bag limit except opening day when it shall be the same as the daily bag limit.**

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1 In aggregate not to exceed 2 wood ducks. Not to exceed 4 teal.

\*\* Sections I, II, and IV amended by Proclamation 04-01 dated January 15, 2004.

Section IV. Repeal of Prior Proclamation

This proclamation repeals Proclamation No. 02-5, dated May 30, 2002.

Tennessee Wildlife Resources Commission

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Chairman

I certify that this is an accurate and complete copy of a proclamation lawfully promulgated and adopted by the Tennessee Wildlife Resources Commission on the \_\_\_\_ day of \_\_\_\_\_, 2003.

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Secretary

Subscribed and sworn to before me this the \_\_\_\_ day of 2003.

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Notary Public

My commission expires on the \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

Proclamation No. 03-11 received and recorded this \_\_\_\_ day of 2003.

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Riley C. Darnell, Secretary of State

\*\* Sections I, II, and IV amended by Proclamation 04-01 dated January 15, 2004.



Tennessee Wildlife Resources Commission Proclamation

Migratory Bird Hunting Seasons and Regulations

Pursuant to the authority granted by Title 70, Tennessee Code Annotated, and Section 70-4-107 thereof, the Tennessee Wildlife Resources Commission hereby proclaims the following migratory bird hunting regulations effective October 1, 2005. Season dates and limits pending final Federal Frameworks.

Section I.	Hunting Seasons		
Species		Season Opens	Season Closes
A.	Ducks, Coots, and Mergansers		
	Reelfoot Duck Zone	Nov. 12 Dec. 3	Nov. 13 Jan. 29
	Canvasback	Dec. 31	Jan. 29
	Reelfoot Duck Zone shall include the waters of Reelfoot Lake.		
	Remainder of State	Nov. 26 Dec. 3	Nov. 27 Jan. 29
	Canvasback	Dec. 31	Jan. 29
B.	Youth Waterfowl Hunting Season		
	Reelfoot Duck Zone	Feb. 4	Feb. 5
	Remainder of State	Feb. 4	Feb. 5

**Youth waterfowl hunters must be 6-15 years of age. An adult at least 21 years of age must accompany the youth hunter into the field and must remain in a position to take control of the hunting device. This adult cannot duck hunt but may participate in other open seasons. Geese, coots, gallinules, moorhens, and ducks, including pintails, may be taken by youths during the Youth Waterfowl Season, but canvasback season is closed during the Youth Waterfowl Season.**

Section I.	Hunting Seasons (Cont.)	Season Opens	Season Closes
C.	Purple Gallinules and Common Moorhens		
	Reelfoot Duck Zone	Nov. 12 Dec. 3	Nov. 13 Jan. 22
	Remainder of State	Nov. 27 Dec. 3	Nov. 28 Jan. 22
D.	Virginia Rails and Sora Rails		
	Reelfoot Duck Zone	Nov. 12 Dec. 3	Nov. 13 Jan. 20
	Remainder of State	Nov. 26 Dec. 3	Nov. 27 Jan. 20
E.	White-fronted Geese	Dec. 3	Feb. 12
F.	Blue, Snow, and Ross' Geese	Nov. 12	Feb. 26
G.	Brant	Nov. 26	Jan. 30
H.	Canada Geese		
	1. Northwest MVP Zone: Mississippi Valley Population Lake, Obion, and Weakley Counties, and Those Portions of Gibson and Dyer Counties Not Included in the Southwest MVP Zone.	Dec. 3	Feb. 12
	2. Southwest MVP Zone: Mississippi Valley Population That portion of the state bounded on the north by State Highways 20 and 104, and on the east by U.S. Highways 45W and 45.	Oct. 1 Dec. 11	Oct. 9 Jan. 29
	3. Kentucky/Barkley Lake Zone: Southern James Bay Population. That area west of Highway 13 not in the Northwest and Southwest MVP Zones.	Oct. 1 Dec. 11	Oct. 9 Jan. 29
	4. Remainder of the State:	Oct. 1 Dec. 1	Oct. 9 Jan. 30

The Remainder of the State includes all counties or portions of counties east of State Highway 13.

Section II. Bogota Wildlife Management Area Draw Hunts for Pools 2, 4, 5, 7, and 12.

Hunting of waterfowl will be by computer draw and will occur on Fridays, Saturdays, and Sundays during the regular duck season except for opening weekends on which hunting will be Saturday and Sunday only. All hunting shall cease at 3:00 p.m. (CST) each day, except the last day of the season when hunting shall close at sunset.

Section III. Laurel Hill Lake. Duck and Goose season for Laurel Hill Lake is Saturday, Jan 14,

2006 through Sunday, Jan. 29, 2006. Hunting from temporary blind sites only ( boat blinds allowed).

Section IV. Shooting Hours - From ½ hour before sunrise to sunset daily, for all species and seasons.

Section V. Bag and Possession Limits

A. Ducks and Mergansers

Daily Bag Limit - The Daily bag limit of ducks is 6, and may include no more than 4 mallards (no more than 1 of which may be a female), 1 black duck, 2 wood ducks, 1 pintail, 1 canvasback (last 30 days of season), 2 scaup, and 2 redheads.

The daily bag limit of merganser is 5, only 1 of which may be a hooded merganser.

Possession Limit:

The maximum number of birds that could have legally been taken in two (2) days.

	Daily Bag	Possession
B. Coots and Gallinules	15	30
C. Virginia and Sora Rails	25	25
D. Blue and Snow Geese	20	No Limit
E. White-fronted Goose	2	4
F. Brant	2	4
G. Canada Goose	2	4

Section VI. Repeal of Prior Proclamation

This proclamation repeals Proclamation No. 04-17, dated August 21, 2004.

Tennessee Wildlife Resources Commission

\_\_\_\_\_  
Chairman

I certify that this is an accurate and complete copy of a proclamation lawfully promulgated and adopted by the Tennessee Wildlife Resources Commission on the 18<sup>th</sup> day of August 2005.

\_\_\_\_\_  
Secretary

Subscribed and sworn to before me this the \_\_\_\_\_ day of \_\_\_\_\_, 2005.

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

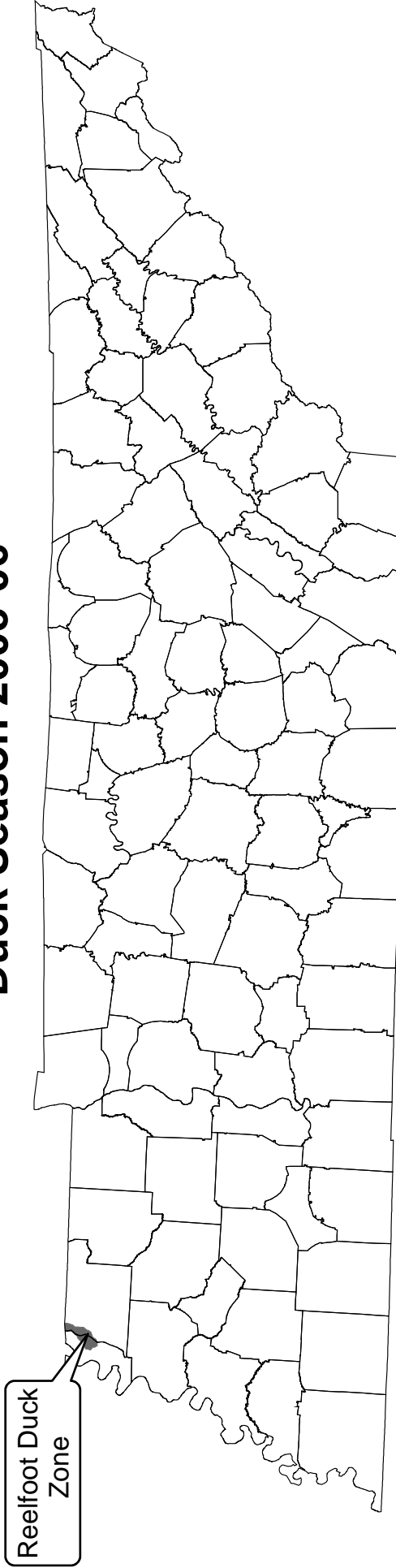
Proclamation No. 05-23, received and recorded this \_\_\_\_\_ day of \_\_\_\_\_, 2005.

\_\_\_\_\_  
Riley C. Darnell, Secretary of State

# DUCKS



# Duck Season 2005-06



## Reelfoot Duck Zone

Sept. 10 (Sat.), 2005 - Sept. 14 (Wed.), 2005 5-days  
 Nov. 12 (Sat.), 2004 - Nov. 13 (Sun.), 2005 2-days  
 Dec. 3 (Sat.), 2005 Jan. 29(Sun.), 2006 58-days  
 CANVASBACK

Dec. 31 (Sat.), 2005 - Jan. 29 (Sun.), 2006 30-days  
 YOUTH WATERFOWL SEASON  
 Feb. 4 (Sat.), 2006 - Feb. 5 (Sun.), 2006 2-days

## Remainder of State

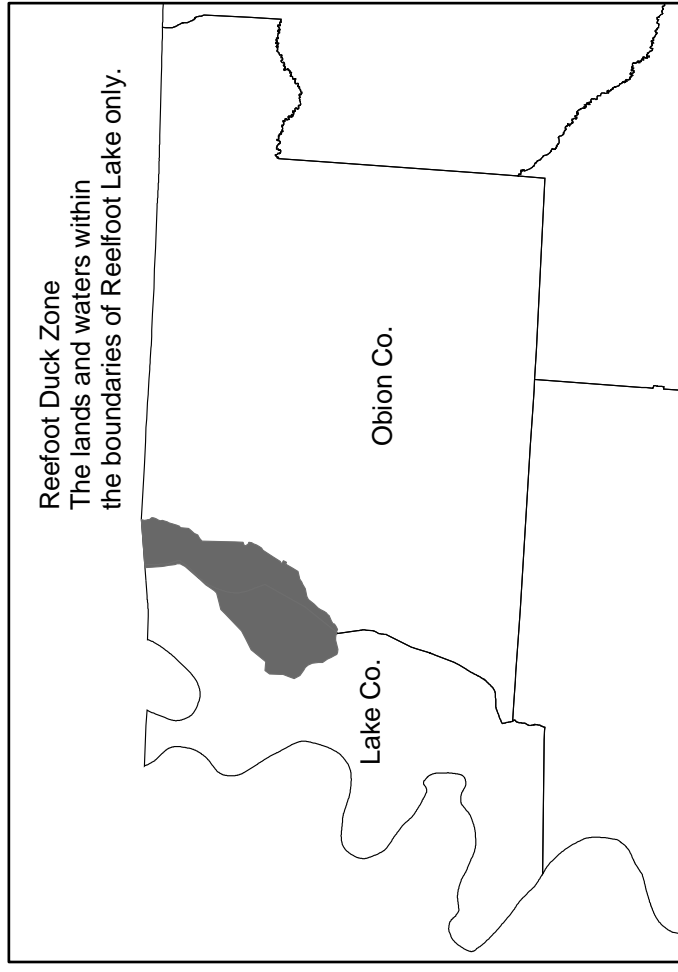
Sept. 10 (Sat.), 2005 - Sept. 14 (Wed.), 2005 5-days  
 Nov. 26 (Sat.), 2005 - Nov. 27 (Sun.), 2005 2-days  
 Dec. 3 (Sat.), 2005 - Jan. 29 (Sun.), 2006 58-days  
 CANVASBACK  
 Dec.31 (Sat.), 2005 - Jan. 29 (Sun.), 2006 30-days  
 YOUTH WATERFOWL SEASON  
 Feb. 4 (Sat.), 2006 - Feb. 5 (Sun.), 2006 2-days

## Bag Limits

Sept. Season - 5 - Wood Ducks and Teal only, no more than 2 Wood Ducks

Late Duck Seasons:

Ducks - Six birds including no more than 4 Mallards (no more than 1 female Mallard), 1 Black Duck, 2 Wood Ducks, 1 Pintail, 3 Scaup, 2 Redheads, ad 1 Canvasback (Dec. 31 - Jan.29, 2006)



Mergansers - Five (only 1 of which may be a Hooded Merganser)  
 Coots and Gallinules - 15  
 Virginia and Sora Ralls - 25

## DUCK HUNTING SEASONS IN TENNESSEE

YEAR	REGULAR STATEWIDE SEASON				SPECIAL EARLY SEASON				REELFOOT ZONE			
	SEASON	DAYS	BAG		SEASON	DAYS	BAG		SEASON	DAYS	BAG	
1931/32	NOV 1 - JAN 31	92	15									
1932/33	NOV 1 - JAN 31	92	15									
1933/34												
1934/35	NOV 27 - DEC 27	30	12									
1935/36	NOV 20 - DEC 19	30	10									
1936/37	NOV 26 - DEC 25	30	10									
1937/38	NOV 27 - DEC 26	30	10									
1938/39	NOV 15 - DEC 29	45	10									
1939/40	NOV 15 - DEC 29	45	10									
1940/41	NOV 2 - DEC 31	60	10									
1941/42	NOV 2 - DEC 31	60	10									
1942/43	NOV 2 - JAN 10	70	10									
1943/44	NOV 2 - JAN 10	70	10									
1944/45	NOV 2 - JAN 20	80	10									
1945/46	NOV 2 - JAN 20	80	10									
1946/47	NOV 23 - JAN 6	45	7									
1947/48	DEC 8 - JAN 6	30	4									
1948/49	DEC 10 - JAN 8	30	4									
1949/50	NOV 18 - DEC 27	40	4									
1950/51	NOV 2 - JAN 5	35	4									
1951/52	NOV 22 - JAN 5	45	4									
1952/53	NOV 17 - JAN 10	55	4									
1953/54	NOV 17 - JAN 10	55	4									
1954/55	NOV 17 - JAN 10	55	4									
1955/56	NOV 7 - JAN 15	70	4									
1956/57	NOV 7 - JAN 15	70	4									
1957/58	NOV 7 - JAN 15	70	4									
1958/59	NOV 7 - JAN 15	70	4									
1959/60	NOV 30 - JAN 8	40	4									
1960/61	NOV 30 - JAN 8	40	4									
1961/62	DEC 1 - DEC 30	30	2									

## DUCK HUNTING SEASONS IN TENNESSEE

YEAR	REGULAR STATEWIDE SEASON			SPECIAL EARLY SEASON			REELFOOT ZONE		
	SEASON	DAYS	BAG	SEASON	DAYS	BAG	SEASON	DAYS	BAG
1962/63	DEC 6 - DEC 30	25	2						
1963/64	DEC 2 - JAN 5	35	4						
1964/65	NOV 25 - JAN 3	40	4						
1965/66	DEC 1 - JAN 9	40	4						
1966/67	NOV 25 - JAN 8	45	4						
1967/68	NOV 29 - JAN 7	40	4						
1968/69	DEC 7 - JAN 5	30	3						
1969/70	DEC 6 - JAN 4	30	4						
1970/71	DEC 4 - JAN 17	45	4						
1971/72	NOV 13 - NOV 21 DEC 7 - JAN 16	50	4	SEP 19 - SEP 27 SEP 18 - SEP 26	9 9	4 a 4 a			
1972/73	NOV 25 - JAN 13	50	4	SEP 22 - SEP 30	9	4 a			
1973/74	DEC 12 - JAN 20	40	4	SEP 22 - SEP 30	9	4 a			
1974/75	NOV 20 - DEC 1 DEC 11 - JAN 17	50	10 PS	SEP 21 - SEP 29	9	4 a			
1975/76	DEC 3 - JAN 20	45	10 PS	SEP 20 - SEP 28	9	4 a			
1976/77	NOV 27 - NOV 28 DEC 4 - JAN 20	50	10 PS	SEP 18 - SEP 26	9	4 a			
1977/78	NOV 12 - NOV 14 DEC 10 - JAN 20	45	10 PS	SEP 17 - SEP 25	9	4 a			
1978/79	DEC 2 - JAN 20	50	10 PS	SEP 16 - SEP 24	9	4 a			
1979/80	DEC 1 - JAN 19	50	10 PS	SEP 15 - SEP 23	9	4 a	NOV 17 - JAN 5	50	10 PS
1980/81	DEC 2 - JAN 20	50	10 PS	SEP 13 - SEP 21	9	4 a	NOV 22 - JAN 10	50	10 PS
1981/82	DEC 2 - JAN 20	50	10 PS	SEP 19 - SEP 23	5	4 b	NOV 7 - DEC 26	50	10 PS
1982/83	DEC 2 - JAN 20	50	10 PS	SEP 18 - SEP 22	5	4 b			
1983/84	DEC 2 - JAN 20	50	10 PS	SEP 17 - SEP 21	5	4 b	NOV 26 - JAN 14	50	10 PS
1984/85	DEC 2 - JAN 20	50	10 PS	SEP 15 - SEP 19	5	4 b	NOV 3 - NOV 7 DEC 7 - JAN 20	50 50	10 PS 10 PS

PS = Point System

a Teal only

b 4 duck mixed bag (wood duck and/or teal and/or 1 other duck species)



## DUCK HUNTING SEASONS IN TENNESSEE

YEAR	REGULAR STATEWIDE SEASON			SPECIAL EARLY SEASON			REELFOOT ZONE		
	SEASON	DAYS	BAG	SEASON	DAYS	BAG	SEASON	DAYS	BAG
1985/86	DEC 5 - JAN 13	40	5 PS	SEP 14 - SEP 18	5	4 b	NOV 2 - NOV 5 DEC 9 - JAN 13	40	5 PS
1986/87	DEC 10 - JAN 18	40	5 PS	SEP 13 - SEP 17	5	4 c	NOV 1 - NOV 4 DEC 14 - JAN 18	40	5 PS
1987/88	DEC 9 - JAN 17	40	5 PS	SEP 12 - SEP 16	5	4 c	NOV 7 - NOV 10 DEC 13 - JAN 17	40	5 PS
1988/89	DEC 10 - JAN 8	30	3	SEP 10 - SEP 14	5	2 d			
1989/90	DEC 9 - JAN 7	30	3	SEP 9 - SEP 13	5	2 d			
1990/91	DEC 8 - JAN 6	30	3	SEP 8 - SEP 12	5	2 d			
1991/92	DEC 7 - JAN 5	30	3	SEP 14 - SEP 18	5	2 d	NOV 16 - NOV 17 DEC 9 - JAN 5	30	3
1992/93	DEC 5 - DEC 7 DEC 19 - JAN 14	30	3	SEP 12 - SEP 16	5	4 e	NOV 14 - NOV 15 DEC 12 - JAN 8	30	3
1993/94	DEC 4 - DEC 7 DEC 26 - JAN 20	30	3	SEP 11 - SEP 15	5	4 e	NOV 13 - NOV 14 DEC 11 - JAN 7	30	3
1994/95	DEC 3 - DEC 7 DEC 17 - JAN 20	40	3	SEP 10 - SEP 14	5	4 e	NOV 12 - NOV 13 DEC 10 - JAN 16	40	3
1995/96	DEC 2 - DEC 24 DEC 26 - JAN 21	50	5	SEP 9 - SEP 13	5	4 e	NOV 11 - NOV 12 DEC 5 - JAN 21	50	5
1996/97	NOV 30 - DEC 24 DEC 26 - JAN 19 Youth Day - JAN 25	50 50 1	5 5 5	SEP 14 - SEP 18	5	4 e	NOV 16 - NOV 17 DEC 3 - JAN 19 Youth Day - JAN 25	50 50 1	5 5 5
1997/98	NOV 15 - NOV 16 NOV 22 - JAN 18 Youth Day - JAN 24	60 1 6	6 6 6	SEP 13 - SEP 17	5	4 e	NOV 15 - NOV 16 NOV 21 - JAN 18 Youth Day - JAN 24	60 1 6	6 6 6

PS = Point System

b 4 duck mixed bag (wood duck and/or teal and/or 1 other duck species)

c 4 duck mixed bag (wood duck and/or teal and/or 1 other duck species but no more than 2 wood ducks)

d 2 wood ducks only

e 4 duck bag (wood duck and teal only but no more than 2 wood ducks)

## DUCK HUNTING SEASONS IN TENNESSEE

YEAR	REGULAR STATEWIDE SEASON			SPECIAL EARLY SEASON			REELFOOT ZONE		
	SEASON	DAYS	BAG	SEASON	DAYS	BAG	SEASON	DAYS	BAG
1998/99 Repealed	NOV 14 - NOV 21	60	6	SEP 12 - SEP 16	5	4 e	NOV 14 - NOV 15	60	6
	NOV 27 - JAN 17						NOV 21 - JAN 17		
	Youth Day - JAN 23	1	6				Youth Day - JAN 23	1	6
1998/99 Amended	DEC 5 - DEC 11	51	6	SEP 12 - SEP 16	5	4 e	NOV 14 - NOV 15	51	6
	DEC 19 - JAN 31						NOV 21 - JAN 8		
	Youth Day - JAN 24	1	6				Youth Day - JAN 24	1	6
1999/00	DEC 4 - DEC 9	51	6	SEP 11 - SEP 15	5	4 e	NOV 20 - NOV 21	51	6
	DEC 18 - JAN 31						DEC 4 - JAN 21		
	Youth Day - FEB 5	1	6				Youth Day - FEB 5	1	6
2000/01	DEC 2 - DEC 5	51	6	SEP 9 - SEP 13	5	4 e	NOV 18 - NOV 19	51	6
	DEC 16 - JAN 31						DEC 2 - JAN 19		
	Youth Season FEB 3 - FEB 4	2	6				Youth Season FEB 3 - FEB 4	2	6
2001/02	DEC 1 - DEC 3	51	6	SEP 8 - SEP 12	5	4 e	NOV 17 - NOV 18	51	6
	DEC 15 - JAN 31						DEC 1 - JAN 18		
	Canvasback JAN 12 - JAN 31	20	1				Canvasback DEC 30 - JAN 18	20	1
2002/03	Youth Season FEB 9 - FEB 10	2	6				Youth Season FEB 9 - FEB 10	2	6
	NOV 23 - NOV 24	60	6	SEP 14 - SEP 18	5	4 e	NOV 9 - NOV 10	60	6
	NOV 30 - JAN 26						NOV 30 - JAN 26		
2003/04	Canvasback Closed	0	0				Canvasback Closed	0	0
	Pintail DEC 28 - JAN 26	30	1				Pintail DEC 28 - JAN 26	30	1
	Youth Season FEB 1 - FEB 2	2	6				Youth Season FEB 1 - FEB 2	2	6
2003/04	NOV 27 - JAN 25	60	6	SEP 13 - SEP 17	5	4 e	NOV 27 - JAN 25	60	6
	Canvasback DEC 27 - JAN 25	30	1				Canvasback DEC 27 - JAN 25	30	1
	Pintail DEC 27 - JAN 25	30	1				Pintail DEC 27 - JAN 25	30	1
	Youth Season JAN 31 - FEB 1	2	6				Youth Season JAN 31 - FEB 1	2	6

e 4 duck bag (wood duck and teal only but no more than 2 wood ducks)

f 1 female mallard

## DUCK HUNTING SEASONS IN TENNESSEE

YEAR	REGULAR STATEWIDE SEASON			SPECIAL EARLY SEASON			REELFOOT ZONE		
	SEASON	DAYS	BAG	SEASON	DAYS	BAG	SEASON	DAYS	BAG
2004/05	NOV 27 - NOV 28	60	6 f	SEP 11 - SEP 15	5	4 e	NOV 13 - NOV 14	60	6 f
	DEC 4 - JAN 30						DEC 4 - JAN 30		
	Canvasback						Canvasback		
	JAN 1 - JAN 30	30	1				JAN 1 - JAN 30	30	1
	Pintail						Pintail		
	JAN 1 - JAN 30	30	1				JAN 1 - JAN 30	30	1
2005/06	Youth Season			SEP 10 - SEP 14	5	4 e	Youth Season		
	FEB 5 - FEB 6	2	6 f				FEB 5 - FEB 6	2	6 f
	NOV 26 - NOV 27	60	6 f				NOV 12 - NOV 13	60	6 f
	DEC 3 - JAN 29						DEC 3 - JAN 29		
	Canvasback						Canvasback		
	DEC 3 - JAN 29	30	1				DEC 3 - JAN 29	30	1
Youth Season			Youth Season						
FEB 4 - FEB 5	2	6 f	FEB 4 - FEB 5	2	6 f				

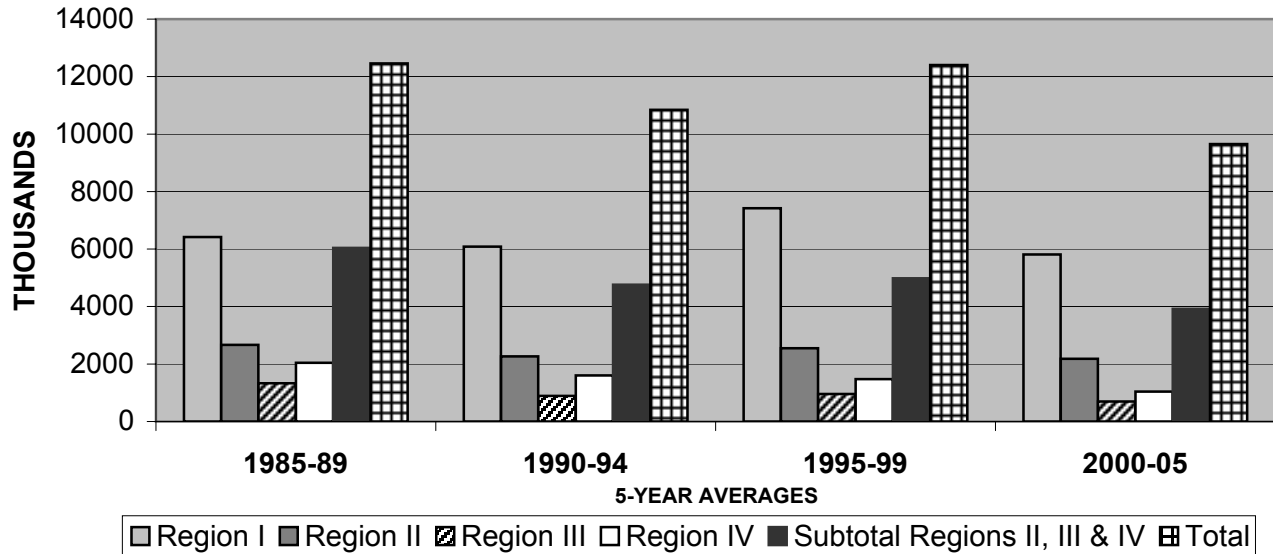
e 4 duck bag (wood duck and teal only but no more than 2 wood ducks)

f 1 female mallard

# RESIDENT WATERFOWL LICENSE SALES

1985 - 2005

Number of Type 05 Resident Waterfowl Licenses Sold



The 1985/86 thru 1998/99 data do not include license sales from the Central Office since collector sales could not be separated from hunter sales. 1998/99 sales include all type 05 licenses.

Year	Region I	Region II	Region III	Region IV	Subtotal Regions II, III & IV	Total
85/86	7064	2675	1445	2075	6195	13259
86/87	7027	2941	1539	2246	6726	13753
87/88	6413	2723	1420	2042	6185	12598
88/89	5418	2400	1137	1831	5368	10786
89/90	6156	2584	1124	2028	5736	11892
90/91	6482	2377	1021	1818	5216	11698
91/92	6101	2325	854	1579	4758	10859
92/93	5647	2128	881	1572	4581	10228
93/94	5858	2090	829	1498	4417	10275
94/95	6334	2421	867	1538	4826	11160
95/96	7401	2730	1012	1746	5488	12889
96/96	7689	2724	1038	1574	5336	13025
97/98	7289	2525	912	1459	4896	12185
98/99	7660	2407	914	1336	4657	12317
99/00	7067	2373	909	1256	4538	11605
00/01	6590	2386	864	1346	4596	11186
01/02	6744	2416	871	1284	4571	11315
02/03	5969	2148	745	1083	3976	9545
03/04	5252	2048	769	1079	3896	9148
04/05	4516	1914	241	411	2566	7082
<b>Averages:</b>						
1985-89	6415.6	2664.6	1333.0	2044.4	6042.0	12457.6
1990-94	6084.4	2268.2	890.4	1601.0	4759.6	10844.0
1995-99	7421.2	2551.8	957.0	1474.2	4983.0	12404.2
2000-05	5814.2	2182.4	698.0	1040.6	3921.0	9655.2
<b>Total average:</b>						
1985-05	6433.9	2416.8	969.6	1540.1	4926.4	11340.3

# TENNESSEE, MISSISSIPPI FLYWAY, U.S. AND CANADA DUCK HARVESTS 1961-2005

## TENNESSEE DUCK HARVEST, HUNTER PARTICIPATION AND SUCCESS RATES

YEAR	DUCK STAMP SALES	ACTIVE ADULT HUNTER	HUNTER TRIPS	TRIPS/HUNTER	HARVEST	HARVEST/TRIP	SEASON HARVEST/HUNTER	MISS FLYWAY HARVEST	TOTAL US HARVEST	TOTAL CANADA HARVEST	US CANADA HARVEST
1961	15,020	12,600	75,600	5.99	47,700	0.61	3.68	1,746,500	5,338,700	N.D.	N.D.
1962	8,066	6,600	36,400	5.49	14,900	0.33	1.83	1,129,200	4,246,900	N.D.	N.D.
1963	15,261	12,400	75,000	6.05	69,900	0.95	5.76	2,505,500	7,244,800	N.D.	N.D.
1964	21,598	18,900	123,900	6.56	96,300	0.85	5.56	3,536,900	8,368,200	N.D.	N.D.
1965	16,731	14,400	105,700	7.33	57,400	0.67	4.90	3,311,600	8,326,300	N.D.	N.D.
1966	23,909	21,100	159,400	7.57	113,600	0.89	6.75	4,721,200	11,651,700	N.D.	N.D.
1967	25,027	21,700	152,600	7.02	98,900	0.80	5.64	4,506,500	12,303,500	N.D.	N.D.
1968	21,880	19,400	121,400	6.25	55,900	0.55	3.45	2,383,600	8,073,000	2,715,500	10,788,500
1969	23,104	20,200	136,700	6.76	55,400	0.42	2.83	4,278,200	12,590,800	3,668,100	16,258,900
1970	28,123	25,000	222,100	8.89	158,700	0.92	8.16	6,175,500	15,466,500	4,190,000	19,656,500
1971	33,677	29,300	260,100	8.88	180,800	0.90	7.96	5,207,000	13,679,600	3,504,000	17,183,600
1972	27,367	23,600	191,900	8.12	141,300	0.82	6.64	4,836,300	13,321,100	3,444,000	16,765,100
1973	32,119	27,200	244,900	8.99	199,000	0.89	8.01	4,421,300	11,637,700	3,355,400	14,993,100
1974	34,844	29,500	272,500	9.24	141,700	0.92	8.52	5,058,500	12,553,300	3,854,900	16,408,200
1975	26,613	23,600	221,600	9.39	146,300	1.02	9.61	6,387,700	15,134,000	3,921,300	19,055,300
1976	26,854	22,700	244,000	10.77	102,700	0.79	8.54	5,843,400	14,875,800	4,212,600	19,088,400
1977	29,575	25,600	230,200	8.97	136,000	1.09	9.81	5,794,300	13,205,500	3,728,700	16,934,200
1978	29,213	25,000	283,200	11.31	156,000	0.88	9.93	6,115,100	15,017,300	3,522,100	18,539,400
1979	26,992	24,000	249,900	10.40	183,700	0.95	9.87	6,197,200	14,109,900	3,448,600	17,558,500
1980	24,399	21,000	206,300	9.81	141,700	1.02	10.01	5,712,100	12,972,500	3,403,100	16,375,600
1981	24,063	20,700	220,200	10.64	134,400	0.91	9.70	5,286,200	11,907,900	2,958,800	14,866,700
1982	23,257	20,500	229,600	11.20	135,900	0.81	9.11	4,715,100	11,445,400	2,904,400	14,349,800
1983	22,707	20,300	222,800	10.98	163,200	1.07	11.71	5,580,800	12,468,000	3,079,500	15,547,500
1984	22,805	19,600	203,300	10.35	132,100	0.78	8.06	5,526,100	12,122,700	2,688,100	14,810,800
1985	22,024	19,200	167,800	8.75	103,000	0.77	6.74	3,965,800	9,145,800	2,501,800	11,647,600
1986	21,730	19,000	184,800	9.75	101,500	0.74	7.22	3,982,300	9,159,100	2,421,100	11,580,200
1987	22,194	19,000	174,700	9.20	117,000	0.64	5.88	3,605,100	8,839,700	2,339,800	11,179,500
1988	19,228	16,900	149,700	8.86	89,413	0.57	6.25	1,918,400	4,989,300	1,910,500	6,899,800
1989	21,421	18,500	165,700	8.95	102,400	0.81	7.24	2,597,200	6,217,800	2,000,800	8,218,600
1990	22,349	20,100	206,600	10.29	135,200	0.73	7.52	2,615,300	6,165,900	1,985,100	8,151,000
1991	20,584	18,400	190,800	10.39	116,559	0.72	7.48	2,858,539	6,237,647	1,639,800	7,877,447
1992	20,456	18,400	176,800	9.61	109,916	0.77	7.44	3,062,965	6,506,680	1,527,938	8,034,618
1993	20,889	18,671	206,135	11.04	139,660	0.89	9.84	3,093,127	6,999,688	1,534,240	8,533,928
1994	22,949	20,612	224,645	10.90	123,622	0.84	9.13	4,059,734	8,635,690	1,565,681	10,201,371
1995	25,555	23,187	299,524	12.07	274,033	1.23	14.89	6,580,870	12,921,094	1,577,686	14,498,780
1996	27,234	24,637	349,247	13.25	255,689	1.24	16.46	6,786,872	13,786,637	1,544,585	15,331,222
1997	31,469	27,709	414,349	13.98	402,937	1.18	16.45	7,814,701	15,856,016	1,627,877	17,483,893
1998	29,335	26,589	369,067	12.97	416,069	1.40	18.15	8,004,849	16,890,129	1,542,156	18,432,285
1999	29,884	27,227	419,166	14.39	349,520	1.24	17.84	8,332,951	15,881,225	1,496,244	17,377,469
2000	33,666	30,221	426,195	13.17	413,425	1.41	18.60	7,877,163	15,326,485	1,436,784	16,763,269
2001*	37,431	33,179	453,034	12.77	303,233	1.11	14.13	6,630,916	13,933,728	1,262,585	15,196,313
2002	35,904	22,500	242,500	10.78	298,419	1.29	13.90	5,825,124	12,480,825	1,230,008	13,710,833
2003	35,492	28,500	179,100	6.28	258,188	1.54	9.70	6,408,714	12,850,732	1,141,735	13,992,467
2004	34,730	21,500	210,700	9.80	340,678	1.71	16.80	5,353,315	12,041,400	1,118,345	13,159,745
2005	30,486	13,100	103,900	7.93	178,871	1.81	14.30	5,150,355	12,241,724	1,188,700	13,430,424
<b>Averages:</b>											
61-65	15,335	12,980	83,320	6.28	57,240	0.68	4.35	2,445,940	6,704,980	N.D.	N.D.
66-70	24,409	21,480	158,440	7.30	96,500	0.72	5.37	4,413,000	12,017,100	3,524,533	15,541,633
71-75	30,924	26,640	238,200	8.92	161,820	0.91	8.15	5,182,160	13,265,140	3,615,920	16,881,060
76-80	27,407	23,660	242,720	10.25	144,020	0.95	9.63	5,932,420	14,036,200	3,663,020	17,699,220
81-85	22,971	20,060	208,740	10.38	133,720	0.87	9.06	5,014,800	11,417,960	2,826,520	14,244,480
86-90	21,384	18,700	176,300	9.41	109,103	0.70	6.59	2,943,660	7,074,360	2,131,460	9,205,820
91-95	22,087	19,854	219,581	10.80	152,758	0.89	9.76	3,931,047	8,260,160	1,569,069	9,829,229
96-00	30,318	27,277	395,605	13.55	367,528	1.29	17.50	7,763,307	15,548,098	1,529,529	17,077,628
01-05	34,809	23,756	237,847	9.51	275,878	1.49	13.77	5,873,685	12,709,682	1,188,275	13,897,956

Data compiled from USFWS harvest surveys, CWS harvest surveys, K. Gamble & J. Peterson 2001, and Fronczak 2005.

\* Preliminary

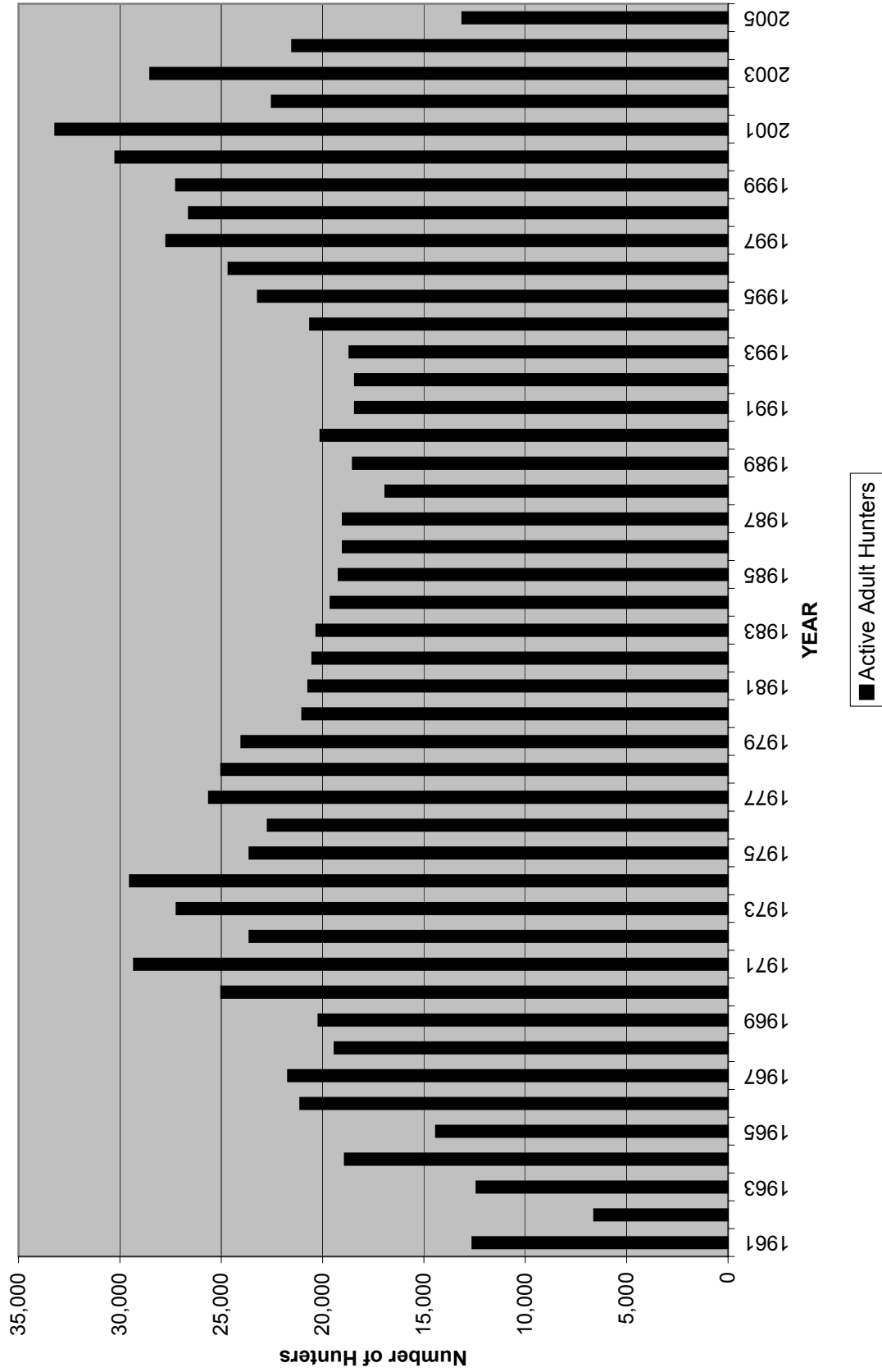
\*\* Includes harvest for all seasons (September/Early and Regular/Late)

\*\*\* 1968-71 estimates are not comparable with estimates in subsequent years because different survey procedures were used.

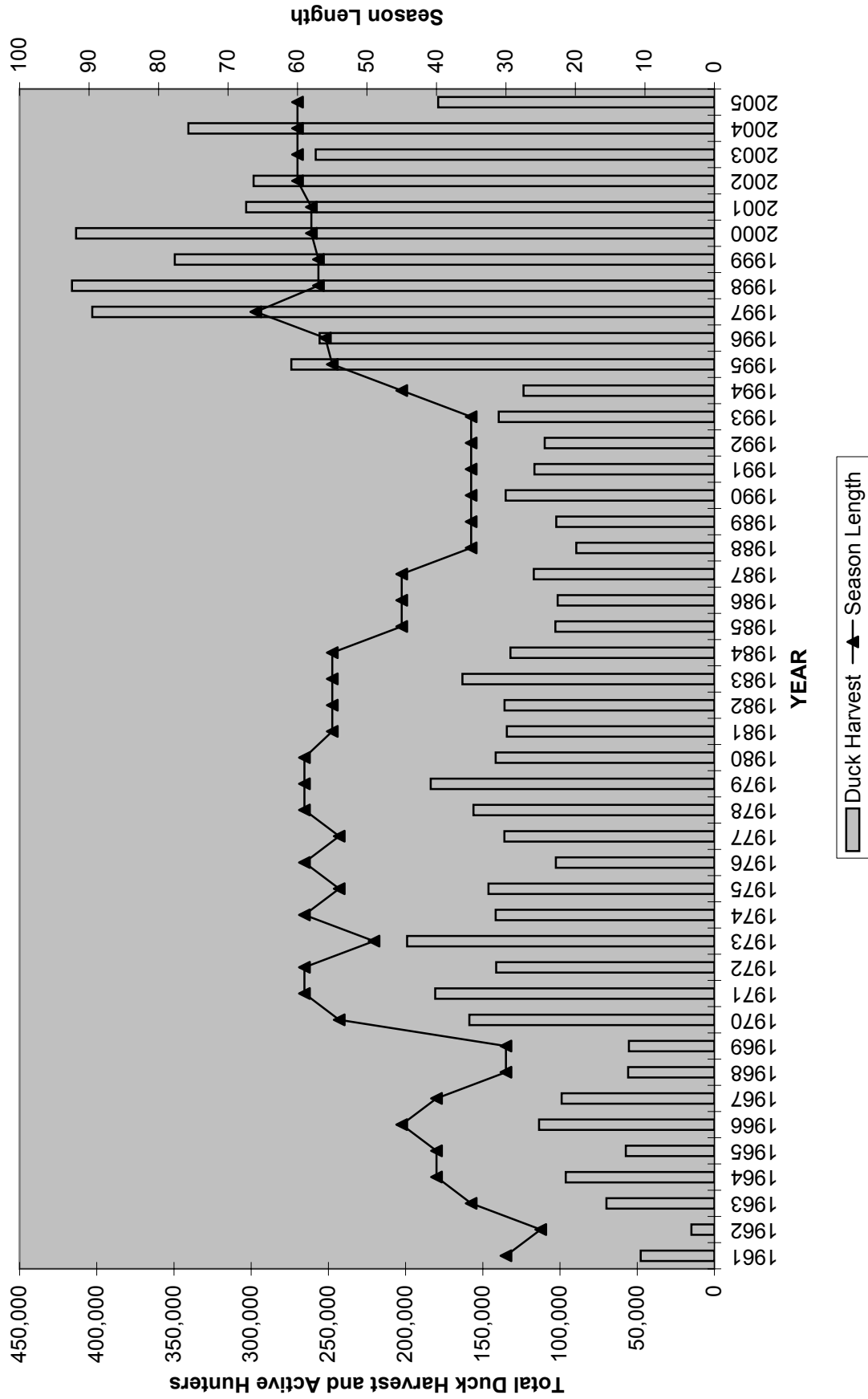
\*\*\*\* 2002-2005 data were derived using HIP data resulting in some differences

N.D. - No Data

# Active Adult Hunters



# TENNESSEE DUCK HARVEST 1961-2005







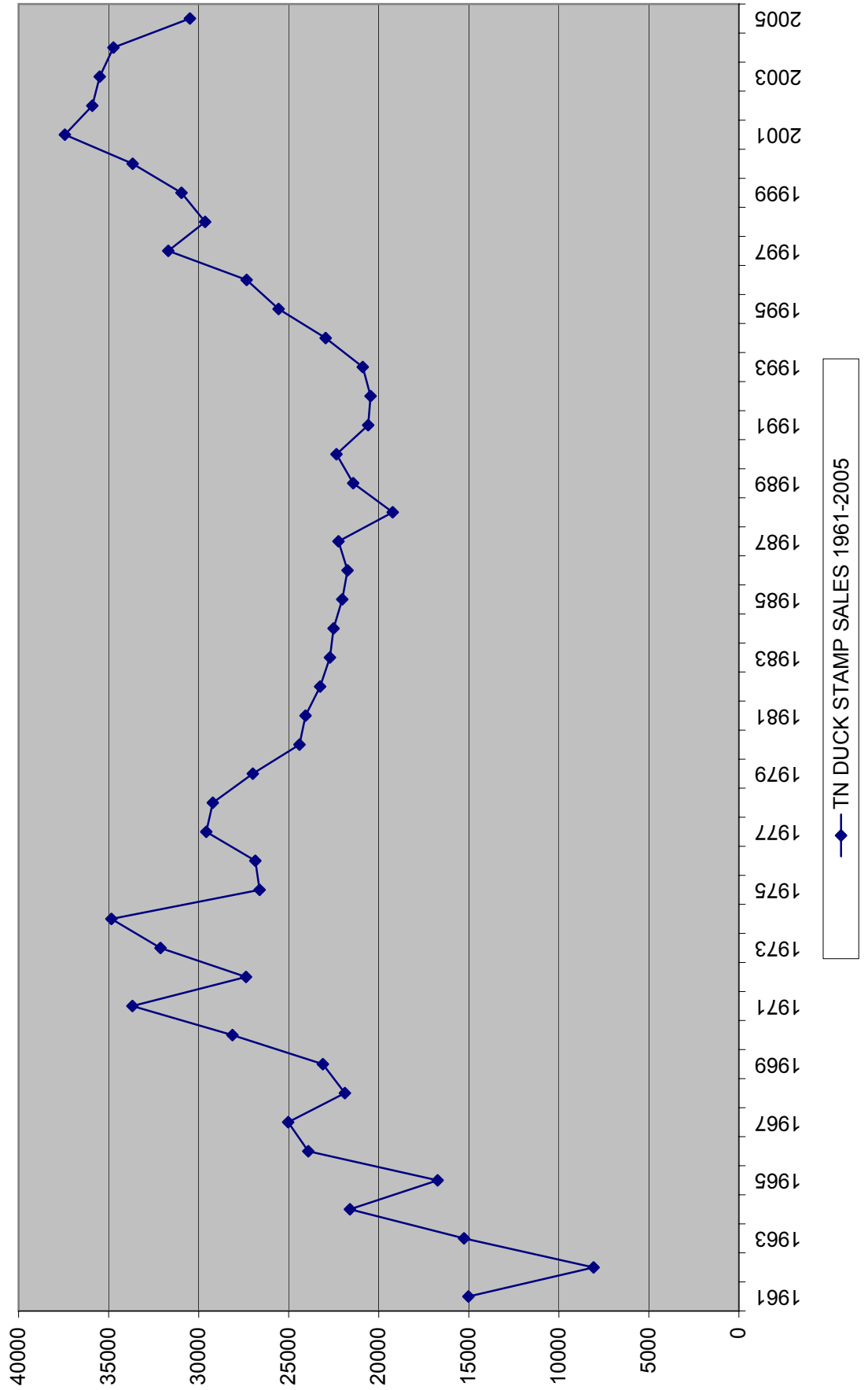
DUCK STAMP SALES IN THE MISSISSIPPI FLYWAY

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MF TOTAL
1961	85,251	89,848	64,628	41,147	63,435	20,862	24,853	39,118	6,337	19,037	15,020	44,732	7,128	5,749	527,145
1962	78,071	73,141	49,610	30,602	42,256	15,965	20,057	27,016	4,488	9,549	8,066	39,766	7,102	6,292	411,981
1963	111,844	94,213	70,094	37,166	53,125	16,831	5,725	18,352	15,261	18,352	15,261	66,556	13,292	11,369	571,667
1964	128,764	104,522	79,268	37,668	53,229	16,945	23,182	38,392	7,146	34,838	21,598	86,162	16,221	13,846	663,791
1965	125,752	105,767	75,348	39,941	56,425	17,188	26,065	36,905	7,040	21,969	16,731	81,322	13,326	12,691	636,470
1966	151,415	108,833	84,967	47,438	66,180	19,880	31,176	41,033	8,445	35,625	23,909	105,388	15,865	15,865	788,768
1967	157,937	110,479	95,187	52,269	75,430	22,579	30,160	51,879	9,201	38,517	25,027	108,682	20,065	16,370	813,797
1968	140,934	105,114	88,742	45,753	59,403	22,048	28,911	42,268	7,545	27,879	21,880	90,278	17,053	13,937	711,745
1969	144,562	122,291	101,562	54,807	69,706	25,036	35,841	50,487	7,801	34,211	23,104	105,274	21,358	14,498	810,588
1970	173,877	151,524	131,404	65,822	83,982	29,352	43,508	58,452	10,608	56,108	28,123	129,046	26,526	16,933	1,005,265
1971	179,624	160,435	111,785	68,401	82,706	32,769	45,564	59,435	11,390	55,656	33,677	120,165	28,702	12,909	1,003,218
1972	155,928	138,045	100,853	57,907	81,062	24,336	38,481	59,203	10,435	50,861	27,367	109,988	23,323	14,985	822,774
1973	125,654	121,524	103,886	57,196	77,699	25,398	36,994	53,209	10,576	46,924	32,119	99,511	23,462	12,759	826,911
1974	146,074	134,389	104,805	60,446	80,002	26,280	40,064	58,377	12,112	53,882	34,844	103,168	25,037	12,537	892,017
1975	163,716	146,925	103,893	58,791	66,251	24,026	41,819	59,105	13,066	58,275	26,613	110,006	30,618	13,630	916,734
1976	125,037	137,575	84,745	55,449	66,655	15,939	41,823	59,601	14,189	59,284	26,854	122,861	29,383	15,529	854,924
1977	150,805	142,536	72,096	57,143	66,065	15,215	38,412	61,325	14,905	54,919	29,575	122,349	30,282	16,437	872,064
1978	155,387	118,107	65,055	56,259	67,805	15,364	39,483	60,718	16,036	56,892	29,213	125,301	27,164	16,072	848,856
1979	159,068	105,038	62,187	49,845	66,582	15,757	37,833	51,755	15,506	51,801	26,932	126,915	26,784	11,988	808,051
1980	158,311	109,425	56,495	47,008	63,024	15,073	37,914	46,097	14,281	50,508	24,399	127,351	25,887	11,463	787,236
1981	142,345	98,798	49,261	41,648	60,960	14,965	36,628	46,810	13,834	41,352	24,063	118,399	24,180	11,131	724,334
1982	142,027	93,047	49,358	40,599	56,620	14,509	30,160	46,031	13,067	41,368	23,257	126,142	22,480	11,258	709,923
1983	136,165	89,731	49,890	40,381	53,826	13,867	42,760	42,884	12,884	36,755	22,707	124,599	23,212	11,163	686,016
1984	142,355	89,287	52,769	41,078	56,839	14,529	29,966	44,299	13,667	39,221	22,805	121,529	23,306	11,509	703,159
1985	134,594	87,143	52,517	33,304	51,771	13,606	29,419	41,360	11,879	38,930	22,024	104,505	19,096	11,046	651,194
1986	139,391	93,596	55,095	33,504	55,999	15,302	29,807	40,542	12,992	39,050	21,730	105,022	20,180	11,554	673,764
1987	125,962	85,644	54,801	30,660	55,288	14,655	27,360	37,651	12,013	35,379	22,232	95,075	16,196	10,700	623,596
1988	97,873	70,838	47,515	22,008	50,866	12,599	27,154	29,348	11,908	28,892	19,228	66,501	13,494	10,074	508,198
1989	105,205	81,569	50,955	21,895	51,977	14,964	27,007	30,483	13,141	27,409	21,421	65,286	14,243	10,702	534,007
1990	104,369	95,455	52,053	24,686	54,470	13,626	26,972	29,152	12,977	31,451	22,349	66,892	13,351	9,747	557,548
1991	110,197	90,549	51,013	24,989	52,436	13,915	25,887	28,439	12,782	33,491	20,584	64,845	12,242	9,319	550,688
1992	108,332	77,810	55,061	26,744	55,360	14,215	29,811	29,350	12,271	34,292	20,456	67,783	13,523	9,388	554,396
1993	110,738	81,045	61,789	25,639	53,000	14,656	31,785	28,190	11,979	38,305	20,889	69,843	13,360	9,319	570,537
1994	135,548	91,460	67,786	29,206	54,071	17,447	30,605	28,630	13,153	44,383	22,949	75,086	14,748	10,055	635,327
1995	140,353	90,031	72,036	30,791	58,415	17,898	31,880	32,760	13,593	50,180	25,561	91,705	18,433	11,635	694,671
1996	139,403	84,584	71,531	31,567	58,605	18,801	32,100	33,674	13,834	55,646	27,332	95,969	20,039	12,815	685,870
1997	147,394	84,401	75,613	36,905	67,028	20,644	33,803	39,472	14,727	60,687	31,687	104,657	21,642	13,620	752,280
1998	144,938	78,218	74,337	31,688	56,283	24,406	38,346	33,979	16,893	59,309	29,637	106,338	24,424	15,046	733,842
1999	149,911	75,415	71,140	34,981	55,915	25,239	35,791	38,883	18,277	62,301	30,954	106,879	24,286	16,652	746,624
2000	141,340	76,393	69,410	30,951	60,720	26,224	32,705	40,351	18,874	67,023	33,666	103,763	28,718	16,955	747,093
2001	140,803	73,098	68,350	32,090	56,222	28,260	34,057	41,657	19,749	66,351	37,431	98,666	25,361	17,292	739,387
2002	144,851	72,445	65,334	30,806	52,891	29,023	30,957	39,484	18,078	61,854	35,904	96,092	24,955	16,420	719,094
2003	139,667	71,104	60,450	30,206	52,695	28,767	38,759	38,759	18,524	59,065	35,492	96,280	23,589	16,585	704,978
2004*	133,883	68,032	61,712	28,649	52,743	21,006	28,070	37,779	16,613	56,039	34,730	77,271	22,293	15,080	653,880
2005*	119,075	53,915	62,782	25,708	51,285	21,651	29,467	36,193	16,477	50,387	30,486	76,851	20,391	15,591	610,259
AVERAGES:															
61-65	105,936	93,498	67,790	37,305	53,694	17,558	23,997	35,090	6,147	20,749	15,335	63,708	11,414	9,989	562,211
66-70	153,745	119,648	100,372	53,218	70,940	23,779	30,582	48,824	8,730	38,468	24,409	107,736	20,721	15,521	820,033
71-75	154,199	140,264	105,044	60,548	77,544	26,562	40,564	57,866	11,516	53,120	30,924	108,568	26,228	13,364	906,331
76-80	149,722	122,536	68,116	53,141	66,026	15,470	39,093	55,899	14,983	54,681	27,407	124,955	27,900	14,298	834,226
81-85	139,497	91,593	50,759	39,402	56,003	14,295	30,830	44,252	13,066	39,525	22,971	119,055	22,455	11,221	694,925
86-90	114,560	85,420	52,084	26,551	53,720	13,775	27,660	33,435	12,886	32,436	21,392	79,755	15,493	10,555	579,423
91-95	121,034	86,179	61,537	27,474	54,656	15,626	29,994	29,514	12,756	40,130	22,088	73,732	14,461	9,943	599,124
96-00	144,597	79,796	72,406	33,218	59,710	23,063	34,549	37,272	16,521	60,993	30,655	103,521	23,822	15,018	735,142
01-05	135,656	67,719	63,726	29,492	53,167	25,741	31,269	38,774	17,888	58,739	34,809	89,032	23,318	16,190	685,520

\*Preliminary

DF 07/13/06

# TN DUCK STAMP SALES 1961-2005



ESTIMATES OF ACTIVE DUCK HUNTERS IN THE MISSISSIPPI FLYWAY\* (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL
1999	96,400	70,900	44,300	21,500	33,800	14,700	21,700	28,100	18,100	72,800	38,100	86,300	15,100	14,200
2000	88,900	65,800	46,000	21,500	33,700	13,200	28,100	26,900	20,400	80,100	27,200	70,700	17,000	14,100
2001**	91,300	62,100	27,900	25,000	33,500	18,100	19,700	33,100	22,800	87,000	26,600	55,400	15,500	14,200
2002**	87,500	70,500	39,700	23,300	33,500	16,700	25,400	21,800	15,000	81,700	22,500	57,600	14,500	14,800
2003**	87,900	69,600	50,900	22,500	33,400	14,500	23,000	33,000	16,600	72,300	28,500	65,800	12,400	12,400
2004**	89,600	67,400	43,100	20,400	37,300	13,000	21,500	28,500	12,100	67,800	21,500	52,200	19,200	12,400
2005**	71,000	56,100	40,900	17,300	31,600	13,300	20,300	28,700	15,700	64,900	13,100	48,400	18,200	10,200
AVERAGES:														
99-00	92,650	68,350	45,150	21,500	33,750	13,950	24,900	27,500	19,250	76,450	32,650	78,500	16,050	14,150
01-05	85,460	65,140	40,500	21,700	33,860	15,120	21,980	29,020	16,440	74,740	22,440	55,880	15,960	12,800

\* - Estimates for the entire flyway are not possible because of HIP certification in multiple states.

\*\* - Preliminary

DF 07/13/06

ESTIMATES OF DAYS HUNTED BY ACTIVE DUCK HUNTERS IN THE MISSISSIPPI FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MF TOTAL
1999	633,700	425,700	264,100	173,000	329,700	103,500	148,400	215,500	192,000	643,600	304,400	697,900	121,800	108,200	4,361,600
2000	594,000	407,500	275,400	165,900	284,900	101,900	203,000	220,100	166,500	675,000	193,100	667,500	124,100	143,700	4,222,700
2001*	572,700	422,000	157,400	203,500	335,000	114,400	161,700	294,400	234,100	722,500	281,400	505,800	142,300	117,800	4,265,000
2002*	599,800	462,800	269,000	185,700	302,300	121,600	189,600	156,500	158,000	682,100	242,500	421,100	112,000	101,600	4,004,600
2003*	548,300	468,200	292,000	187,100	330,100	113,100	146,500	238,900	148,000	595,500	179,100	581,300	101,700	103,600	4,033,400
2004*	595,600	447,100	270,600	203,000	314,100	102,000	134,600	213,600	151,200	538,000	210,700	449,500	130,600	96,600	3,857,300
2005*	404,100	393,900	225,200	128,900	260,900	100,100	122,700	221,700	138,600	462,700	103,900	333,000	118,200	61,800	3,075,500
AVERAGES:															
99-00	613,850	416,600	269,750	169,450	307,300	102,700	175,700	217,800	179,250	659,300	248,750	682,700	122,950	125,950	4,292,150
01-05	544,100	438,800	242,840	181,640	308,480	110,240	151,020	225,020	165,980	600,160	203,520	458,140	120,960	96,280	3,847,160

\* - Preliminary

DF 07/13/06

AVERAGE DAYS PER ACTIVE DUCK HUNTER IN THE MISSISSIPPI FLYWAY\* (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL
1999	6.57	6.00	5.96	8.05	9.75	7.04	6.84	7.67	10.61	8.84	7.99	8.09	8.07	7.62
2000	6.68	6.19	5.99	7.72	8.45	7.72	7.22	8.18	8.16	8.43	7.10	9.44	7.30	10.19
2001**	6.27	6.80	5.64	8.14	10.00	6.32	8.21	8.89	10.27	8.30	10.58	9.13	9.18	8.30
2002**	6.85	6.56	6.78	7.97	9.02	7.28	7.46	7.18	10.53	8.35	10.78	7.31	7.72	6.86
2003**	6.24	6.73	5.74	8.32	9.88	7.80	6.37	7.24	8.92	8.24	6.28	8.83	8.20	8.35
2004**	6.65	6.63	6.28	9.95	8.42	7.85	6.26	7.49	12.50	7.94	9.80	8.61	6.80	7.79
2005**	5.69	7.02	5.51	7.45	8.26	7.53	6.04	7.72	8.83	7.13	7.93	6.88	6.49	6.06
AVERAGES:														
99-00	6.63	6.10	5.97	7.88	9.10	7.38	7.03	7.93	9.38	8.63	7.54	8.76	7.68	8.91
01-05	6.34	6.75	5.99	8.37	9.12	7.35	6.87	7.71	10.21	7.99	9.07	8.15	7.68	7.47

\* - Estimates for the entire flyway are not possible because of HIP certification in multiple states.

DF 07/13/06

\*\* - Preliminary

AVERAGE SEASONAL DUCK BAG PER ACTIVE DUCK HUNTER IN THE MISSISSIPPI FLYWAY\*  
(HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL
1999	8.6	6.4	7.1	9.8	11.1	7.0	6.0	14.3	11.2	25.4	13.8	24.9	24.4	14.0
2000	9.3	6.7	6.5	10.2	12.9	9.0	6.4	16.1	14.5	22.2	14.2	29.1	18.1	24.0
2001**	9.4	6.0	6.8	11.9	11.9	6.6	7.4	16.9	8.9	16.2	15.3	21.6	17.9	13.8
2002**	10.8	7.5	10.5	12.3	10.8	8.3	7.6	10.5	9.6	13.9	13.9	14.3	17.0	14.1
2003**	10.1	9.7	7.2	11.0	14.1	8.6	7.1	14.3	12.5	15.6	9.7	20.4	19.4	12.2
2004**	7.6	6.4	7.7	9.0	8.6	8.2	6.6	11.5	16.3	16.6	16.8	15.7	15.1	14.4
2005**	7.5	6.7	7.0	11.8	12.0	9.8	6.1	16.2	11.9	16.6	14.3	18.1	16.7	13.4
AVERAGES:														
99-00	9.0	6.6	6.8	10.0	12.0	8.0	6.2	15.2	12.9	23.8	14.0	27.0	21.3	19.0
01-05	9.5	7.4	8.1	11.1	11.4	7.9	7.2	13.3	11.8	15.6	13.9	18.0	17.4	13.6

\* - Estimates for the entire flyway are not possible because of HIP certification in multiple states.

DF 07/13/06

\*\* - Preliminary

AVERAGE DAILY DUCK BAG PER ACTIVE DUCK HUNTER IN THE MISSISSIPPI FLYWAY  
(HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MF	AVG
1999	1.31	1.07	1.19	1.21	1.14	0.99	0.87	1.86	1.05	2.87	1.73	3.08	3.02	1.83	1.86	
2000	1.39	1.08	1.09	1.33	1.52	1.16	0.89	1.96	1.77	2.64	2.00	3.08	2.48	2.35	1.92	
2001*	1.49	0.88	1.21	1.46	1.19	1.04	0.90	1.90	0.86	1.95	1.44	2.36	1.95	1.66	1.55	
2002*	1.57	1.14	1.55	1.55	1.20	1.13	1.02	1.47	0.92	1.67	1.29	1.95	2.20	2.06	1.49	
2003*	1.61	1.45	1.26	1.33	1.43	1.11	1.10	1.98	1.40	1.90	1.54	2.31	2.37	1.47	1.68	
2004*	1.15	0.96	1.23	0.91	1.02	1.05	1.05	1.54	1.31	2.10	1.71	1.83	2.22	1.86	1.43	
2005*	1.32	0.95	1.26	1.59	1.46	1.31	1.01	2.10	1.35	2.33	1.81	2.64	2.57	2.21	1.71	
AVERAGES:																
99-00	1.35	1.07	1.14	1.27	1.33	1.08	0.88	1.91	1.41	2.75	1.87	3.08	2.75	2.09	1.89	
01-05	1.43	1.08	1.30	1.37	1.26	1.13	1.02	1.80	1.17	1.99	1.56	2.22	2.26	1.85	1.57	

\*-Preliminary

DF 07/13/06

RANKING OF THE FIVE MOST NUMERICALLY IMPORTANT SPECIES IN MISSISSIPPI FLYWAY  
 REGULAR-SEASON DUCK HARVESTS DURING 1999-2005 (HARVEST INFORMATION PROGRAM).

Year	Rank Position*					Percent of Total Harvest	
	1	2	3	4	5	Mallard	Combined
1999	Mallard	Gadwall	Wood Dk	GW Teal	BW Teal	33	73
2000	Mallard	Gadwall	Wood Dk	BW Teal	GW Teal	34	71
2001**	Mallard	Gadwall	BW Teal	Wood Dk	GW Teal	44	85
2002**	Mallard	Wood Dk	Gadwall	GW Teal	BW Teal	42	80
2003**	Mallard	Gadwall	Wood Dk	GW Teal	BW Teal	38	82
2004**	Mallard	Wood Dk	Gadwall	GW Teal	BW Teal	40	81
2005**	Mallard	Wood Dk	Gadwall	GW Teal	BW Teal	39	79
Average						39	79
Range						33-44	71-85
<p>* Among the various rank positions, the species shown below under each position occurred in that position the indicated number of years during the 5-year period:</p>							
1	2	3	4	5			
Mallard -7	Gadwall -4 Wood Dk -3	BW Teal -1 Gadwall -3 Wood Dk -3	Wood Dk -1 BW Teal -1 GW Teal -5	BW Teal -5 GW Teal -2			

\*\* - Preliminary

DF 07/13/06



ESTIMATES OF REGULAR-SEASON ALL-DUCK HARVESTS IN THE MISSISSIPPI FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MFTOTAL
1999	831,600	456,000	314,300	209,900	350,399	93,639	114,913	348,230	172,886	1,800,828	484,907	1,908,303	354,179	159,781	7,599,864
2000	824,800	439,600	300,700	220,200	408,779	112,763	161,041	404,034	262,622	1,741,994	341,668	1,785,194	299,524	307,675	7,610,595
2001*	855,399	369,900	190,700	296,400	380,934	115,850	132,048	515,116	182,235	1,394,478	378,167	1,042,888	272,190	183,131	6,309,436
2002*	944,601	529,500	416,601	287,200	357,266	136,359	182,435	217,321	124,306	1,127,025	298,419	755,887	243,922	204,282	5,825,124
2003*	884,499	677,400	367,101	248,900	455,939	120,821	154,424	433,660	198,287	1,089,776	258,188	1,139,505	230,241	149,973	6,408,714
2004*	683,599	429,900	333,000	184,500	313,012	105,720	133,780	322,733	183,420	1,111,155	340,678	749,680	288,793	173,346	5,353,315
2005*	531,499	375,100	284,399	205,200	368,034	124,941	116,134	447,707	177,433	1,056,603	178,871	849,642	302,892	131,899	5,150,355
AVERAGES:															
99-00	828,200	447,800	307,500	215,050	379,589	103,201	137,977	376,132	217,754	1,771,411	413,287	1,846,749	326,852	233,728	7,605,229
01-05	779,920	476,360	318,360	244,440	375,037	120,738	143,764	387,307	173,136	1,155,807	290,865	907,520	267,608	168,526	5,809,389

\* - Preliminary

DF 07/14/06

ESTIMATES OF REGULAR-SEASON ALL-DUCK HARVESTS IN THE UNITED STATES  
(HARVEST INFORMATION PROGRAM)

YEAR	AF	MF	CF	P F			US TOTAL
				LWR STS	AK	TOTAL	
1999	1,830,073	7,599,865	2,429,356	2,972,506	77,400	3,049,906	15,453,063
2000	1,791,872	7,610,594	2,595,145	2,554,809	77,800	2,632,609	15,149,686
2001*	1,648,319	6,309,436	2,999,751	2,341,178	79,000	2,420,178	13,377,684
2002*	1,814,247	5,825,124	2,484,040	2,282,713	74,700	2,357,414	12,480,825
2003*	1,608,122	6,408,714	2,329,512	2,433,183	71,200	2,504,383	12,850,732
2004*	1,407,671	5,353,315	2,559,866	2,657,548	63,000	2,720,548	12,041,400
2005*	1,590,963	5,150,355	2,596,749	2,829,157	74,500	2,903,657	12,241,724
AVERAGES:							
99-00	1,810,973	7,605,230	2,512,251	2,763,658	77,600	2,841,258	15,301,375
01-05	1,613,864	5,809,389	2,593,983	2,508,756	72,480	2,581,236	12,598,473

\* - Preliminary

DF 07/13/06

ESTIMATES OF ALL-DUCK HARVESTS IN CANADA

YEAR	NFL	PEI	NS	NB	QUE	ONT	MAN	SAS	ALB	BC	NWT	YUK	NUV	CAN TOTAL
1968*	44,300	19,400	54,800	59,600	333,300	794,000	295,700	292,700	459,100	362,600				2,715,500
1969*	62,700	25,300	50,100	62,900	465,700	928,100	467,300	557,700	778,200	270,100				3,668,100
1970*	66,500	28,900	59,200	61,000	464,900	872,300	518,100	930,500	904,700	283,900				4,190,000
1971*	53,300	30,500	71,100	56,600	454,500	739,000	332,200	690,200	848,000	228,600				3,504,000
1972	56,200	18,200	55,700	51,100	414,900	815,700	356,200	615,100	800,200	260,700				3,444,000
1973	111,500	18,000	117,400	51,900	493,100	752,700	291,900	471,900	831,600	255,400				3,355,400
1974	103,800	31,400	105,500	58,700	569,500	811,500	249,600	699,700	1,014,300	210,900				3,854,900
1975	101,700	28,400	118,000	59,100	467,900	938,300	299,200	807,300	850,700	236,200	9,500	5,000		3,921,300
1976	98,400	37,400	117,900	68,600	602,900	976,400	352,300	807,800	886,600	231,200	29,200	3,900		4,212,600
1977	132,900	30,200	134,500	53,800	631,200	913,300	259,400	508,800	781,100	259,600	20,800	3,100		3,728,700
1978	142,700	30,000	109,500	65,800	529,100	943,200	361,200	527,300	581,700	210,500	18,100	3,000		3,522,100
1979	122,200	20,900	88,400	49,100	460,400	845,400	383,400	582,700	679,300	204,400	9,400	3,000		3,448,600
1980	106,000	31,900	124,700	59,900	500,200	912,100	335,100	443,600	688,800	186,300	11,500	3,000		3,403,100
1981	114,400	26,200	113,600	59,000	507,900	850,100	293,900	273,300	525,600	188,300	5,000	1,500		2,958,800
1982	111,500	39,600	87,700	60,600	512,500	862,000	280,900	324,100	458,200	163,100	3,100	1,100		2,904,400
1983	119,500	36,100	117,300	72,900	454,000	888,400	284,400	381,700	515,700	193,500	13,000	3,000		3,079,500
1984	115,500	35,000	95,600	68,900	439,800	832,800	215,300	258,300	438,500	173,700	11,500	3,200		2,688,100
1985	110,300	31,100	92,300	69,600	494,900	871,500	174,500	210,900	282,800	145,400	15,500	3,000		2,501,800
1986	124,300	29,600	99,800	71,000	434,100	821,000	207,800	226,500	273,600	124,300	5,400	2,900		2,421,100
1987	59,200	28,700	86,100	59,900	468,900	772,400	213,200	207,200	305,300	133,000	4,400	1,500		2,339,800
1988	83,800	34,300	84,800	63,600	446,900	661,300	126,000	104,800	183,100	115,500	5,100	1,300		1,910,500
1989	92,700	21,600	120,700	64,400	433,800	682,800	121,000	104,100	254,800	102,900	1,200	800		2,000,800
1990	91,500	20,100	104,000	70,500	456,300	684,500	111,800	115,700	231,900	96,200	2,100	500		1,985,100
1991	55,800	28,500	76,700	47,600	357,400	618,000	106,700	102,800	164,600	79,800	800	1,100		1,639,800
1992	63,490	14,995	90,203	52,749	345,468	539,960	119,146	90,093	129,381	80,352	1,237	864		1,527,938
1993	63,384	21,069	90,346	49,239	385,095	564,701	91,892	76,017	119,744	69,688	1,746	1,319		1,534,240
1994	78,453	17,530	87,322	51,273	342,554	502,989	113,788	128,611	163,664	76,716	1,999	882		1,565,681
1995	67,360	27,892	93,199	74,272	298,999	512,934	135,147	149,321	152,792	62,222	2,156	1,392		1,577,686
1996	56,532	19,257	79,992	56,202	255,647	460,414	168,503	190,133	183,079	72,241	1,988	597		1,544,585
1997	57,709	21,371	74,203	50,635	261,923	461,372	183,468	204,211	229,746	81,180	1,667	392		1,627,877
1998	61,367	15,361	82,094	59,803	256,382	425,275	175,742	205,545	170,071	87,429	1,985	1,102		1,542,156
1999	51,464	19,923	86,556	56,641	270,264	385,577	162,355	233,178	157,613	70,934	1,431	308		1,496,244
2000	63,617	13,540	69,188	52,476	244,486	367,333	148,147	242,275	160,684	73,409	1,055	460	114	1,436,784
2001	50,206	17,815	58,477	41,656	215,780	364,497	168,274	153,503	135,353	55,594	1,021	409	0	1,262,585
2002	50,457	15,651	62,118	43,051	189,473	351,891	155,537	173,087	125,532	58,736	3,344	1,131	0	1,230,008
2003	41,648	14,637	55,788	44,613	177,880	313,728	128,550	185,457	124,369	51,992	1,815	548	710	1,141,735
2004	44,272	9,944	47,771	32,306	171,618	289,678	146,093	195,058	136,064	43,430	1,927	184	0	1,118,345
2005	42,897	12,410	44,881	34,810	182,650	273,663	161,893	225,848	152,716	52,576	2,063	2,293	0	1,188,700
AVERAGES:														
68-71	56,700	26,025	58,800	60,025	429,600	833,350	403,325	617,775	747,500	286,300				3,519,400
72-75	93,300	24,000	99,150	55,200	486,350	829,550	289,225	648,500	874,200	240,800	9,500	5,000		3,643,900
76-80	120,440	30,080	115,000	59,440	544,760	918,080	338,280	574,040	723,500	218,400	17,800	3,200		3,663,020
81-85	114,240	33,600	101,300	66,200	481,820	860,960	249,800	289,660	444,160	172,800	9,620	2,360		2,826,520
86-90	90,300	26,860	99,080	65,880	448,000	724,560	155,960	151,660	249,740	114,380	3,640	1,400		2,131,460
91-95	65,697	21,997	87,554	55,027	345,883	547,717	113,335	109,368	146,036	73,756	1,588	1,111		1,569,069
96-00	58,138	17,890	78,407	55,151	257,740	419,994	167,643	215,068	180,239	77,039	1,625	572		1,529,529
01-05	45,896	14,091	53,807	39,287	187,480	318,691	152,069	186,591	134,807	52,466	2,034	913	142	1,188,275

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\* - 1968-71 ESTIMATES ARE USEFUL ONLY FOR DISTRIBUTION OF HARVEST AMONG PROVINCES. THEY ARE NOT COMPARABLE WITH ESTIMATES IN SUBSEQUENT YEARS BECAUSE DIFFERENT SURVEY PROCEDURES WERE USED.

ESTIMATES OF REGULAR-SEASON MALLARD HARVESTS IN THE MISSISSIPPI FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MFTOTAL
1999	272,260	166,303	127,212	68,440	186,005	53,250	50,555	197,225	102,619	1,125,685	254,050	354,432	145,787	33,033	3,136,858
2000	270,020	176,323	143,023	73,939	197,551	66,538	80,521	213,496	176,836	1,022,812	196,858	425,842	123,770	105,142	3,272,671
2001*	328,231	147,558	94,314	117,161	225,268	73,006	70,056	323,648	120,915	751,335	212,361	120,038	129,433	54,709	2,768,031
2002*	278,399	226,572	200,400	97,172	220,603	86,284	94,613	130,324	80,929	575,305	172,580	105,518	98,569	55,868	2,423,134
2003*	303,995	252,042	183,018	101,654	284,256	76,668	76,379	249,773	138,187	510,620	130,815	133,137	95,047	34,895	2,570,485
2004*	179,277	173,400	158,927	54,700	194,135	71,569	77,507	175,545	130,324	556,533	191,225	80,355	127,029	29,404	2,199,931
2005*	169,582	118,808	135,463	77,872	209,044	76,069	59,826	242,104	115,244	475,075	92,869	101,308	155,981	20,138	2,049,383
AVERAGES:															
99-00	271,140	171,313	135,117	71,189	191,778	59,894	65,538	205,361	139,728	1,074,248	225,454	390,137	134,779	69,088	3,204,764
01-05	251,897	183,676	154,424	89,712	226,661	76,719	75,676	224,279	117,120	573,774	159,970	108,071	121,211	39,003	2,402,193

\* - Preliminary

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ESTIMATES OF REGULAR-SEASON MALLARD HARVESTS IN THE UNITED STATES  
(HARVEST INFORMATION PROGRAM)

YEAR	AF	MF	CF	P F			US TOTAL
				LWR STS	AK	TOTAL	
1999	444,068	3,136,859	995,528	1,295,089	23,385	1,318,474	5,894,928
2000	522,968	3,272,671	1,035,988	1,218,394	19,085	1,237,479	6,069,106
2001*	467,063	2,768,031	1,175,658	1,036,042	27,044	1,063,086	5,473,838
2002*	554,704	2,423,134	1,006,875	911,070	19,655	930,726	4,915,439
2003*	427,301	2,570,485	962,111	1,033,457	24,824	1,058,281	5,018,178
2004*	422,004	2,199,931	969,435	918,681	21,479	940,160	4,531,530
2005*	444,305	2,049,383	868,144	1,074,807	30,288	1,105,095	4,466,927
AVERAGES:							
99-00	483,518	3,204,765	1,015,758	1,256,742	21,235	1,277,977	5,982,017
01-05	463,075	2,402,193	996,445	994,811	24,658	1,019,469	4,881,182

\*- Preliminary

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ESTIMATES OF MALLARD HARVESTS IN CANADA

YEAR	NFL	PEI	NS	NB	QUE	ONT	MAN	SAS	ALB	BC	NWT	YUK	NUV	CAN TOTAL
1968*					41,800	231,700	148,600	191,500	275,000	138,300				1,026,900
1969*	100	200	900	500	38,400	228,900	281,300	386,300	541,800	131,900				1,610,300
1970*			700	1,000	42,200	213,900	310,300	687,200	634,300	133,800				2,023,400
1971*		400	700	800	42,400	223,800	198,000	531,700	568,000	113,700				1,679,500
1972	400	100	800	800	61,500	254,200	214,500	477,800	557,600	114,800				1,682,500
1973	100	400	1,200	1,200	72,300	255,400	137,500	349,100	546,900	106,000				1,470,100
1974	300	200	1,300	1,300	74,100	257,200	145,000	499,600	714,100	108,600				1,800,900
1975	700	400	900	700	58,200	296,200	154,300	572,100	531,500	122,700	4,700	1,300		1,743,700
1976	700	300	1,500	800	73,700	318,200	205,100	608,700	612,300	116,200	13,800	1,000		1,952,300
1977	1,100	200	2,300	700	83,600	264,900	163,100	392,400	515,600	129,300	10,700	800		1,564,700
1978	800	300	1,200	1,500	62,400	322,400	239,600	396,700	379,600	116,800	6,700	1,300		1,529,300
1979	500	500	800	1,600	68,300	265,600	245,100	422,700	486,500	116,500	2,700	1,900		1,612,700
1980	0	1,000	3,200	1,400	81,300	290,500	210,000	354,600	482,400	103,400	5,000	1,400		1,534,200
1981	2,400	1,400	2,400	2,500	92,800	281,400	174,600	230,200	388,200	115,000	2,400	900		1,294,200
1982	500	400	1,400	1,800	94,800	333,700	150,300	241,100	295,000	91,500	3,100	0		1,213,600
1983	1,100	1,000	4,100	2,500	87,100	297,800	159,800	285,800	363,700	121,600	4,000	900		1,329,400
1984	800	700	2,100	1,600	66,800	283,600	118,100	181,700	304,800	89,900	7,500	1,700		1,059,300
1985	400	1,300	3,200	3,300	97,200	290,500	84,500	158,400	180,900	81,800	5,800	1,200		908,500
1986	2,500	700	3,200	2,500	84,400	265,400	113,500	151,100	182,000	72,200	800	900		879,200
1987	1,100	1,100	4,200	3,200	116,800	319,100	137,000	163,600	215,300	78,300	500	300		1,040,500
1988	0	1,000	2,400	1,600	82,300	233,700	59,800	73,500	138,000	64,000	4,700	400		661,400
1989	1,300	1,000	4,300	2,200	74,100	261,800	68,000	75,700	187,000	56,500	1,600	800		734,300
1990	1,000	900	3,500	3,200	86,500	262,700	56,700	78,800	173,900	60,100	2,000	400		729,700
1991	1,000	1,100	3,800	4,700	77,700	218,300	60,200	70,300	121,000	51,700	100	700		610,600
1992	967	198	6,343	5,260	89,551	196,776	66,189	66,902	95,405	51,840	668	244		580,343
1993	1,063	1,071	5,110	3,585	97,625	197,754	41,191	49,752	80,268	43,430	1,158	547		522,554
1994	830	828	3,172	2,755	103,446	192,356	56,301	87,448	108,951	49,233	1,999	201		607,520
1995	532	751	4,822	5,131	83,307	176,680	74,206	104,296	111,048	40,782	1,509	278		603,342
1996	351	1,024	4,286	4,044	82,201	176,869	91,266	121,608	115,668	42,447	1,326	0		641,090
1997	1,461	417	8,047	5,371	77,594	178,169	107,379	133,017	151,167	55,513	437	126		718,698
1998	1,628	1,011	5,440	7,512	76,320	164,431	104,470	129,461	119,826	52,663	881	276		663,919
1999	1,188	667	6,305	4,866	69,568	131,901	82,639	182,714	105,126	48,002	0	220		633,196
2000	1,511	1,915	5,481	5,999	81,655	162,352	78,201	195,276	107,203	49,272	510	72	0	689,447
2001	601	1,192	5,721	7,047	79,896	166,629	92,115	107,413	94,699	35,575	643	229	0	591,760
2002	300	2,176	6,498	6,002	66,533	147,847	77,992	118,857	80,707	37,371	1,702	609	0	546,594
2003	696	804	4,711	6,511	58,873	138,099	66,403	126,397	73,088	35,384	410	110	0	511,486
2004	1,985	1,100	5,245	5,228	65,284	132,188	75,970	129,630	78,270	28,516	275	37	0	523,728
2005	754	1,681	4,544	4,732	72,231	115,284	87,315	144,393	78,798	33,586	688	0	0	544,006
AVERAGES:														
68-71	100	300	767	767	41,200	224,575	234,550	449,175	504,775	129,425	4,700	1,300		1,585,025
72-75	375	275	850	1,000	66,525	265,750	162,825	474,650	587,525	113,025	4,700	1,300		1,674,300
76-80	620	460	1,800	1,200	73,860	292,320	212,580	435,020	495,280	116,440	7,780	1,280		1,638,640
81-85	1,040	960	2,640	2,340	87,740	297,400	137,460	219,440	306,520	99,960	4,560	940		1,161,000
86-90	1,180	940	3,520	2,540	88,820	268,540	87,000	108,540	179,240	66,220	1,920	560		809,020
91-95	878	790	4,649	4,286	90,326	196,373	59,617	75,740	103,334	47,397	1,087	394		584,872
96-00	1,228	1,007	5,912	5,558	77,468	162,744	92,791	152,415	119,798	49,579	631	139		669,270
01-05	867	1,391	5,344	5,904	68,563	140,009	79,959	125,338	81,112	34,086	744	197	0	543,515

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MALLARD HARVEST AGE RATIOS (IMM./AD.) IN THE MISSISSIPPI FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MF TOT.
1999	2.1	1.8	1.5	1.4	1.0	1.0	1.2	0.8	1.0	0.6	0.9	0.8	0.5	0.7	0.89
2000	1.8	1.3	1.0	1.2	0.7	0.6	1.0	0.6	0.9	0.5	0.7	0.5	0.4	0.6	0.68
2001*	2.6	3.0	2.0	2.6	1.7	1.3	1.3	1.1	1.1	1.0	1.0	0.8	1.0	0.8	1.33
2002*	1.5	1.7	1.7	1.3	1.1	1.2	1.4	0.8	0.8	0.5	0.7	0.4	0.4	0.7	0.90
2003*	2.8	1.8	2.1	2.0	1.9	1.4	1.8	1.7	1.3	0.8	0.9	1.0	0.8	0.9	1.41
2004*	1.5	1.8	1.6	0.9	1.2	1.6	1.4	1.0	0.9	0.8	1.0	0.6	0.5	1.0	1.03
2005*	2.7	2.7	1.7	2.8	2.3	1.4	1.3	2.0	2.0	0.8	2.0	2.3	1.7	1.8	1.63
AVERAGES:															
99-00	1.9	1.6	1.2	1.3	0.9	0.8	1.1	0.7	1.0	0.6	0.8	0.7	0.4	0.6	0.79
01-05	2.2	2.2	1.8	1.9	1.6	1.4	1.4	1.3	1.2	0.8	1.1	1.0	0.9	1.0	1.26

\* - Preliminary

DF 07/14/06

HARVEST SEX RATIOS (M/F) OF ADULT MALLARDS IN THE MISSISSIPPI FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MF TOT.
1999	1.2	1.7	2.8	2.7	3.1	2.3	3.7	4.0	3.0	3.1	3.3	2.2	3.9	1.7	2.77
2000	1.6	2.3	2.2	3.1	3.9	3.1	2.8	4.0	2.9	3.7	3.9	3.1	3.9	4.7	3.27
2001*	1.6	1.8	2.1	1.7	2.1	2.5	2.2	2.7	1.9	2.3	2.7	2.0	2.5	2.4	2.17
2002*	1.7	1.6	1.8	1.9	3.0	2.0	1.8	2.9	2.0	2.9	2.4	2.3	2.5	1.7	2.20
2003*	1.7	1.5	2.0	2.4	2.8	2.0	1.6	2.3	2.1	3.2	2.2	2.1	2.7	1.9	2.25
2004*	1.5	2.0	2.1	3.1	2.7	1.6	2.2	2.7	2.4	3.3	2.6	2.5	3.2	2.6	2.51
2005*	1.8	1.8	2.3	2.3	2.5	2.3	1.8	2.5	2.7	3.1	2.2	1.5	2.3	1.6	2.35
AVERAGES:															
99-00	1.4	2.0	2.5	2.9	3.5	2.7	3.3	4.0	2.9	3.4	3.6	2.6	3.9	3.2	3.02
01-05	1.7	1.7	2.1	2.3	2.6	2.1	1.9	2.6	2.2	3.0	2.4	2.1	2.7	2.0	2.30

\* - Preliminary

DF 07/14/06



ESTIMATES OF REGULAR-SEASON BLACK DUCK HARVESTS IN THE MISSISSIPPI FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MF TOTAL
1999	345	4,606	10,556	0	2,759	1,801	4,497	353	14,660	3,382	11,866	1,636	882	359	57,682
2000	1,254	3,321	10,584	0	2,533	2,568	6,733	237	12,105	1,382	9,654	1,217	0	6,783	58,371
2001*	333	2,683	5,034	291	748	3,458	5,040	0	5,182	1,202	6,088	0	0	576	30,636
2002*	1,862	6,233	9,744	0	3,410	3,338	11,317	172	5,179	462	5,193	414	139	0	47,465
2003*	833	2,350	9,162	0	2,635	856	5,473	0	5,264	262	5,007	636	257	1,237	33,971
2004*	279	2,945	9,659	224	2,059	1,961	2,973	0	5,266	319	7,426	365	507	1,710	35,692
2005*	719	2,254	9,412	180	2,944	2,154	3,312	559	9,133	835	2,943	0	453	1,467	36,365
AVERAGES:															
99-00	800	3,964	10,570	0	2,646	2,184	5,615	295	13,382	2,372	10,760	1,427	441	3,571	58,027
01-05	805	3,293	8,602	139	2,359	2,353	5,623	146	6,005	616	5,332	283	271	998	36,826

\* - Preliminary

DF 07/13/06

ESTIMATES OF REGULAR-SEASON BLACK DUCK HARVESTS IN THE ATLANTIC FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	ME	VT	NH	MA	CT	RI	NY	PA	WV	NJ	DE	MD	VA	NC	SC	GA	FL	AFTOTAL
1999	11,895	1,884	1,724	3,955	5,731	2,211	18,595	7,104	29	16,506	4,472	8,537	10,284	5,952	1,432	1,588	97	101,997
2000	9,073	2,124	2,364	5,315	3,812	2,079	23,359	9,612	682	13,092	7,153	18,135	10,740	6,205	1,654	571	126	116,096
2001*	5,868	1,941	1,684	4,125	2,973	1,033	18,040	13,760	113	13,158	3,157	14,082	8,957	3,537	1,895	166	69	94,559
2002*	9,717	3,216	2,568	4,384	2,870	882	26,264	15,166	609	11,855	6,422	21,294	16,929	4,475	1,558	312	98	128,620
2003*	5,045	1,794	2,572	2,711	4,499	1,215	19,985	7,039	404	12,820	5,652	15,837	9,682	4,852	506	495	0	95,108
2004*	5,765	1,923	1,131	1,809	3,085	1,075	15,438	5,572	578	8,187	4,211	15,977	7,102	2,392	674	0	0	74,920
2005*	7,623	2,319	1,601	3,119	3,615	1,459	23,714	7,125	214	10,982	5,438	11,401	9,260	4,309	977	251	0	93,406
AVERAGES:																		
99-00	10,484	2,004	2,044	4,635	4,771	2,145	20,977	8,358	356	14,799	5,812	13,336	10,512	6,079	1,543	1,080	112	109,047
01-05	6,804	2,239	1,911	3,230	3,409	1,133	20,688	9,733	384	11,401	4,976	15,718	10,386	3,913	1,122	245	33	97,323

\* - PRELIMINARY

DF 07/13/06

ESTIMATES OF BLACK DUCK HARVESTS IN CANADA

YEAR	NFL	PEI	NS	NB	QUE	ONT	MAN	SAS	ALB	BC	NWT	YUK	NUV	CAN TOTAL
1968*	14,800	4,600	24,000	23,900	87,800	118,900	0	0	0	0	0	0	0	274,000
1969*	24,500	9,300	30,400	25,400	85,500	106,700	1,400	0	0	0	0	0	0	283,200
1970*	23,000	8,800	30,200	22,900	104,600	116,500	1,000	0	0	0	0	0	0	307,000
1971*	17,800	16,400	43,000	22,400	113,000	97,600	700	0	0	0	0	0	0	310,900
1972	22,900	9,700	35,700	17,800	103,200	100,800	300	0	0	0	0	0	0	290,400
1973	21,400	6,900	50,800	22,400	120,700	95,000	400	400	0	0	0	0	0	318,000
1974	29,700	16,600	44,400	22,500	110,100	83,800	700	0	0	0	0	0	0	307,800
1975	32,900	14,200	57,300	22,900	91,400	83,900	200	100	0	0	0	0	0	302,900
1976	23,200	22,100	57,300	26,200	118,400	95,800	200	700	0	0	0	0	0	343,900
1977	41,100	17,700	67,900	19,600	131,500	81,500	800	500	0	0	0	0	0	360,600
1978	46,200	20,000	64,700	26,300	130,800	90,200	400	0	100	0	0	0	0	378,700
1979	41,700	12,700	43,900	17,400	113,100	86,800	300	400	300	0	0	0	0	316,900
1980	31,300	21,500	68,700	28,300	120,400	92,700	2,100	300	0	0	0	0	0	365,300
1981	41,200	16,000	57,900	26,900	105,500	77,600	400	200	0	0	0	0	0	325,700
1982	28,400	25,300	47,200	31,200	117,800	86,700	200	500	0	0	0	0	0	337,300
1983	29,700	24,100	57,000	31,000	101,900	61,100	300	0	0	0	0	0	0	305,100
1984	26,800	23,200	51,600	33,400	107,600	64,400	400	500	0	0	0	0	0	307,900
1985	28,900	18,700	44,000	32,800	110,500	64,700	500	200	0	0	0	0	0	300,300
1986	26,600	18,700	46,000	27,700	114,700	59,600	400	300	0	0	0	0	0	294,000
1987	16,800	17,600	43,600	26,700	129,900	62,400	0	0	0	0	0	0	0	297,000
1988	19,900	20,900	44,700	31,100	126,100	59,800	0	100	100	0	0	0	0	302,700
1989	28,600	11,800	47,000	25,800	101,500	47,900	200	0	0	0	0	0	0	262,800
1990	23,600	11,600	37,800	26,700	105,800	38,800	100	700	300	100	0	0	0	245,500
1991	16,600	14,900	39,600	20,200	91,800	50,700	1,200	300	1,400	300	0	0	0	237,000
1992	14,364	8,053	38,715	23,287	83,069	38,328	136	237	76	0	0	0	0	206,265
1993	13,483	9,785	35,679	18,772	85,531	33,226	1,275	0	0	0	0	0	0	197,751
1994	16,908	9,811	31,034	22,256	64,913	24,099	243	163	0	0	0	34	0	169,461
1995	15,461	13,355	40,546	29,332	54,776	33,470	0	204	0	17	0	0	0	187,161
1996	19,447	9,469	39,759	20,418	49,219	25,289	0	0	0	0	0	0	0	163,601
1997	18,816	12,982	32,666	17,966	56,103	26,309	265	147	215	0	0	0	0	165,469
1998	22,410	6,789	33,852	22,802	49,065	23,091	165	0	81	124	0	0	0	158,379
1999	19,058	10,782	44,658	22,445	51,385	26,579	36	0	0	0	0	0	0	174,943
2000	21,605	6,980	43,922	18,083	43,476	19,995	204	653	0	0	0	0	0	154,918
2001	16,802	9,465	26,730	12,879	38,719	19,187	293	0	0	0	0	0	0	124,075
2002	18,022	6,214	28,310	14,449	36,348	19,133	0	77	89	0	0	0	0	122,642
2003	10,175	7,229	26,010	15,219	35,078	15,178	0	334	0	0	0	0	0	109,223
2004	12,888	4,828	16,971	9,776	30,590	16,711	0	0	0	0	0	0	0	91,764
2005	9,333	4,560	16,717	9,031	34,472	15,276	191	0	0	0	0	0	0	89,580
AVERAGES:														
68-71	20,025	9,775	31,900	23,650	97,725	109,925	775	0	0	0	0	0	0	293,775
72-75	26,725	11,850	47,050	21,400	106,350	90,875	400	167	0	0	0	0	0	304,775
76-80	36,700	18,800	60,500	23,560	122,840	89,400	760	475	60	80	0	0	0	353,080
81-85	31,000	21,460	51,540	31,060	108,660	70,900	360	300	0	0	0	0	0	315,260
86-90	23,100	16,120	43,820	27,600	115,600	53,700	140	220	80	20	0	0	0	280,400
91-95	15,363	11,181	37,115	22,769	76,018	35,965	571	181	295	63	0	7	0	199,528
96-00	20,267	9,400	38,971	20,343	49,850	24,253	134	160	59	25	0	0	0	163,462
01-05	13,444	6,459	22,948	12,271	35,041	17,097	97	82	18	0	0	0	0	107,457

DF 06/27/06

\* - 1968-71 ESTIMATES ARE USEFUL ONLY FOR DISTRIBUTION OF HARVEST AMONG PROVINCES. THEY ARE NOT COMPARABLE WITH ESTIMATES IN SUBSEQUENT YEARS BECAUSE DIFFERENT SURVEY PROCEDURES WERE USED.

ESTIMATES OF BLACK DUCK HARVESTS\* IN NORTH AMERICA

YEAR	AF	MF	CF	US TOTAL	CANADA	NA TOTAL
1999	101,814	70,188	0	172,002	174,943	346,945
2000	121,416	59,964	0	181,381	154,918	336,299
2001**	94,559	30,636	0	125,195	124,075	249,270
2002**	128,620	47,465	453	176,538	122,642	299,180
2003**	95,108	33,971	134	129,213	109,223	238,436
2004**	74,920	35,692	0	110,612	91,764	202,376
2005**	93,406	36,365	115	129,886	89,580	219,466
AVERAGES:						
99-00	111,615	65,076	0	176,691	164,931	341,622
01-05	97,323	36,826	140	134,289	107,457	241,746

\* - US estimates are from Harvest Information Program.

DF 07/14/06

\*\* - Preliminary

HARVEST AGE RATIOS (IMM./AD.) FOR MALLARDS AND BLACK DUCKS (HARVEST INFORMATION PROGRAM)

YEAR	MALLARD						BLACK DUCK		
	A.F.	M.F.	C.F.	P.F.	AK	U.S.	A.F.	M.F.	U.S.
1999	0.91	0.89	0.73	0.96	5.3	0.88	0.99	1.35	1.11
2000	0.92	0.68	0.54	1.02	2.4	0.74	0.83	0.63	0.76
2001*	1.14	1.33	0.70	1.22	4.6	1.13	0.93	1.76	1.09
2002*	0.95	0.90	0.60	1.18	3.0	0.88	1.07	1.04	1.06
2003*	1.26	1.41	0.87	1.51	4.1	1.29	1.12	1.13	1.12
2004*	1.37	1.03	0.74	1.43	4.8	1.06	0.87	1.20	0.97
2005*	1.54	1.63	1.26	1.98	5.5	1.62	1.56	1.63	1.58
AVERAGES:									
99-00	0.91	0.79	0.64	0.99	3.9	0.81	0.91	0.99	0.94
01-05	1.25	1.26	0.83	1.46	4.40	1.20	1.11	1.35	1.16

\* - Preliminary

DF 07/14/06

ESTIMATES OF REGULAR-SEASON GADWALL HARVESTS IN THE MISSISSIPPI FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MF TOTAL
1999	17,576	8,970	2,548	7,887	18,853	4,116	8,995	47,983	28,309	260,575	81,447	478,140	73,187	30,520	1,069,106
2000	26,657	22,946	4,614	32,525	64,078	11,206	7,295	86,156	34,209	333,683	60,443	437,097	85,539	60,566	1,267,013
2001*	17,328	6,036	2,961	12,241	26,194	6,532	8,064	67,710	12,523	254,051	45,838	290,732	39,156	39,160	828,527
2002*	47,486	17,764	6,320	19,885	24,919	7,961	9,959	34,902	9,711	211,809	25,967	182,998	31,098	43,074	673,853
2003*	47,057	20,563	4,474	21,378	44,992	4,278	9,518	57,428	19,741	246,939	42,562	266,273	39,891	33,410	858,504
2004*	31,276	17,340	5,707	10,761	23,214	2,778	1,911	59,030	8,337	177,759	56,625	183,904	50,203	25,643	654,488
2005*	15,090	8,049	5,168	9,891	26,106	11,713	9,730	65,368	16,526	177,005	22,890	168,949	48,291	50,546	635,321
AVERAGES:															
99-00	22,117	15,958	3,581	20,206	41,466	7,661	8,145	67,070	31,259	297,129	70,945	457,619	79,363	45,543	1,168,060
01-05	31,647	13,951	4,926	14,831	29,085	6,652	7,836	56,888	13,368	213,513	38,776	218,571	41,728	38,367	730,139

\* - Preliminary

DF 07/13/06

ESTIMATES OF REGULAR-SEASON WIGEON HARVESTS IN THE MISSISSIPPI FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MF TOTAL
1999	15,853	11,152	6,006	763	4,598	257	1,551	6,704	2,528	32,950	13,485	66,436	5,291	3,232	170,804
2000	19,444	11,473	3,799	6,061	10,131	1,868	2,244	15,385	4,737	34,197	11,333	72,089	10,727	14,051	217,539
2001*	16,661	10,731	4,442	4,372	6,237	768	2,772	10,043	2,159	43,277	12,534	44,056	6,526	4,607	169,185
2002*	22,812	12,778	5,530	6,003	8,394	770	453	5,674	1,619	43,472	5,193	27,622	5,414	1,706	147,440
2003*	15,408	9,988	3,835	4,581	9,036	1,027	1,428	11,210	3,071	21,973	3,443	28,408	8,594	2,227	124,228
2004*	24,574	15,050	6,366	4,484	4,306	1,634	1,911	11,189	3,510	24,530	14,652	27,577	9,128	684	149,793
2005*	13,174	11,269	3,507	2,338	9,029	942	1,449	9,498	6,523	24,630	4,578	23,873	8,162	2,267	121,240
AVERAGES:															
99-00	17,649	11,312	4,903	3,412	7,365	1,062	1,898	11,044	3,632	33,574	12,409	69,262	8,009	8,641	194,171
01-05	18,526	11,963	4,736	4,355	7,400	1,028	1,603	9,523	3,376	31,576	8,120	30,307	7,565	2,298	142,377

\* - Preliminary

DF 07/13/06

ESTIMATES OF REGULAR-SEASON PINTAIL HARVESTS IN THE MISSISSIPPI FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MF TOTAL
1999	8,271	5,091	5,278	3,816	3,219	515	1,396	8,468	506	29,588	10,788	69,708	5,585	1,077	153,304
2000	15,681	9,058	4,614	4,242	7,345	934	1,122	10,178	0	22,453	5,037	66,310	4,126	1,938	153,036
2001*	10,663	4,360	3,998	6,703	6,486	961	756	16,847	2,159	24,043	12,176	28,716	4,079	576	122,522
2002*	18,622	9,661	13,430	6,003	525	257	2,263	4,814	647	20,811	4,394	15,192	4,581	1,279	102,481
2003*	18,323	12,338	8,948	5,235	10,165	1,540	3,093	6,097	1,755	17,526	5,946	27,348	5,002	0	123,318
2004*	14,242	11,451	9,878	3,139	3,931	654	849	4,051	4,388	16,565	2,321	15,523	3,550	0	90,542
2005*	9,820	3,542	3,137	4,316	6,281	1,077	1,035	10,988	1,740	22,961	3,924	33,667	3,854	934	107,276
AVERAGES:															
99-00	11,976	7,074	4,946	4,029	5,282	724	1,259	9,323	253	26,020	7,912	68,009	4,855	1,508	153,170
01-05	14,334	8,270	7,878	5,079	5,478	898	1,599	8,559	2,138	20,381	5,752	24,089	4,213	558	109,228

\* - Preliminary

DF 07/13/06



ESTIMATES OF REGULAR-SEASON PINTAIL HARVESTS IN THE UNITED STATES  
(HARVEST INFORMATION PROGRAM)

YEAR	AF	MF	CF	P F		TOTAL	US TOTAL
				LWR STS	AK		
1999	25,100	153,304	129,904	219,752	10,652	230,404	538,712
2000	20,050	153,036	135,897	185,914	17,119	203,033	512,016
2001*	19,276	122,522	135,039	146,809	11,306	158,115	434,951
2002*	17,089	102,481	60,407	132,151	11,281	143,432	323,409
2003*	18,134	123,318	55,641	134,935	9,084	144,019	341,112
2004*	10,254	90,542	63,280	140,984	6,056	147,040	311,115
2005*	17,339	107,276	78,919	202,728	5,767	208,495	412,029
AVERAGES:							
99-00	22,575	153,170	132,901	202,833	13,886	216,719	525,364
01-05	16,418	109,228	78,657	151,521	8,699	160,220	364,523

\* - PRELIMINARY

DF 07/13/06

ESTIMATES OF PINTAIL HARVESTS IN CANADA

YEAR	NFL	PEI	NS	NB	QUE	ONT	MAN	SAS	ALB	BC	NWT	YUK	NUV	CAN TOTAL
1968*					21,300		25,800	16,300	51,200	55,500				170,100
1969*	2,200	800	500	1,000	20,500	10,900	21,100	33,800	48,700	23,700				163,200
1970*	900	1,300	1,400	1,900	26,600	14,900	30,700	66,400	78,100	36,500				258,700
1971*	1,000	700	600	1,500	25,800	10,400	20,300	46,000	71,600	28,400				206,300
1972	1,000	400	400	400	16,900	9,700	16,700	29,100	68,900	48,700				192,200
1973	2,600	500	1,100	1,000	19,400	10,500	18,300	31,000	94,700	48,900				228,000
1974	1,100	1,100	1,300	1,300	21,000	10,800	10,700	51,900	98,700	25,700				223,600
1975	900	400	500	800	22,000	9,700	20,400	56,300	82,500	23,200	200	700		217,600
1976	1,300	700	1,000	1,700	29,000	17,300	17,600	34,300	60,800	35,200	2,600	300		201,800
1977	2,400	1,800	1,200	1,000	40,600	14,500	11,600	19,900	71,300	30,400	600	400		195,700
1978	900	800	700	1,400	20,600	13,200	20,700	13,700	38,100	23,000	2,200	200		135,500
1979	1,800	600	500	1,100	15,300	9,100	20,300	29,600	48,300	17,900	1,700	200		146,400
1980	900	500	700	1,300	17,100	13,300	12,700	17,900	43,900	20,900	0	100		129,300
1981	1,100	800	1,000	1,200	17,500	11,600	15,100	2,300	41,000	19,200	100	400		111,300
1982	0	1,600	1,100	1,500	20,300	10,200	14,300	12,700	28,700	14,000	0	0		104,400
1983	2,300	600	700	300	16,300	10,600	11,800	16,800	27,800	13,200	3,700	300		104,400
1984	1,700	1,100	700	900	9,500	35,500	13,200	13,000	32,500	18,700	500	500		127,800
1985	1,600	1,000	1,400	1,800	16,500	15,300	10,900	7,700	23,700	11,500	0	900		92,300
1986	700	600	800	1,700	13,000	9,300	6,700	9,000	9,000	8,800	0	800		60,400
1987	1,100	1,800	600	1,100	11,900	6,300	5,400	8,800	21,200	11,600	0	700		70,500
1988	2,200	1,300	500	800	12,600	8,000	14,000	6,000	15,300	11,000	0	0		71,700
1989	1,500	700	300	1,400	15,600	11,500	8,000	4,900	12,000	8,300	200	0		64,400
1990	4,400	500	700	1,700	19,800	8,300	5,600	10,200	13,600	7,700	600	100		73,200
1991	400	600	900	800	7,600	4,300	4,500	4,600	5,700	4,000	100	100		33,600
1992	0	904	84	473	6,327	4,857	5,214	2,076	6,930	6,521	169	67		33,622
1993	1,133	1,228	911	682	11,113	4,946	5,103	3,263	3,907	4,447	65	0		36,798
1994	946	707	1,093	1,084	10,887	4,526	4,769	7,229	7,252	4,472	0	63		43,283
1995	1,727	454	965	1,240	7,831	4,552	8,974	6,521	7,573	4,476	0	0		44,313
1996	1,246	478	897	1,234	5,043	4,011	10,323	14,477	9,621	5,367	0	0		52,697
1997	785	139	116	493	7,423	5,560	13,248	13,656	5,422	5,422	37	0		60,762
1998	1,026	0	653	757	7,735	6,361	14,347	11,099	11,119	6,462	19	276		59,854
1999	390	1,137	755	1,790	8,956	6,457	9,830	10,610	10,304	5,464	0	0		55,693
2000	470	509	499	581	6,480	5,397	8,766	16,168	13,603	5,825	50	0		58,348
2001	137	0	401	611	4,911	3,709	9,207	7,051	8,732	4,807	19	60		39,645
2002	1,153	78	543	702	5,527	9,910	13,879	13,055	7,640	4,551	0	0		57,038
2003	572	598	228	1,270	6,795	10,422	8,999	8,688	8,205	1,948	234	0		47,959
2004	30	317	129	702	6,394	5,208	12,624	23,803	8,380	2,363	0	0		59,950
2005	256	313	308	536	4,677	3,178	6,653	13,450	10,769	3,675	0	0		43,815
AVERAGES:														
68-71	1,367	933	833	1,467	23,550	12,067	24,475	40,625	62,400	36,025				199,575
72-75	1,400	600	825	875	19,825	10,175	16,525	42,075	86,200	36,625	200	700		215,350
76-80	1,460	880	820	1,300	24,520	13,480	16,580	23,080	52,480	25,480	1,420	240		161,740
81-85	1,340	1,020	980	1,140	16,020	16,640	13,060	10,500	30,740	15,320	860	420		108,040
86-90	1,980	980	580	1,340	14,580	8,680	7,940	7,780	14,220	9,480	160	320		68,040
91-95	841	779	791	856	8,752	4,636	5,712	4,738	6,272	4,834	67	46		38,323
96-00	783	453	584	971	7,127	5,557	11,303	13,202	11,706	5,708	21	55		57,471
01-05	473	248	325	821	5,907	7,312	11,177	13,149	8,239	3,417	63	15	0	51,148

\* - 1968-71 ESTIMATES ARE USEFUL ONLY FOR DISTRIBUTION OF HARVEST AMONG PROVINCES. THEY ARE NOT COMPARABLE WITH ESTIMATES IN SUBSEQUENT YEARS BECAUSE DIFFERENT SURVEY PROCEDURES WERE USED.

ESTIMATES OF REGULAR-SEASON CANVASBACK HARVESTS IN THE MISSISSIPPI FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	MIN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MFTOTAL
1999	9,994	5,576	3,458	254	4,139	0	620	706	506	336	2,158	12,763	0	0	40,510
2000	8,781	7,246	4,071	202	5,319	0	1,964	710	526	1,036	1,259	17,034	550	485	49,183
2001*	4,332	2,683	740	1,457	0	0	252	0	0	401	358	535	0	576	11,334
2002*	466	0	0	0	0	0	0	0	0	0	0	138	0	0	604
2003*	2,915	4,113	1,065	436	565	171	0	197	0	262	939	212	385	0	11,259
2004*	4,747	1,636	0	448	936	0	0	0	878	0	464	1,461	254	0	10,824
2005*	8,623	4,830	1,476	180	4,711	404	414	931	435	835	1,308	7,040	0	1,600	32,786
AVERAGES:															
99-00	9,388	6,411	3,764	228	4,729	0	1,292	708	516	686	1,708	14,899	275	242	44,846
01-05	4,217	2,652	656	504	1,242	115	133	226	262	299	614	1,877	128	435	13,361

\* - Preliminary

DF 07/13/06

ESTIMATES OF REGULAR-SEASON RING-NECKED DUCK HARVESTS IN THE MISSISSIPPI FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MF TOTAL
1999	103,735	14,061	9,464	1,527	11,496	2,315	2,171	7,409	2,022	19,501	4,315	68,726	10,581	7,181	264,504
2000	104,119	24,154	4,614	4,040	8,358	1,634	2,525	5,917	1,579	22,107	9,654	52,014	4,676	12,113	257,504
2001*	85,973	18,445	4,146	3,497	11,974	4,611	2,772	4,860	2,159	27,649	6,804	40,667	1,632	11,518	226,706
2002*	94,972	21,192	16,590	4,127	11,804	2,311	5,432	3,439	1,295	19,423	11,985	33,837	4,304	19,618	250,330
2003*	72,459	27,613	12,997	4,799	10,354	3,936	952	19,470	877	17,526	8,450	43,036	5,259	12,127	239,855
2004*	75,118	9,815	8,561	5,380	14,228	1,307	1,486	9,645	2,633	16,247	17,637	52,414	5,832	13,676	233,979
2005*	75,689	12,557	7,567	3,237	12,562	539	5,175	14,154	435	24,213	7,848	65,498	4,081	6,535	240,090
AVERAGES:															
99-00	103,927	19,107	7,039	2,783	9,927	1,975	2,348	6,663	1,800	20,804	6,985	60,370	7,629	9,647	261,004
01-05	80,842	17,924	9,972	4,208	12,184	2,541	3,164	10,314	1,480	21,012	10,545	47,090	4,221	12,695	238,192

\* - Preliminary

DF 07/13/06

ESTIMATES OF REGULAR SEASON LESSER SCAUP HARVESTS IN THE MISSISSIPPI FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	MIN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MF TOTAL
1999	21,712	14,545	6,552	4,834	14,485	0	3,257	2,823	0	2,017	539	8,509	1,176	359	80,808
2000	25,403	6,642	5,156	2,424	11,144	233	7,295	2,840	1,579	19,689	2,938	92,469	5,226	969	184,008
2001*	36,988	6,036	6,515	8,160	7,235	576	6,048	7,451	1,296	18,433	7,162	56,006	3,263	576	165,746
2002*	49,814	20,881	16,590	6,378	9,968	1,798	3,622	1,032	5,827	6,474	4,794	52,621	4,304	1,279	185,381
2003*	34,147	22,913	13,849	2,836	5,271	513	3,569	4,130	1,755	16,480	3,755	34,556	5,387	4,455	153,617
2004*	12,008	10,797	12,951	1,345	5,429	490	1,486	2,315	5,704	8,283	4,641	25,933	11,156	5,812	108,351
2005*	12,934	9,015	7,013	899	13,151	539	2,484	3,725	4,349	12,941	3,924	36,728	2,721	934	111,357
AVERAGES:															
99-00	23,557	10,594	5,854	3,629	12,814	117	5,276	2,831	789	10,853	1,739	50,489	3,201	664	132,408
01-05	29,178	13,928	11,384	3,924	8,211	783	3,442	3,731	3,786	12,522	4,855	41,169	5,366	2,611	144,890

\* - Preliminary

DF 07/13/06

ESTIMATES OF REGULAR-SEASON REDHEAD HARVESTS IN THE MISSISSIPPI FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MF TOTAL
1999	19,644	7,273	8,554	1,527	2,759	515	620	2,117	0	2,354	0	15,709	294	359	61,723
2000	16,621	4,529	10,041	606	3,546	233	281	1,894	3,158	1,036	0	6,388	275	0	48,608
2001*	20,660	9,055	6,663	3,206	1,247	961	504	1,620	0	1,603	716	3,567	816	0	50,617
2002*	13,967	4,986	3,687	2,251	1,049	514	453	860	0	0	399	691	139	0	28,995
2003*	11,660	9,400	2,344	654	2,447	171	476	1,573	1,316	1,570	1,565	4,028	128	495	37,828
2004*	9,494	4,908	3,293	897	1,498	490	1,062	386	1,755	1,593	5,570	3,287	761	342	35,334
2005*	16,767	8,693	12,181	1,259	3,337	135	1,242	3,166	1,740	2,505	1,962	7,346	1,587	133	62,051
AVERAGES:															
99-00	18,133	5,901	9,298	1,066	3,152	374	450	2,005	1,579	1,695	0	11,048	284	180	55,166
01-05	14,510	7,408	5,633	1,653	1,916	454	747	1,521	962	1,454	2,042	3,784	686	194	42,965

\* - Preliminary

DF 07/13/06

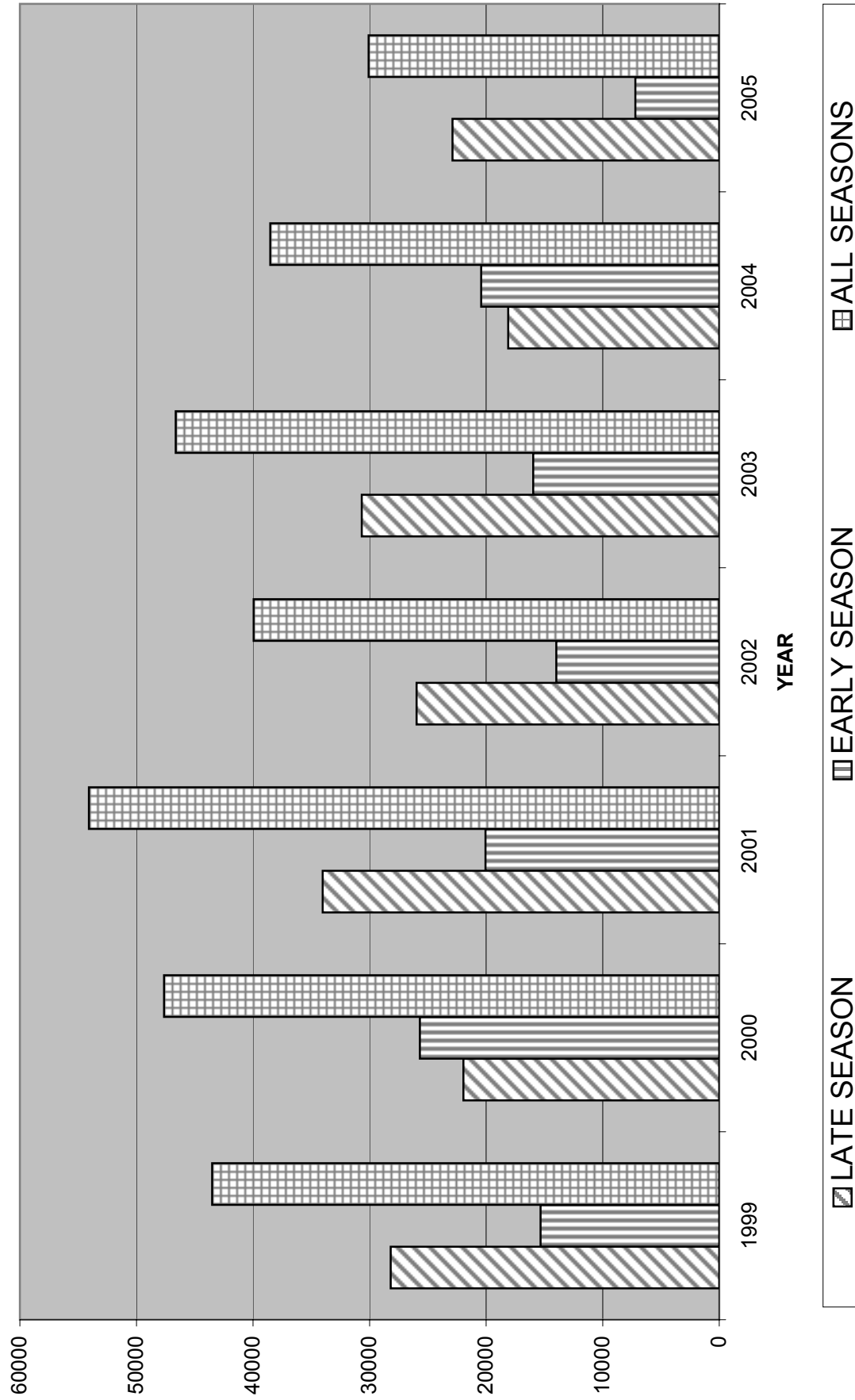
# WOOD DUCKS







# TENNESSEE WOOD DUCK HARVEST 1999-2005



ESTIMATES OF ALL-SEASON WOOD DUCK HARVESTS IN THE MISSISSIPPI FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MF TOTAL
1999	151,639	78,303	45,862	36,891	52,422	18,522	24,192	28,225	30,331	119,360	85,762	196,689	49,085	61,399	978,683
2000	126,699	69,744	50,479	28,687	45,336	11,907	30,300	14,912	36,841	81,866	42,813	160,908	29,430	78,978	808,899
2001*	106,300	52,316	21,172	45,465	43,407	13,256	21,420	14,903	31,524	57,302	54,075	65,994	53,024	52,981	633,140
2002*	135,010	71,369	40,554	44,459	36,986	22,085	24,898	6,877	22,336	88,331	39,949	66,984	53,172	67,383	720,392
2003*	129,926	123,965	32,598	38,611	32,002	15,060	28,315	20,454	24,128	80,831	46,630	116,813	44,124	46,031	779,488
2004*	127,616	79,829	39,732	52,906	28,268	14,379	26,968	18,326	17,113	91,747	38,524	77,981	40,314	75,903	729,608
2005*	98,204	77,596	32,113	38,127	31,013	17,099	17,389	25,514	16,091	119,812	30,084	109,572	26,752	34,142	673,507
AVERAGES:															
99-00	139,169	74,024	48,170	32,789	48,879	15,214	27,246	21,568	33,586	100,613	64,288	178,798	39,258	70,188	893,791
01-05	119,411	81,015	33,234	43,914	34,335	16,376	23,798	17,215	22,238	87,604	41,852	87,469	43,477	55,288	707,227

\* - Preliminary

DF 07/13/06

ESTIMATES OF REGULAR-SEASON WOOD DUCK HARVESTS IN THE MISSISSIPPI FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MF TOTAL
1999	151,639	78,303	45,862	36,891	52,192	16,978	24,192	28,225	8,088	119,360	55,556	196,689	49,085	61,399	924,460
2000	126,699	69,744	50,479	28,687	45,336	11,907	30,300	14,912	13,158	81,521	19,727	160,908	29,430	78,493	761,299
2001*	106,300	52,316	21,172	45,465	42,908	13,256	21,420	14,579	14,250	57,302	34,021	65,994	53,024	52,981	594,989
2002*	135,010	71,369	40,554	44,459	36,986	22,085	24,898	6,877	5,827	88,331	25,967	66,984	53,172	67,383	689,901
2003*	129,926	123,965	32,598	38,611	32,002	15,060	28,315	20,454	15,354	80,831	30,670	116,813	44,124	46,031	754,754
2004*	127,616	79,829	39,732	52,906	28,268	14,379	26,968	18,326	5,265	91,747	18,102	77,981	40,314	75,903	697,338
2005*	98,204	77,596	32,113	38,127	31,013	17,099	17,389	25,514	13,482	119,812	22,890	109,572	26,752	34,142	663,704
AVERAGES:															
99-00	139,169	74,024	48,170	32,789	48,764	14,442	27,246	21,568	10,623	100,441	37,642	178,798	39,258	69,946	842,879
01-05	119,411	81,015	33,234	43,914	34,236	16,376	23,798	17,150	10,836	87,604	26,330	87,469	43,477	55,288	680,137

\* - Preliminary

DF 07/13/06

ESTIMATES OF REGULAR-SEASON WOOD DUCK HARVESTS IN THE ATLANTIC FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	ME	VT	NH	MA	CT	RI	NY	PA	WV	NJ	DE	MD	VA	NC	SC	GA	FL	AFTOTAL
1999	6,465	2,685	2,874	2,592	4,725	948	25,737	36,322	1,359	5,863	5,890	17,420	15,427	98,543	49,825	97,955	16,884	391,514
2000	11,023	2,383	1,931	2,318	1,790	533	23,962	38,949	2,502	4,828	3,499	10,881	16,241	80,515	64,911	90,405	21,451	378,122
2001*	7,323	2,524	4,155	3,064	4,460	261	27,265	72,511	1,081	4,834	5,147	18,466	20,970	86,380	62,830	54,151	8,307	383,729
2002*	7,319	1,732	4,308	2,937	4,754	138	26,628	60,923	2,208	3,913	6,357	14,339	21,536	66,647	102,996	36,033	7,337	370,104
2003*	3,822	1,824	3,779	2,711	3,586	700	21,265	27,416	1,550	4,599	7,227	14,840	20,061	55,607	89,375	74,076	4,496	336,934
2004*	4,231	4,336	2,805	3,165	2,545	371	20,439	27,741	1,491	3,562	3,939	11,821	18,968	49,708	68,226	51,537	7,419	282,304
2005*	6,224	3,805	3,359	2,887	2,460	265	21,444	28,597	2,168	4,194	1,525	10,630	16,886	66,678	78,751	65,452	6,455	321,781
AVERAGES:																		
99-00	8,744	2,534	2,402	2,455	3,258	740	24,850	37,636	1,931	5,346	4,694	14,151	15,834	89,529	57,368	94,180	19,168	384,818
01-05	5,784	2,844	3,681	2,953	3,561	347	23,408	43,438	1,700	4,220	4,839	14,019	19,684	65,004	80,436	56,250	6,803	338,970

\* - PRELIMINARY

DF 07/11/05

ESTIMATES OF ALL-SEASON BLUE-WINGED TEAL HARVESTS IN THE MISSISSIPPI FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MF TOTAL
1999	67,548	41,212	8,190	51,902	30,120	7,718	17,524	49,747	8,594	47,408	10,788	338,069	18,517	39,137	736,473
2000	107,255	39,854	4,071	26,868	28,113	7,237	17,114	29,586	7,894	35,234	21,826	346,757	8,251	30,525	710,588
2001*	131,292	35,548	3,701	49,254	15,966	4,995	13,860	41,468	3,455	14,025	8,237	271,647	6,254	12,094	611,796
2002*	130,820	41,138	3,423	50,649	9,443	1,798	10,412	12,723	3,885	12,487	799	161,729	5,970	5,971	451,246
2003*	92,448	32,313	5,113	30,104	16,001	5,305	6,900	37,171	439	36,622	1,878	333,902	10,518	2,475	611,188
2004*	106,114	21,266	2,634	28,471	7,114	2,451	4,459	6,173	2,194	18,158	464	157,971	1,521	6,496	365,488
2005*	50,539	44,110	5,168	39,026	14,721	5,789	6,003	17,506	6,958	23,796	1,308	92,126	2,494	4,534	314,079
AVERAGES:															
99-00	87,402	40,533	6,130	39,385	29,116	7,477	17,319	39,667	8,244	41,321	16,307	342,413	13,384	34,831	723,530
01-05	102,243	34,875	4,008	39,501	12,649	4,068	8,327	23,008	3,386	21,017	2,537	203,475	5,351	6,314	470,759

\* - Preliminary

DF 07/13/06

ESTIMATES OF ALL-SEASON GREEN-WINGED TEAL HARVESTS IN THE MISSISSIPPI FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MF TOTAL
1999	73,062	63,030	33,123	22,898	22,762	6,431	8,064	32,459	4,550	138,525	36,678	424,795	28,217	13,644	908,239
2000	59,586	34,721	26,868	33,131	25,327	9,105	14,870	36,214	4,737	127,463	11,753	268,281	22,004	17,443	691,501
2001*	50,318	38,902	14,510	29,727	25,944	6,724	4,788	41,144	7,341	134,239	23,635	170,337	18,762	6,911	573,282
2002*	79,144	47,995	46,084	42,958	23,346	7,961	12,675	19,256	3,885	107,754	19,575	115,185	18,742	3,838	548,398
2003*	100,776	75,201	42,186	29,449	35,014	9,070	8,804	37,761	5,703	109,867	16,274	233,625	16,418	4,702	724,851
2004*	44,959	44,168	22,829	16,814	16,662	3,922	11,892	25,850	7,021	147,814	14,852	116,333	19,777	5,129	498,019
2005*	27,545	36,705	20,486	21,221	24,928	7,809	7,038	39,854	5,219	125,239	8,502	149,361	32,874	7,068	513,850
AVERAGES:															
99-00	66,324	48,876	29,995	28,015	24,045	7,768	11,467	34,337	4,643	132,994	24,215	346,538	25,110	15,544	799,870
01-05	60,548	48,594	29,219	28,034	25,179	7,097	9,039	32,773	5,834	124,983	16,568	156,968	21,315	5,530	571,680

\* - Preliminary

DF 07/13/06

FIELD ORDER REQUEST NO. W-IV-6

TITLE OR SUBJECT:

Preseason Wood Duck Banding

PREPARED BY: \_\_\_\_\_ DATE \_\_\_\_\_

WILDLIFE BIOLOGIST

APPROVED BY: \_\_\_\_\_

CHIEF OF WILDLIFE

APPROVED BY: \_\_\_\_\_

ASST. DIRECTOR  
FIELD OPERATIONS

TO: Regional Managers, Regional Waterfowl Biologists, Area Supervisors and Asst. Supervisors, Wildlife Officers (as Assigned), WMA Staff (As Assigned).

APPROVED BY: _____	DATE: _____	APPROVED BY: _____	DATE: _____
MANAGER – REGION I		MANAGER – REGION II	
APPROVED BY: _____	DATE: _____	APPROVED BY: _____	DATE: _____
MANAGER – REGION III		MANAGER – REGION IV	

INITIATION DATE: July 1, 2005      DATE OF SUBMISSION: September 9, 2005

TIME ALLOCATED:

Region 1 Biologists (As Assigned)	Mandays: As Required
Region 2 Biologists (As Assigned)	Mandays: As Required
Region 3 Biologists (As Assigned)	Mandays: As Required
Region 4 Biologists (As Assigned)	Mandays: As Required
Wildlife Officers	Mandays: As Required
Area Supervisors	Mandays: As Required

## **PURPOSE:**

To meet obligations with the U.S. Fish and Wildlife Service for a full evaluation of the recently granted September early duck season. Such a banding program will provide meaningful information regarding mortality rates for Tennessee produced wood ducks, locations of mortality, and movement.

## **BACKGROUND:**

In 1981, the TWRA received authorization from the U.S. Fish and Wildlife Service to harvest locally produced wood ducks in association with the September teal season. A compromise was reached whereby a five day any duck season was allowed to replace the nine day teal season. This five-day season provided a harvest opportunity of four ducks per day, no more than one of which may be any other species besides teal or wood ducks.

Because of low survival rates for female wood ducks, the U.S. Fish and Wildlife Service in 1986 reduced the bag limit on wood ducks to two. Bag limits on all other duck species remained the same. From 1988/89 through 1991/92, all early teal seasons were closed nationwide, but the early duck season continued in Tennessee with a bag limit of just wood ducks only. The teal seasons were reinstated in 1992/93 and the bag limit is 4 ducks of which only 2 can be wood ducks.

In 1999, the USFWS made the wood duck season operational for TN. As part of this agreement, the USFWS required TWRA to made an obligation to increase its banding efforts in order to better monitor wood duck harvest rates/population changes.

## **PROCEDURES:**

### (1) Sites of Banding:

Region I  
Region II  
Region III  
Region IV

- (2) Traps and rockets should be inspected and banding supplies secured as soon as possible and well in advance of scheduled banding operations.
- (3) Pre-baiting of sites with traps and nets in place should begin at least 5 days prior to scheduled banding operations.
- (4) Banding Quotas: 100 adult females per Region (minimum) - band all age and sex classes of all waterfowl species captured. Do not band any wood ducks after August 31. You are encouraged to band as many wood ducks as possible.
- (5) All birds should be sexed and aged to hatching year (HY) or after hatching year



(AHY). Materials are attached for assistance in sex and age determination. Many birds will be in molt so sex determination based on coloration will not always be possible.

- (6) Data forms should be completed and mailed to the Wildlife Division no later than fifteen days after completion of banding operations. All bands must be accounted for and unused bands returned to the Division for future issuance.

Record any birds already banded on recapture forms provided.

### **How to Apply and Remove Bands**

The proper size of band should be selected for each bird banded. Refer to the Species and Band Size List (Species Number, Alpha Code) for recommended band sizes. The band is placed on the tarsus and, when closed, should be free enough to move up and down without abrasively rubbing either round or elliptical tarsi. Closed butt-end bands, lock-on, and any other closed bands should be opened before being placed on the bird's tarsus.

When placed on the tarsus, the ends of the closed band should meet tightly and squarely. Special banding pliers are needed to close bands tightly. The use of other types of pliers is discouraged because it is too easy to overlap the band. Overlapped bands are difficult to remove without injury to the bird. Care should be taken that the band numbers are not marred in the process of closing the band. Persons banding large birds, such as gulls and geese should place the band "right side up" so that the band number can be read through a telescope. The ends of the band should not be overlapped. The right band size gives a proper fit when it is closed with butt-ends meeting tightly. Lock-on bands can be squeezed shut with the fingers and the flange folded over with a pair of pliers.

As wear on the band will likely occur along the bottom edge where the band number normally would rest, the band may be applied upside down on the bird's foot. This will place the band numbers farther from the wearing edge. TWO METAL BANDS SHOULD NEVER BE PLACED UPON THE SAME FOOT OF A BIRD BECAUSE THE METAL WEARS TO SHARP EDGES AND MAY CUT THE BIRD.

### **Species, Age and Sex Identification of Ducks Using Wing Plumage** **Wood Duck**

#### **Sex Determination**

The white trailing edge of the secondaries on females is much wider on the outer webs than on the inner webs. On males, this white edge is approximately the same width on both webs. On females, the first secondary proximal to these white-edged feathers is washed with black on the outer web. Males have no black on this feather.

(AHY). Materials are attached for assistance in sex and age determination. Many birds will be in molt so sex determination based on coloration will not always be possible.

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The proper size of band should be selected for each bird banded. Refer to the Species and Band Size List (Species Number, Alpha Code) for recommended band sizes. The band is placed on the tarsus and, when closed, should be free enough to move up and down without abrasively rubbing either round or elliptical tarsi. Closed butt-end bands, lock-on, and any other closed bands should be opened before being placed on the bird's tarsus.

When placed on the tarsus, the ends of the closed band should meet tightly and squarely. Special banding pliers are needed to close bands tightly. The use of other types of pliers is discouraged because it is too easy to overlap the band. Overlapped bands are difficult to remove without injury to the bird. Care should be taken that the band numbers are not marred in the process of closing the band. Persons banding large birds, such as gulls and geese should place the band "right side up" so that the band number can be read through a telescope. The ends of the band should not be overlapped. The right band size gives a proper fit when it is closed with butt-ends meeting tightly. Lock-on bands can be squeezed shut with the fingers and the flange folded over with a pair of pliers.

As wear on the band will likely occur along the bottom edge where the band number normally would rest, the band may be applied upside down on the bird's foot. This will place the band numbers farther from the wearing edge. TWO METAL BANDS SHOULD NEVER BE PLACED UPON THE SAME FOOT OF A BIRD BECAUSE THE METAL WEARS TO SHARP EDGES AND MAY CUT THE BIRD.

### **Species, Age and Sex Identification of Ducks Using Wing Plumage** **Wood Duck**

#### **Sex Determination**

The white trailing edge of the secondaries on females is much wider on the outer webs than on the inner webs. On males, this white edge is approximately the same width on both webs. On females, the first secondary proximal to these white-edged feathers is washed with black on the outer web. Males have no black on this feather.

### **Age Determination of Males**

Immature tertials are pale bronze with pointed, usually frayed, tips. Immature tertial coverts are narrow and yellow-green. Most immatures replace both tertials and tertial coverts with dark blue adult-type feathers by late October. As the adult-type plumage replaces the immature middle and lesser coverts, the presence of a few dark blue feathers among the duller coverts indicates immaturity. Usually, the dark blue does not extend onto the third row of coverts and is much restricted to the area anterior to the proximal half of the secondaries. Generally, coverts of adults are somewhat wider and tend to lie more smoothly on the wing and the dark blue usually extends on to the third row of coverts and extends farther distally than on wings of immatures.

### **Age Determination of Females**

Immature tertials are pale bronze with pointed, usually frayed, tips. Immature tertial coverts are narrow and yellow-green. Most immatures replace both tertials and tertial coverts with purplish red adult-type feathers by late October. Usually, the blue iridescence is confined to two rows of coverts and is restricted to the proximal half of the immature wing. Adult coverts are somewhat wider and tend to lie more smoothly on the wing. Dark blue usually extends onto the third row of coverts and extends farther distally than on the immature coverts.

### **Note:**

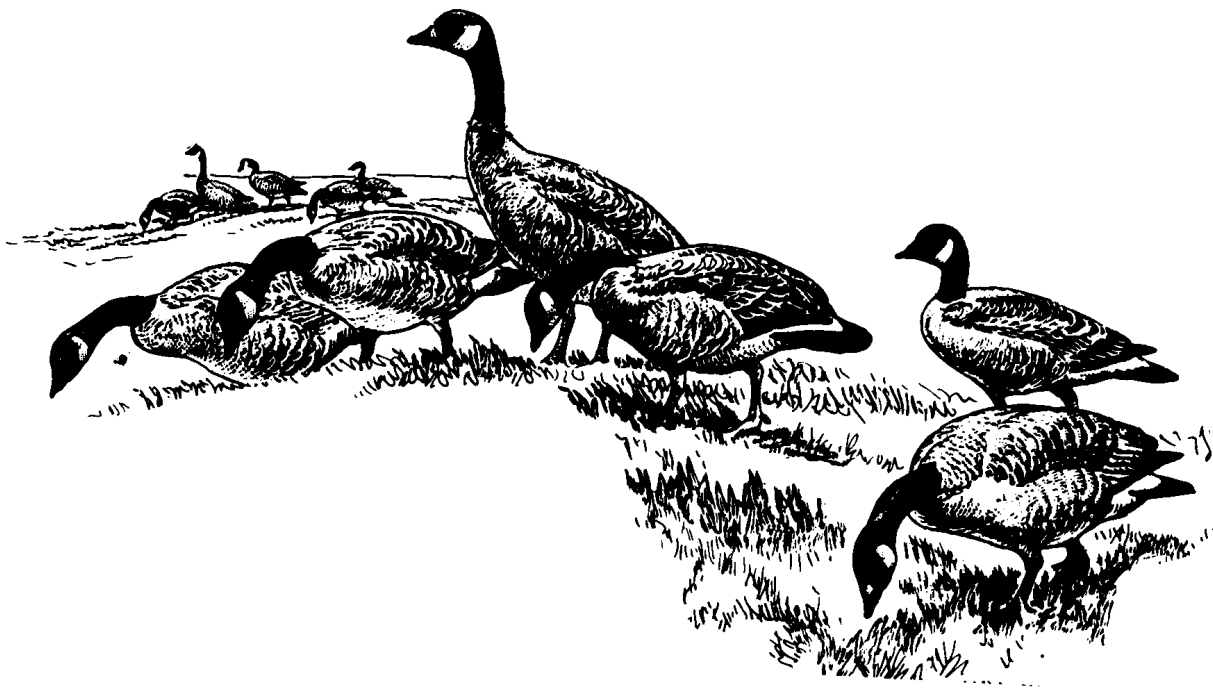
By mid-fall, some immature wood ducks hatched in the southern United States appear to have replaced all of their immature upper-wing coverts. Their wings cannot be distinguished from those of adults.

Wing Character	Male		Female	
	Adult	Immature	Immature	Adult
Secondaries	Dull iridescent blue; tip edged with approximately the same amount of white on both inner and outer webs		Dull iridescent blue; tip edged with white much more widely on outer webs than on inner webs, usually forming "tear drop"	
Tertials	Same length as secondaries; most distal purple on outer web to feather edge		Same length as secondaries; most distal purple or yellowish on outer web but margined with dull blackish	
	Others: Dark iridescent blue-black; second most distal white-edged at its tip	Others: Bronze-colored pointed with frayed tips		Others: Bronze-colored with rounded tips
		After molt: Similar to adult male	After molt: Similar to adult female	
Greater tertial coverts	Broadly rounded; dark blue	Small narrow yellowish to green; often very frayed	Longer than other greater coverts; purple and yellowish with dark square ends	
		After molt: Similar to adult male but usually darker than surrounding coverts	After molt: Similar to adult female	
Other upperwing coverts	Greater and middle coverts same color as tertial coverts; bluish color extends anteriorly over three or more rows of coverts	Greater coverts and middle coverts paler than blue tertial coverts; bluish color often confined to two rows of coverts nearest secondaries	Greater coverts often iridescent only on outer webs; blue usually confined to two rows of coverts anterior to secondaries	Greater coverts usually iridescent on both webs; blue extends anteriorly over three or more rows of coverts

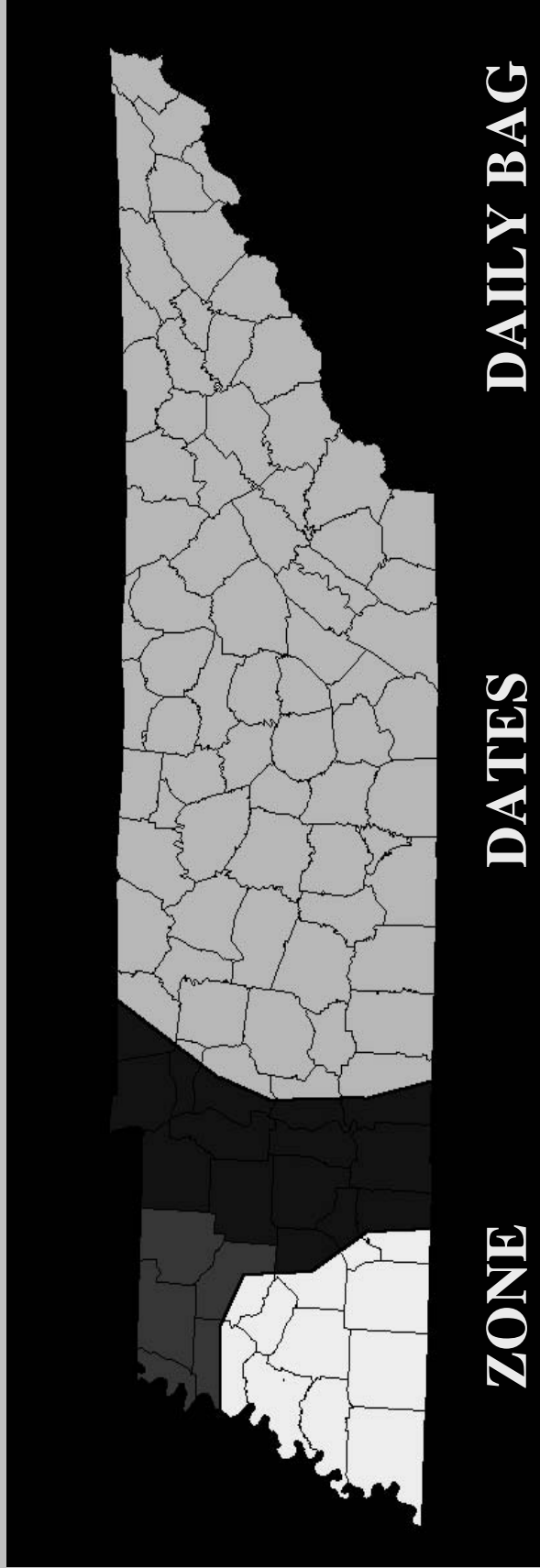
**TWRA WOOD DUCK BANDING ACCOMPLISHMENTS 2005**

Location	Date	Number Banded	AHY		HY		Total
			M	F	M	F	
<b>Region 1</b>							
Crockett County	30-Jul-05	17	3	5	3	6	17
Cypress Pond	3-Aug-05	53	9	7	14	23	53
Cypress Pond	8-Aug-05	31	7	8	5	11	31
Cypress Pond	15-Aug-05	24	1	4	12	7	24
Fort Pillow	8-Jul-05	41	1	2	18	20	41
	25-Jul-05	56	0	1	29	26	56
	8-Aug-05	52	1	2	29	20	52
	22-Aug-05	15	0	1	7	7	15
Tully	24-Jun-05	37	2	3	16	16	37
	18-Jul-05	15	0	1	8	6	15
	4-Aug-05	35	1	2	15	17	35
	15-Aug-05	36	0	0	21	15	36
	23-Aug-05	15	0	1	7	7	15
<b>TOTALS</b>		<b>427</b>	<b>25</b>	<b>37</b>	<b>184</b>	<b>181</b>	<b>427</b>
<b>Region 2</b>							
AEDC	22-Aug-05	7	2	3	1	1	7
Old Hickory-Barton's	10-Aug-05	35	6	4	11	14	35
Haynes Bottom	4-Aug-05	35	2	0	18	15	35
	25-Aug-05	47	6	8	18	15	47
Cheatham -Pardue	4-Aug-05	32	2	4	21	5	32
Williamsport	4-Jul-05	13	0	5	5	3	13
	8-Jul-05	6	0	2	2	2	6
	10-Jul-05	6	1	4	0	1	6
	13-Jul-05	5	0	3	1	1	5
	15-Jul-05	4	0	3	1	0	4
	22-Jul-05	11	0	3	4	4	11
<b>TOTALS</b>		<b>169</b>	<b>18</b>	<b>24</b>	<b>74</b>	<b>53</b>	<b>169</b>
<b>Region 3</b>							
Battle Creek	16-Aug-05	24	12	2	5	5	24
Hiwassee	19-Aug-05	34	2	0	20	12	34
Monroe Cemetery	19-Aug-05	16	1	4	9	2	16
Oak Ridge	19-Jul-05	9	4	1	1	3	9
	4-Aug-05	3	0	1	1	1	3
	30-Aug-05	2	0	1	0	1	2
<b>TOTALS</b>		<b>88</b>	<b>19</b>	<b>9</b>	<b>36</b>	<b>24</b>	<b>88</b>
<b>Region 4</b>							
Fordtown Road	29-Aug-05	9	0	1	4	4	9
Lick Creek	12-Aug-05	20	0	2	12	6	20
	19-Aug-05	27	0	5	12	10	27
	25-Aug-05	42	3	5	23	11	42
	29-Aug-05	16	1	5	7	3	16
<b>TOTALS</b>		<b>114</b>	<b>4</b>	<b>18</b>	<b>58</b>	<b>34</b>	<b>114</b>
<b>STATEWIDE TOTALS</b>		<b>798</b>	<b>66</b>	<b>88</b>	<b>352</b>	<b>292</b>	<b>798</b>

# GEESE



# Canada Goose Season 2005/06



ZONE	DATES	DAILY BAG
Northwest MVP	Dec 3 - Feb 12	2
Southwest MVP	Oct 1 - Oct 9	
Kentucky/Barkley	Dec 11 - Jan 29	2
	Oct 1 - Oct 9	
Remainder of State	Dec 11 - Jan 29	2
	Oct 1 - Oct 9	2
	Dec 1 - Jan 30	

ESTIMATES OF ACTIVE GOOSE HUNTERS IN THE MISSISSIPPI FLYWAY\* (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL
1999	76,900	59,800	33,800	16,000	29,200	16,500	23,400	14,800	6,200	19,200	21,700	28,100	4,500	2,400
2000	72,200	56,400	33,500	17,700	33,000	14,800	32,600	15,500	7,300	25,200	31,100	19,500	6,200	2,600
2001**	67,200	50,600	22,100	15,900	27,500	15,900	30,100	18,300	14,700	24,400	30,400	20,100	4,600	6,700
2002**	66,300	61,800	28,400	16,100	26,000	16,800	28,200	12,900	13,100	19,800	38,900	14,700	3,200	7,400
2003**	70,000	65,700	45,800	17,500	28,600	15,400	25,500	16,600	13,200	22,800	16,800	22,000	4,200	7,300
2004**	72,100	51,100	34,300	15,000	27,900	14,900	27,000	13,100	11,200	22,800	17,800	17,000	6,500	5,500
2005**	58,600	51,100	38,000	15,500	26,400	12,900	23,000	16,200	9,800	24,000	11,600	19,500	4,600	4,900
AVERAGES:														
99-00	74,550	58,100	33,650	16,850	31,100	15,650	28,000	15,150	6,750	22,200	26,400	23,800	5,350	2,500
01-05	66,840	56,060	33,720	16,000	27,280	15,180	26,760	15,420	12,400	22,760	23,100	18,660	4,620	6,360

\* - Estimates for the entire flyway are not possible because of HIP certification in multiple states.

\*\* - Preliminary

DF 07/13/06



ESTIMATES OF DAYS HUNTED BY ACTIVE GOOSE HUNTERS IN THE MISSISSIPPI FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MF TOTAL
1999	494,200	343,900	165,800	107,000	276,700	101,200	146,600	93,600	66,800	82,400	204,300	140,200	22,400	3,800	2,248,800
2000	466,200	309,100	182,700	116,900	246,100	95,300	177,400	82,700	42,500	129,600	213,100	119,300	30,900	17,300	2,229,200
2001*	415,500	270,200	113,900	104,100	222,500	99,600	204,800	109,200	94,200	120,500	234,400	114,300	16,000	38,400	2,157,600
2002*	425,200	336,100	139,500	113,600	205,700	112,200	188,400	75,000	138,900	95,500	431,500	103,600	14,200	36,400	2,415,800
2003*	431,700	425,500	247,700	117,600	234,000	113,700	159,000	89,700	95,800	127,200	154,300	125,700	15,500	23,400	2,360,700
2004*	470,600	314,400	177,200	118,300	217,700	111,300	160,000	59,900	106,500	85,800	117,700	96,000	31,800	19,700	2,086,800
2005*	366,300	327,600	186,600	103,200	187,900	90,200	143,900	71,400	73,500	108,800	95,400	116,800	17,000	40,000	1,928,500
AVERAGES:															
99-00	480,200	326,500	174,250	111,950	261,400	98,250	162,000	88,150	54,650	106,000	208,700	129,750	26,650	10,550	2,239,000
01-05	421,860	334,760	172,980	111,360	213,560	105,400	171,220	81,040	101,780	107,560	206,660	111,280	18,900	31,580	2,189,880

\* - Preliminary

DF 07/13/06

AVERAGE DAYS PER ACTIVE GOOSE HUNTER IN THE MISSISSIPPI FLYWAY\*  
(HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL
1999	6.43	5.75	4.91	6.69	9.48	6.13	6.26	6.32	10.77	4.29	9.41	4.99	4.98	1.58
2000	6.46	5.48	5.45	6.60	7.46	6.44	5.44	5.34	5.82	5.14	6.85	6.12	4.98	6.65
2001**	6.18	5.34	5.15	6.55	8.09	6.26	6.80	5.97	6.41	4.94	7.71	5.69	3.48	5.73
2002**	6.41	5.44	4.91	7.06	7.91	6.68	6.68	5.81	10.60	4.82	11.09	7.05	4.44	4.92
2003**	6.17	6.48	5.41	6.72	8.18	7.38	6.24	5.40	7.26	5.58	9.18	5.71	3.69	3.21
2004**	6.53	6.15	5.17	7.89	7.80	7.47	5.93	4.57	9.51	3.76	6.61	5.65	4.89	3.58
2005**	6.25	6.41	4.91	6.66	7.12	6.99	6.26	4.41	7.50	4.53	8.22	5.99	3.70	8.16
AVERAGES:														
99-00	6.44	5.62	5.18	6.65	8.47	6.29	5.85	5.83	8.30	4.72	8.13	5.55	4.98	4.12
01-05	6.31	5.96	5.11	6.97	7.82	6.96	6.38	5.23	8.26	4.73	8.56	6.02	4.04	5.12

\* - Estimates for the entire flyway are not possible because of HIP certification in multiple states.

DF 07/13/06

\*\* - Preliminary

AVERAGE SEASONAL GOOSE BAG PER ACTIVE GOOSE HUNTER IN THE MISSISSIPPI FLYWAY\*  
(HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL
1999	3.1	1.9	2.8	3.9	4.1	3.3	2.8	5.9	4.3	7.4	1.8	7.3	7.4	1.0
2000	3.2	1.6	3.5	4.2	4.4	4.7	3.1	4.5	4.7	8.6	2.0	7.3	4.9	1.5
2001**	3.7	1.3	3.9	4.0	2.3	3.0	3.5	8.1	1.9	8.4	1.8	8.7	1.8	2.2
2002**	3.6	1.7	3.6	4.2	2.9	3.6	3.7	4.3	1.9	8.4	1.9	8.5	4.2	2.3
2003**	4.1	2.3	4.2	4.1	4.9	4.7	3.5	4.5	3.3	7.1	2.5	7.8	4.1	2.4
2004**	3.3	1.9	3.8	4.7	3.7	4.7	3.6	3.8	4.3	5.0	3.3	7.0	3.2	4.1
2005**	3.5	2.1	3.7	5.1	4.2	4.5	3.9	4.9	3.7	5.6	2.3	8.1	5.9	3.5
AVERAGES:														
99-00	3.2	1.8	3.2	4.1	4.3	4.0	3.0	5.2	4.5	8.0	1.9	7.3	6.2	1.3
01-05	3.8	1.8	3.9	4.1	3.4	3.8	3.6	5.6	2.4	8.0	2.1	8.3	3.4	2.3

\* - Estimates for the entire flyway are not possible because of HIP certification in multiple states.

DF 07/13/06

\*\* - Preliminary

AVERAGE DAILY GOOSE BAG PER ACTIVE GOOSE HUNTER IN THE MISSISSIPPI FLYWAY  
(HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MF AVG
1999	0.48	0.33	0.56	0.58	0.43	0.54	0.45	0.93	0.40	1.71	0.19	1.46	1.48	0.61	0.57
2000	0.49	0.29	0.64	0.64	0.59	0.73	0.57	0.84	0.80	1.67	0.29	1.19	0.99	0.23	0.62
2001*	0.59	0.24	0.76	0.61	0.29	0.47	0.51	1.35	0.30	1.69	0.23	1.53	0.51	0.39	0.61
2002*	0.56	0.32	0.73	0.60	0.36	0.53	0.55	0.74	0.18	1.75	0.17	1.21	0.95	0.46	0.51
2003*	0.66	0.36	0.77	0.60	0.59	0.63	0.55	0.83	0.45	1.28	0.27	1.37	1.12	0.74	0.65
2004*	0.50	0.31	0.73	0.60	0.48	0.63	0.60	0.82	0.45	1.32	0.49	1.25	0.66	1.14	0.59
2005*	0.57	0.33	0.76	0.77	0.59	0.65	0.63	1.12	0.49	1.24	0.28	1.35	1.59	0.43	0.66
AVERAGES:															
99-00	0.49	0.31	0.60	0.61	0.51	0.64	0.51	0.88	0.60	1.69	0.24	1.33	1.23	0.42	0.60
01-05	0.58	0.31	0.75	0.64	0.46	0.58	0.57	0.97	0.37	1.46	0.29	1.34	0.96	0.63	0.60

\*-Preliminary

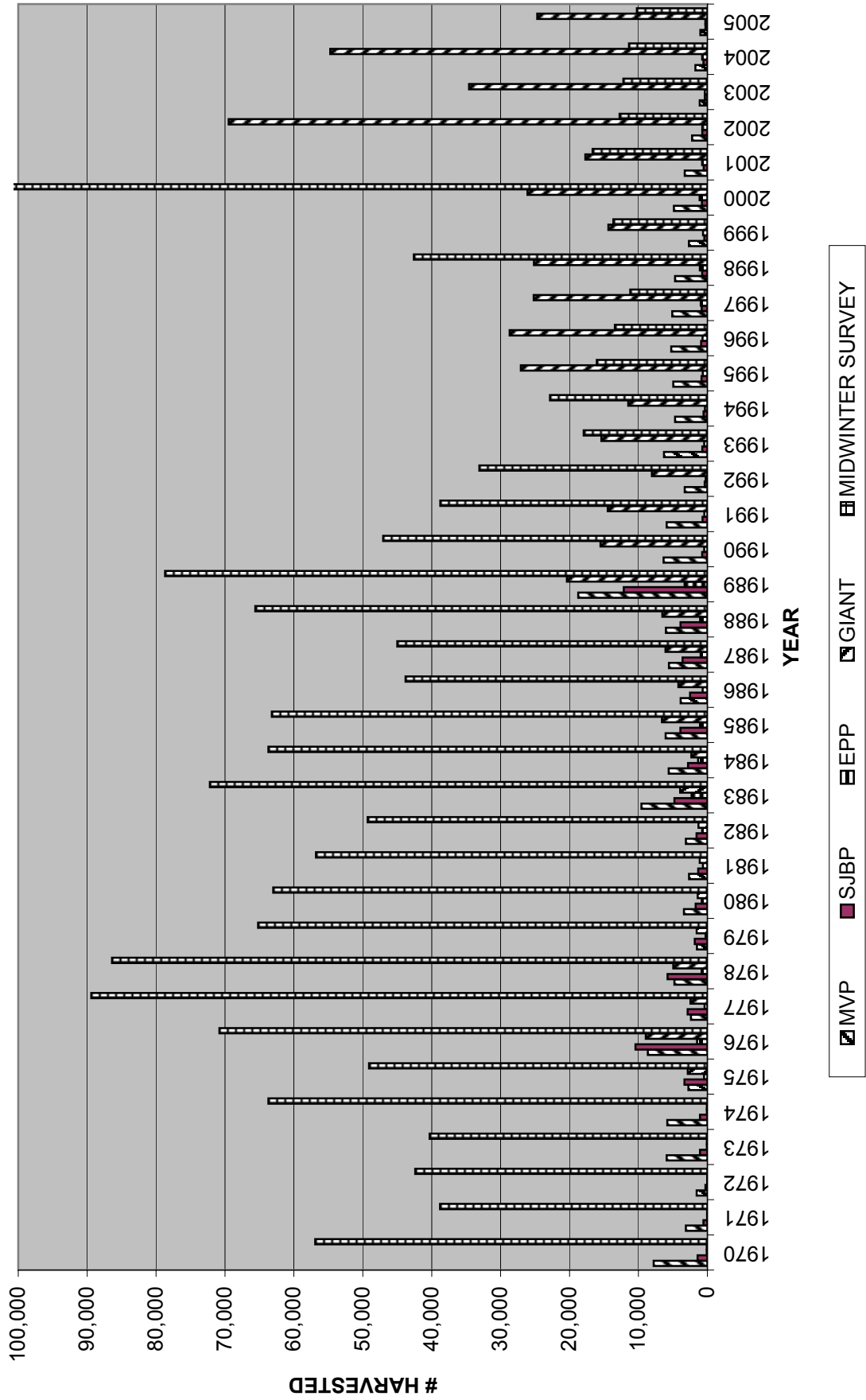
DF 07/13/06

**Tennessee Canada Goose Harvest, 1962/63 - 2005/06**  
**Harvest by Population, 1970/71 - 2001/02: Harvest Quotas 1983/84 - 2001/02**

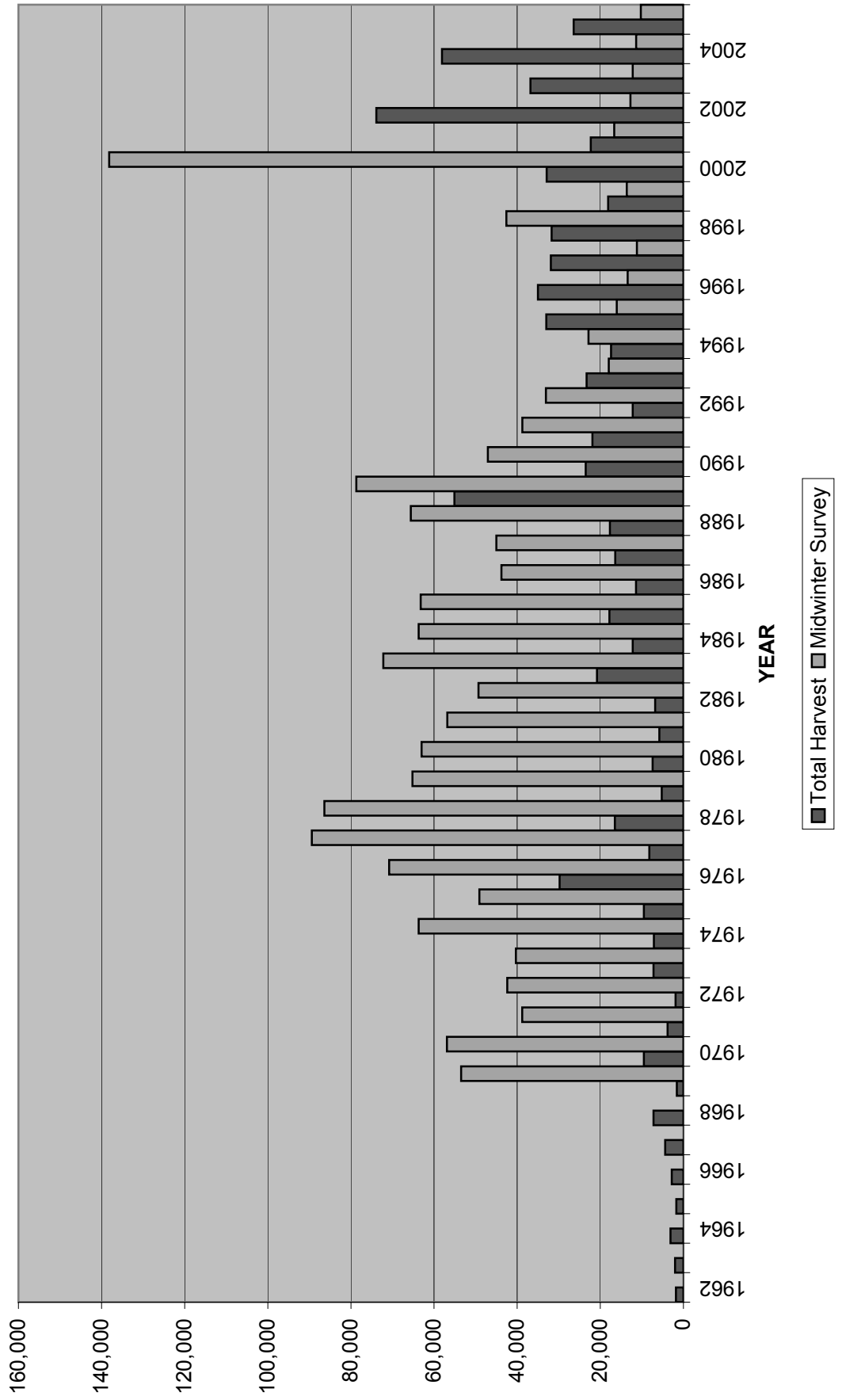
YEAR	MVP		MVP		SBJP		SBJP		EPP		GIANT (Total)	
	Harvest	Derivation	Harvest	Quota	Derivation	Harvest	Quota	Derivation	Harvest	Quota	Derivation	Harvest
1962	1,800											
1963	2,000											
1964	3,100											
1965	1,700											
1966	2,800											
1967	4,400											
1968	7,200											
1969	1,600											
1970	9,500	0.82	7,790		0.15	1,425		0.01	95		0.01	95
1971	3,800	0.82	3,116		0.15	570		0.01	38		0.01	38
1972	1,900	0.82	1,558		0.15	285		0.01	19		0.01	19
1973	7,200	0.82	5,904		0.15	1,080		0.01	72		0.01	72
1974	7,100	0.82	5,822		0.15	1,065		0.01	71		0.01	71
1975	9,500	0.29	2,755		0.35	3,325		0.05	475		0.30	2,850
1976	29,800	0.29	8,642		0.35	10,430		0.05	1,490		0.30	8,940
1977	8,200	0.29	2,378		0.35	2,870		0.05	410		0.30	2,460
1978	16,500	0.29	4,785		0.35	5,775		0.05	825		0.30	4,950
1979	5,200	0.29	1,508		0.35	1,820		0.05	260		0.30	1,560
1980	7,400	0.46	3,404		0.23	1,702		0.11	814		0.19	1,406
1981	5,800	0.46	2,668		0.23	1,334		0.11	638		0.19	1,102
1982	6,800	0.46	3,128		0.23	1,564		0.11	748		0.19	1,292
1983	20,800	0.46	9,568	1,500	0.23	4,784		0.11	2,288		0.19	3,952
1984	12,200	0.46	5,612	1,500	0.23	2,806		0.11	1,342		0.19	2,318
1985	17,800	0.34	6,052	1,500	0.22	3,916		0.06	1,068		0.37	6,586
1986	11,400	0.34	3,876	6,500	0.22	2,508		0.06	684		0.37	4,218
1987	16,400	0.34	5,576	7,200	0.22	3,608		0.06	984		0.37	6,068
1988	17,682	0.34	6,012	8,900	0.22	3,890		0.06	1,061		0.37	6,542
1989	55,100	0.34	18,734	12,400	0.22	12,122		0.06	3,306		0.37	20,387
1990	23,500	0.27	6,345	16,500	0.03	752		0.02	470		0.66	15,510
1991	21,900	0.27	5,913	22,500	0.03	701		0.02	438		0.66	14,454
1992	12,200	0.27	3,294	8,900	0.03	390		0.02	244		0.66	8,052
1993	23,300	0.27	6,291	6,800	0.03	746	1,800	0.02	466		0.66	15,378
1994	17,400	0.27	4,698	8,100	0.03	557	1,800	0.02	348		0.66	11,484
1995	33,000	0.15	4,950	14,400	0.03	858	1,800	0.02	660		0.82	27,060
1996	35,000	0.15	5,250	8,700	0.03	910	1,800	0.02	700		0.82	28,700
1997	31,900	0.16	5,104	6,900	0.03	829	1,800	0.03	957		0.79	25,201
1998	31,700	0.15	4,683	3,800	0.02	765	1,800	0.03	1,087		0.79	25,164
1999	18,100	0.15	2,674	9,500	0.02	437	1,800	0.03	621		0.79	14,368
2000	32,900	0.15	4,860	9,900	0.02	794	1,800	0.03	1,129		0.79	26,116
2001	22,300	0.15	3,294	4,800	0.02	538	N/A	0.03	765		0.79	17,702
2002	73,892	0.03	2,217	N/A	0.01	739	N/A	0.01	739		0.94	69,458
2003	36,794	0.03	1,104	N/A	0.01	368	N/A	0.01	368		0.94	34,586
2004	58,100	0.03	1,743	N/A	0.01	581	N/A	0.01	751		0.94	54,723
2005	26,400	0.04	1,019	N/A	0.01	282	N/A	0.01	296		0.93	24,679

USFWS Harvest and Survey Data - Gamble and Peterson 1999; Population derivations from Moser 2002, unpublished data.  
MVP-Mississippi Valley Population; SBJP-Southern James Bay Population; EPP-Eastern Prairie Population; Giant-U.S. & Southern Canada Summer Resident Canada Geese  
USFWS Harvest and Survey Data - Fronczak, D. 2002, 2003, 2004.

# TENNESSEE - CANADA GOOSE - ALL POPULATIONS



**TENNESSEE CANADA GOOSE HARVEST 1962-2005  
AND MIDWINTER SURVEY 1969-2005**



Breeding-ground survey estimates of Mississippi Valley Population Canada geese

Year	Spring Population		Breeding Component <sup>1</sup>		% Breeding	Nests	
	Number	95% C.I.	Number	95% C.I.		Number	95% C.I.
1989	657,834	163,638	379,950	66,872	58	189,975	33,436
1990	824,982	145,828	494,026	84,436	60	247,013	42,218
1991 <sup>2</sup>	620,277	165,371	236,950	53,904	38	118,475	26,952
1992	782,261	170,777	414,162	79,066	53	207,081	39,533
1993	547,121	109,762	402,440	47,766	74	201,220	23,883
1994	741,170	170,839	390,042	91,096	53	195,021	45,548
1995	796,226	162,770	375,316	65,664	47	187,658	32,832
1996	593,920	118,978	350,514	53,316	59	175,257	26,658
1997	650,834	152,737	414,748	54,288	64	207,374	27,144
1998	370,545	75,458	297,466	48,636	80	148,733	24,318
1999	860,838	179,358	453,966	64,656	53	226,983	32,328
2000	865,165	382,162	344,986	68,706	40	172,493	34,353
2001	386,553	75,666	329,016	47,408	85	164,508	23,704
2002	598,550	148,423	286,548	49,490	48	143,274	24,745
2003	531,495	119,522	360,052	80,264	68	180,026	40,132
2004 <sup>3</sup>	726,979	153,835	276,344	61,302	----	138,172	30,651
2005	539,319	104,361	344,906	49,176	64	172,453	24,588
2006	704,954	137,954	384,353	64,133	55	192,177	32,067
Averages:							
1989-93	686,495		385,506		56	192,753	
1994-98	630,539		365,617		58	182,809	
1999-03	648,520		354,914		55	177,457	
2004-06	657,084		335,201		51	167,601	
1989-05	652,592		361,849		55	180,924	
% Change: 2006 vs.							
2005	31%		11%			11%	
1989-05	8%		6%			6%	

<sup>1</sup> Breeding Component = No. nests x 2

KG 07/05/06

<sup>2</sup> - Survey flown during late incubation and hatching. Estimates biased low due to visibility differences.

<sup>3</sup> Survey was delayed due to late spring break-up. Spring population and fall-flight estimates likely are inflated by molt-migrants.



Breeding-ground survey estimates<sup>1</sup> of Southern James Bay Population Canada geese

Year	Spring Population		Observed as Breeding Pairs		Observed as Non-Breeders				
	Akimiski Is.	Mainland	Total	Akimiski Is.	Mainland	Total	Akimiski Is.	Mainland	Total
1990	48,089	34,279	82,368	32,724	34,026	66,750	15,365	253	15,618
1991	32,234	75,835	108,069	21,086	55,498	76,584	11,147	20,336	31,483
1992	25,816	65,806	91,622	20,452	53,314	73,766	5,365	12,491	17,856
1993	20,665	56,680	77,345	14,090	38,872	52,962	6,576	17,808	24,384
1994	40,351	55,367	95,718	16,024	29,114	45,138	24,326	26,253	50,579
1995	25,060	68,897	93,957	15,962	57,980	73,942	9,097	10,917	20,014
1996	36,704	86,283	122,987	19,768	50,702	70,470	16,936	35,581	52,517
1997	28,872	66,230	95,102	22,372	62,944	85,316	6,500	3,286	9,786
1998	31,290	85,770	117,060	17,900	57,980	75,880	13,390	27,790	41,180
1999	31,356	105,267	136,623	22,876	85,188	108,064	8,480	20,080	28,560
2000	23,149	65,915	89,064	17,018	60,954	77,972	6,131	4,962	11,093
2001	26,977	75,693	102,670	18,464	49,836	68,300	8,513	25,857	34,370
2002	21,079	55,212	76,291	16,116	41,996	58,112	4,963	13,216	18,179
2003	17,323	89,188	106,511	15,374	74,866	90,240	1,949	14,322	16,271
2004	16,694	84,343	101,037	11,820	63,352	75,172	4,873	20,991	25,864
2005 <sup>2</sup>	13,608	32,670	46,278	9,782	32,424	42,206	3,826	246	4,072
2006	22,038	138,392	160,430	16,980	111,900	128,880	5,057	26,492	31,549
<b>Averages:</b>									
1990-94	33,431	57,593	91,024	20,875	42,165	63,040	12,556	15,428	27,984
1995-99	30,656	82,489	113,146	19,776	62,959	82,734	10,881	19,531	30,411
2000-04	21,044	74,070	95,115	15,758	58,201	73,959	5,286	15,870	21,155
2005-06	17,823	85,531	103,354	13,381	72,162	85,543	4,442	13,369	17,811
1990-05	27,454	68,965	96,419	18,239	53,065	71,305	9,215	15,899	25,114
<b>% Change:</b>									
2006 vs.:									
2005	62%	324%	247%	74%	245%	205%	32%	10669%	675%
1990-05	-20%	101%	66%	-7%	111%	81%	-45%	67%	26%

<sup>1</sup> - Estimates = geese observed X 1.4 visibility correction

<sup>2</sup> - Survey flown with different aircraft (Aero Commander) and during late incubation and hatching. Estimates biased low due to visibility differences.

Spring population estimates of Mississippi Flyway Giant Canada geese

State/Prov.	2006		2005		2004		2003		2002		2001		2000	
	Prelim. Estimate	95% Conf Limits	Final Estimate	95% Conf Limits	Final Estimate	95% Conf Limits	Final Estimate	95% Conf Limits	Final Estimate	95% Conf Limits	Final Estimate	95% Conf Limits	Final Estimate	95% Conf Limits
Alabama 4	29,100		28,800	n/a	27,900	n/a	27,000	n/a	25,000	n/a	20,000	n/a	12,000	n/a
Arkansas 4	30,000		30,000	n/a	30,000	n/a	27,000	n/a	25,000	n/a	25,000	n/a	25,000	n/a
Illinois 1	109,400	27,800	93,400	25,450	103,250	21,450	81,600	20,850	83,850	25,300	85,700	25,900	102,900	28,700
Indiana 1(01, 03-06), 4(02)	132,589	65,097	94,979	27,997	80,222	29,423	106,558	n/a	121,052	48,840	121,052	48,840	121,340	46,121
Iowa 1(93-96,00-01,05), 3 otherwise	101,460	16,349	91,141	14,787	69,900	n/a	65,539	n/a	61,262	n/a	53,839	9,653	54,519	8,490
Kentucky 1	36,500		31,451	11,169	35,211	20,901	23,338	11,083	27,322	9,251	36,526	9,185	38,508	18,634
Louisiana 4	2,500		2,500	n/a	2,500	n/a	2,500	n/a	2,500	n/a	2,000	n/a	2,000	n/a
Manitoba 4(98-01,03), ** (02) *(04-06)	225,000		225,000		225,000		225,000	n/a	196,422	n/a	110,000	n/a	110,000	n/a
Michigan 5	187,044	44,510	168,701	51,911	171,825	46,874	216,200	59,400	245,597	65,828	233,860	56,176	324,710	76,131
Minnesota 2(98-00), 1(01-06)	375,571	108,436	338,254	90,541	374,747	107,303	304,230	78,428	334,685	134,286	285,000	69,500	294,900	n/a
Mississippi 4	28,500	n/a	28,500	n/a	26,250	n/a	25,000	n/a	20,000	n/a	20,000	n/a	20,000	n/a
Missouri 1	64,593	20,220	53,487	21,985	65,172	29,976	62,806	19,519	64,222	24,045	50,516	14,935	77,128	27,710
Ohio 1	80,709	11,663	98,179	15,834	84,640	5,420	70,498	9,800	98,556	14,446	142,648	22,282	90,286	29,732
Ontario 9(98-00), 10(01-02), *(03-06)	102,798		102,798		102,798		102,798	n/a	102,798	n/a	87,678	n/a	56,825	14,041
Tennessee 1, *(06)	45,880	10,707	72,105	22,855	53,254	15,980	57,488	15,352	60,599	15,011	69,752	25,938	69,778	24,414
Wisconsin 5	134,683	41,009	123,836	20,042	149,004	47,043	235,448	84,568	143,484	52,555	73,669	24,712	112,040	38,470
<b>Flyway Total</b>	<b>1,686,327</b>		<b>1,583,131</b>		<b>1,600,673</b>		<b>1,633,003</b>		<b>1,612,349</b>		<b>1,417,240</b>		<b>1,511,904</b>	

State/Prov.	1999		1998		1997		1996		1995		1994		1993	
	Final Estimate	95% Conf Limits	Final Estimate	95% Conf Limits	Final Estimate	95% Conf Limits	Final Estimate	95% Conf Limits	Final Estimate	95% Conf Limits	Final Estimate	95% Conf Limits	Final Estimate	95% Conf Limits
Alabama 4 (*03)	12,000	n/a	9,000	n/a	4,030	8	4,390	6	18,000	4	17,000	4	16,000	4
Arkansas 4	20,000	n/a	10,000	n/a	4,785	8	4,390	6	3,300	6	3,000	6	3,000	6
Illinois 1	111,800	27,100	105,650	36,350	72,720	27,500	154,236	55,700	107,000	55,700	114,200	47,900	106,200	67,700
Indiana 1(01, 03-05), 4(02)	88,966	34,142	78,857	21,939	92,940	37,100	86,582	6	101,800	33,600	69,600	25,300	67,500	48,000
Iowa 1(93-96,00-01,05), 3 otherwise	44,400	9,760	44,860	9,860	42,300	10,570	40,655	8,160	32,100	6,680	28,025	6,460	38,000	7
Kentucky 1	46,395	11,046	23,495	7,810	19,670	7,530	29,071	16,720	15,000	7,000	20,675	19,600	18,000	6
Louisiana 4	2,000	n/a	1,500	n/a	4,030	8	4,390	6	3,300	4	3,000	4	3,000	4
Manitoba 4(98-01,03), ** (02) *(04-05)	110,000	n/a	100,000	n/a	85,400	8	93,100	4	70,000	4	38,000	4	38,000	4
Michigan 5	248,500	64,309	284,300	74,176	212,612	59,548	185,538	52,236	174,131	48,017	196,515	70,428	152,340	43,500
Minnesota 2(98-00), 1(01-05)	210,200	n/a	214,600	n/a	169,000	2	190,200	6	207,200	6	201,600	6	138,000	6
Mississippi 4	20,000	n/a	20,000	n/a	10,980	8	11,970	6	9,000	4	9,000	4	9,000	4
Missouri 1	56,750	10,987	44,826	8,816	41,020	22,800	38,868	19,530	32,200	14,200	35,050	19,400	30,300	18,000
Ohio 1	84,208	8,904	77,942	14,136	72,000	19,950	74,527	18,350	69,300	26,050	71,000	22,300	58,000	30,000
Ontario 9(98-00), 10(01-02), *(03-05)	55,900	n/a	57,300	n/a	71,570	8	78,017	28,840	107,950	6	74,000	38,800	56,200	22,600
Tennessee 1	53,077	17,408	65,868	23,476	54,120	8	59,120	6	44,300	6	40,200	6	38,000	6
Wisconsin 5	87,800	31,366	76,600	29,841	81,500	32,000	77,300	5	46,200	16,800	39,700	40,700	35,300	55,000
<b>Flyway Total</b>	<b>1,251,996</b>		<b>1,214,798</b>		<b>1,038,677</b>		<b>1,132,354</b>		<b>1,040,781</b>		<b>960,565</b>		<b>806,840</b>	

\*estimate used from previous year  
 \*\*estimate provided by CWS from aerial duck survey  
 1 Estimate derived from aerial survey (helicopter plot method)  
 2 Estimate derived from aerial survey (fixed-winged transects), incomplete coverage.  
 3 Estimate derived from ground count  
 4 Agency's best estimate  
 5 Estimate from aerial survey (fixed-winged transects), helicopter or ground count visibility corrections, incomplete coverage.  
 6 Estimate derived using weighted means from other states and stratified maps provided by state/province.  
 7 Estimate based on extrapolation from survey conducted in part of state.  
 8 Estimate is the product of last years estimate and the average change in surveyed regions.  
 9 Estimate from ground-based plot survey  
 10 Estimate based on extrapolation of population from average growth rate estimate

Breeding-ground survey estimates of Eastern Prairie Population Canada geese

YEAR	Singles <sup>1</sup>		Pairs <sup>1</sup>		Geese in groups <sup>1</sup>		Singles + Pairs <sup>2</sup>		Total EPP <sup>2</sup>		Productive <sup>1</sup>	
	Estimate	95% CI	Estimate	95% CI	Estimate	95% CI	Estimate	95% CI	Estimate	95% CI	Estimate	95% CI
1972	40,905	8,225	54,063	10,573	29,764	10,885	94,969	16,696	124,733	17,260		
1973	47,952	8,596	68,630	14,380	21,063	7,073	116,581	18,573	137,644	18,185		
1974	35,597	6,608	61,062	12,716	23,213	6,859	96,659	17,136	119,871	15,887		
1975	63,995	11,549	57,542	9,623	22,815	8,902	121,536	18,313	144,353	17,471		
1976	70,596	13,556	97,791	15,596	48,153	14,684	168,388	22,089	216,541	25,350		
1977	45,459	9,648	65,348	12,810	52,961	14,159	110,808	19,518	163,769	21,393		
1978	27,286	7,131	83,911	12,659	68,529	18,475	111,197	16,696	179,725	23,504		
1979	26,850	6,348	45,989	9,497	26,537	9,808	72,839	12,640	99,377	15,056		
1980	----- No survey conducted in 1980 -----											
1981	31,331	6,787	47,534	10,109	46,614	15,183	78,865	14,480	125,479	19,462		
1982	43,020	8,137	53,407	8,762	35,375	12,044	96,427	13,538	131,802	16,971		
1983	27,010	5,836	65,806	10,061	62,324	13,944	92,817	12,215	155,140	18,159		
1984	48,636	8,483	63,369	9,747	23,500	8,539	112,004	14,661	135,505	15,488	60,309	9,722
1985	42,983	9,345	62,613	10,204	52,846	14,754	105,595	16,347	158,442	20,226	62,419	11,276
1986	57,014	10,227	69,365	12,235	68,395	15,997	126,379	18,534	194,773	22,588	63,848	11,466
1987	50,297	9,421	95,557	14,904	57,332	15,707	145,854	19,726	203,186	23,614	59,710	10,864
1988	57,739	8,843	79,245	11,977	72,199	21,870	136,984	17,619	209,183	26,456	65,079	9,942
1989	62,557	9,722	69,545	11,590	78,067	17,802	132,103	16,710	210,169	23,362	66,416	10,085
1990	66,729	10,550	96,669	12,977	68,439	15,962	163,398	18,391	231,836	23,120	79,555	11,652
1991	66,190	12,847	101,237	15,160	44,381	15,107	167,427	23,004	211,809	24,962	80,607	15,048
1992	61,950	9,722	96,456	14,145	44,139	11,414	158,406	19,859	202,545	20,612	73,739	11,445
1993	71,553	10,344	64,690	11,126	21,229	7,739	136,242	16,391	157,473	17,049	82,761	11,339
1994	67,681	11,212	68,556	11,424	74,545	18,790	136,237	17,107	210,782	24,683	77,668	11,816
1995	51,117	8,843	87,859	12,621	65,603	21,468	138,976	17,386	204,578	26,426	58,452	9,869
1996	55,304	9,573	85,671	13,801	49,388	15,283	140,975	19,653	190,363	22,709	66,679	10,952
1997	55,536	9,031	74,578	11,897	68,795	20,295	130,539	18,049	199,336	25,199	72,347	11,673
1998	57,161	10,413	42,137	8,341	26,606	11,056	99,298	15,643	125,904	17,327	64,269	11,507
1999	65,242	10,273	74,250	12,391	67,256	13,132	139,492	18,586	206,748	20,773	76,585	11,590
2000	32,800	6,927	97,238	15,795	145,089	34,685	130,038	19,345	275,127	38,736	40,813	7,898
2001	38,656	8,762	83,570	13,324	93,135	23,506	122,237	17,247	215,361	28,405	51,899	9,548
2002	66,807	10,731	84,866	13,142	64,630	20,161	151,964	19,095	216,303	26,351	81,715	11,997
2003	64,806	10,731	57,565	11,169	106,815	29,682	122,382	18,062	229,187	33,480	70,708	11,382
2004	41,897	7,265	103,596	16,244	145,160	32,258	145,493	19,835	290,653	36,840	48,088	7,898
2005	62,515	9,548	99,059	15,795	93,159	24,734	161,575	21,123	254,733	30,861	73,020	10,731
2006	61,051	9,548	73,758	12,583	50,590	25,915	134,809	18,715	185,400	30,350	71,959	11,590

<sup>1</sup> Estimates for geese represented by singles (excluding singles with nests) and pairs are "x 2" and are corrected for visibility (x 1.4). "Productive" geese are singles, pairs with nests or broods, and geese initially seen as a single (assumed to be a goose from a nest) and joined by another goose (assumed to be the gander). The estimate of grouped geese does not include groups larger than 15 birds from interior strata (assumed to be comprised largely of molting giant Canada geese).

<sup>2</sup> The total EPP estimates and estimates of singles + pairs are derived separately from the estimates of individual components; minor rounding errors may result.

ESTIMATES OF CANADA GOOSE HARVESTS IN THE MISSISSIPPI FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MF TOTAL
1999	233,663	110,576	92,872	37,027	117,624	54,900	65,784	34,582	26,578	11,868	37,074	0	14,186	2,300	839,034
2000	222,000	89,483	117,000	65,348	138,704	69,522	100,445	43,757	33,922	69,927	62,000	1,978	18,943	3,900	1,036,929
2001*	243,574	64,382	86,935	58,148	63,920	47,300	104,700	79,500	25,151	7,816	53,900	4,549	5,400	13,147	858,422
2002*	235,604	105,861	102,100	67,059	73,164	59,700	103,747	25,165	21,722	12,302	73,892	0	9,237	16,800	906,351
2003*	282,495	149,977	191,460	55,497	133,185	71,842	87,946	18,542	38,504	16,399	36,794	2,289	2,045	16,903	1,103,880
2004*	234,062	97,300	130,000	70,257	101,362	69,900	96,000	8,774	45,031	10,127	58,100	0	8,707	22,500	952,120
2005*	207,266	106,988	141,800	78,615	102,707	57,975	90,100	39,270	35,035	19,962	26,400	2,962	2,864	16,514	928,457
AVERAGES:															
99-00	227,832	100,030	104,936	51,188	128,164	62,211	83,115	39,170	30,250	40,898	49,537	989	16,565	3,100	937,982
01-05	240,600	104,901	130,459	65,915	94,868	61,343	96,499	34,250	33,089	13,321	49,817	1,960	5,651	17,173	949,846

\* - Preliminary

DF 07/13/06

ESTIMATES OF CANADA GOOSE HARVESTS IN THE ATLANTIC FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	ME	VT	NH	MA	CT	RI	NY	PA	WV	NJ	DE	MD	VA	NC	SC	GA	FL	AFTOTAL
1999	3,300	3,298	4,500	11,933	20,348	3,300	80,400	151,618	5,455	18,622	5,032	27,773	34,697	29,086	10,000	12,500	1,040	422,902
2000	10,545	3,738	5,200	11,300	20,066	3,165	89,581	111,159	3,675	25,603	2,752	29,949	47,332	29,477	11,100	12,175	0	416,818
2001*	5,165	4,303	3,809	12,376	17,800	3,800	95,277	215,062	4,900	22,174	11,244	152,860	53,088	44,547	16,400	24,400	700	687,904
2002*	12,800	7,129	6,364	13,100	20,462	3,500	104,985	199,941	5,200	27,906	21,605	114,140	71,470	50,388	31,400	26,300	0	716,689
2003*	9,637	3,630	5,257	12,874	18,661	5,000	96,750	188,183	4,200	26,046	11,703	131,431	62,578	41,859	14,800	25,300	0	657,910
2004*	7,000	7,127	3,200	15,200	20,400	4,378	109,305	167,600	7,400	24,559	14,003	141,974	54,983	28,129	16,961	21,200	0	643,419
2005*	7,826	9,341	5,300	12,649	20,900	3,086	119,980	180,943	3,900	24,183	19,029	170,034	61,444	73,200	27,600	35,100	0	774,515
AVERAGES:																		
99-00	6,922	3,518	4,850	11,616	20,207	3,232	84,991	131,388	4,565	22,112	3,892	28,861	41,014	29,281	10,550	12,338	520	419,860
01-05	8,486	6,306	4,786	13,240	19,645	3,953	105,259	190,346	5,120	24,974	15,517	142,088	60,713	47,624	21,432	26,460	140	696,087

\* - PRELIMINARY

DF 07/13/06

ESTIMATES OF CANADA GOOSE HARVESTS IN CANADA

YEAR	NFL	PEI	NS	NB	QUE	ONT	MAN	SAS	ALB	BC	NWT	YUK	NUV	CAN TOTAL
1975	8,185	6,382	8,836	2,182	12,791	33,441	94,330	96,197	85,708	8,913	0	142	0	357,107
1976	8,443	17,961	11,024	6,699	25,242	37,595	65,152	70,643	67,964	6,848	36	165	0	317,772
1977	12,578	18,788	8,563	2,451	52,300	57,626	44,236	66,429	59,302	8,758	218	127	0	331,376
1978	12,743	11,972	6,571	3,412	66,437	53,019	83,032	70,426	78,647	10,800	0	338	0	397,397
1979	13,401	10,827	5,261	2,614	50,012	64,249	94,496	79,544	79,636	12,931	0	289	0	413,260
1980	10,938	19,137	8,230	2,594	52,076	73,794	73,810	96,446	100,045	16,656	435	525	0	454,686
1981	10,202	14,264	7,384	3,744	25,291	49,902	57,927	84,914	95,051	15,843	0	233	0	364,755
1982	11,186	13,296	5,409	2,584	29,680	69,828	73,828	87,249	97,569	14,479	0	0	0	405,108
1983	13,652	15,768	9,534	7,370	37,429	69,648	71,671	127,184	108,097	14,877	0	397	0	475,627
1984	14,086	13,963	6,465	3,019	22,906	63,187	88,745	95,993	87,065	15,841	0	267	0	411,537
1985	9,669	17,226	6,829	4,071	28,132	76,234	103,441	88,407	103,077	18,510	0	96	0	455,692
1986	16,770	21,912	8,794	5,660	39,193	83,746	91,603	80,714	88,943	14,853	0	190	0	452,378
1987	12,509	21,387	10,942	3,015	80,270	87,481	78,007	106,528	124,796	14,830	550	165	0	540,480
1988	9,379	24,906	9,676	3,377	20,454	76,537	56,025	80,044	99,376	15,266	0	174	0	395,214
1989	8,845	23,143	15,666	6,629	55,852	101,591	77,752	84,582	121,589	16,418	367	0	0	512,434
1990	6,379	25,177	6,570	7,285	54,740	97,556	73,645	92,272	125,398	14,835	96	0	0	503,953
1991	5,885	21,459	9,845	5,229	51,940	83,736	72,591	91,033	111,919	18,211	275	510	0	472,633
1992	6,427	11,565	4,160	5,368	28,089	79,357	58,043	78,542	90,594	16,130	0	164	0	378,439
1993	9,266	17,809	12,300	6,520	39,741	80,768	71,407	77,787	90,177	12,943	0	90	0	418,898
1994	6,645	25,846	6,660	5,555	15,206	83,787	59,405	81,175	103,266	13,116	22	138	0	400,821
1995	9,527	16,968	8,306	5,467	9,560	88,135	49,639	82,155	114,818	11,297	0	128	0	396,000
1996	7,503	22,451	8,758	4,470	10,822	87,775	93,438	111,467	137,440	15,477	417	82	0	500,100
1997	5,165	16,769	7,542	6,105	11,748	89,680	107,304	104,934	125,629	14,602	0	0	0	489,478
1998	9,746	23,781	10,802	6,225	16,882	109,731	94,033	136,736	104,831	18,586	0	0	0	531,353
1999	5,464	32,944	12,633	6,079	38,702	100,751	68,822	146,112	137,527	16,093	25	90	0	565,242
2000	8,223	25,932	13,507	8,418	38,941	125,308	74,632	167,929	132,609	16,544	0	0	0	612,043
2001	5,553	25,136	10,554	5,615	67,763	148,705	102,034	146,829	111,751	13,076	0	0	0	637,016
2002	6,744	22,126	10,831	4,962	87,177	160,474	108,306	125,588	108,758	15,098	0	239	0	650,303
2003	5,004	20,983	4,915	11,245	111,883	160,321	88,720	136,933	117,139	13,659	0	0	0	670,802
2004	4,481	15,028	5,996	6,100	75,316	148,893	92,512	135,759	134,551	8,165	0	0	0	626,801
2005	5,516	16,109	5,240	6,866	103,490	155,736	118,545	139,825	149,148	904	0	0	0	701,379
AVERAGES:														
76-80	11,621	15,737	7,930	3,554	49,213	57,257	72,145	76,698	77,119	11,199	138	289	0	382,898
81-85	11,759	14,903	7,124	4,158	28,688	65,760	79,122	96,749	98,172	15,910	0	199	0	422,544
86-90	10,776	23,305	10,330	5,193	50,102	89,382	75,406	88,828	112,020	15,240	203	106	0	480,892
91-95	7,550	18,729	8,272	5,628	28,907	83,157	62,217	82,138	102,155	14,339	59	206	0	413,358
96-00	7,220	24,375	10,648	6,259	23,419	102,649	87,646	133,436	127,607	16,260	88	34	0	539,643
01-05	5,460	19,876	7,507	6,958	89,126	154,826	102,023	136,987	124,269	10,180	0	48	0	657,260

ESTIMATES OF SNOW GOOSE HARVESTS IN THE MISSISSIPPI FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MFTOTAL
1999 <sup>1</sup>	1,632	1,324	0	23,634	1,076	0	0	45,302	0	98,902	1,626	128,404	15,368	0	317,268
2000 <sup>1</sup>	8,000	517	0	8,653	7,265	0	0	24,375	0	118,002	0	65,267	4,371	0	236,451
2001 <sup>*1</sup>	2,526	418	165	5,152	0	0	0	42,500	1,524	87,933	0	86,439	1,620	876	229,153
2002 <sup>*1</sup>	4,197	339	0	1,141	454	0	0	14,224	472	61,509	1,508	29,915	2,842	0	116,602
2003 <sup>*1</sup>	4,305	1,223	240	14,380	1,816	258	0	23,500	0	53,025	4,906	59,523	9,885	497	173,557
2004 <sup>*1</sup>	1,438	0	0	1,043	1,269	0	0	37,316	990	73,024	0	67,444	9,732	0	192,256
2005 <sup>*1</sup>	234	675	0	585	5,588	411	0	37,722	865	88,721	0	94,028	19,636	486	248,952
AVERAGES:															
99-00	4,816	921	0	16,144	4,171	0	0	34,838	0	108,452	813	96,835	9,870	0	276,860
01-05	2,540	531	81	4,460	1,826	134	0	31,053	770	72,842	1,283	67,470	8,743	372	192,104

\* - Preliminary

<sup>1</sup> - Estimates include Conservation-Order Harvest. Estimates will be revised at a later date

DF 07/13/06

ESTIMATES OF ROSS' S GOOSE HARVESTS IN THE MISSISSIPPI FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MFTOTAL
1999 <sup>1</sup>	0	0	0	1,576	0	0	0	1,383	0	3,956	0	2,822	1,182	0	10,919
2000 <sup>1</sup>	0	0	0	0	330	0	0	1,175	0	3,496	0	3,296	0	0	8,297
2001* <sup>1</sup>	0	0	0	0	0	0	0	2,500	0	11,724	0	4,549	540	0	19,313
2002* <sup>1</sup>	0	0	0	0	0	0	0	1,094	472	3,588	0	3,324	355	0	8,833
2003* <sup>1</sup>	0	0	0	449	0	0	254	1,940	0	8,199	0	4,579	767	0	16,188
2004* <sup>1</sup>	0	0	0	0	0	0	0	2,777	0	533	0	624	1,024	0	4,958
2005* <sup>1</sup>	0	0	0	0	578	103	0	1,548	0	0	0	1,481	1,227	0	4,936
AVERAGES:															
99-00	0	0	0	788	165	0	0	1,279	0	3,726	0	3,059	591	0	9,608
01-05	0	0	0	90	116	21	51	1,972	94	4,809	0	2,911	783	0	10,846

\* - Preliminary

<sup>1</sup> Estimates include Conservation-Order Harvest. Estimates will be revised at a later date.

DF-07/13/06



ESTIMATES OF WHITE-FRONTED GOOSE HARVESTS IN THE MISSISSIPPI FLYWAY (HARVEST INFORMATION PROGRAM)

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MFTOTAL
1999	979	0	0	263	0	0	0	5,533	422	25,714	0	73,374	2,364	0	108,649
2000	0	0	0	0	0	0	0	294	0	24,474	0	71,859	7,286	0	103,913
2001*	0	0	0	0	340	0	0	2,500	1,524	31,265	0	71,882	540	876	108,928
2002*	0	0	0	0	682	0	0	0	2,833	23,579	0	80,881	711	0	108,685
2003*	0	0	0	0	1,454	0	0	539	0	21,319	0	85,850	1,449	0	110,611
2004*	0	0	0	0	1,269	0	0	333	1,979	29,316	0	51,832	1,537	0	86,266
2005*	0	338	0	0	1,927	411	0	1,161	0	26,616	0	59,230	3,273	0	92,956
AVERAGES:															
99-00	490	0	0	131	0	0	0	2,913	211	25,094	0	72,616	4,825	0	106,281
01-05	0	68	0	0	1,134	82	0	907	1,267	26,419	0	69,935	1,502	175	101,489

\* - Preliminary

DF 07/13/06

## GIANT CANADA GOOSE RESTORATION AND DISTRIBUTION IN TENNESSEE

Prepared by Edward L. Warr, Waterfowl Biologist, Tennessee Wildlife Resources Agency

During the 1800's, Canada geese were reported to nest in Tennessee at Reelfoot Lake (Bent 1925). Hanson (1965) wrote that Canada geese at Reelfoot were very plentiful in the fall, and large numbers remained the entire year. The Reelfoot resident was considerably heavier than its migratory relative (Hanson 1965) and apparently nested on cypress snags (Hankla and Rudolph 1967). Nests were still being found there by the early 1930's (Gainer 1933). Today, Canada geese still nest at Reelfoot, but it is not known if these birds are descendants of the ones reported earlier. Except for this Reelfoot population, Canada geese were not known to nest in Tennessee (Hanson 1965).

In 1951, a Middle Tennessee resident, Wick Comer purchased 12 pinioned Canada geese from a game farm operator in North Carolina. These geese were released on his 1,200-acre estate four miles east of Hendersonville. The flock survived, multiplied, and eventually spread to nearby Old Hickory Reservoir (Gore and Barstow 1969, Coe and Pollock 1975). Gore and Barstow (1969) identified these birds as giant Canada geese using the criteria described by Hanson (1965).

Aware of the potential of this flock on Old Hickory, the Tennessee Wildlife Resources Agency (TWRA) in 1966 initiated the resident Canada goose project. The goal was to have enough geese for recreational hunting (Gore and Barstow 1969) which was in response to the low numbers of over-wintering geese attributed to "short-stopping" in northern states (Crider 1967, Hanson 1965, Hankla and Rudolph 1967, Hubbard 1976, Yates and Whitehead 1979).

In 1967, the TWRA began constructing elevated nesting structures on the reservoir and closed goose hunting in the five surrounding counties. In 1968, approximately 60 pinioned geese were obtained from the state of Missouri. Half of these birds were used in a propagation facility at the Old Hickory Nursery. The other half were used to supplement the flock on Mr. Comer's property. Progeny from both sources colonized the reservoir, and the flock continued to expand each year. The propagation facility at Old Hickory was dismantled in 1972, but the naturalized flock was large enough that artificial supplementation was unnecessary (C. J. Whitehead, TWRA, Nashville, Tenn., pers. commun.). By 1975, over 2,500 geese were inventoried during the summer (Coe and Pollock 1975). From 1967 through 1977, the TWRA banded 4,568 geese there (Cromer 1978).

The U.S. Fish and Wildlife Service started a resident goose flock on Cross Creeks National Wildlife Refuge (NWR) in 1964, two years after the refuge was established. The objective was to attract geese that were displaced from the Kentucky Woodlands NWR, Kentucky, where Barkley Reservoir had inundated goose habitat. The initial stocking of 15 geese came from Horseshoe Lake Refuge, Illinois, and Swan Lake NWR, Missouri. In 1967, 11 giant Canadas were received from Minnesota, and in 1970, six more were transferred from Wapanocca NWR, Arkansas. The first successful broods were raised in 1969, and by 1973 the post-nesting population had reached 73 birds (Oberheu 1973). A survey in 1987 revealed 239 adults and 39 goslings (Robinson 1990). These geese moved outside of Cross Creeks NWR to areas around Tennessee NWR and the Tennessee Valley Authority's (TVA) Land Between the Lakes. The estimated summer population in the area is estimated to exceed 1,600 birds (TWRA 1995).

In 1970, the TWRA and TVA began a cooperative project to artificially propagate giant Canada geese at the Buffalo Springs Research Center. The brood stock was the original

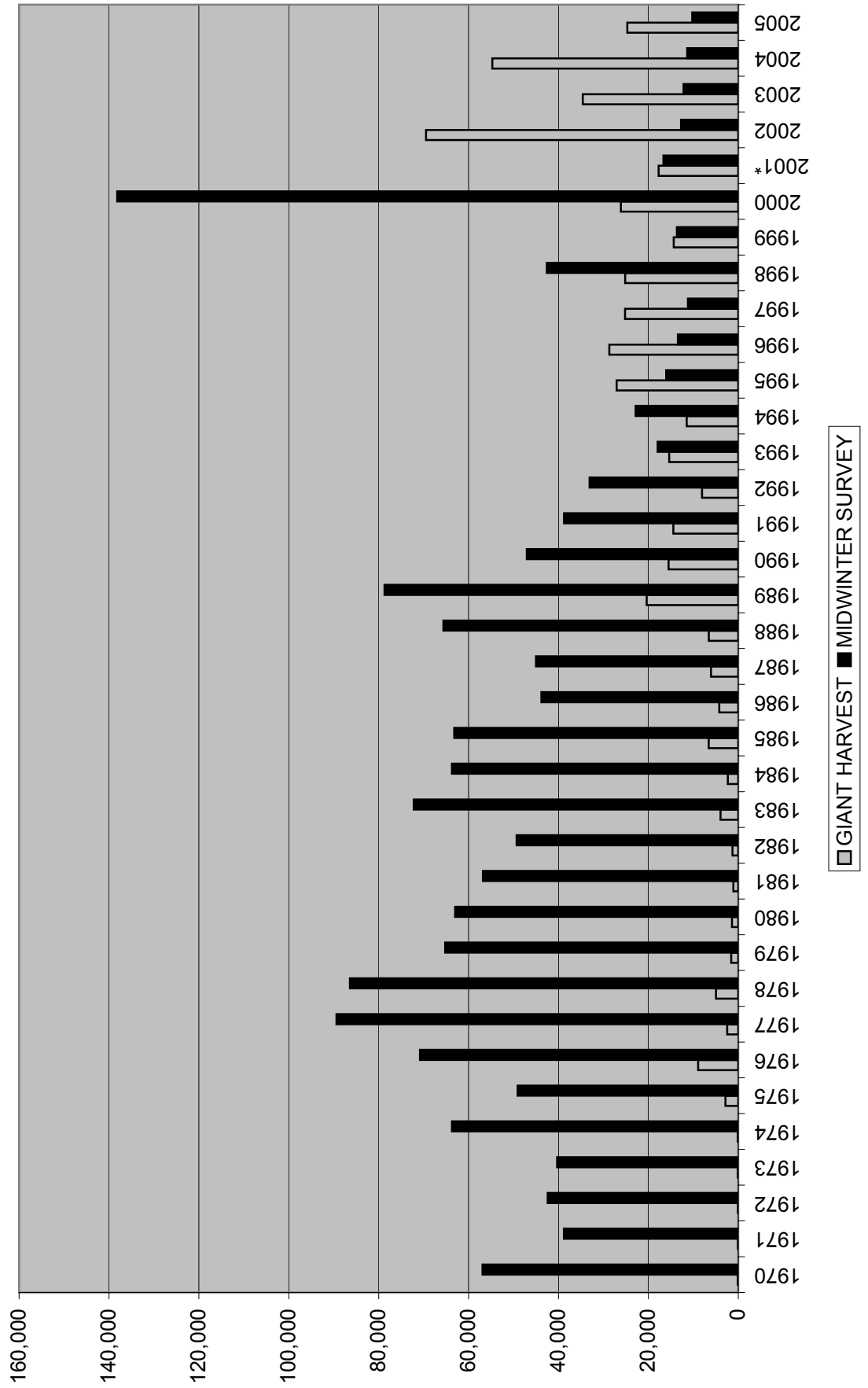
pinioned birds from the dismantled Old Hickory Nursery and an unknown number donated from the Michigan and Ohio departments of natural resources. Over one thousand geese were artificially propagated and released from this facility (Yates and Whitehead 1978). Releases began in 1972 on Melton Hill Reservoir and Cove Lake State Park and continued there through 1975 (Hubbard 1976). Goslings from Buffalo Springs were used to successfully establish 26 different flocks, 19 in Tennessee, four in Georgia, and one each in Kentucky, Alabama, and Virginia (Yates and Whitehead 1978). A few were transported to Hatchie NWR and Millington Naval Air Station in West Tennessee. When the goslings reached breeding age, the population grew at a rate of 24 percent per year, doubling every three years (Hubbard 1976). During the period 1972-74 Buffalo Springs served as the primary source of birds for Tennessee's restoration.

In the mid-1970's the TWRA began capturing and moving goslings and some adults from Old Hickory to Cordell Hull, Percy Priest, Tims Ford, and Woods reservoirs in Middle Tennessee. Geese were also stocked on private ponds of one acre or greater with the permission of the landowner (Coe and Pollock 1975, West 1976). Similar roundups were held at Melton Hill Reservoir, and geese were translocated to unoccupied habitats. To hasten the expansion, additional geese were imported from Michigan, Ohio, and Ontario and were released on Watts Bar and Melton Hill reservoirs. Counties where the restoration was occurring were closed to goose hunting. By 1989 every reservoir and major river system in the state had a least one stocking of Canada geese. Numerous farm ponds were also stocked with goslings and wing-clipped adults during this period. Exact numbers are not available because most of the records were destroyed in a fire at the Buffalo Springs Game Farm. Resident Canada geese can be found in all 95 counties of the state with the highest concentrations being along the U.S. Army Corps of Engineers and TVA reservoirs in Middle and East Tennessee.

The giant Canada goose quickly adapted to living in close proximity to humans and became concentrated in urban areas such as city parks, golf courses, shopping centers, and residential areas. The problems which occurred primarily in Middle and East Tennessee were grazing damage and fecal contamination on residential lawns, golf courses, beaches and in swimming pools, city parks, cemeteries, shopping centers, and industrial areas. Animal Damage Control (USDA-APHIS) manages the Canada goose depredation program in Tennessee.

Since the early 1980's, special resident Canada goose seasons have been held in Middle and East Tennessee to provide recreational hunting and to control the growth of established populations. Areas hunted were regulated by a harvest check-in or a hunter quota system, which used kill tags that were required to be attached to the dead birds immediately upon retrieving. Beginning in 1986, some areas in south central and southeast Tennessee were opened to limited hunting with no harvest controls except limited days. The TWRA expanded the harvest check-in system statewide in 1993 to monitor the harvest of all Canada geese during the regular season. Estimated harvests have ranged from 220 in 1980/81 at Old Hickory to nearly 3,750 for the 1993 season which included 70 of the state's 95 counties. Presently, these counties have seasons directed exclusively towards giant Canada geese including September seasons. Weighted band recoveries show that 57% of Tennessee's total Canada goose harvest is from giants of which 44% are Tennessee birds. The TWRA recognizes the giant Canada goose as a valuable wildlife resource for hunting and viewing and has set goals to maintain viable goose populations for the future.

TENNESSEE GIANT CANADA GOOSE HARVEST 1970-2005



FIELD ORDER REQUEST NO. **W-IV-5**

TITLE OR SUBJECT:

**PRESEASON CANADA GOOSE BANDING**

TO: Regional Waterfowl Biologists,  
 Area Supervisors and Asst. Supervisors,  
 Area Managers (as assigned),  
 Wildlife Officers (as Assigned)

PREPARED BY: Jim Witt DATE 2-28-06  
 WILDLIFE BIOLOGIST

APPROVED BY: Gary Webb 4/3/2006  
 CHIEF OF WILDLIFE

APPROVED BY: Don Dink 4-3-06  
 ASST. DIRECTOR  
 FIELD OPERATIONS

APPROVED BY: <u>Day Cook</u> MANAGER - REGION I	DATE: <u>4/3/06</u>	APPROVED BY: <u>Steve Atchuck</u> MANAGER - REGION II	DATE: <u>4-3-06</u>
APPROVED BY: <u>John Mayer</u> MANAGER - REGION III	DATE: <u>4-3-06</u>	APPROVED BY: <u>Bob Nichols</u> MANAGER - REGION IV	DATE: <u>4-3-06</u>

INITIATION DATE: June 5, 2006                      DATE OF SUBMISSION: July 21, 2006

TIME ALLOCATED :

Region 1 Managers, biologists, and officers (as assigned)	As Required	12 Man-Days
Region 2 Managers, biologists, and officers (as assigned)	As Required	12 Man-Days
Region 3 Managers, biologists, and officers (as assigned)	As Required	12 Man-Days
Region 4 Managers, biologists, and officers (as assigned)	As Required	12 Man-Days

## PURPOSE:

To determine the harvest derivation and distribution of the various Canada goose populations harvested in Tennessee. Such a banding program will also provide meaningful information regarding mortality rates, location of mortality, and movements of resident Canada geese.

## BACKGROUND:

Populations of giant Canada geese that nest in the United States are becoming a significant part of the Mississippi Flyway goose population. They were established primarily from purposeful stocking and liberation of decoy flocks. In 1989 the Mississippi Flyway Council initiated a coordinated neck-collaring and banding program to estimate population size, monitor temporal movements, and to determine degree of mixing with migrant flocks. Banding will help separate the harvest of Tennessee's resident Canada goose population from the various migrant populations.

## PROCEDURES:

1. Dates of roundups should be held during the last two weeks of June and the first week of July when most of the geese are flightless.
2. All banded birds should be sexed and aged.
3. Data sheets should be completed and mailed to the Wildlife Division. All bands must be accounted for.
4. Submission of data sheets should be no later than 15 days after completion of the banding operations.
5. Corrected and approved copies of schedules should be returned to Regions with summary of banding accomplishments no later than 15 days after submission of schedule to the Banding Lab.

7. Suggested Sites for Banding:

Location <sup>1</sup>	Suggested Dates <sup>1</sup>	Quota <sup>1</sup>	Translocated	Total
<b>Region I</b>				
TN NWR	Friday, June 9, 2005	200		200
Cross Creeks NWR	Friday, June 9, 2005	200		200
Hatchie NWR	Tuesday, June 13, 2006	100		200
Region I Location	Tuesday, June 13, 2006	Undetermined		
Reelfoot Area	Wednesday, June 14, 2006	Undetermined		
USDA Projects <sup>2</sup>	TBA		Undetermined	
<b>Region II</b>				
Cheatham	Monday, June 19, 2006	200		100
Old Hickory	Tuesday, June 20, 2006	200		200
Woods	Friday, June 23, 2006	100		100
Monsanto	Friday, June 23, 2006	100		100
South Central Lakes	Monday, June 26, 2006	100		100
USDA Projects <sup>2</sup>	TBA		Undetermined	
<b>Region III</b>				
Oak Ridge/Melton Hill	TBA	200		200
Chickamauga	TBA	100		100
Watts Bar	TBA	100		100
Cookeville TN Tech <sup>3</sup>	TBA	Undetermined		
USDA Projects <sup>2</sup>	TBA		Undetermined	
<b>Region IV</b>				
Tellico/Fort Loudoun	Wednesday, June 28, 2006	100		100
Upper Holston	Thursday, June 29, 2006	100		100
Cherokee	Thursday, June 29, 2006	100		100
Patrick Henry/Boone	Friday, June 30, 2006	100		100
USDA Projects <sup>2</sup>	TBA		Undetermined	
<sup>1</sup> All locations, dates, and quotas are preliminary. <sup>2</sup> Efforts will be made to band all translocated geese captured by USDA Wildlife Services. <sup>3</sup> TN Tech University will provide all the manpower.				

**TWRA CANADA GOOSE BANDING ACCOMPLISHMENTS 2005**

Not Relocated.

<b>Location</b>	<b>Date</b>	<b>Number Banded</b>
<b>Region 1</b>		
TN National Refuge	17-Jun-05	314
TOTALS		314
<b>Region 2</b>		
Saturn /UT Exp St.	27-Jun-05	51
Cheatham	20-Jun-05	104
Drakes Creek	21-Jun-05	349
Barton Springs	24-Jun-05	75
Tims Ford	24-Jun-05	33
Estill Springs	24-Jun-05	96
Nacco	27-Jun-05	65
Normandy	24-Jun-05	129
TOTALS		902
<b>Region 3</b>		
Oak Ridge ETPP	24-Jun-05	68
Clark Center	24-Jun-05	15
Oak Ridge Y-12	24-Jun-05	6
Oak Ridge Marina	28-Jun-05	77
Dayton	28-Jun-05	100
Roane County	28-Jun-05	42
Caney Creek	28-Jun-05	20
Hwy 58 site	28-Jun-05	56
Solway	5-Jul-05	27
TOTALS		411
<b>Region 4</b>		
Von Orr	29-Jun-05	86
Loudon	29-Jun-05	111
Cherokee	30-Jun-05	186
TOTALS		383
<b>STATEWIDE TOTALS</b>		<b>2010</b>



**2005 Goose Translocations**

<b>Region 1</b>	<b>Release Site</b>	<b>Number Banded</b>
	Tumbleweed WMA	700
	<b>Total</b>	<b>700</b>

<b>Region 2</b>	<b>Release Site</b>	<b>Number Banded</b>
	Montgomery Coun	355
	Duck River	7
	<b>Total</b>	<b>362</b>

<b>Region 3</b>	<b>Release Site</b>	<b>Number Banded</b>
	Oak Ridge WMA	47
	Oak Ridge WMA	60
	Lonewood Plantati	62
	Hiwassee Refuge	117
	<b>Total</b>	<b>286</b>

<b>Region 4</b>	<b>Release Site</b>	<b>Number Banded</b>
	Chota WMA	190
	<b>Total</b>	<b>190</b>
<b>Translocated Total</b>		<b>1538</b>

<b>Total Non-translocated Banded</b>	<b>2010</b>
<b>Total Translocated Banded</b>	<b>1538</b>
<b>Total Banded Statewide</b>	<b>3548</b>

# WATERFOWL INVENTORIES

MISSISSIPPI FLYWAY



FIELD ORDER REQUEST NO. **W- IV-2**

TITLE OR SUBJECT: **PERIODIC  
WATERFOWL INVENTORIES**

PREPARED BY: \_\_\_\_\_ DATE \_\_\_\_\_

WILDLIFE BIOLOGIST \_\_\_\_\_

APPROVED BY: \_\_\_\_\_

CHIEF OF WILDLIFE \_\_\_\_\_

APPROVED BY: \_\_\_\_\_

ASST. DIRECTOR \_\_\_\_\_  
FIELD OPERATIONS \_\_\_\_\_

TO: **Regional Managers, Waterfowl  
Biologists, WMA Managers and Asst.  
Managers, Agency Pilot**

Law Enforcement \_\_\_\_\_  
Date \_\_\_\_\_

APPROVED BY: _____	DATE: _____	APPROVED BY: _____	DATE: _____
MANAGER – REGION I		MANAGER – REGION II	
APPROVED BY: _____	DATE: _____	APPROVED BY: _____	DATE: _____
MANAGER – REGION III		MANAGER – REGION IV	

INITIATION DATE: November 1, 2005      DATE OF SUBMISSION: Bi-Monthly

TIME ALLOCATED :

Region I Waterfowl Biologists	6 Man-Days
Region II Waterfowl Biologists	6 Man-Days
Ben Layton	6 Man-Days
Dan Gibbs	6 Man-Days
Refuge Managers	6 Man-Days each
Barbara Shaffer	7 Man-Days

## **Background:**

The Lower Mississippi Valley Joint Venture identified 'step down' habitat objectives for each state located within this joint venture area. Duck use days (DUD's) and goose use days (GUD's) were the main components used in developing a formula or method for determining the quantity of each type habitat necessary to provide essential and sufficient foods for waterfowl wintering in Tennessee. Each food type, whether it be flooded timber, row crop, moist soil or stubble has a numerical value of energy available and research has determine the daily amount of energy required by these species. By surveying the number of birds wintering in our State, we are able to make comparisons of waterfowl use between refuges and wildlife management areas that are hunted and not hunted and use over time. We can also monitor waterfowl use of areas before and after development. It provides an index of waterfowl use and distribution over time and this information is essential in evaluating distribution of foraging areas and making decisions on additional development or management needs.

## **Purpose:**

Semi-monthly waterfowl and eagle surveys are conducted to better determine total wintering populations in Tennessee and if sufficient habitat necessary to sustain these populations are available. The mid-winter survey provides the best data for determining the total Flyway population, but not necessarily the total waterfowl population wintering in a particular state. These data will also be available to the hunting public via TWRA's web page.

There is also a need for pre and post documentation of waterfowl use and habitat availability on refuges that might be hunted. This is necessary for determining and substantiating the impact waterfowl hunting has on refuges.

Documentation is also needed to substantiate the impact of including shore-bird management within our waterfowl management units.

## **Procedures:**

1. All State Waterfowl Refuges and National Waterfowl Refuges will coordinate these surveys to be conducted, as near as possible, at the same times so as to determine a more accurate total State inventory.
2. Conduct the surveys twice a month (as close to the 1<sup>st</sup> and 16<sup>th</sup> as possible). This year, conduct surveys on Nov. 1 & 16, Dec. 1 & 15, Jan. 4 & 18 and Feb. 1.
3. A copy of each inventory should be sent, as soon as possible, to Tim White, TWRA and Bob Ford, USFWS by email, if possible or by US Postal.
4. Region III uses the plane since they inventory the cranes, but others should do ground counts.

Region I Refuges: Black Bayou, Cold Creek, Cypress Pond, Eagle Lake, Hop-In, Lauderdale, Maness Swamp, White Lake.

Region II Refuges: Dyson Ditch, Lock 5, Pardue Pond, Woods Reservoir.

Region III Refuges: Cordell Hull, Hiwassee, Kingston, Paint Rock.

Region IV Refuges: Chota Refuge, Kyker Bottoms and Whites Mill.

**Deadline Dates:**

Within 2 days, a copy of each inventory should be sent to Tim White, TWRA and Bob Ford, USFWS by email, if possible, or by US Postal.

Tim White  
TWRA  
P.O. Box 40747  
Nashville, TN 37204  
(615)781-6620  
[Timothy.White@state.tn.us](mailto:Timothy.White@state.tn.us)

Bob Ford  
Migratory Bird Field Office  
The University of Memphis  
South Campus  
Memphis, TN 38152  
(901)327-7631  
[Bob\\_Ford@fws.gov](mailto:Bob_Ford@fws.gov)

PERIODIC WATERFOWL INVENTORIES  
FIELD FORM

Type of Survey: Aerial \_\_\_\_\_ Ground \_\_\_\_\_ Dates of Survey: \_\_\_\_\_

State: \_\_\_\_\_ County: \_\_\_\_\_

Area Surveyed: \_\_\_\_\_

Species	Field Notes	Total	Species	Field Notes	Total
Mallard			Eider		
Black duck			Scoter		
Mottled duck			Oldsquaw		
Gadwall			Harlequin		
Wigeon			<b>SEADUCK TOTAL</b>		
G-W teal			Mergansers		
B-W teal			Unidentified ducks		
Cinn. teal			<b>TOTAL DUCKS</b>		
Shoveler			Brant		
Pintail			Snow goose		
Wood duck			Ross' goose		
Whistling duck			White-fronted goose		
<b>DABBLER TOTAL</b>			Canada goose		
Redhead			<b>TOTAL GEESE</b>		
Canvasback			Tundra (whistling) swan		
Scaup			Trumpeter swan		
Ringneck			Mute swan		
Goldeneye			<b>TOTAL SWANS</b>		
Bufflehead			COOT		
Ruddy duck			<b>GRAND TOTAL</b>		
<b>DIVER TOTAL</b>			SANDHILL CRANES		
weather/habitat conditions/comments:			BALD EAGLES		
			GOLDEN EAGLES		

OBSERVER



## TENNESSEE WILDLIFE RESOURCES AGENCY

ELLINGTON AGRICULTURAL CENTER  
PO BOX 40747  
NASHVILLE, TENNESSEE 37204  
(615) 781-6610 FAX: (615) 781-6654  
WEBSITE: TNWILDLIFE.ORG

### WATERFOWL STATUS AND HUNTING REPORT

**December 19, 2005**

By Tim White

TWRA Waterfowl Program Coordinator

This report is compiled from State and Federal waterfowl survey reports conducted bi-monthly and from hunting reports from across Tennessee.

#### **Duck numbers continue to rise.**

Duck numbers increased substantially over the past two weeks in most areas of the state. Continued cold weather and snow in the upper Mississippi Flyway is benefiting Southern duck hunters as large numbers of ducks continue to push into the lower flyway. In Tennessee, duck numbers are good but dry conditions are proving to be a major problem. Southern Illinois, Indiana, and Ohio are reporting large concentrations of ducks which are hugging the ice/snow line. Missouri, Tennessee and Arkansas report large increases in numbers of mallards but these numbers are fluctuating as many ducks are moving up and down portions of the flyway along the snow and ice line. Mississippi and Louisiana are holding large numbers of waterfowl. As winter conditions further deteriorate in the Mid-west, Southern flyway states will continue to see duck numbers increase.

#### **Wetland habitat conditions remain unfavorable across most of the state.**

Tennessee waterfowl numbers continue to build despite dry wetland conditions. No significant rainfall has occurred in the past two weeks and ducks are beginning to deplete food resources on refuges. Some dry feeding is being observed. Most food (corn) on many TWRA refuges will be gone by late Dec. or early Jan. None of the major rivers in West Tennessee are flooded. Permanent habitat, river sloughs, beaver ponds, lakes and rivers, as well as pumped impoundments and refuges are holding the majority of ducks. Hunting pressure and limited available wetland habitat will continue to force ducks south unless significant rainfall occurs. Wetland conditions in Arkansas are also quite dry and many waterfowl have moved south into Mississippi and Louisiana where wetland conditions are much better.

Middle Tennessee has seen an increase in waterfowl numbers. Cheatham WMA has higher numbers than they have had in recent years. Old Hickory started out with good numbers but have lost some since the opener. Conditions are dry and rainfall is needed badly to help hold ducks as cold weather continues to push them south in large numbers.

East Tennessee has also seen some increases in waterfowl numbers. Ponds, lakes, and rivers are holding ducks. Wetlands are still very limited in East Tennessee and conditions are dry in many areas.

#### **Hunting reports are good for some.**

Hunting has been good throughout the state, particularly in West Tennessee at Reelfoot, Kentucky Lake, the Forked Deer systems and Obion system...IF you have water. Many areas are still dry and are not providing any hunting opportunities. Hunting pressure is increasing and will force many ducks south unless wetland conditions improve and disperse the birds. With limited water conditions, areas with water, either pumped or natural, are having good hunting success.

- \* The Duck Season for Tennessee Closes on January 29, 2006 at sunset.
- \* Canvasback season is December 31, 2005 to January 29, 2006.
- \* Consult the *TWRA Waterfowl Guide* for specific regulations: located at license agents or on the TWRA webpage at; [TNWILDLIFE.ORG](http://TNWILDLIFE.ORG)
- \* For other questions contact TWRA Waterfowl Program Coordinator; Tim White (615) 781-6620  
Or e-mail: [Timothy.White@state.tn.us](mailto:Timothy.White@state.tn.us)

**TENNESSEE WINTER WATERFOWL SURVEY RESULTS 2005-06**

Region I	11/11/2005		11/16/2005		12/1/2005		12/15/2005		1/4/2006		1/18/2006		2/1/2006	
	DUCKS	GEESE	DUCKS	GEESE	DUCKS	GEESE	DUCKS	GEESE	DUCKS	GEESE	DUCKS	GEESE	DUCKS	GEESE
Black Bayou	18	0	6,743	0	22,413	20	93,692	5	163,398	10	17,259	5,010	218	12
Cypress Pond	16	0	29	0	313	0	145	0	114	6	153	6	12,274	0
Eagle Lake	531	0	1,557	1	6,084	0	12,198	0	11,550	0	17,483	0	8,500	100
Hop-In	0	0	0	0	22	0	1,350	0	110,000	75	22,454	75	10,250	0
Horns Bluff	100	0	2,000	1	12,650	0	11,610	0	19,825	0	18,077	0	15,764	1,350
Lauderdale	1,135	0	2,660	0	9,877	50	46,342	50	37,086	575	25,479	8,220	11,350	0
Maness Swamp	0	0	6	0	310	0	575	0	1,500	0	1,250	0	15,350	0
White Lake	100	0	3,000	0	10,000	0	15,000	0	48,026	0	48,650	0	73,706	1,462
<b>Total</b>	<b>1,900</b>	<b>0</b>	<b>15,995</b>	<b>2</b>	<b>61,669</b>	<b>70</b>	<b>180,912</b>	<b>55</b>	<b>391,499</b>	<b>666</b>	<b>150,805</b>	<b>13,311</b>		

**National Wildlife Refuges**

Chickasaw NWR					9,826	0	11,769	0	26,246	800	25,325	450	14,782	75
Cross Creeks NWR	350	422	3,879	1,015	10,476	1,936	10,785	1,058	24,972	4,309	26,707	2,173	17,655	4,561
Hatchie NWR					13,166	225	43,714	388	86,724	506	84,730	165	29,196	114
Lake Isom NWR					7	0	15,250	0	15,145	75	2,750	700	9,286	800
Lower Hatchie NWR					15,323	69	17,171	55	15,130	35	7,338	0	8,661	0
Reelfoot NWR					10,635	1,352	20,512	3,581	24,145	31,080	5,470	829	5,983	0
Tennessee NWR	29,454	976	58,094	1,331	76,618	2,194	152,753	3,563	141,961	3,729	120,698	4,017	53,439	3,042
Duck River Unit							112,473	1,988	98,824	1,890	74,042	2,504	28,869	1,885
Big Sandy Unit							38,357	1,455	40,307	1,572	44,844	1,320	23,273	1,023
Busselton Unit							1,923	120	2,830	267	1,812	193	1,297	134
<b>Total</b>	<b>29,804</b>	<b>1,398</b>	<b>61,973</b>	<b>2,346</b>	<b>136,051</b>	<b>5,776</b>	<b>271,954</b>	<b>8,645</b>	<b>334,323</b>	<b>40,534</b>	<b>273,018</b>	<b>8,334</b>	<b>139,002</b>	<b>8,592</b>

**Region II**

Dyson Ditch	0	0	177	425	632	427	3,350	533	3,537	470			584	220
Lock 5	0	0	655	0	954	0	2,512	0	2,770	0	2,052	0	1,179	0
Pardue Pond	0	0	1,302	5	2,374	13	4,434	187	5,373	0			2,315	5
Woods Reservoir	0	0	24	125	461	126	2,368	435	1,196	102	1,631	326	2,717	281
<b>Total</b>	<b>0</b>	<b>0</b>	<b>2,158</b>	<b>555</b>	<b>4,421</b>	<b>566</b>	<b>12,664</b>	<b>1,155</b>	<b>12,876</b>	<b>572</b>	<b>3,683</b>	<b>326</b>	<b>6,795</b>	<b>506</b>

**Region III**

Cordell Hull	No Water	No Water	17	19	77	9	39	76	8	78	724	33	327	33
Hiwassee	No Water	No Water	451	29	451	29	1,416	32					4,923	200
Yuchi	No Water	No Water	No Water	No Water	34	0	34	0	195	0	203	6	120	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>468</b>	<b>48</b>	<b>528</b>	<b>38</b>	<b>1,489</b>	<b>108</b>	<b>203</b>	<b>78</b>	<b>927</b>	<b>39</b>	<b>5,370</b>	<b>233</b>

**Region IV**

Chota Refuge	No Water	No Water	No Water	No Water	0	0	0	0	58	268	0	0	0	0
Kyker Bottoms	No Water	No Water	49	15	200	11	338	12	1,882	31	1,455	12	1,148	69
<b>Total</b>	<b>0</b>	<b>0</b>	<b>49</b>	<b>15</b>	<b>200</b>	<b>11</b>	<b>338</b>	<b>12</b>	<b>1,940</b>	<b>299</b>	<b>1,455</b>	<b>12</b>	<b>1,148</b>	<b>69</b>
<b>STATE TOTAL</b>	<b>31,704</b>	<b>1,398</b>	<b>80,643</b>	<b>2,966</b>	<b>202,869</b>	<b>6,461</b>	<b>467,357</b>	<b>9,975</b>	<b>740,841</b>	<b>42,149</b>	<b>429,888</b>	<b>22,022</b>	<b>226,021</b>	<b>10,862</b>



FIELD ORDER REQUEST NO. **W- IV-8**

TITLE OR SUBJECT: **MIDWINTER  
WATERFOWL INVENTORIES**

PREPARED BY: \_\_\_\_\_ DATE \_\_\_\_\_

WILDLIFE BIOLOGIST

APPROVED BY: \_\_\_\_\_

CHIEF OF WILDLIFE \_\_\_\_\_

APPROVED BY: \_\_\_\_\_

ASST. DIRECTOR  
FIELD OPERATIONS

TO: **Regional Managers, Waterfowl  
Biologists, Agency Pilot**

Law Enforcement \_\_\_\_\_

Date \_\_\_\_\_

APPROVED BY: _____	DATE: _____	APPROVED BY: _____	DATE: _____
MANAGER – REGION I		MANAGER – REGION II	
APPROVED BY: _____	DATE: _____	APPROVED BY: _____	DATE: _____
MANAGER – REGION III		MANAGER – REGION IV	

INITIATION DATE: January 2, 2006                      DATE OF SUBMISSION: January 9, 2006

TIME ALLOCATED :

Dan Fuqua	2 Man-Days
Polly Rooker/David Sims	1 Man-Days
Wally Akins	1 Man-Days
Dan Gibbs	1 Man-Days
Barbara Shaffer	5 Man-Days

**Background:**

Mid-winter waterfowl and eagle populations are inventoried each year in the Mississippi Flyway. This project is Federally coordinated to give a total Flyway picture of waterfowl concentrations. Information received from these inventories is pertinent to annual migration patterns and population numbers. We have been asked to assist in the 2005 midwinter waterfowl and eagle surveys on our areas, while Fish & Wildlife Service personnel will be working on Federal Refuges.

**Purpose:**

To determine Tennessee's mid-winter (January 2-6) waterfowl and eagle populations.

**Procedures:**

1. All regional data forms will be distributed via the U.S. Fish and Wildlife Service Memphis Field Office.
2. Surveys should be made on the initiation date, or as soon as possible thereafter, to protect against possible second countings of the same birds.
3. Upon completion of surveys, data forms should be placed in the enclosed envelopes and mailed directly to Bob Ford.

**Deadline Dates:**

January 9 – Submission of Mid-Winter Waterfowl and Eagle Survey forms to Bob Ford  
January 26 – Final results reported to participants

MIDWINTER WATERFOWL INVENTORIES - TENNESSEE 1954-2006

YEAR	MALLARDS		BLACK DUCKS		DABBING DUCKS		ALL DIVING DUCKS		ALL DUCKS		CANADA	GOOSE*
	#	% OF TOTAL	#	% OF TOTAL	#	% OF TOTAL	#	% OF TOTAL	#	% OF TOTAL	#	% OF TOTAL
1954-55	107,900	2.9%	11,200	6.3%	151,800	3.3%	24,300	4.8%	176,100	3.4%	N/A	N/A
1955-56	170,000	3.3%	9,300	4.4%	201,100	3.0%	51,100	12.4%	252,200	3.6%	N/A	N/A
1956-57	354,100	6.7%	20,000	8.6%	408,700	6.0%	25,600	4.3%	434,300	5.9%	N/A	N/A
1957-58	486,400	12.1%	18,900	7.1%	565,400	9.2%	42,600	8.8%	608,000	9.2%	N/A	N/A
1958-59	419,500	10.7%	32,700	18.5%	509,200	8.2%	28,500	5.4%	537,700	8.0%	N/A	N/A
1960-61	199,000	6.6%	15,300	9.3%	255,700	4.7%	15,400	1.4%	271,100	4.1%	N/A	N/A
1961-62	247,600	7.6%	32,200	20.3%	306,000	5.2%	12,900	0.7%	318,900	4.1%	N/A	N/A
1962-63	98,900	5.0%	16,900	15.3%	138,200	3.0%	23,300	1.2%	161,500	2.5%	N/A	N/A
1963-64	171,800	6.3%	20,000	14.2%	231,900	4.4%	17,600	0.9%	249,500	3.5%	N/A	N/A
1964-65	293,100	7.2%	48,700	22.3%	426,800	4.4%	27,500	2.7%	454,300	4.3%	N/A	N/A
1965-66	324,400	10.9%	33,100	20.8%	421,500	6.0%	20,900	3.1%	442,400	5.7%	N/A	N/A
1966-67	369,800	9.0%	45,700	30.0%	486,800	5.8%	37,900	6.3%	524,700	5.8%	N/A	N/A
1967-68	457,100	12.3%	73,200	35.3%	587,700	7.4%	24,900	4.4%	612,600	7.2%	N/A	N/A
1968-69	239,300	10.9%	38,700	28.6%	326,300	5.8%	25,700	2.5%	352,000	5.3%	N/A	N/A
1969-70	278,400	13.1%	40,300	27.0%	357,410	6.1%	20,000	1.1%	377,410	4.9%	N/A	N/A
1970-71	289,000	7.3%	39,500	28.7%	392,400	5.1%	24,700	1.9%	417,100	4.7%	53,500	9.1%
1971-72	209,000	5.6%	51,200	38.0%	306,800	4.4%	11,700	1.0%	318,500	3.9%	56,900	9.3%
1972-73	286,100	10.2%	29,300	20.4%	227,500	4.3%	12,000	3.5%	239,500	4.3%	38,800	6.2%
1973-74	386,100	13.3%	64,100	41.6%	470,500	7.7%	8,400	0.7%	478,900	6.5%	42,400	6.7%
1974-75	253,800	12.3%	43,600	55.3%	328,300	6.0%	6,700	0.7%	335,000	5.2%	40,300	6.0%
1975-76	186,500	6.5%	34,300	29.6%	276,100	4.9%	11,400	2.7%	287,500	4.8%	63,700	9.7%
1976-77	303,400	7.7%	69,400	45.5%	426,600	4.9%	16,800	1.9%	443,400	4.6%	49,100	7.1%
1977-78	344,700	11.0%	57,500	57.2%	459,200	7.5%	9,500	1.2%	468,700	6.7%	70,800	7.7%
1978-79	295,400	1.2%	50,700	55.5%	371,300	8.6%	15,200	4.3%	386,500	8.3%	89,400	8.2%
1979-80	253,700	8.3%	42,900	54.6%	342,400	6.6%	23,500	2.0%	365,900	5.8%	86,400	10.0%
1980-81	359,500	15.2%	27,600	35.5%	423,800	9.2%	10,900	1.8%	434,700	8.4%	65,200	8.4%
1981-82	318,600	12.2%	35,100	39.2%	369,100	7.0%	15,100	2.6%	384,200	6.6%	63,000	8.5%
1982-83	237,500	9.5%	24,300	34.3%	286,300	5.4%	11,800	1.4%	298,100	4.8%	56,800	9.0%
1983-84	207,700	11.1%	39,400	42.6%	274,400	6.6%	7,200	0.9%	281,600	6.2%	49,300	6.1%
1984-85	160,000	11.1%	32,800	53.5%	208,300	6.3%	5,200	0.7%	213,500	5.5%	72,200	9.6%
1985-86	144,200	7.3%	31,000	53.7%	184,200	4.2%	6,200	0.6%	190,400	3.5%	63,700	6.8%
1986-87	222,800	10.3%	49,900	51.7%	278,300	6.5%	3,200	0.4%	281,500	5.6%	63,200	5.6%
1987-88	283,000	14.7%	18,600	25.1%	309,600	9.2%	9,100	1.2%	318,700	7.7%	43,800	4.1%
1988-89	374,100	13.5%	56,200	51.4%	452,500	9.0%	15,100	1.5%	467,600	7.8%	45,000	3.8%
1989-90	588,300	21.5%	32,000	46.0%	646,000	11.4%	13,000	1.0%	659,000	9.5%	65,600	4.8%
1990-91	567,160	21.9%	52,159	60.1%	625,078	10.8%	4,214	0.6%	629,292	9.7%	78,700	4.2%
1991-92	184,350	7.4%	14,830	30.3%	212,018	3.7%	16,377	4.1%	228,395	3.8%	47,052	2.8%
1992-93	211,688	12.1%	16,502	21.6%	239,866	4.8%	19,748	2.3%	260,519	4.4%	38,759	3.0%
1993-94	284,061	16.5%	18,847	24.0%	324,731	12.0%	18,958	5.8%	342,949	8.0%	33,080	2.7%
1994-95	434,395	19.9%	33,071	39.9%	489,074	7.9%	36,617	6.4%	526,164	7.8%	17,950	1.2%
1995-96	467,643	16.8%	22,971	24.6%	521,564	7.7%	25,983	4.7%	548,650	7.5%	22,845	1.4%
1996-97	509,530	17.6%	36,945	40.7%	590,306	8.2%	25,387	3.1%	616,448	7.7%	16,036	1.6%
1997-98	654,023	27.0%	16,066	42.9%	715,902	21.0%	15,799	3.7%	732,784	19.1%	13,427	2.2%
1998-99	221,283	9.6%	9,504	23.2%	258,823	4.8%	9,544	1.2%	268,723	4.3%	11,191	1.0%
1999-00	482,845	20.8%	16,837	36.1%	546,211	10.2%	16,437	2.7%	564,228	9.5%	42,595	4.3%
2000-01	310,027	10.8%	7,665	20.9%	353,920	5.1%	13,625	2.2%	368,481	4.9%	13,644	1.3%
2001-02	381,782	14.9%	16,972	36.6%	458,439	6.7%	21,509	2.5%	481,138	6.2%	138,173	10.3%
2002-03	327,426	11.7%	10,121	25.7%	443,922	7.0%	21,794	2.8%	467,408	6.5%	16,658	1.2%
2003-04	255,892	15.5%	12,318	50.7%	323,029	7.3%	20,650	2.7%	344,658	6.6%	12,732	1.0%
2004-05	177,113	11.0%	3,803	18.8%	240,875	5.4%	14,815	1.1%	256,290	4.4%	12,187	1.7%
2005-06	277,572	14.7%	9,847	49.6%	368,228	8.1%	26,762	2.7%	397,019	7.2%	11,373	1.2%
2006-07	591,099	27.6%	7,661	31.7%	760,534	15.6%	29,658	4.0%	792,506	14.1%	10,231	1.2%
<b>Averages:</b>												
1955-60	289,483	6.9%	17,900	8.7%	348,650	5.8%	31,250	5.2%	379,900	5.8%		
1961-65	227,160	7.6%	30,180	19.2%	304,880	4.7%	20,440	1.4%	325,320	4.1%		
1966-70	326,720	10.1%	47,480	30.4%	430,122	6.1%	26,640	2.5%	456,762	5.6%	10,700	9.1%
1971-75	264,300	9.2%	44,500	35.5%	321,840	5.5%	10,040	1.2%	331,880	5.0%	48,420	7.6%
1976-80	311,340	4.1%	49,620	49.6%	404,660	7.0%	15,180	2.0%	419,840	6.4%	72,180	8.3%
1981-85	213,600	10.3%	32,520	43.7%	264,460	5.9%	9,100	1.3%	273,560	5.3%	61,000	7.9%
1986-90	407,072	16.7%	41,772	47.9%	462,296	9.6%	8,923	1.0%	471,218	8.2%	59,260	4.5%
1991-95	316,427	14.5%	21,244	28.0%	357,451	6.8%	23,537	4.3%	361,335	6.2%	31,937	2.2%
1996-00	435,542	17.2%	17,403	32.8%	493,032	9.9%	16,158	2.6%	510,133	9.1%	19,379	2.1%
2000-06	335,147	15.9%	10,120	35.5%	432,505	8.3%	22,531	2.6%	456,503	7.5%	33,559	2.8%
<b>Long-term average:</b>												
1955-06	312,665	11.7%	30,610	32.8%	382,320	7.0%	18,707	2.8%	399,397	6.3%	46,371	5.1%

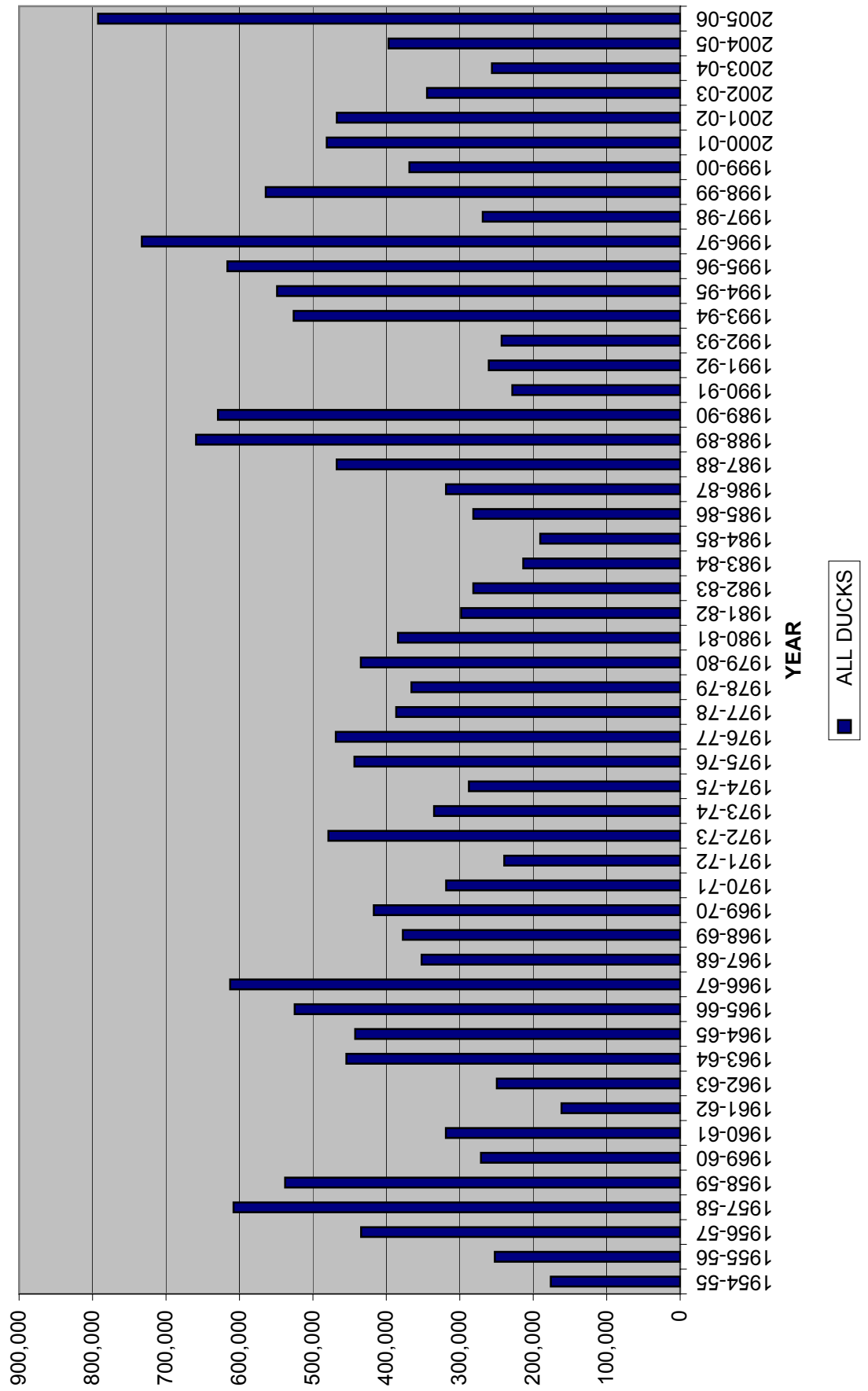
% of total = % of total Mississippi Flyway inventory counted in Tennessee

Duck data taken from January Mid-Winter Waterfowl Surveys.

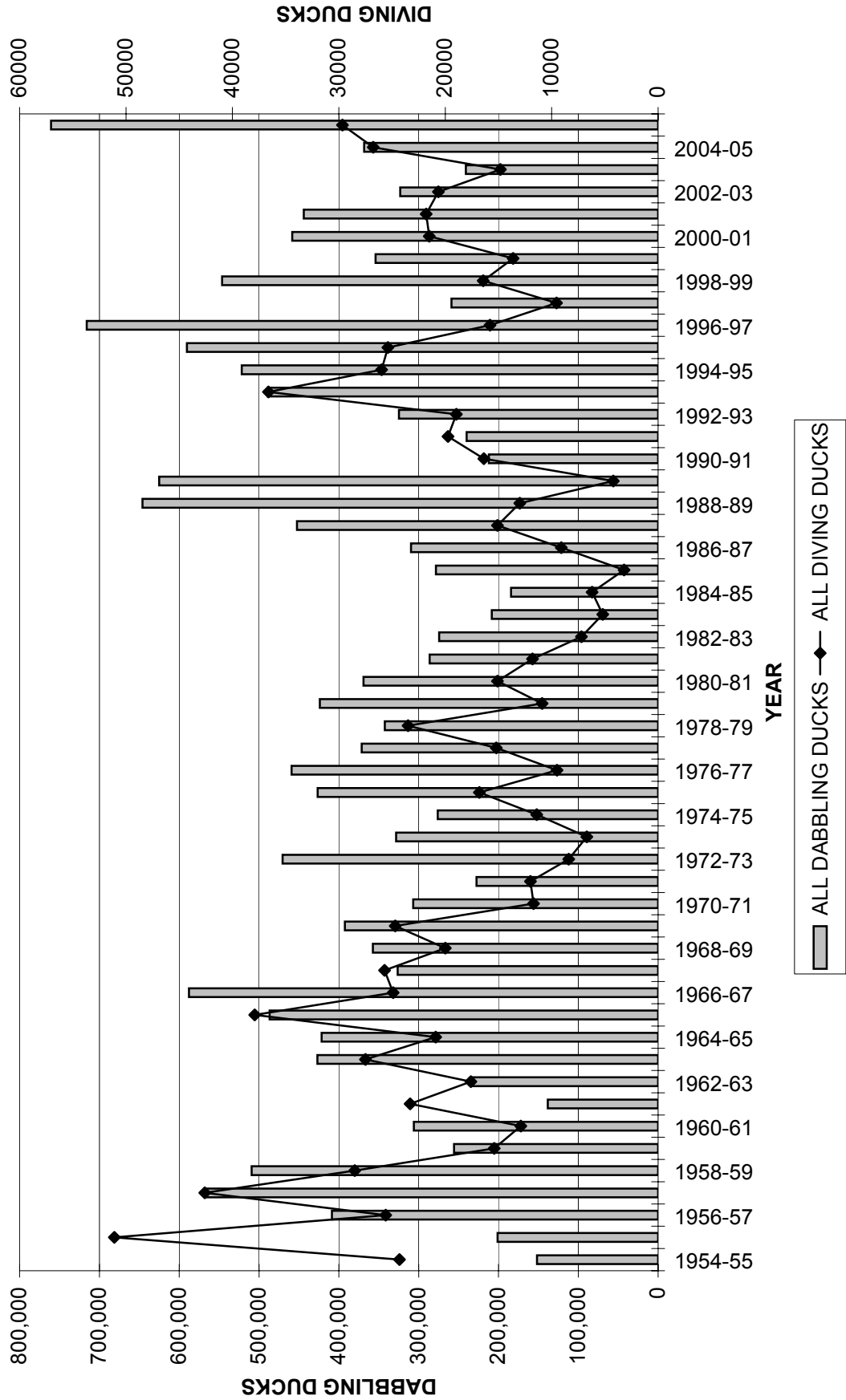
\* Canada Goose Surveys conducted in December 1969-1997, January Mid-Winter Survey thereafter.

Source: Compiled from USFWS reports (Fronczak 2005)

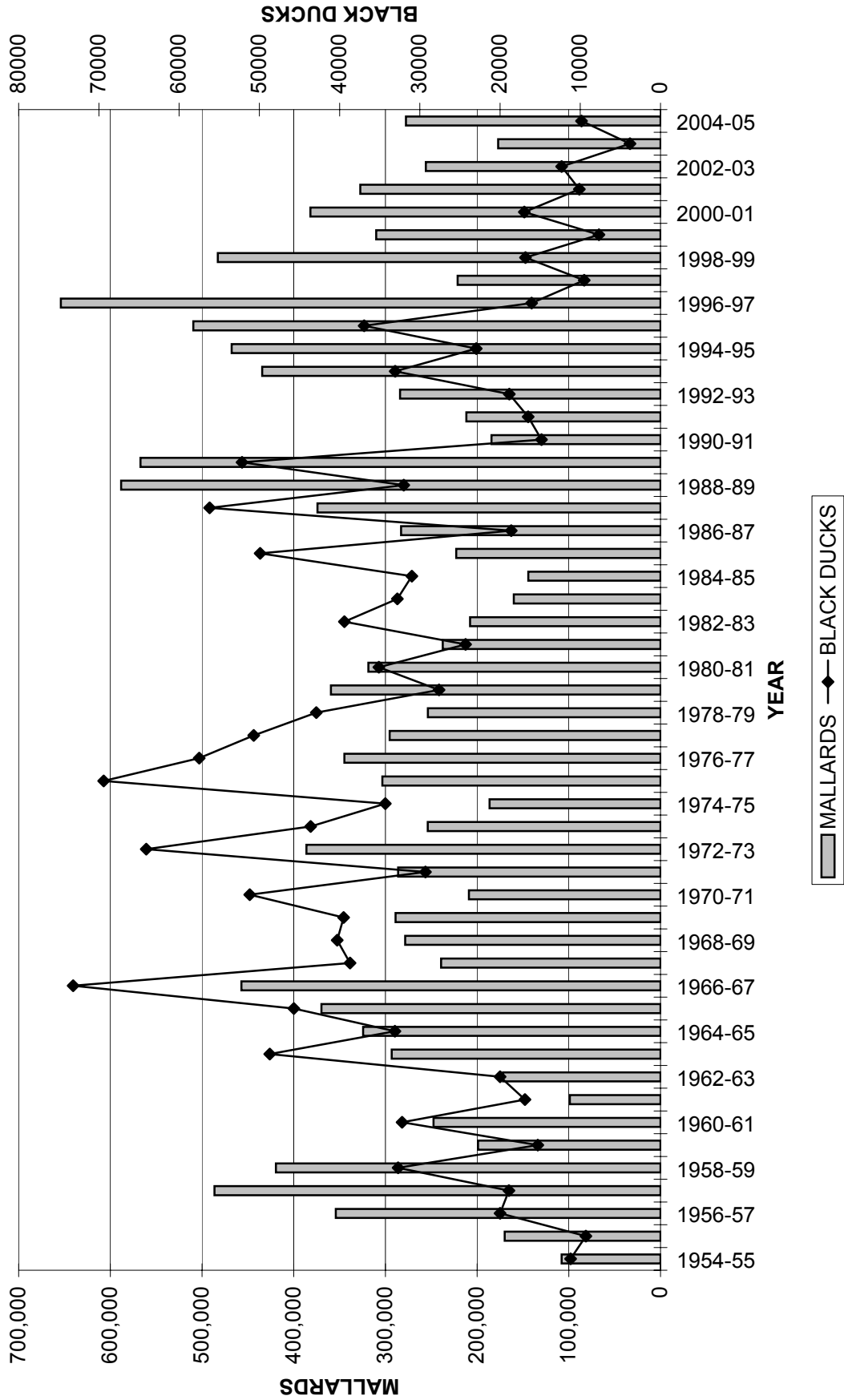
# TENNESSEE MIDWINTER SURVEY 1962-2006



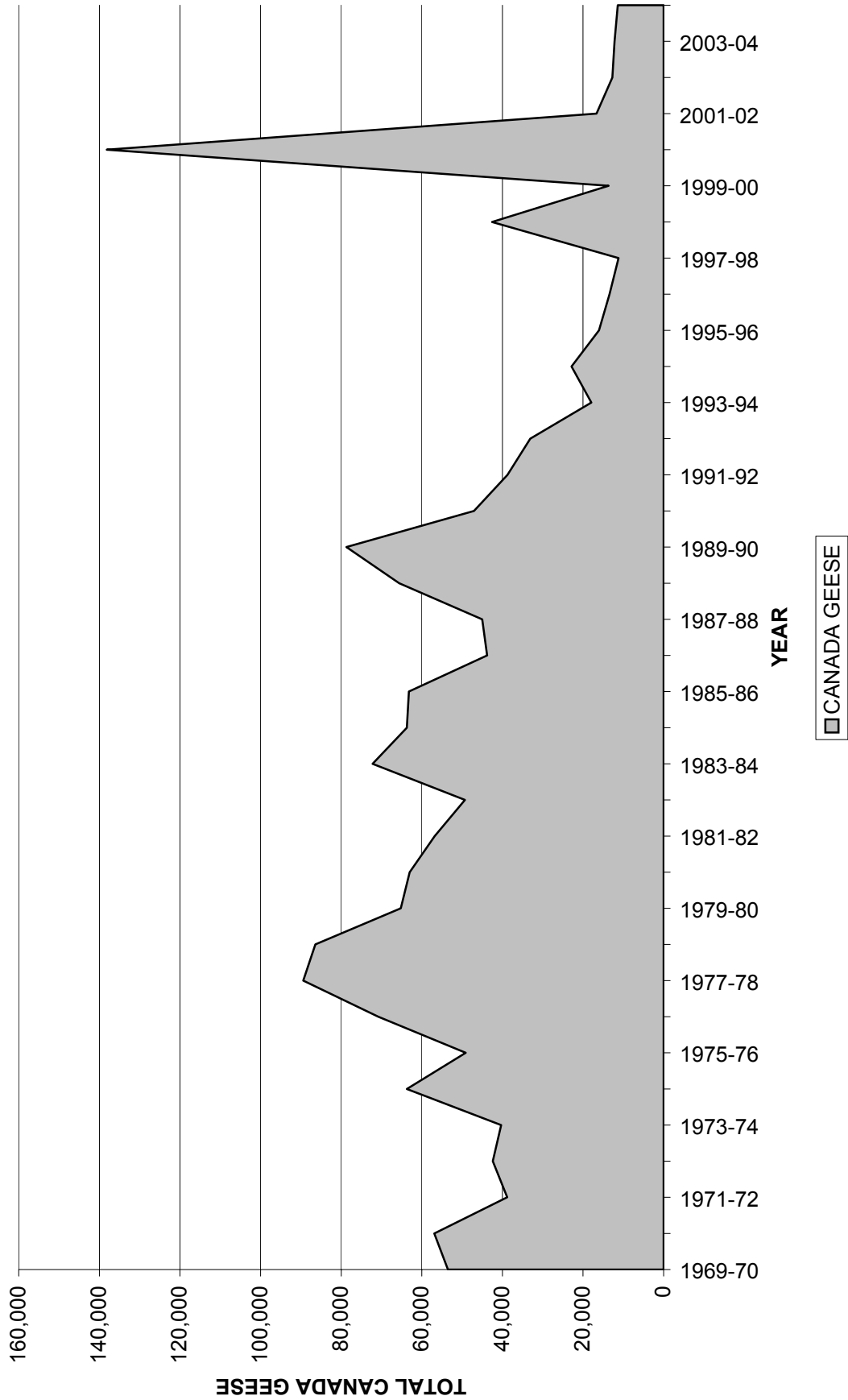
**MIDWINTER WATERFOWL INVENTORIES - TENNESSEE 1954-2006**  
**DABBLING AND DIVING DUCKS**



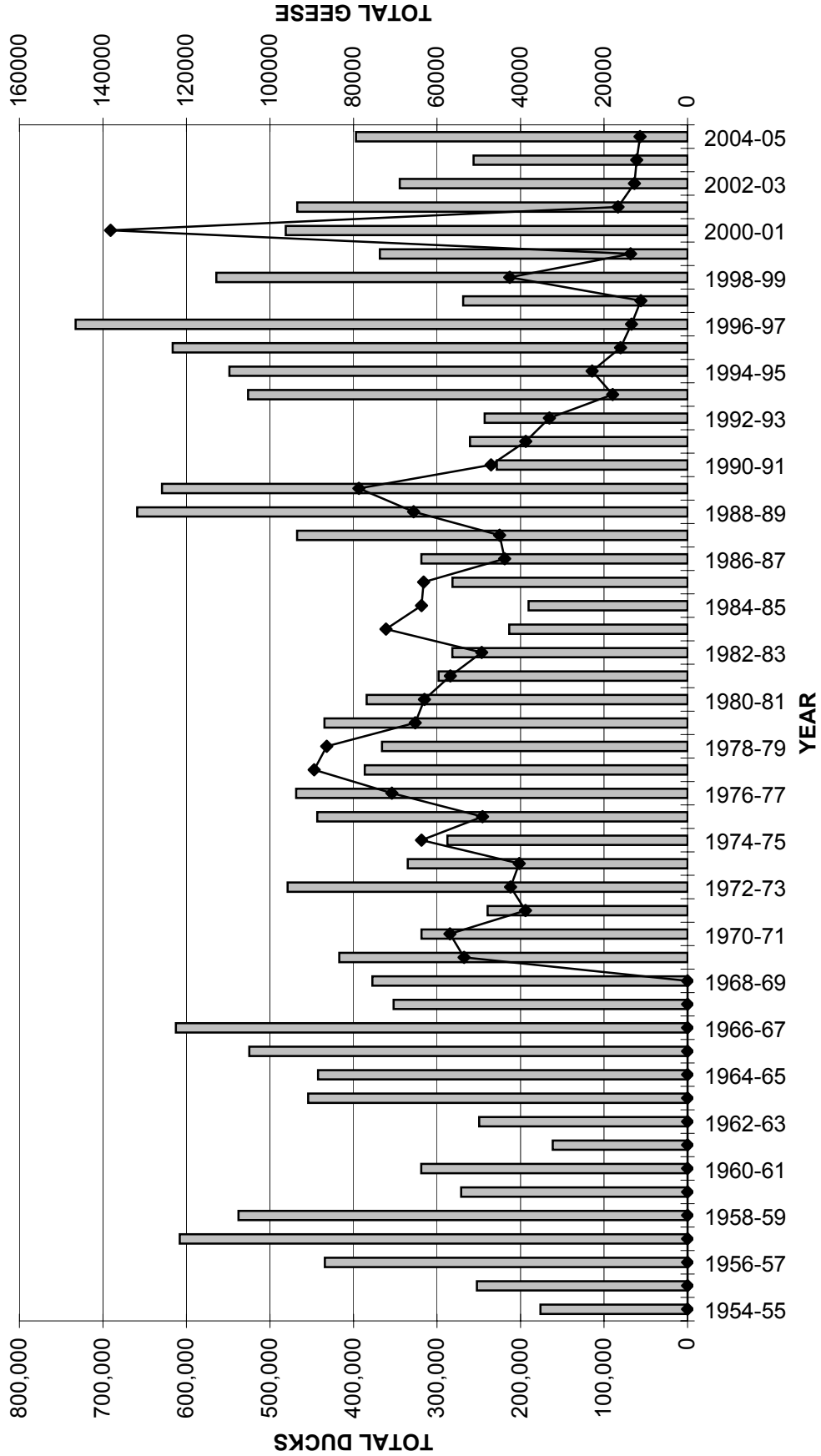
**MIDWINTER WATERFOWL INVENTORIES - TENNESSEE 1954-2005**  
**MALLARDS AND BLACK DUCKS**



**MIDWINTER WATERFOWL INVENTORIES - TENNESSEE 1969-2005  
CANADA GEESE**



**MIDWINTER WATERFOWL INVENTORIES - TENNESSEE 1954-2005  
ALL DUCKS AND CANADA GEESE**













NUMBERS OF BLACK DUCKS OBSERVED DURING THE MIDWINTER WATERFOWL SURVEY IN THE MISSISSIPPI FLYWAY

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MF TOTAL
1955	400	3,700	23,200	0	26,700	32,700	48,500	1,700	6,000	700	11,200	15,000	4,000	4,600	178,400
1956	400	3,200	34,600	TR*	32,000	29,500	63,700	1,500	21,000	1,000	9,300	6,700	4,200	6,200	213,300
1957	400	5,000	30,300	100	44,500	33,800	62,800	200	12,300	1,000	20,000	17,000	1,300	3,200	231,900
1958	300	2,400	17,400	TR	14,000	143,400	22,900	6,400	9,200	1,000	18,900	22,300	2,600	3,600	264,400
1959	100	4,500	12,800	TR	6,000	28,600	24,700	1,000	14,500	11,200	32,700	36,700	400	3,700	176,900
1960	100	3,900	15,600	100	15,600	24,100	31,500	600	11,700	8,300	15,300	32,300	1,000	5,000	165,100
1961	100	5,800	12,200	TR	15,800	5,000	52,200	700	5,100	2,200	32,200	14,300	2,600	10,500	158,700
1962	100	2,400	2,500	0	2,800	5,500	26,500	300	15,500	2,900	16,900	14,800	4,900	15,600	110,700
1963	200	3,000	4,000	TR	18,000	9,400	37,500	2,300	15,000	4,000	20,000	13,900	4,900	9,000	141,200
1964	100	3,700	14,200	200	28,000	7,200	63,900	5,000	17,400	3,900	48,700	12,700	2,900	10,200	218,100
1965	100	2,600	13,200	TR	14,700	5,200	66,100	1,300	5,600	3,200	33,100	7,100	1,600	5,000	158,800
1966	300	4,000	18,400	TR	9,100	9,600	34,300	900	4,900	2,200	45,700	7,100	8,600	7,100	152,200
1967	300	3,000	3,300	TR	15,400	4,400	70,300	1,100	900	2,800	73,200	14,100	8,200	10,400	207,400
1968	TR	1,700	3,300	TR	15,400	1,700	19,300	900	3,800	6,100	38,700	8,100	21,800	14,700	135,500
1969	300	1,400	5,300	0	14,200	2,000	54,600	1,300	3,600	10,600	40,300	500	4,700	10,300	149,100
1970	300	1,400	3,600	1,000	13,000	400	34,300	4,300	10,200	11,200	39,500	1,600	11,500	5,400	137,700
1971	800	1,300	4,000	0	17,900	7,700	30,900	1,900	5,200	3,700	51,200	600	2,500	7,000	134,700
1972	500	1,100	3,300	100	6,600	5,400	80,000	800	2,900	5,400	29,300	100	2,000	6,400	143,900
1973	500	1,000	2,700	0	20,800	3,900	21,800	9,800	13,500	3,500	64,100	300	3,000	9,100	154,000
1974	700	1,100	3,500	0	4,100	2,800	10,400	3,100	1,500	0	43,600	0	1,700	6,300	78,800
1975	400	1,100	3,600	100	14,200	9,800	41,000	900	2,300	800	34,300	0	300	7,200	116,000
1976	300	800	3,700	400	24,400	10,600	16,500	6,300	7,000	1,400	69,400	TR	2,000	9,600	152,400
1977	600	800	1,400	600	10,200	3,400	12,300	800	4,400	3,000	57,500	100	300	5,200	100,600
1978	400	700	2,400	200	6,700	2,300	7,300	1,700	3,300	3,400	50,700	0	2,300	10,000	91,400
1979	500	1,000	1,100	TR	5,700	3,200	7,800	300	6,900	2,700	42,900	300	900	5,200	78,500
1980	100	600	2,600	400	12,600	4,600	11,900	800	10,100	1,700	27,600	0	100	4,600	77,700
1981	200	800	2,200	300	13,700	6,700	9,400	200	10,100	1,500	35,100	100	700	8,600	89,600
1982	100	700	1,000	200	8,600	6,900	13,100	TR	3,500	5,100	24,300	0	200	7,200	70,900
1983	100	800	2,900	100	4,400	4,100	27,400	100	6,900	1,700	39,400	0	600	4,000	92,500
1984	TR	800	1,400	TR	2,500	2,200	8,100	TR	7,500	700	32,800	0	3,000	2,300	61,300
1985	100	1,000	500	TR	3,000	3,800	7,300	TR	4,200	2,600	31,000	100	200	3,900	57,700
1986	300	1,000	400	TR	7,600	5,700	13,600	100	3,900	6,600	49,900	100	1,700	5,700	96,600
1987	TR	1,200	1,200	TR	7,900	2,600	32,000	300	2,100	3,400	18,600	100	1,600	3,100	74,100
1988	TR	900	1,400	TR	4,800	3,600	22,500	TR	6,600	8,100	56,200	TR	300	4,900	109,300
1989	TR	1,200	2,600	TR	2,900	3,300	15,300	TR	2,200	3,900	32,000	TR	500	5,600	69,500
1990	106	1,807	2,068	109	5,816	4,357	10,155	96	2,828	1,856	52,159	50	2,200	3,200	86,807
1991	36	890	724	112	108	848	16,544	0	5,773	4,143	14,830	0	124	4,849	48,981
1992	211	2,305	3,182	12	3,725	2,364	41,398	0	3,047	597	16,502	112	1,638	1,183	76,276
1993**	20	1,373	1,870	48	7,225	3,061	38,915	944	2,544	715	18,847	35	1,538	1,274	78,409
1994	27	1,208	NS**	18	5,021	3,730	27,142	583	8,606	790	33,071	0	612	1,994	82,802
1995	2	1,267	10,302	10	8,230	2,703	41,465	50	4,521	97	22,971	0	68	1,719	93,405
1996	8	774	7,014	202	2,100	2,389	23,441	579	11,163	203	36,945	0	29	5,922	90,769
1997**	3	181	1,090	41	2,769	2,015	9,347	974	2,380	161	16,066	0	13	2,404	37,444
1998	22	3,768	5,230	8	2,325	1,777	11,152	1,806	856	355	9,504	0	35	4,051	40,889
1999	0	810	3,896	17	25	4,660	13,807	387	2,676	75	16,837	0	28	3,448	46,666
2000	8	1,148	7,771	17	4,254	2,723	10,778	14	1,284	0	7,665	0	23	1,068	36,753
2001	6	537	1,535	0	93	2,242	12,512	92	10,676	4	16,972	154	21	1,577	46,421
2002	8	1,037	5,211	1	335	1,327	13,961	20	2,471	12	10,121	0	24	4,839	39,367
2003	19	727	2,855	55	1,245	626	4,691	29	861	36	12,318	0	8	847	24,317
2004	9	NS	7,677	27	966	535	5,376	16	739	0	3,803	0	2	1,121	20,271
2005	30	884	649	72	2,075	232	3,240	20	1,179	6	9,847	1	0	1,617	19,852
2006**	87	400	2,692	4	2,081	801	6,942	17	868	6	7,661	0	7	2,611	24,177
AVERAGES:															
55-60	283	3,783	22,317	67	23,133	48,683	42,350	1,900	12,450	3,867	17,900	21,667	2,250	4,383	205,000
61-65	120	3,500	9,220	100	15,860	6,460	49,240	1,920	11,720	3,240	30,180	12,560	3,380	10,060	157,500
66-70	300	2,300	6,780	500	13,420	3,620	42,560	1,700	4,680	6,580	47,480	6,280	10,960	9,580	156,380
71-75	580	1,120	3,420	40	12,720	5,920	36,820	3,300	5,080	2,680	44,500	200	1,900	7,200	125,480
76-80	380	780	2,240	400	11,920	4,820	11,160	1,980	6,340	2,440	49,620	100	1,120	6,920	100,120
81-85	125	820	1,600	200	6,440	4,740	13,060	150	6,440	2,320	32,520	40	940	5,200	74,400
86-90	203	1,221	1,534	109	5,803	3,911	18,711	165	3,526	4,771	41,772	83	1,260	4,500	87,261
91-95	59	1,409	4,020	40	4,862	2,541	33,093	315	4,898	1,268	21,244	29	796	2,204	75,975
96-00	8	1,336	5,000	57	2,295	2,713	13,705	752	3,672	159	17,403	0	26	3,379	50,504
01-05	14	796	3,585	31	943	992	7,956	35	3,185	12	10,612	31	11	2,000	30,046

\* - TRace = Fewer than 50

\*\*\* - NS = No Survey

DF 07/05/06

\*\* - INCOMPLETE SURVEY. ESTIMATES FOR THE FLYWAY AND SOME STATES (IL, LA, 93; LA, MS, 97; MS, 06), ARE NOT COMPARABLE WITH OTHER YEARS.

NUMBERS OF PINTAILS OBSERVED DURING THE MIDWINTER WATERFOWL SURVEY IN THE MISSISSIPPI FLYWAY

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MFTOTAL
1955	100	52	0	16	12,882	4,474	2,415	8,265	2,000	32,900	7,434	243,000	8,013	2,414	323,965
1956	4	3	0	7	715	78	211	1,829	2,737	74,000	8,700	358,475	3,585	5,776	456,120
1957	7	1	200	2	679	128	110	1,993	3,000	68,000	7,700	465,600	10,600	3,700	561,720
1958	0	6	0	110	450	4,200	56	3,694	2,902	144,320	13,402	363,420	24,944	3,730	561,234
1959	0	0	0	1	2	1,281	25	1,163	6,000	47,300	9,800	489,400	500	3,100	558,572
1960	0	0	0	1	27	0	91	1,014	100	66,500	5,100	419,500	1,100	10,300	503,733
1961	2	2	0	36	0	20	80	197	0	68,300	2,300	460,000	1,400	11,000	543,337
1962	1	8	0	0	162	0	53	566	400	38,900	2,900	514,200	13,200	7,300	577,690
1963	0	0	0	8	0	0	98	1,778	200	57,620	6,320	652,800	1,100	9,100	729,024
1964	0	1	0	7	88	7	215	4,875	200	30,200	10,800	1,362,400	1,400	6,200	1,416,393
1965	0	3	5	6	219	72	86	12,340	100	102,400	21,600	859,600	2,900	7,100	1,006,431
1966	0	3	10	657	1,770	205	652	9,505	0	19,000	12,700	1,136,800	2,700	5,000	1,189,002
1967	0	3	18	2	85	62	600	2,617	100	35,600	10,400	1,025,100	9,200	9,900	1,093,687
1968	0	25	0	25	0	0	25	600	100	18,300	10,100	768,300	25,800	6,200	829,475
1969	0	0	0	0	0	0	0	1,200	100	53,700	4,500	615,800	4,900	7,200	687,400
1970	0	0	0	0	800	0	0	500	0	43,000	14,400	634,700	6,800	10,400	710,600
1971	0	0	0	0	200	0	0	9,100	0	104,500	3,900	475,200	4,600	6,800	604,300
1972	0	0	0	0	0	100	400	3,100	0	83,900	2,000	540,800	5,900	7,300	643,500
1973	0	0	0	0	0	0	0	400	0	24,200	1,400	456,100	54,900	3,500	540,500
1974	0	0	0	0	0	0	100	5,600	0	69,000	10,500	462,400	14,000	3,800	565,400
1975	0	0	25	300	100	200	100	6,000	100	121,400	5,700	342,500	28,400	3,100	507,925
1976	0	0	0	100	400	100	0	11,500	200	68,500	4,800	381,800	52,900	5,200	525,500
1977	0	0	25	0	0	0	100	500	100	2,400	6,300	526,800	2,700	5,000	543,925
1978	0	0	0	25	0	0	0	400	500	19,800	4,100	457,900	2,300	6,400	491,425
1979	0	0	25	25	0	0	25	500	25	3,700	10,800	765,300	5,600	6,000	792,000
1980	0	0	0	25	800	0	0	1,300	500	2,000	5,900	306,000	3,300	4,200	324,025
1981	25	0	0	100	0	0	100	25	25	11,400	1,600	681,800	1,200	3,300	699,575
1982	0	25	0	25	200	25	25	400	100	37,500	6,000	833,000	3,700	5,500	886,500
1983	25	25	0	25	500	100	200	400	800	83,800	1,900	829,500	25,200	2,500	944,975
1984	0	25	0	0	0	0	25	25	100	2,000	3,100	516,800	5,500	4,900	532,475
1985	0	25	0	25	25	300	25	300	0	114,900	400	572,700	3,400	2,200	694,300
1986	0	0	25	0	100	25	25	800	800	22,800	900	382,500	10,000	4,700	422,675
1987	0	25	25	25	2,100	0	500	100	500	13,100	100	223,400	7,900	2,300	250,075
1988	0	25	0	25	100	0	25	200	100	72,500	3,400	368,300	4,200	3,800	452,675
1989	25	25	25	25	0	25	25	500	25	34,300	5,100	482,100	4,400	2,700	529,275
1990	0	3	32	4	75	13	116	240	0	141,156	3,085	493,700	9,500	2,600	650,524
1991	0	8	7	1	0	47	411	500	234	495,650	2,337	275,400	24,750	252	799,597
1992	0	0	4	12	130	29	17	3,300	25	28,065	3,651	467,616	15,292	813	518,954
1993*	2	0	8	0	0	610	418	1,779	561	101,060	670	87,828	8,295	812	202,043
1994	0	2	0	0	123	26	22	1,102	174	99,310	2,940	409,400	23,262	1,313	537,674
1995	0	2	65	2	123	223	32	2,497	138	89,325	4,750	415,914	7,569	1,558	522,198
1996	0	0	1	35	0	0	53	4,590	1,850	59,455	4,604	545,480	10,496	5,102	631,666
1997*	0	2	0	29	1,350	753	267	23,766	100	67,917	3,840	152,143	5,249	4,178	259,594
1998	0	2	2	3	1,600	173	52	11,865	40	24,476	8,178	326,200	3,469	2,810	378,870
1999	0	0	3	0	3	41	59	853	0	49,725	7,302	252,471	4,141	2,162	316,760
2000	2	2	16		4,265	342	85	14,702	410	10,345	6,223	446,825	401	2,788	486,406
2001	0	0	325	2	0	0	116	17	0	51,813	16,585	1,129,900	5,637	3,276	1,207,671
2002	0	0	5	3	16	59	26	3,430	20	93,219	14,454	262,984	37,482	6,220	417,918
2003	1	2	150	11	117	3	51	19,733	3	61,891	11,249	142,137	11,058	2,272	248,678
2004	3	NS	28	1	2,750	46	142	63,276	98	23,075	10,535	448,060	20,158	4,152	572,324
2005	0	1	3	2	1,304	77	318	48,321	48	44,630	20,737	240,375	8,140	3,138	367,094
2006*	0	1	5	0	10,269	363	49	54,682	45	18,280	49,130	419,301	12	3,036	555,173
AVERAGES:															
55-60	19	10	33	23	2,459	1,694	485	2,993	2,790	72,170	8,689	389,899	8,124	4,837	494,224
61-65	1	3	1	11	94	20	106	3,951	180	59,484	8,784	769,800	4,000	8,140	854,575
66-70	0	6	6	137	531	53	255	2,884	60	33,920	10,420	836,140	9,880	7,740	902,033
71-75	0	0	5	60	60	60	120	4,840	20	80,600	4,700	455,400	21,560	4,900	572,325
76-80	0	0	10	35	240	20	25	2,840	265	19,280	6,380	487,560	13,360	5,360	535,375
81-85	10	20	0	35	145	85	75	230	205	49,920	2,600	686,760	7,800	3,680	751,565
86-90	5	16	21	16	475	13	138	368	285	56,771	2,517	390,000	7,200	3,220	461,045
91-95	0	2	17	3	75	187	180	1,836	226	162,682	2,870	331,232	15,834	950	516,093
96-00	0	1	4	17	1,444	262	103	11,155	480	42,384	6,029	344,624	4,751	3,408	414,659
01-05	1	1	102	4	837	37	131	26,955	34	54,926	14,712	444,691	16,495	3,812	562,737

\* - INCOMPLETE SURVEY. ESTIMATES FOR THE FLYWAY AND SOME STATES (IL, LA, 93; LA, MS, 97; MS, 06), ARE NOT COMPARABLE WITH OTHER YEARS\*- NS = No survey DF 07/05/06



NUMBERS OF WHITE-FRONTED GEESE OBSERVED DURING THE MIDWINTER SURVEY IN THE MISSISSIPPI FLYWAY\*\*

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MFTOTAL
1955	0	0	0	0	0	0	0	60	0	0	0	7,200	0	0	7,260
1956	0	0	0	0	0	0	0	0	0	0	0	9,260	0	0	9,260
1957	0	0	0	0	0	0	0	62	0	0	0	4,000	0	0	4,062
1958	0	0	0	0	0	0	0	20	0	0	0	12,000	0	0	12,020
1959	0	0	0	0	0	0	0	0	0	0	0	6,400	0	0	6,400
1960	0	0	0	0	0	0	0	0	0	0	0	12,800	0	0	12,800
1961	0	0	0	0	0	0	0	0	0	0	0	24,500	0	0	24,500
1962	0	0	0	0	0	0	0	10	0	0	0	20,000	0	0	20,010
1963	0	0	0	0	0	0	0	0	0	0	0	32,150	0	0	32,150
1964	0	0	0	0	0	0	0	10	0	0	0	30,300	0	0	30,310
1965	0	0	0	0	0	0	0	2	0	0	0	33,700	0	0	33,702
1966	0	0	0	0	0	2	0	20	0	0	0	45,700	0	0	45,722
1967	0	0	0	0	0	0	0	26	0	0	0	46,000	0	0	46,026
1968	0	0	0	0	25	0	0	0	0	25	0	24,400	0	0	24,450
1969	0	0	0	0	0	0	0	0	0	0	0	21,000	0	0	21,000
1970	0	0	0	0	0	0	0	0	0	25	0	50,600	0	0	50,625
1971	0	0	0	0	0	0	0	0	0	0	0	39,300	0	0	39,300
1972	0	0	0	0	0	0	0	0	0	0	0	45,800	0	0	45,800
1973	0	0	0	0	0	0	0	0	0	0	0	43,000	0	0	43,000
1974	0	0	0	0	0	0	0	0	0	0	0	43,200	0	0	43,200
1975	0	0	0	0	0	0	0	0	0	0	0	40,400	0	0	40,400
1976	0	0	0	0	0	0	0	0	0	25	0	53,400	0	0	53,425
1977	0	0	0	0	0	0	0	0	0	0	0	50,400	0	0	50,400
1978	0	0	0	0	0	0	0	0	25	800	25	52,300	0	25	53,175
1979	25	0	25	0	0	0	0	900	0	25	0	48,400	25	0	49,400
1980	0	0	25	100	0	0	0	0	0	25	0	58,900	25	0	59,075
1981	0	0	0	25	0	25	0	25	0	100	0	67,400	0	0	67,575
1982	0	0	0	0	0	0	0	0	0	400	0	65,200	25	25	65,650
1983	0	0	0	25	0	0	0	500	0	3,000	0	58,500	25	25	62,075
1984	0	0	0	0	0	0	0	0	0	8,100	0	62,200	25	0	70,325
1985	25	0	0	25	0	0	0	25	0	5,400	0	75,900	25	0	81,400
1986	25	0	0	0	0	0	0	25	0	8,300	25	70,200	100	25	78,700
1987	0	0	0	0	0	0	0	0	25	5,600	0	65,900	25	25	71,575
1988	25	0	0	25	0	0	0	0	100	6,800	25	69,700	100	25	76,800
1989	0	0	0	25	0	0	0	0	0	14,600	25	101,700	200	25	116,575
1990	0	0	0	2	0	0	0	0	0	7,800	0	95,000	400	100	103,302
1991	0	0	0	7	0	0	0	0	0	13,310	0	122,300	114	3	135,734
1992	0	0	0	1	0	2	4	0	10	75,640	0	97,175	117	0	172,949
1993	0	0	0	1	0	0	7	1,135	0	15,455	7	81,100	1,530	5	99,240
1994	0	0	0	0	0	0	4	450	3	51,010	50	102,300	520	3	154,340
1995	0	0	0	0	0	0	15	0	2	41,095	0	91,200	2,105	4	134,421
1996	0	NO SURV.	0	0	0	0	7	0	0	27,585	5	117,259	217	2	145,075
1997	0	NO SURV.	0	1	0	0	0	0	0	27,390	15	73,127	6,011	27	106,571
1998	0	0	0	10	0	0	NO SURV	8,025	0	32,734	102	149,678	5,030	14	195,593
1999	0	0	0	0	0	0	2	2,382	740	10,670	227	103,778	1,110	36	118,945
2000	0	0	0	3	26	0	1	9,366	250	2,425	290	79,482	402	29	92,274
2001	0	0	0	0	0	0	4	797	0	13,245	20	87,565	2,808	48	104,487
2002	3	0	0	156	37	0	11	12,016	500	39,117	550	61,876	5,700	21	119,987
2003	1	0	0	60	10,702	3	11	5,585	2,260	33,881	1,678	55,098	4,565	0	113,844
2004	0	NO SURV.	0	TR	9,400	470	0	8,969	11,555	34,615	11,028	83,101	1,933	85	161,156
2005	0	0	0	0	11,900	0	TR	11,305	3,350	44,710	1,478	62,487	1,766	9	137,005
2006***	0	0	0	0	30,860	0	0	8,511	5,400	45,290	2,516	65,898	0	0	158,475
AVERAGES:															
55-60	0	0	0	0	0	0	0	24	0	0	0	8,610	0	0	8,634
61-65	0	0	0	0	0	0	0	4	0	0	0	28,130	0	0	28,134
66-70	0	0	0	0	5	0	0	9	0	10	0	37,540	0	0	37,565
71-75	0	0	0	0	0	0	0	0	0	0	0	42,340	0	0	42,340
76-80	5	0	10	20	0	0	0	180	5	175	5	52,680	10	5	53,095
81-85	5	0	0	15	0	5	0	110	0	3,400	0	65,840	20	10	69,405
86-90	10	0	0	10	0	0	0	5	25	8,620	15	80,500	165	40	89,390
91-95	0	0	0	2	0	0	6	317	3	39,302	11	98,815	877	3	139,337
96-00	0	0	0	3	5	0	3	3,955	198	20,161	128	104,665	2,554	22	131,692
01-05	1	0	0	54	6,408	95	7	7,734	3,533	33,114	2,951	70,025	3,354	33	127,296

\* - TRace = Fewer than 100 birds, 1969-79; fewer than 50 birds, 1980-89

\*\* - White-fronted goose surveys conducted in December 1969-1997, January thereafter DF 07/05/06

\*\*\* - Incomplete survey. Estimates for the flyway and some states (MS, 06) are not comparable with other years.



NUMBERS OF LIGHT GEESE\* OBSERVED DURING THE MIDWINTER WATERFOWL SURVEY IN THE MISSISSIPPI FLYWAY

YEAR	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL	MFTOTAL
1955	0	4	0	1,500	2,264	0	3	3,421	100	0	0	359,900	0	850	368,042
1956	0	2	0	23	4,000	21	5	60	0	100	0	445,350	32	596	450,189
1957	0	9	0	3	3,100	0	0	7,950	0	0	0	353,500	0	300	364,862
1958	0	7	0	3	5,800	0	3	500	29	324	3	407,500	68	660	414,897
1959	0	4	0	18	2,000	0	1	4,041	0	300	0	356,800	0	500	363,664
1960	0	0	0	13	8,200	0	1	11,534	0	100	50	472,200	0	800	492,898
1961	2	0	0	37	2,400	0	50	8,410	0	50	0	516,100	500	1,300	528,849
1962	3	0	0	0	7,351	0	6	3,536	0	300	125	356,700	0	1,000	369,021
1963	1	0	0	3,934	31,400	2	5	16,841	650	330	40	386,070	1,900	900	442,073
1964	1	0	0	0	0	2	4	28,258	600	50	0	428,000	0	0	456,915
1965	1	2	0	0	5,005	12	0	8,942	600	0	0	394,200	1,400	500	410,662
1966	5	0	2	38,009	15,900	5	5	48,401	0	3,600	100	375,200	1,200	1,200	483,627
1967	3	6	0	0	15,000	13	13	28,741	400	7,900	100	326,100	0	1,800	380,076
1968	0	0	0	0	1,000	0	0	7,000	200	2,900	25	350,800	0	1,100	363,025
1969	0	0	0	1,500	500	0	0	1,400	2,000	1,000	100	267,600	0	700	274,800
1970	0	0	100	13,600	13,700	4,200	0	50,200	2,000	0	500	338,800	25	1,500	424,625
1971	0	0	0	88,400	10,100	800	300	133,100	700	0	200	419,400	200	1,700	654,900
1972	0	0	0	379,200	10,200	1,300	200	137,700	500	0	0	407,100	0	1,100	937,300
1973	0	0	0	2,600	4,500	0	0	115,300	1,200	1,500	0	406,400	0	800	532,300
1974	0	0	0	41,000	14,500	200	500	112,400	3,600	1,000	600	357,000	100	1,400	532,300
1975	0	0	0	9,000	7,500	200	0	30,100	4,500	4,300	500	384,400	100	900	441,500
1976	25	0	0	52,600	7,700	200	0	189,800	3,500	400	200	435,600	300	1,300	691,625
1977	25	0	0	31,000	500	0	0	126,100	5,000	3,700	400	403,100	25	1,500	571,350
1978	0	0	0	80,000	3,100	0	0	274,200	15,000	7,600	800	412,400	25	1,000	794,125
1979	25	0	25	70,000	30,200	200	0	53,400	6,000	1,300	300	350,600	0	1,000	513,050
1980	0	0	0	119,900	16,600	25	0	55,800	5,000	20,800	200	373,800	25	2,100	594,250
1981	50	0	0	136,200	14,200	100	0	34,400	6,000	5,100	300	305,400	1,000	1,900	504,650
1982	25	0	0	215,000	11,800	25	0	296,900	800	37,100	200	305,000	300	1,200	868,350
1983	25	0	0	218,500	21,100	200	0	167,200	4,000	75,300	300	342,400	1,200	1,900	832,125
1984	50	25	0	65,600	0	0	25	121,400	5,700	89,100	200	304,500	400	2,000	589,000
1985	25	25	0	311,000	4,300	25	25	118,600	6,000	153,500	300	397,300	25	1,700	992,825
1986	0	0	0	100	17,300	25	25	44,800	8,000	149,600	100	389,000	1,500	1,300	611,750
1987	25	25	0	213,600	6,200	0	0	311,200	9,000	110,900	25	358,600	100	3,700	1,013,375
1988	100	25	25	198,300	4,000	100	100	273,100	6,600	166,200	200	363,600	25	2,400	1,014,775
1989	25	25	0	450,100	8,200	25	25	112,300	10,400	272,400	500	498,500	2,100	3,500	1,358,100
1990	107	1	0	186,181	13,432	1	40	86,720	15,000	211,800	500	546,200	500	2,500	1,062,982
1991	52	1	0	266,952	21,150	0	36	328,550	9,801	257,982	68	449,600	263	1,415	1,335,870
1992	18	2	0	70,203	4,400	58	64	201,075	12,037	461,772	21	362,325	12	1,504	1,113,491
1993	25	0	0	124,101	5,550	19	83	156,450	2	279,710	3	280,300	231	1,657	848,131
1994	38	2	NS**	23,613	1,150	0	378	170,805	4	385,135	19	599,100	4,801	601	1,185,646
1995	28	0	0	300	2,725	0	75	360,051	8,018	415,075	39	705,500	27,404	2,517	1,521,732
1996	31	NS	0	43	9,225	0	20	293,890	27,001	317,770	47	898,164	15,008	1,314	1,562,513
1997	27	NS	0	26,016	69,300	0	74	559,815	7,000	297,898	116	654,301	25,083	2,657	1,642,287
1998	25	2	0	125,520	4,685	4	0	214,650	5	327,528	31	1,240,980	2,509	2,604	1,918,543
1999	27	1	0	11	17,340	15	124	161,083	41,501	358,767	1,766	844,057	33,841	2,809	1,461,342
2000	3	1	8	7	51,865	54	165	449,922	20,007	255,503	24	534,368	24,840	3,510	1,340,277
2001	0	0	1	0	825	16	69	77,271	48,011	357,061	24	1,075,871	27,938	2,257	1,589,344
2002	1	3	11	261	27,940	3	100	893,182	40,161	437,814	158	469,833	150,415	805	2,020,687
2003	2	1	0	20,070	24,121	0	20	569,846	35	421,871	388	532,479	37,182	2,031	1,608,046
2004	0	NS	0	42	25,852	22	29	467,217	62,844	209,659	62,806	564,947	91,476	2,402	1,487,296
2005	0	1	0	13	19,751	315	4	476,885	3,962	385,813	4,213	530,909	42,217	2,200	1,466,283
2006***	0	2	0	17	90,590	82	86	462,086	23,600	362,241	16,541	455,980	27	1,903	1,413,155
AVERAGES:															
55-60	0	4	0	260	4,227	4	2	4,584	22	137	9	399,208	17	618	409,092
61-65	2	0	0	794	9,231	3	13	13,197	370	146	33	416,214	760	740	441,504
66-70	2	1	20	10,622	9,220	844	4	27,148	920	3,080	165	331,700	245	1,260	385,231
71-75	0	0	0	104,040	9,360	500	200	105,720	2,100	1,360	260	394,860	80	1,180	619,660
76-80	15	0	5	70,700	11,620	85	0	139,860	6,900	6,760	380	395,100	75	1,380	632,880
81-85	35	10	0	189,260	10,280	70	10	147,700	4,500	72,020	260	330,920	585	1,740	757,390
86-90	51	15	5	209,656	9,826	30	38	165,624	9,800	182,180	265	431,180	845	2,680	1,012,196
91-95	32	1	0	97,034	6,995	15	127	243,386	5,972	359,935	30	479,365	6,542	1,539	1,200,974
96-00	23	1	2	30,319	30,483	15	77	335,872	19,103	311,493	397	834,374	20,256	2,579	1,584,992
01-05	1	1	2	4,077	19,698	71	44	496,880	31,003	362,444	13,518	634,808	69,846	1,939	1,634,331

\* - Includes snow, blue and Ross's geese

\*\* -No Survey

\*\*\*-Incomplete survey. Estimates for the flyway and some states (MS, 06) are not comparable with other years.

MIDWINTER SURVEY<sup>1</sup> ESTIMATES OF MID-CONTINENT LIGHT GEESE<sup>2</sup> (000s)

Year	Mississippi Flyway														MF TOTAL	CENTRAL FLYWAY*	M-C TOTAL
	MN	WI	MI	IA	IL	IN	OH	MO	KY	AR	TN	LA	MS	AL			
1955	0.0	TR	0.0	1.5	2.3	0.0	TR	3.4	0.1	0.0	0.0	359.9	0.0	0.9	368.1		
1956	0.0	TR	0.0	TR	4.0	TR	TR	TR	0.0	0.1	0.0	445.4	TR	0.6	450.1		
1957	0.0	TR	0.0	TR	3.1	0.0	0.0	8.0	0.0	0.0	0.0	353.5	0.0	0.3	364.9		
1958	0.0	TR	0.0	TR	5.8	0.0	TR	0.5	TR	0.3	TR	407.5	TR	0.7	414.8		
1959	0.0	TR	0.0	TR	2.0	0.0	TR	4.0	0.0	0.3	0.0	356.8	0.0	0.5	363.6		
1960	0.0	0.0	0.0	TR	8.2	0.0	TR	11.5	0.0	0.1	TR	472.2	0.0	0.8	492.8		
1961	TR	0.0	0.0	TR	2.4	0.0	TR	8.4	0.0	TR	0.0	516.1	0.5	1.3	528.7		
1962	TR	0.0	0.0	0.0	7.4	0.0	TR	3.5	0.0	0.3	0.1	356.7	0.0	1.0	369.0		
1963	TR	0.0	0.0	3.9	31.4	TR	TR	16.8	0.7	0.3	TR	386.1	1.9	0.9	442.0		
1964	TR	0.0	0.0	0.0	0.0	TR	TR	28.3	0.6	TR	0.0	428.0	0.0	0.0	456.9		
1965	TR	TR	0.0	0.0	5.0	TR	0.0	8.9	0.6	0.0	0.0	394.2	1.4	0.5	410.6		
1966	TR	0.0	TR	38.0	15.9	TR	TR	48.4	0.0	3.6	0.1	375.2	1.2	1.2	483.6		
1967	TR	TR	0.0	0.0	15.0	TR	TR	28.7	0.4	7.9	0.1	326.1	0.0	1.8	380.0		
1968	0.0	0.0	0.0	0.0	1.0	0.0	0.0	7.0	0.2	2.9	TR	350.8	0.0	1.1	363.0		
1969	0.0	0.0	0.0	1.5	0.5	0.0	0.0	1.4	2.0	1.0	0.1	267.6	0.0	0.7	274.8		
1970	0.0	0.0	0.1	13.6	13.7	4.2	0.0	50.2	2.0	0.0	0.5	338.8	TR	1.5	424.6	352.3	776.9
1971	0.0	0.0	0.0	88.4	10.1	0.8	0.3	133.1	0.7	0.0	0.2	419.4	0.2	1.7	654.9	415.3	1,070.2
1972	0.0	0.0	0.0	379.2	10.2	1.3	0.2	137.7	0.5	0.0	0.0	407.1	0.0	1.1	937.3	376.0	1,313.3
1973	0.0	0.0	0.0	2.6	4.5	0.0	0.0	115.3	1.2	1.5	0.0	406.4	0.0	0.8	532.3	493.0	1,025.3
1974	TR <sup>3</sup>	0.0	TR	41.0	14.5	0.2	0.5	112.4	3.6	1.0	0.6	357.0	0.1	1.4	532.3	657.4	1,189.7
1975	0.0	0.0	0.0	9.0	7.5	0.2	0.0	30.1	4.5	4.3	0.5	384.4	0.1	0.9	441.5	655.4	1,096.9
1976	TR	0.0	0.0	52.6	7.7	0.2	0.0	189.8	3.5	0.4	0.2	435.6	0.3	1.3	691.6	870.8	1,562.4
1977	TR	0.0	0.0	31.0	0.5	0.0	0.0	126.1	5.0	3.7	0.4	403.1	TR	1.5	571.4	579.0	1,150.4
1978	0.0	0.0	0.0	80.0	3.1	0.0	0.0	274.2	15.0	7.6	0.8	412.4	TR	1.0	794.1	1,172.9	1,967.0
1979	TR	0.0	TR	70.0	30.2	0.2	0.0	53.4	6.0	1.3	0.3	350.6	0.0	1.0	513.1	772.5	1,285.6
1980	0.0	0.0	0.0	119.9	16.6	TR	0.0	55.8	5.0	20.8	0.2	373.8	TR	2.1	594.3	803.8	1,398.1
1981	TR	0.0	0.0	136.2	14.2	0.1	0.0	34.4	6.0	5.1	0.3	305.4	1.0	1.9	504.7	901.7	1,406.4
1982	TR	0.0	0.0	215.0	11.8	TR	0.0	296.9	0.8	37.1	0.2	305.0	0.3	1.2	868.4	925.7	1,794.1
1983	TR	0.0	0.0	218.5	21.1	0.2	0.0	167.2	4.0	75.3	0.3	342.4	1.2	1.9	832.1	923.4	1,755.5
1984	TR	0.0	0.0	65.6	0.0	TR	TR	121.4	5.7	89.1	0.2	304.5	0.4	2.0	589.0	905.5	1,494.5
1985	TR	TR	TR	311.0	4.3	TR	TR	118.6	6.0	153.5	0.3	397.3	TR	1.7	992.8	980.4	1,973.2
1986	0.0	0.0	0.0	0.1	17.3	TR	TR	44.8	8.0	149.6	0.1	389.0	1.5	1.3	611.8	837.6	1,449.4
1987	TR	TR	0.0	213.6	6.2	0.0	0.0	311.2	9.0	110.9	TR	358.6	0.1	3.7	1,013.4	900.5	1,913.9
1988	0.1	TR	TR	198.3	4.0	TR	0.1	273.1	6.6	166.2	0.2	363.6	TR	2.4	1,014.8	735.9	1,750.7
1989	TR	TR	0.0	450.1	8.2	TR	TR	112.3	10.4	272.4	0.5	498.5	2.1	3.5	1,358.1	598.1	1,956.2
1990	0.1	TR	0.0	186.2	13.4	TR	TR	86.7	15.0	211.8	0.5	546.2	0.5	2.5	1,063.0	661.3	1,724.3
1991	0.1	TR	0.0	267.0	21.2	0.0	TR	328.6	9.8	258.0	0.1	449.6	0.3	1.4	1,335.9	799.9	2,135.8
1992	TR	TR	0.0	70.2	4.4	0.1	0.1	201.1	12.0	461.8	TR	362.3	TR	1.5	1,113.5	908.4	2,021.9
1993	TR	0.0	0.0	124.1	5.6	TR	0.1	156.5	TR	279.7	TR	280.3	0.2	1.7	848.1	896.0	1,744.1
1994	TR	TR	0.0	23.6	1.2	0.0	0.4	170.8	TR	385.1	TR	599.1	4.8	0.6	1,185.6	1,015.2	2,200.8
1995	TR	0.0	0.0	0.3	2.7	0.0	0.1	360.1	8.0	415.1	TR	705.5	27.4	2.5	1,521.7	1,203.4	2,725.1
1996	TR	NO SRV	0.0	TR	9.2	0.0	TR	293.9	27.0	317.8	TR	898.2	15.0	1.3	1,562.5	835.6	2,398.1
1997	TR	NO SRV	0.0	26.0	69.3	0.0	0.1	559.8	7.0	297.9	0.1	654.3	25.1	2.7	1,642.3	1,208.6	2,850.9
1998	TR	TR	0.0	125.5	4.7	TR	NO SRV	214.7	TR	327.5	TR	1,241.0	2.5	2.6	1,918.5	1,058.7	2,977.2
1999	TR	TR	0.0	TR	17.3	TR	0.1	161.1	41.5	358.8	1.8	844.1	33.8	2.8	1,461.3	1,114.4	2,575.7
2000	TR	TR	TR	TR	51.9	0.1	0.2	449.9	20.0	255.5	TR	534.4	24.8	3.5	1,340.3	1,050.0	2,390.3
2001	0.0	0.0	TR	0.0	0.8	TR	0.1	77.3	48.0	357.1	TR	1,075.9	27.9	2.3	1,589.3	751.9	2,341.2
2002	TR	TR	TR	0.3	27.9	TR	0.1	893.2	40.2	437.8	0.2	469.8	150.4	0.8	2,020.7	617.9	2,638.6
2003	TR	TR	0.0	20.1	24.1	0.0	TR	569.8	TR	421.9	0.4	532.5	37.2	2.0	1,608.0	826.9	2,434.9
2004	0.0	NO SRV	0.0	TR	25.9	TR	TR	467.2	62.8	209.7	62.8	564.9	91.5	2.4	1,487.2	722.2	2,209.4
2005	0.0	TR	0.0	TR	19.8	0.3	TR	476.9	4.0	385.8	4.2	530.9	42.2	2.2	1,466.3	877.9	2,344.2
2006 <sup>4</sup>	0.0	TR	0.0	TR	90.6	0.1	0.1	462.1	23.6	362.2	16.5	456.0	TR	1.9	1,413.1	808.5	2,221.6
AVERAGES:																	
56-60	0.0	TR	0.0	TR	4.6	TR	TR	6.0	TR	0.2	TR	407.1	TR	0.6	417.2		
61-65	TR	TR	0.0	1.0	9.2	TR	TR	13.2	0.4	0.2	TR	416.2	0.8	0.7	433.0		
66-70	TR	TR	TR	10.6	9.2	1.4	TR	27.1	0.9	3.1	0.2	331.7	0.3	1.3	433.8		
71-75	TR	0.0	TR	104.0	9.4	0.5	0.2	105.7	2.1	1.4	0.3	394.9	0.1	1.2	619.7	519.4	1,139.1
76-80	TR	0.0	TR	70.7	11.6	0.1	0.0	139.9	6.9	6.8	0.4	395.1	0.2	1.4	632.9	839.8	1,472.7
81-85	TR	TR	TR	189.3	10.3	0.2	TR	147.7	4.5	72.0	0.3	330.9	0.7	1.7	757.4	927.3	1,684.7
86-90	TR	TR	TR	209.7	9.8	TR	TR	165.6	9.8	182.2	0.3	431.2	1.1	2.7	1,012.2	746.7	1,758.9
91-95	TR	TR	0.0	97.0	7.0	TR	0.2	243.4	9.9	359.9	TR	479.4	8.2	1.5	1,201.0	964.6	2,165.5
96-00	TR	TR	0.0	75.8	30.5	TR	0.1	335.9	23.9	311.5	1.0	834.4	20.2	2.6	1,585.0	1,053.5	2,638.4
01-05	0.0	0.0	0.0	6.8	19.7	0.2	0.1	496.9	38.8	362.5	16.9	634.8	69.8	1.9	1,634.3	759.4	2,393.7

<sup>1</sup> - Surveys conducted in December 1970-98, January thereafter

<sup>2</sup> - Includes snow, blue, and Ross's geese

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<sup>3</sup> - TRace = Fewer than 100 birds, 1970-81, fewer than 50 thereafter; <sup>4</sup> - Incomplete survey. Estimates for the flyway and some states (MS, 06) are not comparable with other years.

\* - In 2002, traditional mid-Dec. cruise survey in Texas not completed; 2002 estimate is based on a Jan. transect survey.

**BREEDING POPULATION ESTIMATES FOR 10 SPECIES OF DUCKS (000s)**

YEAR	MALLARD	GADWALL	WIGEON	GWTEAL	BWTEAL	SHVLR	PINTAIL	RDHED	CVSBK	SCAUP	TOTAL
1955	8,777	652	3,217	1,807	5,305	1,643	9,775	540	589	5,620	37,925
1956	10,453	773	3,145	1,525	4,998	1,781	10,373	757	699	5,994	40,498
1957	9,297	667	2,920	1,103	4,300	1,476	6,607	509	626	5,767	33,272
1958	11,234	502	2,552	1,347	5,457	1,384	6,038	457	747	5,350	35,068
1959	9,024	590	3,788	2,653	5,099	1,578	5,873	499	489	7,038	36,631
1960	7,372	784	2,988	1,427	4,293	1,825	5,722	498	606	4,869	30,384
1961	7,330	655	3,048	1,729	3,655	1,383	4,218	323	435	5,380	28,156
1962	5,536	905	1,959	723	3,011	1,269	3,624	508	360	5,286	23,181
1963	6,749	1,055	1,831	1,242	3,724	1,398	3,846	413	506	5,438	26,202
1964	6,064	873	2,590	1,561	4,021	1,718	3,291	528	644	5,132	26,422
1965	5,132	1,260	2,301	1,282	3,595	1,424	3,592	599	522	4,640	24,347
1966	6,732	1,680	2,318	1,617	3,733	2,147	4,812	713	663	4,439	28,854
1967	7,510	1,385	2,326	1,594	4,492	2,315	5,278	736	503	4,928	31,067
1968	7,089	1,949	2,299	1,431	3,463	1,685	3,489	499	564	4,413	26,881
1969	7,532	1,573	2,941	1,491	4,139	2,157	5,904	633	504	5,140	32,014
1970	9,986	1,608	3,470	2,183	4,862	2,230	6,392	622	580	5,663	37,596
1971	9,416	1,606	3,273	1,889	4,610	2,011	5,847	534	451	5,143	34,780
1972	9,266	1,623	3,200	1,948	4,279	2,467	6,979	551	426	7,997	38,736
1973	8,079	1,246	2,878	1,949	3,333	1,619	4,356	501	621	6,257	30,839
1974	6,880	1,592	2,672	1,865	4,976	2,011	6,598	626	513	5,781	33,514
1975	7,727	1,644	2,778	1,665	5,885	1,981	5,900	832	595	6,460	35,467
1976	7,934	1,245	2,505	1,548	4,745	1,748	5,476	666	614	5,819	32,300
1977	7,397	1,299	2,575	1,286	4,463	1,452	3,926	634	664	6,260	29,956
1978	7,425	1,558	3,282	2,174	4,499	1,975	5,108	725	373	5,984	33,103
1979	7,883	1,758	3,107	2,072	4,876	2,407	5,376	698	582	7,658	36,417
1980	7,707	1,393	3,596	2,050	4,895	1,908	4,508	728	735	6,382	33,902
1981	6,410	1,395	2,946	1,911	3,721	2,334	3,480	595	621	5,991	29,404
1982	6,409	1,634	2,459	1,536	3,658	2,148	3,709	617	513	5,532	28,215
1983	6,456	1,519	2,636	1,875	3,367	1,876	3,511	712	527	7,174	29,653
1984	5,415	1,515	3,002	1,408	3,979	1,618	2,965	671	530	7,024	28,127
1985	4,961	1,303	2,051	1,475	3,502	1,702	2,516	578	376	5,098	23,562
1986	6,124	1,547	1,737	1,675	4,479	2,128	2,740	560	438	5,235	26,663
1987	5,790	1,306	2,013	2,006	3,529	1,950	2,628	502	450	4,863	25,037
1988	6,369	1,350	2,211	2,061	4,011	1,681	2,006	442	435	4,671	25,237
1989	5,645	1,415	1,973	1,842	3,125	1,538	2,112	511	477	4,342	22,980
1990	5,452	1,672	1,860	1,790	2,776	1,759	2,257	481	539	4,293	22,879
1991	5,445	1,584	2,254	1,558	3,764	1,716	1,803	446	491	5,255	24,316
1992	5,976	2,033	2,208	1,773	4,333	1,954	2,098	596	482	4,639	26,092
1993	5,708	1,755	2,053	1,695	3,193	2,047	2,053	485	472	4,080	23,541
1994	6,980	2,318	2,382	2,108	4,616	2,912	2,972	654	526	4,529	29,997
1995	8,269	2,836	2,615	2,301	5,140	2,855	2,758	889	771	4,446	32,880
1996	7,941	2,984	2,272	2,500	6,407	3,449	2,736	834	849	4,217	34,189
1997	9,940	3,897	3,118	2,507	6,124	4,120	3,558	918	689	4,112	38,983
1998	9,640	3,742	2,858	2,087	6,399	3,183	2,521	1,005	686	3,472	35,593
1999	10,806	3,236	2,920	2,631	7,150	3,886	3,058	974	716	4,412	39,789
2000	9,470	3,158	2,733	3,194	7,431	3,521	2,908	926	707	4,026	38,074
2001	7,904	2,679	2,494	2,509	5,757	3,314	3,296	712	580	3,694	32,939
2002	7,504	2,235	2,334	2,334	4,207	2,318	1,790	565	487	3,524	27,298
2003	7,950	2,549	2,551	2,678	5,518	3,620	2,558	637	558	3,734	32,353
2004	7,425	2,590	1,981	2,461	4,073	2,810	2,185	605	617	3,807	28,554
2005	6,755	2,179	2,225	2,157	4,586	3,592	2,561	592	521	3,387	28,555
2006	7,277	2,825	2,171	2,587	5,860	3,680	3,386	916	691	3,247	32,640
<b>AVERAGES:</b>											
55-60	9,360	661	3,102	1,644	4,909	1,615	7,398	543	626	5,773	35,630
61-65	6,162	950	2,346	1,307	3,601	1,438	3,714	474	493	5,175	25,662
66-70	7,770	1,639	2,671	1,663	4,138	2,107	5,175	641	563	4,917	31,282
71-75	8,274	1,542	2,960	1,863	4,617	2,018	5,936	609	521	6,328	34,667
76-80	7,669	1,451	3,013	1,826	4,696	1,898	4,879	690	594	6,421	33,136
81-85	5,930	1,473	2,619	1,641	3,645	1,936	3,236	635	513	6,164	27,792
86-90	5,876	1,458	1,959	1,875	3,584	1,811	2,349	499	468	4,681	24,559
91-95	6,476	2,105	2,302	1,887	4,209	2,297	2,337	614	548	4,590	27,365
96-00	9,559	3,403	2,780	2,584	6,702	3,632	2,956	931	729	4,048	37,326
01-05	7,508	2,446	2,317	2,428	4,828	3,131	2,478	622	553	3,629	29,940
55-05	7,496	1,692	2,617	1,867	4,501	2,177	4,112	624	562	5,184	30,832
<b>PERCENT CHANGE IN 2006 FROM:</b>											
2005	8%	30%	-2%	20%	28%	2%	32%	55%	33%	-4%	14%
55-05 AVG	-3%	67%	-17%	39%	30%	69%	-18%	47%	23%	-37%	6%

KG 06/29/06

**ESTIMATED NUMBER OF MAY AND JULY PONDS (000'S) IN PORTIONS OF PRAIRIE CANADA AND THE NORTHCENTRAL U.S.**

YEAR	May			July			% Change, May --> July		
	Prairie Canada	North- Central U.S.	Total	Prairie Canada	North- Central U.S.	Total	Prairie Canada	North- Central U.S.	Total
1961	1,977			562			-72%		
1962	2,369			738			-69%		
1963	2,482			1,813			-27%		
1964	3,371			1,308			-61%		
1965	4,379			2,231			-49%		
1966	4,555			1,979			-57%		
1967	4,691			1,498			-68%		
1968	1,986			803			-60%		
1969	3,548			1,659			-53%		
1970	4,875			2,613			-46%		
1971	4,053			2,017			-50%		
1972	4,009			1,313			-67%		
1973	2,950			1,736			-41%		
1974	6,390	1,841	8,231	2,753	610	3,363	-57%	-67%	-59%
1975	5,320	1,911	7,231	2,410	923	3,333	-55%	-52%	-54%
1976	4,599	1,392	5,990	2,138	787	2,924	-54%	-43%	-51%
1977	2,278	771	3,049	1,391	469	1,861	-39%	-39%	-39%
1978	3,622	1,590	5,213	1,520	697	2,217	-58%	-56%	-57%
1979	4,859	1,522	6,381	1,803	755	2,558	-63%	-50%	-60%
1980	2,141	761	2,902	899	336	1,235	-58%	-56%	-57%
1981	1,443	683	2,126	873	458	1,331	-40%	-33%	-37%
1982	3,185	1,458	4,643	1,662	882	2,544	-48%	-39%	-45%
1983	3,906	1,259	5,165	2,264	958	3,222	-42%	-24%	-38%
1984	2,473	1,766	4,239	1,270	1,271	2,541	-49%	-28%	-40%
1985	4,283	1,327	5,610	1,563	754	2,317	-64%	-43%	-59%
1986	4,025	1,735	5,760	1,610	1,057	2,667	-60%	-39%	-54%
1987	2,524	1,348	3,872	1,226	858	2,084	-51%	-36%	-46%
1988	2,110	791	2,901	1,009	519	1,528	-52%	-34%	-47%
1989	1,693	1,290	2,983	932	731	1,664	-45%	-43%	-44%
1990	2,817	691	3,509	1,298	663	1,961	-54%	-4%	-44%
1991	2,494	706	3,200	2,563	865	3,428	3%	23%	7%
1992	2,784	825	3,609	1,272	664	1,937	-54%	-19%	-46%
1993	2,261	1,351	3,612	2,293	1,385	3,677	1%	3%	2%
1994	3,769	2,216	5,985	2,330	1,080	3,410	-38%	-51%	-43%
1995	3,893	2,443	6,335	1,773	1,577	3,350	-54%	-35%	-47%
1996	5,003	2,480	7,482	2,648	1,218	3,866	-47%	-51%	-48%
1997	5,061	2,397	7,458	2,490	1,347	3,837	-51%	-44%	-49%
1998	2,522	2,065	4,587	2,851	1,353	4,204	13%	-34%	-8%
1999	3,862	2,842	6,704	2,047	1,037	3,084	-47%	-64%	-54%
2000	2,422	1,525	3,947	2,451	1,402	3,852	1%	-8%	-2%
2001	2,747	1,893	4,640	1,838	1,032	2,870	-33%	-46%	-38%
2002	1,439	1,281	2,720	997	840	1,836	-31%	-34%	-32%
2003	3,522	1,668	5,190	1,496	1,017	2,513	-58%	-39%	-52%
2004	2,513	1,407	3,920		Not Surveyed			n/a	
2005	3,921	1,461	5,382		Not Surveyed			n/a	
2006	4,450	1,644	6,094		Not Surveyed			n/a	
<b>AVERAGES:</b>									
61-65	2,916			1,331			-54%		
66-70	3,931			1,710			-56%		
71-75	4,544	1,876		2,046	766				
76-80	3,500	1,207	4,707	1,550	609	2,159	-56%	-50%	-54%
81-85	3,058	1,299	4,357	1,527	864	2,391	-50%	-33%	-45%
86-90	2,634	1,171	3,805	1,215	766	1,981	-54%	-35%	-48%
91-95	3,040	1,508	4,548	2,046	1,114	3,160	-33%	-26%	-31%
96-00	3,774	2,262	6,036	2,497	1,271	3,769	-34%	-44%	-38%
01-05	2,828	1,542	4,371	1,443	963	2,406	-49%	-38%	-45%
61(74)-05*	3,358	1,522	4,830	1,720	918	2,707	-49%	-40%	-44%
<b>PERCENT CHANGE IN 2005 FROM:</b>									
2005	13%	13%	13%						
61(74)-05 AVG	33%	8%	26%						

\* Averages for July ponds and % change, May-July are based on 61(74)-03 estimates

# Tennessee Wildlife Resources Agency

## Regional Offices and Areas

### Region I Office

200 Lowell Thomas Drive  
Jackson, TN 38301

Phone: 731.423.5725  
Toll Free: 800.372.3928

### Region II Office

P. O. Box 41489  
Nashville, TN 37204

Phone: 615.781.6622  
Toll Free: 800.624.7406

### Region III Office

464 Industrial Blvd.  
Crossville, TN 38555

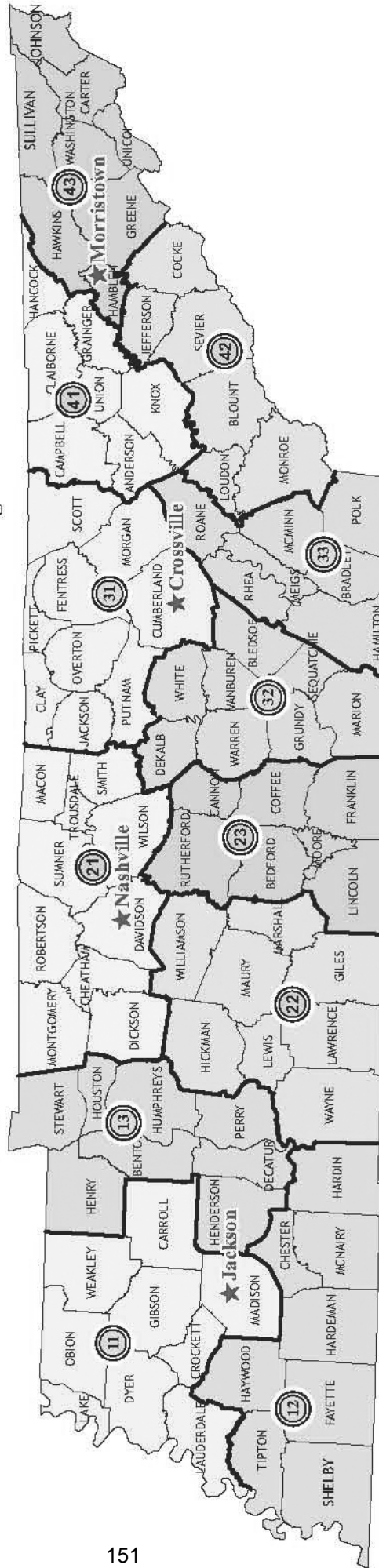
Phone: 931.484.9571  
Toll Free: 800.262.6704

### Region IV Office

3030 Wildlife Way  
Morristown, TN 37814

Phone: 423.587.7037  
Toll Free: 800.332.0900

Visit the TWRA website at: [www.tnwildlife.org](http://www.tnwildlife.org)



### Region I

- TWRA Area 11
- TWRA Area 12
- TWRA Area 13

### Region II

- TWRA Area 21
- TWRA Area 22
- TWRA Area 23

### Region III

- TWRA Area 31
- TWRA Area 32
- TWRA Area 33

### Region IV

- TWRA Area 41
- TWRA Area 42
- TWRA Area 43



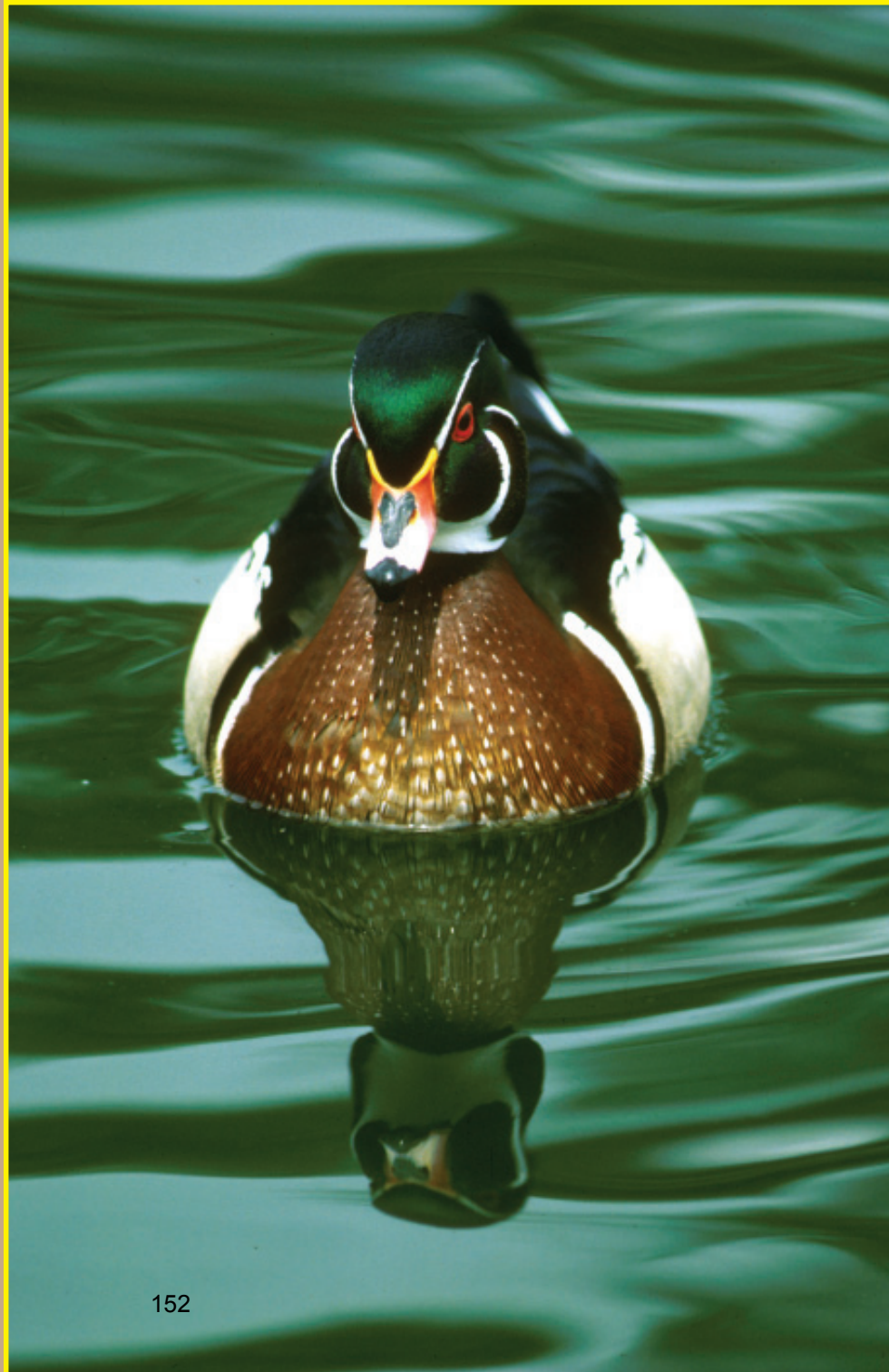
# 2005 Tennessee WATERFOWL HUNTING GUIDE

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**Effective  
October 1, 2005 -  
February 28, 2006**



**[www.tnwildlife.org](http://www.tnwildlife.org)**





# TWRA OFFICES

All Office Hours: 8 a.m.-4:30 p.m.  
Monday-Friday (local time)

## Central Office - Nashville

Ellington Agricultural Center P. O. Box 40747 Nashville, TN 37204 .....	615-781-6500
Boat Registration .....	615-781-6585
Boating Safety .....	615-781-6682
Director's Office .....	615-781-6552
Fisheries Division .....	615-781-6575
Law Enforcement .....	615-781-6580
Legal .....	615-781-6606
License Sales .....	615-781-6585
Personnel Division .....	615-781-6594
Quota Hunts .....	615-781-6621
Wildlife Division .....	615-781-6610

## West Tennessee - Region I

200 Lowell Thomas Drive Jackson, TN 38301 .....	731-423-5725
Toll Free .....	1-800-372-3928
Fax .....	731-423-6483

## Middle Tennessee - Region II

Ellington Agricultural Center P. O. Box 41489 Nashville, TN 37204 .....	615-781-6622
Toll Free .....	1-800-624-7406
Fax .....	615-831-9995

## Cumberland Plateau - Region III

464 Industrial Blvd. Crossville, TN 38555 .....	931-484-9571
Toll Free .....	1-800-262-6704
Fax .....	931-456-1025

## East Tennessee - Region IV

3030 Wildlife Way Morristown, TN 37814 .....	423-587-7037
Toll Free .....	1-800-332-0900
Fax .....	423-587-7057

TDD (Telecommunications Device for the Deaf) ..... 615-781-6691

Website ..... [www.tnwildlife.org](http://www.tnwildlife.org)

## AFTER HOURS INFORMATION

For general information, the following numbers may be called between the hours of 4:30 p.m. and midnight.

West Tennessee - Region I .....	1-800-372-3928
Middle Tennessee - Region II .....	1-800-624-7406
Cumberland Plateau - Region III .....	1-800-262-6704
East Tennessee - Region IV .....	1-800-332-0900

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Hunting and fishing license sales and federal excise taxes comprise over 90 percent of the TWRA's hunting and fishing operating revenues. Thank you for buying a hunting and fishing license. Without your support, Tennessee would not have fish and wildlife management programs.

This publication is not a legal document. It is a summary of Tennessee's waterfowl hunting regulations. More detailed information on waterfowl hunting is available from local wildlife officers and all TWRA offices.

Many TWRA programs receive Federal financial assistance in Sport Fish and/or Wildlife Restoration. Under Title VI of the 1964 Civil Rights Act, Section 504 of the Rehabilitation Act of 1973, Title II of the Americans with Disabilities Act of 1990, the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, the U.S. Department of the interior prohibits discrimination on the basis of race, color, national origin, age, sex, or disability. If you believe that you have been discriminated against in any program, activity, or facility as described above, or if you desire further information please write to: The Office for Human Resources, U.S. Fish and Wildlife Service, 4040 N. Fairfax Drive, Arlington, Virginia 22203.



Tennessee Wildlife Resources, Authorization No. 328788, 125,000 copies, October, 2005. This public document was promulgated at a cost of \$.08 per copy.

# SPECIAL REGULATIONS

## HUNTING HOURS

~~Ducks, Geese, Gallinules, Rails, Coots~~ One half hour before sunrise to sunset (except where otherwise noted).

## PLUGGED SHOTGUNS

No person shall hunt migratory game birds with a shotgun of any description capable of holding more than three (3) shells, unless it is plugged with a one-piece filler, incapable of removal without disassembling the gun, so its total capacity does not exceed three (3) shells.

## LEGAL SHOT

All federally approved nontoxic shot (bismuth-tin, steel, tungsten-bronze, tungsten-iron, tungsten-matrix, tungsten-nickel-iron, tungsten-polymer, tungsten-tin-bismuth or tungsten-tin-iron-nickel) are legal for waterfowl hunting.

Possession or use of any loose shot other than nontoxic shot or any shotgun shells other than nontoxic while hunting waterfowl, coots, gallinules, Virginia rails, and sora rails is prohibited.

## SPECIAL CLOSING TIMES ON WMAS

Waterfowl hunting on all WMAs, including those listed below, closes at sunset on the last day of the duck season.

- During the waterfowl season, hunting on Camden Unit I, C. M. Gooch Unit A and Unit E, Cold Creek Refuge, John Tully, Old Hickory Unit I, Reelfoot, Tigrett, West Sandy, South Fork Refuge and Wolf River closes at 3:00 p.m. (CST) except on the last day of the season when hunting shall close at sunset.
- Waterfowl hunting on White Oak closes at 1:00 p.m. (CST).
- All types of water traffic are prohibited after 2:00 p.m. (CST) on White Oak.
- No waterfowl hunters are allowed on Barkley Unit I, Big Sandy, Camden Unit I and Unit II, Cheatham Lake WMA, Chickamauga units, Gooch Unit A, Haynes Bottom WMA, Old Hickory Unit I and Unit II, Tigrett and West Sandy from 2 hours after legal shooting hours have ended until 4:00 a.m. the following day.

## SPECIAL REGULATIONS ON WMAS

- From Nov. 20-25, all activities are prohibited on subimpoundments of Barkley Unit I, Big Sandy (including Gin Creek), Camden Unit I, Gooch Unit A and Unit E, and West Sandy.
- From Nov. 28 - Dec. 2, all activities are prohibited on subimpoundments of Barkley Unit I, Big Sandy (including Gin Creek), Camden Unit I, and West Sandy.
- South Fork Refuge, hunting of waterfowl during the

late duck season permitted on Saturdays and Sundays, and the first and last day of each segment of the late duck season.

- Barkley WMA Unit I is closed on Monday, Tuesday, and Friday except the first and last day of each segment of the late duck and goose seasons.
- Cheatham Lake WMA, Haynes Bottom WMA, and Woods Reservoir are closed on Monday, Tuesday, and Friday except the first and last day of each segment of the late duck season.
- Big Sandy WMA (including Gin Creek) is closed on Tuesdays and Fridays except the first and last day of each segment of the late duck and goose seasons.
- On Bogota WMA, (Pool 1 only), hunting of waterfowl during the late duck season permitted only on Friday, Saturday, Sunday, and the first and last day of each segment of the late duck season. All hunting shall cease at 3:00 p.m. (CST) each day, except the last day of the season when hunting shall close at sunset.
- North Chickamauga Creek open each Tuesday, Thursday, Saturday, and the first and last day of the statewide season. Hunting ends at noon each day. All hunting closes Jan. 31.
- The Maness Swamp hunting unit of the Obion River WMA is open on Friday, Saturday and Sunday of the late duck seasons. All hunting shall cease at 3:00 p.m. (CST) each day, except the last day of each segment of the season when hunting shall close at sunset.
- Waterfowl hunting on Shelby Forest is open Monday, Wednesday and Saturday within the statewide duck season and the last 7 days of the statewide duck season, except Sunday. No permanent blinds. No decoys left overnight.
- Duck and Goose season for Laurel Hill Lake is Saturday, Jan. 14, 2006, through Sunday, Jan. 29, 2006. Hunting from temporary blind sites only (boat blinds allowed).

**MANDATORY HUNTER EDUCATION**

All hunters, resident or nonresident, born on or after Jan. 1, 1969, must possess proof that they have successfully completed a hunter education course. Those under 10 years of age do not need a Hunter Education certificate, but must be accompanied by an adult at least 21 years of age who must remain in a position to take immediate control of the hunting device. Call your local TWRA office or visit the TWRA’s website at [www.tnwildlife.org](http://www.tnwildlife.org) for a listing of scheduled Hunter Safety classes. **NOTE: To replace a Hunter Education Card at a TWRA license agent location, first contact your TWRA Regional Office during normal business hours. Verify that your**

*Hunter Education number has been updated in the TWRA license system. Then you may go to a TWRA license agent and purchase a Type 500 (Hunter Education Card Replacement), for \$7.00.*

**LICENSE FEES**

*All waterfowl hunters* are required to have the following in order to hunt waterfowl in Tennessee:

1. the appropriate license(s)
2. a Federal Duck Stamp
3. a Tennessee Migratory Bird Permit (HIP permit)

**RESIDENT LICENSES**

**Hunting and Fishing Combination (Type 001) ....\$28**  
**Waterfowl (Type 005) .....\$31**

Needed in addition to Type 001.

**Annual Sportsman (Type 004) .....\$136**

An all-inclusive license valid for hunting, trapping, and sport fishing without any state supplemental licenses or non-quota permits and allows holders to apply for quota permits at no additional fee. Sportsman licenses can be purchased from all license agents.

**Lifetime Sportsman ..... age determines the cost**

An all-inclusive lifetime license valid for hunting, trapping and sport fishing without any state supplemental licenses or permits. Allows holders to apply for quota permits at no additional fee. Applications are available at your local TWRA office and the TWRA website.

**Junior Hunt/Trap/Fish (Type 002) .....\$8**

Ages 13-15. Good for hunting all game, fishing, and trapping. Must be purchased prior to 16th birthday. No supplemental licenses are required, but special season and WMA permits will need to be purchased in addition to this license.

**Permanent Sr. Citizen Hunt/Fish/Trap**

**(Type 166) ..... \$11**

Available at all license agents and can only be purchased when 65th birthday is reached. A valid Tennessee driver’s license or proof of age and residency is required. No supplemental licenses are required, but special season and WMA permits will need to be purchased in addition to this license. Application with proof of age and residency can be mailed in.

**NONRESIDENT LICENSES**

**Junior Hunt/Fish (Type 070) ..... \$9**

Required for nonresidents ages 13-15. A Type 073 or 074 is required to hunt big game.

**7-Day Hunt-Small Game/Waterfowl**

**(Type 072) ..... \$50.50**

**Hunt-Small Game/Waterfowl (Type 071) ..... \$91**

**7-Day All Game (Type 074) ..... \$175.50**

**Annual All Game (Type 073) ..... \$251**



## MIGRATORY BIRD PERMIT REQUIRED

Resident and nonresident hunters must possess a Tennessee Migratory Bird Permit to hunt waterfowl and other migratory birds. Available at any license agent or TWRA regional office. The following do not need to have this permit:

- Landowners hunting on their own land
- Disabled veterans
- Tennessee residents 65 years or older
- Tennessee residents under 13 years of age
- Lifetime Sportsman license holders

**Migratory Bird Permit (Type 006) ..... \$2**

**Migratory Bird Permit (Type 007) ..... no fee**

Only available to Sportsman license holders.

## FEDERAL DUCK STAMP - \$15

Federal law requires that each waterfowl hunter, age 16 and over, carry on his/her person, in addition to a hunting license and permit, a valid Federal Migratory Bird Hunting and Conservation Stamp (federal duck stamp) signed in ink across the face. These can be obtained through the Post Office, National Wildlife Refuge offices, and some discount and sporting goods stores.

## WILDLIFE MANAGEMENT AREA PERMITS

Everyone who hunts on wildlife management areas that require permits must have a WMA permit except: a holder of a Lifetime Sportsman License, an Annual Sportsman License, or juveniles under age 16 hunting small game and waterfowl. (A complete list of WMAs, including those that require permits, can be found in the *2005 Tennessee Hunting and Trapping Guide*.) NOTE: Juvenile hunters must be accompanied by an adult with a valid WMA permit, if required by that WMA.

**WMA Small Game and Waterfowl (Type 091) ..... \$51**

**1-Day Small Game and Waterfowl (Type 092) .... \$10.50**

**Annual Senior Citizen Permit (Type 167) ..... \$41**

May be purchased only by holders of a Type 165 or Type 166 license. It covers all small game, waterfowl, and non-quota permits required by TWRA and allows holders to apply for quota permits without payment of additional fees.

**Reelfoot Preservation Permit** - Required for all users of Reelfoot WMA except those under 16 years of age, residents 65 years or older and holders of the adult Annual Sportsman License, Lifetime Sportsman License or Type 167 Permit.

**Annual Reelfoot Pres. Permit (Type 089) ..... \$17**

**3-Day Reelfoot Pres. Permit (Type 088) ..... \$10.50**

**1-Day Reelfoot Pres. Permit (Type 090) ..... \$3.50**

**Refer to the current *Tennessee Hunting and Trapping Guide* for regulations regarding waterfowl hunting on specific WMAs.**

## DUCKS, COOTS, MERGANSERS, GALLINULES, VIRGINIA & SORA RAILS

### DUCKS, COOTS & MERGANSERS

**Reelfoot Duck Zone** (the lands and waters within the boundaries of Reelfoot Lake WMA only)

Nov. 12-13, 2005

Dec. 3, 2005 - Jan. 29, 2006

**Canvasback** - Dec. 31, 2005 - Jan. 29, 2006

**Remainder of State**

Nov. 26-27, 2005

Dec. 3, 2005 - Jan. 29, 2006

**Canvasback** - Dec. 31, 2005 - Jan. 29, 2006

### GALLINULES & MOORHENS

**Reelfoot Duck Zone**

Nov. 12-13, 2005

Dec. 3, 2005 - Jan. 22, 2006

**Remainder of State**

Nov. 26-27, 2005

Dec. 3, 2005 - Jan. 22, 2006

### VIRGINIA & SORA RAILS

**Reelfoot Duck Zone**

Nov. 12-13, 2005

Dec. 3, 2005 - Jan. 20, 2006

**Remainder of State**

Nov. 26-27, 2005

Dec. 3, 2005 - Jan. 20, 2006

### DAILY BAG LIMITS

**Ducks** - 6 birds, and may include no more than 4 mallards (no more than 1 of which may be female), 1 black duck, 2 wood ducks, 1 pintail, 1 canvasback (Dec. 31, 2005 - Jan. 29, 2006), 2 scaup and 2 redheads.

Coots and Gallinules - 15

**Mergansers** - 5 (only 1 of which may be a hooded merganser)

**Virginia and sora rails** - 25

### POSSESSION LIMIT

Twice the daily bag limit except on opening day. Rails same as daily bag limit.

### YOUTH WATERFOWL HUNTING SEASON

**Statewide** (includes Reelfoot Zone)

**Feb. 4-5, 2006, For youths 6-15 years of age.**

An adult at least 21 years of age must accompany the youth hunter into the field and must remain in a position to take control of the hunting device. The adult accompanying the young hunter may not hunt ducks but may participate in other open seasons. Geese, coots, gallinules, moorhens, and ducks, including pintails, may be taken by

youths during Youth Waterfowl Season, but canvasback season is closed during Youth Waterfowl Season. Bag Limit - Same as statewide bag limits. See Daily Bag Limits.

## WHITE-FRONTED GEESE

**Statewide season** - Dec. 3, 2005 - Feb. 12, 2006  
**Daily bag limit** - 2 white-fronted geese  
**Possession limit** - Twice the daily bag limit except on opening day.

## BLUE, SNOW & ROSS' GEESE

**Statewide season** - Nov. 12, 2005 - Feb. 26, 2006  
**Daily bag limit** - 20 blue, snow, and Ross' geese  
**Possession limit** - There is no possession limit for blue, snow, and Ross' geese except on opening day when it is the same as the daily bag limit.

## BRANT

**Statewide season** - Nov. 26, 2005 - Jan. 30, 2006  
**Daily bag limit** - 2 brant  
**Possession limit** - Twice the daily bag limit except on opening day.

### Attention Waterfowl Hunters

According to Tennessee law (TCA Section 70-4-108) when hunting on public land or waters, you cannot hunt within 100 yards of a visible dwelling without the owner's permission.

## CANADA GEESE

(It is not required to tag or check Canada geese.)

**Daily bag limit** - 2 Canada geese in all zones

**Possession limit** - Twice the daily bag limit except on opening day.

### ZONES, SEASON DATES AND QUOTAS

The following Canada Goose Zones contain information pertaining to each zone.

**Northwest MVP Zone** (Lake, Obion, Weakley counties and those portions of Gibson and Dyer counties not included in the Southwest MVP Zone)  
 Dec. 3, 2005 - Feb. 12, 2006

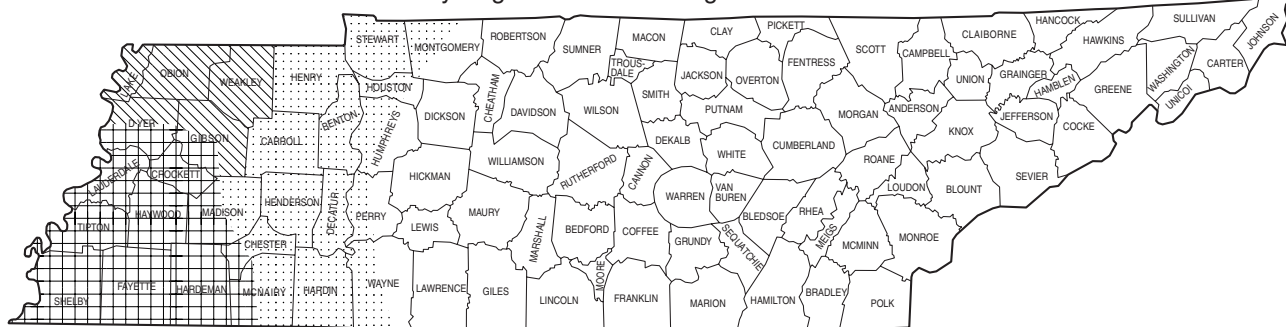
**Southwest MVP Zone** (that portion of the state bounded on the north by Hwys. 20 and 104 and on the east by Hwys. 45W and 45)  
 Oct. 1-9, 2005  
 Dec. 11, 2005 - Jan. 29, 2006

**Kentucky/Barkley Lakes Zone** (those counties or portions thereof west of Hwy. 13 not included in the Northwest and Southwest MVP Zones)  
 Oct. 1-9, 2005  
 Dec. 11, 2005 - Jan. 29, 2006

**Remainder of the State** (all counties and portions of counties east of Hwy. 13)  
 Oct. 1-9, 2005  
 Dec. 1, 2005 - Jan. 30, 2006

## CANADA GOOSE ZONES

Daily Bag Limit - 2 Canada geese in all zones



**Northwest MVP Zone**

Dec. 3, 2005 - Feb. 12, 2006



**Kentucky/Barkley Lakes Zone**

Oct. 1-9, 2005

Dec. 11, 2005 - Jan. 29, 2006



**Southwest MVP Zone**

Oct. 1-9, 2005

Dec. 11, 2005 - Jan. 29, 2006



**Remainder of the state**

Oct. 1-9, 2005

Dec. 1, 2005 - Jan. 30, 2006

## WHY BAND BIRDS?

Bird banding data are useful in both research and management. Individual identification of birds makes possible studies of the bird's dispersal and migration, behavior and social structure, life-span and survival rate, reproductive success and population growth.

An analysis of banding information from game birds is completed annually and is essential for developing hunting regulations and for detecting changes in waterfowl populations. Banding data can be used to assess the hunting pressure, estimate productivity and survival, and measure the vulnerability of the age/sex classes to hunting pressure.

There are bands used by professional bird banders in North America to accommodate every species of bird from the tiniest hummer to the largest Trumpeter Swan. Bands are made to last, but they do wear out eventually. However, even seemingly invisible numbers on very worn bands can be determined using etching. Hundreds of bands are etched and returned to hunters by the Bird Banding Laboratory every year.

To learn more about bird banding contact the Bird Banding Lab at USGS Patuxent Wildlife Research Cen-



ter/Bird Banding Laboratory/12100 Beech Forest Road/Laurel, MD 20708-4037. Telephone: 301-497-5790; Fax: 301-497-5717; [www.pwrc.usgs.gov/bbl](http://www.pwrc.usgs.gov/bbl)



To report recovered duck and  
goose bands call:

**1-800-327-BAND (2263)**

<http://www.pwrc.usgs.gov/bbl>

## FEDERAL REGULATIONS SUMMARY

In addition to state regulations, the following federal rules apply to taking, possession, shipping, transporting, and storing of migratory game birds. This is only a summary. Each hunter should also consult actual regulations, which may be found in Title 50, Code of Federal Regulations, Part 20.

**Restrictions:** No person shall take migratory game birds:

- With a trap, snare net, rifle, pistol, swivel gun, shotgun larger than 10-gauge, punt gun, battery gun, machine gun, fishhook, poison, drug, explosive or stupefying substance.
- With a shotgun capable of holding more than three shells, unless it is plugged with a one-piece filler which cannot be removed without disassembling the gun.
- From a sink box (a low floating device, having a depression affording the hunter a means of concealment beneath the surface of the water).
- From or with the aid or use of a car or other motor-driven vehicle, or any aircraft, except that paraplegic and single or double amputees of the legs may take from any stationary motor vehicle. "Paraplegic" means an individual afflicted with paralysis of the lower half of the body with involvement of both legs, usually due to disease of or injury to the spinal cord.
- From or by means of any motor boat or sail boat unless the motor has been completely shut off and/or the sail furled and its progress therefrom has ceased.
- By the use or aid of live decoys. All live, tame or captive ducks and geese shall be removed for a period of 10 consecutive days prior to hunting and confined within an enclosure which substantially reduces the audibility of their calls and totally conceals such tame birds from the sight of migratory waterfowl.
- Using records or tapes of migratory bird sounds, or electronically amplified imitations of bird calls.
- By driving, rallying or chasing birds with any motorized conveyance or any sail boat to put them in the range of the hunters.
- By the aid of baiting (placing feed such as corn, wheat, salt or other feed to constitute a lure or enticement), or on or over any baited areas. Hunters should be aware that a baited area is considered to be baited for 10 days after the removal of the bait, and it is not necessary for the hunter to know an area is baited to be in violation.

**CLOSED SEASON.** No person shall take migratory game birds during the closed season.

**SHOOTING or HAWKING HOURS.** No person shall take migratory game birds except during the hours open to shooting and hawking as prescribed.

**DAILY BAG LIMIT.** No person shall possess more than one daily bag limit.

**FIELD POSSESSION LIMIT.** No person shall possess more than one daily bag limit while in the field or while returning from the field to one's car, hunting camp,

home, etc.

**WANTON WASTE.** All migratory game birds killed or crippled shall be retrieved, if possible, and retained in the custody of the hunter in the field.

**TAGGING.** No person shall give, put or leave any migratory game birds at any place or in the custody of another person unless the birds are tagged by the hunter with the following information: The hunter's signature, address, the total number of birds involved by species and the dates such birds were killed. No person or business shall receive or have in custody any migratory game birds belonging to another person unless such birds are properly tagged.

**POSSESSION of LIVE BIRDS.** Wounded birds reduced to possession shall be immediately killed and included in the daily bag limit.

**DRESSING.** No person shall completely field dress any migratory game bird (except doves and band-tailed pigeons) and then transport the birds from the field. The head or one fully feathered wing must remain attached to all such birds while being transported from the field to one's home or to a migratory bird preservation facility.

**SHIPMENT.** No person shall ship migratory game birds unless the package is marked on the outside with: (a) the name and address of the person sending the birds, (b) the name and address of the person to whom the birds are being sent, and (c) the number of birds, by species, contained in the package.

**IMPORTATION.** For information regarding the importation of migratory birds killed in another country, hunters should consult 50 CFR 20.61 through 20.66. One fully feathered wing must remain attached to all migratory game birds being transported between a port of entry and one's home or to a migratory bird preservation facility. No person shall import migratory game birds killed in any foreign country, except Canada, unless such birds are dressed (except as required above), drawn and the head and feet are removed. No person shall import migratory game birds belonging to another person.

**MIGRATORY BIRD HUNTING and CONSERVATION STAMP.** The law requires that each waterfowl hunter 16 years of age and over must carry on his or her person a valid Migratory Bird Hunting and Conservation Stamp (duck stamp) signed in ink across the face.

**DUAL VIOLATION.** Violation of state migratory bird regulations is also a violation of federal regulations.

**CAUTION.** More restrictive regulations may apply to National Wildlife Refuges open to public hunting. For additional information on federal regulations, contact Special Agent-in-Charge, U.S. Fish and Wildlife Service, RM 132-C, U.S. Courthouse, 801 Broadway, Nashville, TN 37203. Telephone 615-736-5532.



# WMA DUCK BLIND RULES

The complete rule governing duck blinds on state WMAs can be found at the following web address:

[www.state.tn.us/sos/rules/1660/1660-01/1660-01-02](http://www.state.tn.us/sos/rules/1660/1660-01/1660-01-02)

## CHANGES MADE TO WMA DUCK BLIND RULES IN 2002 AND 2004

The following regulations apply only to Woods Reservoir of A.E.D.C., Barkley Units I and II, Cheatham Lake, Old Hickory Units I and II, Camden Units I and II, Big Sandy, Cordell Hull, Gooch Unit A, Harmon's Creek, Haynes Bottom, Reelfoot, Tigrett, and West Sandy Wildlife Management Areas, except for portions of Barkley and Cheatham Lake Wildlife Management Areas as noted in Paragraph (3) of these Rules and Regulations.

- (a) For the purpose of this rule the following definitions apply:
1. A permanent draw blind site is a waterfowl hunting blind location established by the Tennessee Wildlife Resources Agency and assigned annually by a random drawing as provided in Paragraph (3) of Rule 1660-1-8-.05.
  2. A temporary blind is either a structure assembled or placed for one day of waterfowl hunting; a boat that is used for one day of waterfowl hunting; or, a site consisting of the use of natural vegetation or conditions for concealment for one day of waterfowl hunting.
  3. A permanent registered blind site is a waterfowl hunting blind location registered to a specific individual on Reelfoot or West Sandy identified with geographic coordinates. These sites may not be relocated or transferred to another individual. It is the intent that over time all permanent registered blind sites will be converted to permanent draw blind sites or temporary blind sites.
  4. A permanent blind is either a permanent registered blind, a permanent draw blind, or a permanent public blind site.
  5. A subimpoundment is the water managed by the Tennessee Wildlife Resources Agency or its management partner in association with waterfowl hunting and habitat management.
- (b) No waterfowl hunting on Barkley Unit I, Camden Unit I, Cheatham Lake, Cordell Hull, Gooch Unit A, Haynes Bottom, Old Hickory Units I and II, and Woods Reservoir of A.E.D.C. Wildlife Management Areas during the late waterfowl seasons, except from fixed (floating or post type) blinds registered with the Tennessee Wildlife Resources Agency except as provided for in proclamation and as exempted in subparagraphs (h), (i), and (l) below. Permanent draw blinds and temporary blinds must be within five (5) feet of designated stakes. Designated stakes may not be moved without approval of the area manager.
- (c) All permanent draw blind construction must be completed by the fourth Monday in October. To be considered completed an adequate framed structure with minimum dimensions of 4 feet wide, 4 feet high and 8 feet long not to exceed 30 feet in length and not to exceed 300 total square feet with walls consisting of netting wire, or solid material to which camouflage can be attached must be in place. All camouflage must be completed by opening day of waterfowl season. Pits may be constructed on sites as designated. Any blinds not meeting these requirements will be canceled. If adverse environmental conditions prevent the construction and/or placement of a blind at the site by the deadline, as determined by the TWRA, the area manager may grant an extension. The area manager must receive a written request for an extension from the primary blind permittee, prior to the fourth Monday in October. Should these adverse environmental conditions persist and completely prevent the construction and/or placement of a blind on the site, as verified by the area manager, the primary blind permittee shall not be denied the opportunity to participate in the drawing the following year. Blinds rendered unusable or destroyed may be repaired or replaced at the discretion of the area manager.
- (d) No more than eight individuals age sixteen (16) or older may occupy a permanent draw blind at any time. This restriction shall include those permanent draw blind sites that may become temporary blind sites as a result of those blinds not being chosen at the blind allocation drawing or canceled by the Tennessee Wildlife Resources Agency. (NOTE: No restriction on the number of youths 15 years of age or younger.)
- (e) The permittee, who is the person to whom the Agency issued the permit, must occupy his/her blind by the legal daily opening shooting time on days he/she wishes to hunt, and if the blind is unoccupied at that time by the permittee, the first person or party occupying said blind shall be entitled to the privilege of its exclusive and uninterrupted use until the end of the shooting hours of that day. Exclusive and uninterrupted use entitles the person or party to the right to exclude all others from the blind, at the person's or party's option, except for law enforcement personnel engaged in the performance of their duties. The permittee has priority use (exclusive and uninterrupted use) only if he/she is at the blind on or before the legal daily opening shooting time, regardless of whether or not the blind is occupied by another person or party, provided the permittee produces identification and his/her blind permit.
- (f) All blinds must be removed from the reservoir and government property by May 1 of the following year. Any blind not removed will become the property of the Tennessee Wildlife Resources Agency for future use and/or destruction.

- (g) If any waterfowl blind permittee violates any of the Rules and Regulations contained herein, he/she is subject to have his/her blind permit canceled in addition to the penalty prescribed by law.
- (h) Hunting will be permitted from permanent draw blinds and temporary blinds on Camden Unit II, Big Sandy (including Gin Creek Unit), Cordell Hull, Harmon's Creek, Tigrett, and West Sandy in accordance with statewide rules and regulations. Any temporary blinds or hides and decoys must be at least 200 yards from any permanent blind and must be removed from the area at the end of shooting each day. All permanent blinds must be within 5 feet of designated stakes.
- (i) Hunting will be permitted from permanent draw blinds and staked positions for temporary blinds on Old Hickory Unit I and Unit II. Hunting from temporary blinds is on a first-come, first-serve basis. Any temporary blinds constructed on staked positions and decoys must be removed from the area at the end of shooting hours each day.
- (j) Trespassing or disturbance is prohibited in posted areas during the waterfowl season.
- (k) Public access will be prohibited in the subimpoundments of Barkley Unit I, Cheatham Lake, Haynes Bottom, Old Hickory Units I and II, Camden Units I and II, Big Sandy, Gooch Unit A, Tigrett, and West Sandy from two hours after legal shooting hours have ended until four a.m. the following day during the late duck season(s).
- (l) Blinds not chosen at the blind allocation drawing or canceled by Tennessee Wildlife Resources Agency will become temporary blind sites for the year of the drawing.

**The following regulations apply to the Wildlife Management Area, as indicated: (a) A.E.D.C. (Except Woods Reservoir), Anderson Tully, Barkley Unit II, Cottonport, Yellow Creek, Long Island, Lick Creek, New Hope, Percy Priest Unit II, Candies Creek, Roger's Creek, Johnson Bottoms, Mark's Creek Unit of Cheatham Reservoir, and areas as specified under proclamation of Cheatham Reservoir, White Oak, that area of Barkley Reservoir as specified under annual proclamation, that portion of Old Hickory Unit III, from Mile No. 268 upstream to the abandoned Lock and Dam site No. 6 at approximately Mile No. 281, Ernest Rice, Sr., Obion River, Moss Island, Gooch Units B, C, and E, Shelby Forest, and Wolf River.**

1. No permanent blinds allowed.
2. Decoys must be picked up each day.
3. Temporary blinds must be built the day of the hunt and hunters using temporary blinds must remove or destroy such blinds at the end of the day's hunt.

(b) Reserved

### (c) Reelfoot Wildlife Management Area

4. A permanent registered blind site holder may annually designate other individuals who may for that season be permitted priority use of their permanent blind sites. These persons, hereinafter referred to as sign-ons, must be identified at the time of the blind site registration and must sign on in person or the registrant may present notarized signatures proving the identify of his sign-ons. Sign-ons to permanent registered blind sites which are registered through certified mail, must join in the execution of the affidavit described in Paragraph No. 2.

### (d) West Sandy Wildlife Management Area

- (i) A permanent blind is a framed structure of a minimum of 4 feet wide, 4 feet high and 8 feet long not to exceed 30 feet in length and not to exceed 300 square feet with walls consisting of netting wire or solid material to which camouflage is or may be attached that is constructed on or moved to either a permanent registered blind site or a permanent draw blind site.
5. A permanent registered blind site holder may annually designate other individuals who may for that season be permitted priority use of their permanent blind sites. These persons, hereinafter referred to as sign-ons must be identified at the time of the blind registration
  8. The permittee, who is the person to whom the Agency issued the permit, must occupy his/her blind by the legal daily opening shooting time on days he/she wishes to hunt, and if the blind is unoccupied at that time by the permittee, the first person or party occupying said blind shall be entitled to the privilege of its exclusive and uninterrupted use until the end of the shooting hours of that day. Exclusive and uninterrupted use entitles the person or party to the right to exclude all others from the blind, at the person's or party's option, except for law enforcement personnel engaged in the performance of their duties. The permittee has priority use (exclusive and uninterrupted use) only if he/she is at the blind on or before the legal daily opening shooting time, regardless of whether or not the blind is occupied by another person or party, provided the permittee produces identification and his/her blind permit.
  9. Nether permanent registered blind site holders nor their sign-ons may compete for nor may they be registered or signed on any other Tennessee Wildlife Resources Agency blind site in the state.

Statutory Authority T.C.A. 70-4-107

# DON'T SHOOT UNLESS YOU'RE SURE!

Many protected species of waterfowl, wading birds, and other waterbirds occur alongside the many species of waterfowl that can be legally hunted in Tennessee. These species are protected by both State and Federal law, and cannot be legally hunted anywhere in the state. Some protected species utilize the same habitats, possess similar coloration, and share the habits of many le-

gally hunted birds.

Through careful study, accidental shootings of protected species can be prevented. Please help the Tennessee Wildlife Resources Agency prevent accidental shootings by familiarizing yourself with these protected species before heading into the field and remember, "Don't Shoot Unless You're Sure."

## SNOW GOOSE

White, with black wing tips  
Short neck  
Wingspan: 53"  
Length: 28"

*Illustrations compliments of US Fish & Wildlife*

## CANADA GOOSE

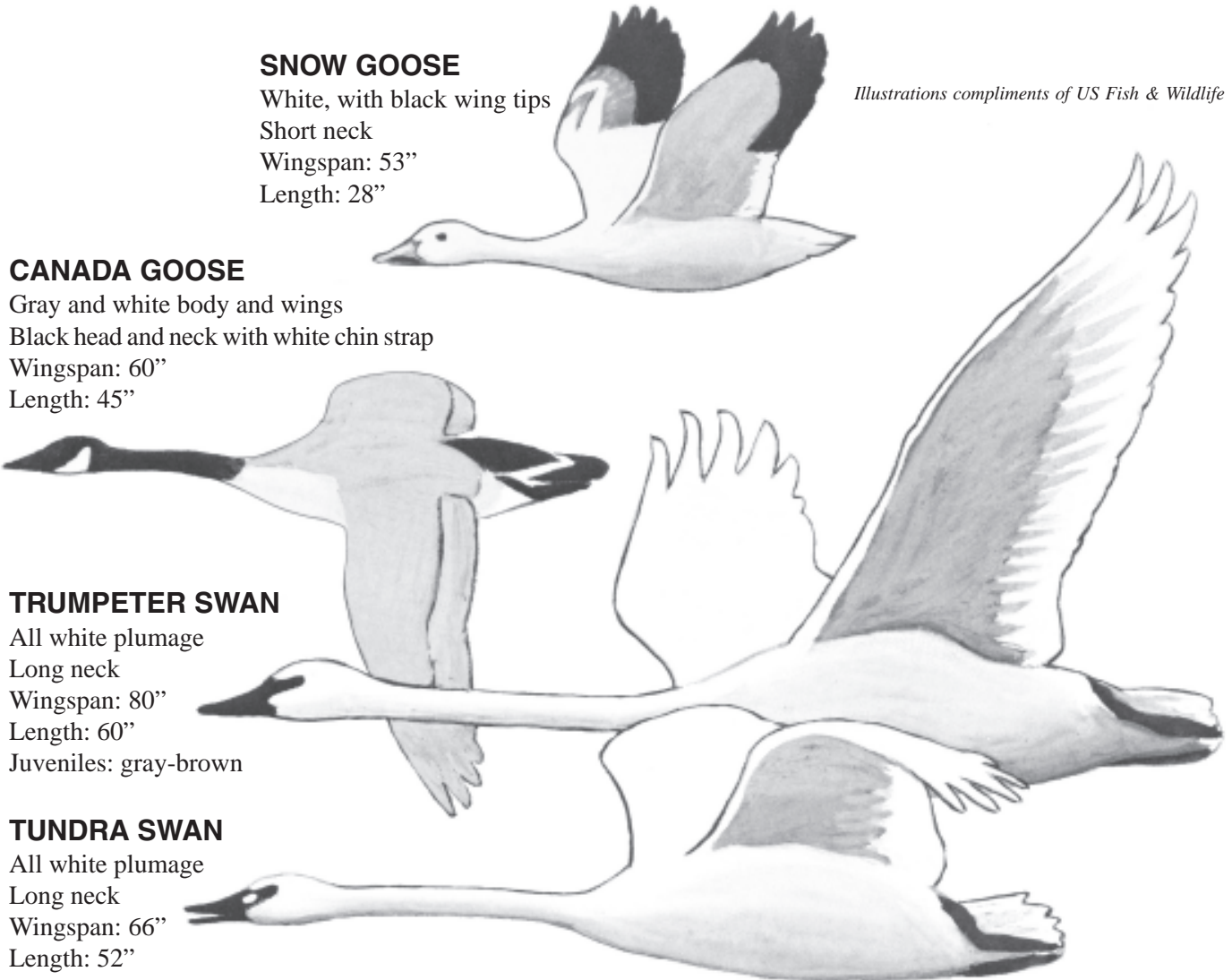
Gray and white body and wings  
Black head and neck with white chin strap  
Wingspan: 60"  
Length: 45"

## TRUMPETER SWAN

All white plumage  
Long neck  
Wingspan: 80"  
Length: 60"  
Juveniles: gray-brown

## TUNDRA SWAN

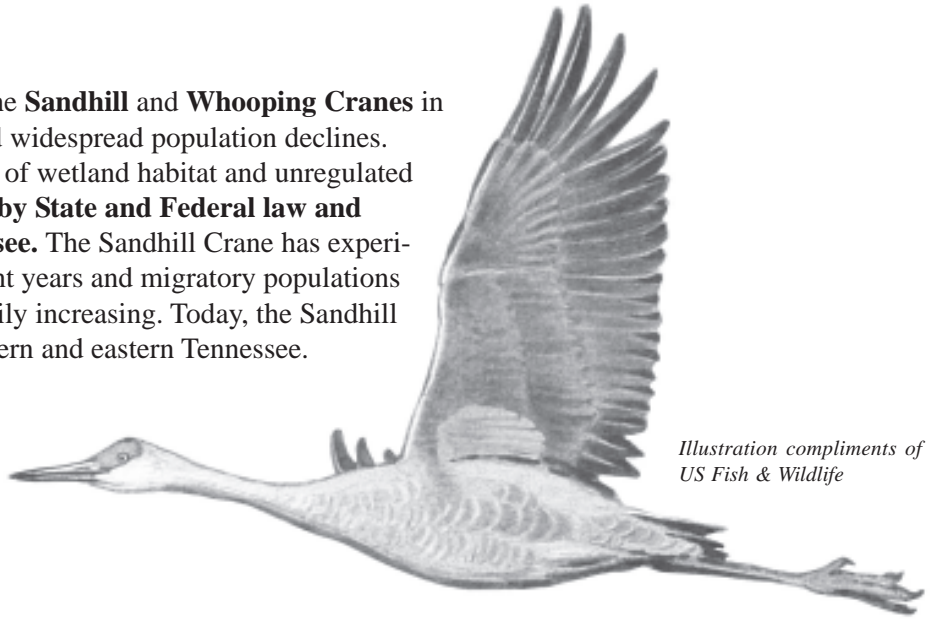
All white plumage  
Long neck  
Wingspan: 66"  
Length: 52"  
Juveniles: gray-brown



The **Trumpeter** and **Tundra Swans** are the largest and the only native, all white waterfowl occurring in Tennessee. **Both species are protected by both State and Federal law in Tennessee and cannot be hunted.** Until last year, John James Audubon had reported the last live Trumpeter Swans in Tennessee during his 1820 flatboat trip down the Mississippi River. As a result of intensive reintroduction efforts in the eastern United States, Trum-

peter Swans returned to Tennessee in December of 2001 in Lauderdale County. Reintroduction of Trumpeter Swans is a cooperative effort between State, Federal, and non-governmental organizations including sportsmen and nonconsumptive user groups. If you see a Trumpeter Swan in Tennessee, please report it to the appropriate TWRA Regional Office.

Historically, populations of both the **Sandhill** and **Whooping Cranes** in the eastern United States experienced widespread population declines. These declines resulted from the loss of wetland habitat and unregulated market hunting. **Both are protected by State and Federal law and cannot be legally hunted in Tennessee.** The Sandhill Crane has experienced a tremendous recovery in recent years and migratory populations crossing through Tennessee are steadily increasing. Today, the Sandhill Crane is common in portions of western and eastern Tennessee.



*Illustration compliments of US Fish & Wildlife*

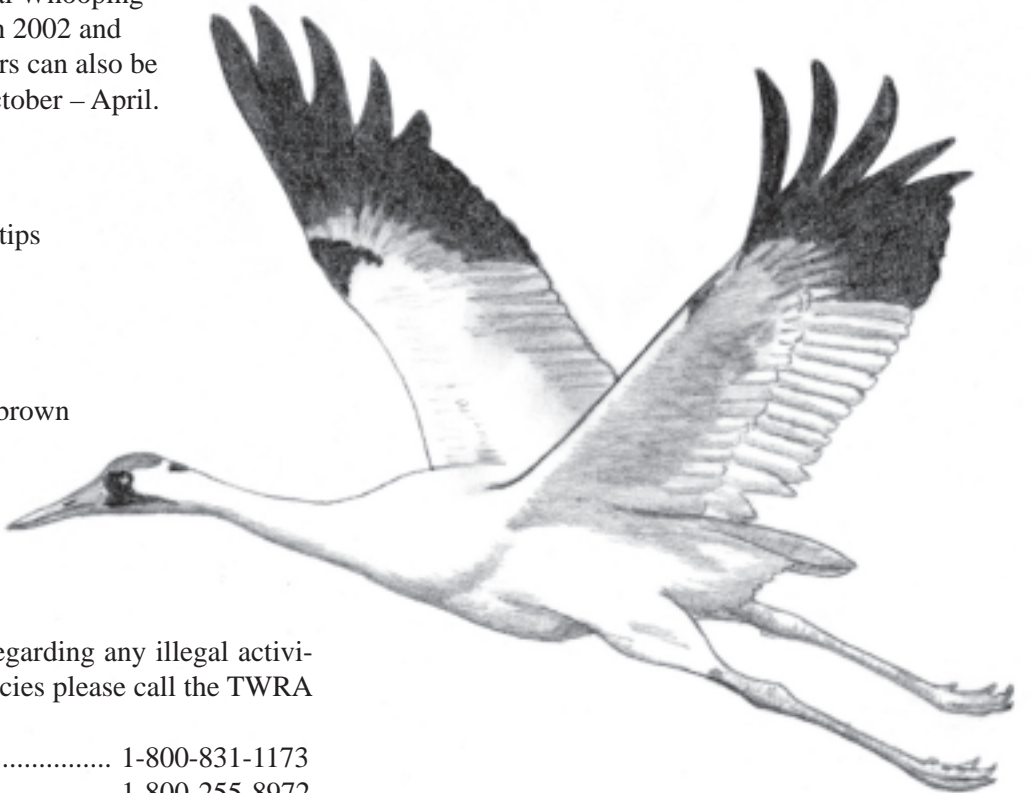
A flock of Whooping Cranes migrating across Tennessee in October 2001 became the first migratory flock of that species in the state in over 100 years. An effort to reintroduce a migratory flock of Whooping Cranes to the eastern United States includes Tennessee as a vital part of the migratory journey. An ultralight aircraft serving as a surrogate parent to the Whooping Crane juveniles is teaching them the long-forgotten migratory route through Tennessee to wintering grounds in Florida. Additional Whooping Cranes were led by aircraft in 2002 and several free-ranging Whoopers can also be expected in the state from October – April.

**SANDHILL CRANE**

- Gray plumage
- Long neck
- Long legs trailing body
- Wingspan: 77"
- Length: 46"
- Juveniles: gray mixed with brown

**WHOOPING CRANE**

- White body with black wing tips
- Long neck
- Long legs trailing body
- Wingspan: 87"
- Length: 52"
- Juveniles: white mixed with brown



If you have information regarding any illegal activities concerning protected species please call the TWRA Poacher Hotline:

- West TN (Reg. I) ..... 1-800-831-1173
- Middle TN (Reg. II) ..... 1-800-255-8972
- Cumberland Plateau (Reg. III) ..... 1-800-241-0767
- East TN (Reg. IV) ..... 1-800-831-1174

## Bogota WMA 2005-06 Season Report

Bogota WMA was proclaimed in May 2005 as a new TWRA Wildlife Management Area. Located in Dyer County, in Northwest Tennessee, Bogota WMA encompasses 1300 acres along the Obion River Drainage. Bogota is being developed primarily as a public waterfowl hunting area and was purchased with TWRA Wetland Acquisition funds, along with partner funding from Ducks Unlimited, the North American Wetland Conservation Fund, Federal Aid to Wildlife Restoration, and the Tennessee Parks and Greenways Foundation.

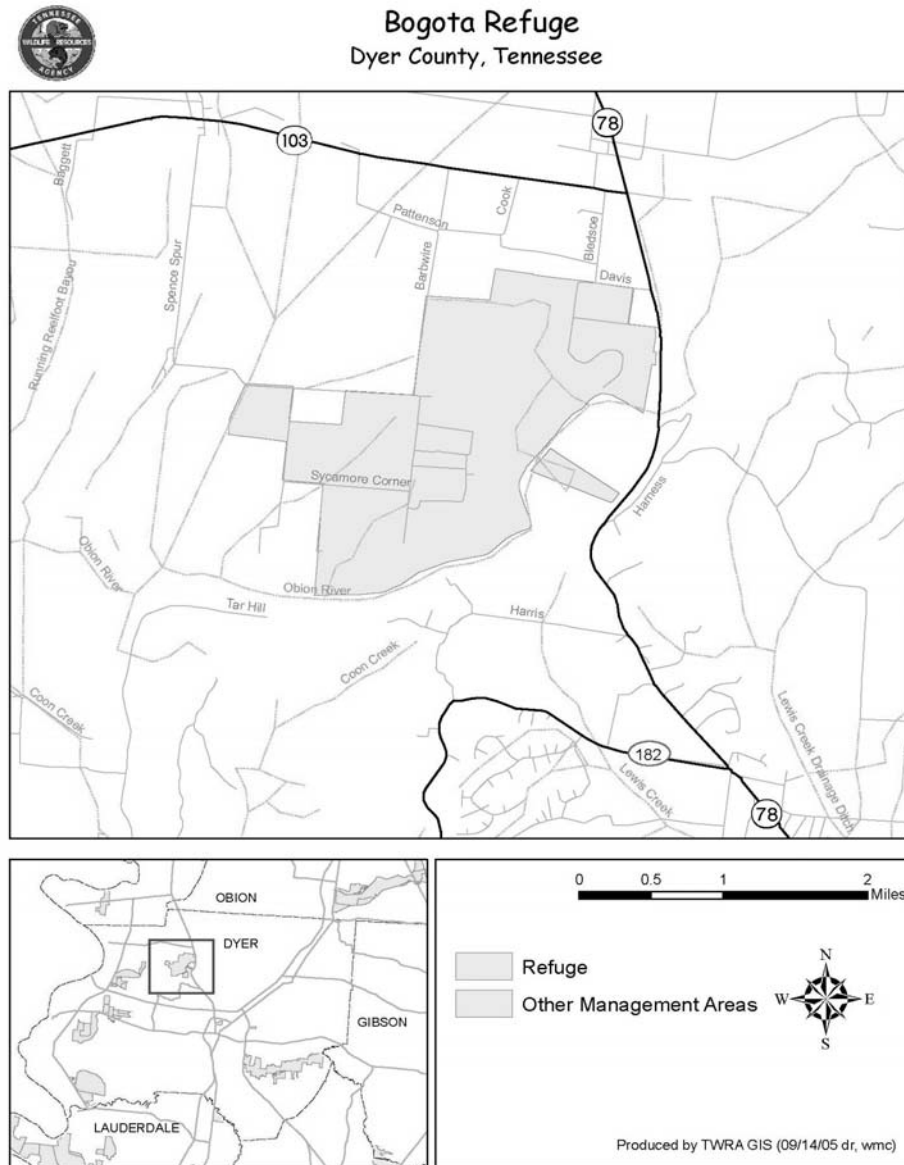


Figure 1. Bogota WMA, Dyer County, TN

The first public hunting season on Bogota Wildlife Management Area occurred in winter 2005. The Bogota WMA offers a unique type of waterfowl hunting experience which allows hunters throughout the state to draw for a reservation of weekend hunting as opposed to other TWRA WMA which have blind drawings for the entire season.

Most TWRA Waterfowl Management areas hold on-site blind drawings for the late season in August but Bogota is regulated by a computer drawing with both Internet and mail applications accepted. Hunting reservations for parties were for each Friday, Saturday, and Sunday of the late waterfowl season (the WMA served as a refuge and was closed to hunting Monday through Thursday). Five pools were open for 10 weekends creating drawing opportunities for 50 parties. Hunting was restricted to the pool drawn and there was no reallocation of pools when hunters did not show up. Pool number 1 is open to public hunting on Friday, Saturday, and Sunday during the late season.

The reservation system also required all applicants—including Sportsman License holders—to pay a \$10 non-refundable administrative fee, to cover the cost of conducting this type of waterfowl drawing (Rule 1660-1-8-.05). The cost of the drawing was approximately \$30,300. The deadline for applications was October 5 and 3,185 applicants applied. Fifty parties totaling 151 hunters were selected for hunts in 2005-06.

About 54 % of applicants were from TWRA Region I, while 24 % were from Region II, 12 % were from Region III and 10% were from Region IV (Figure 2).

**Figure 2**

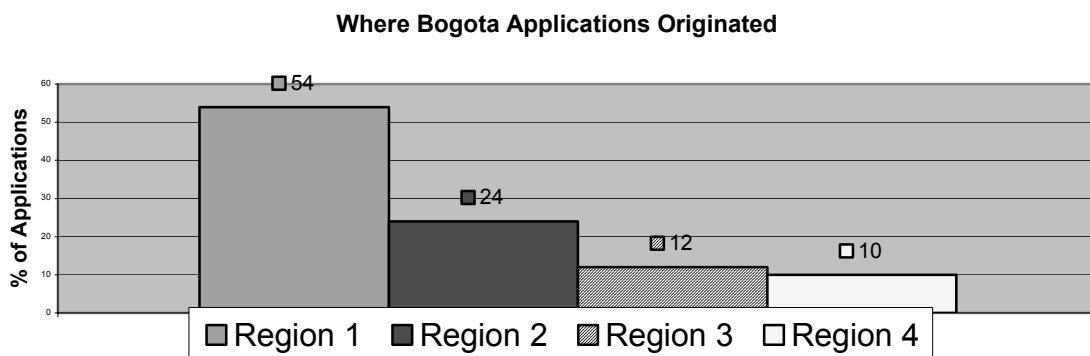
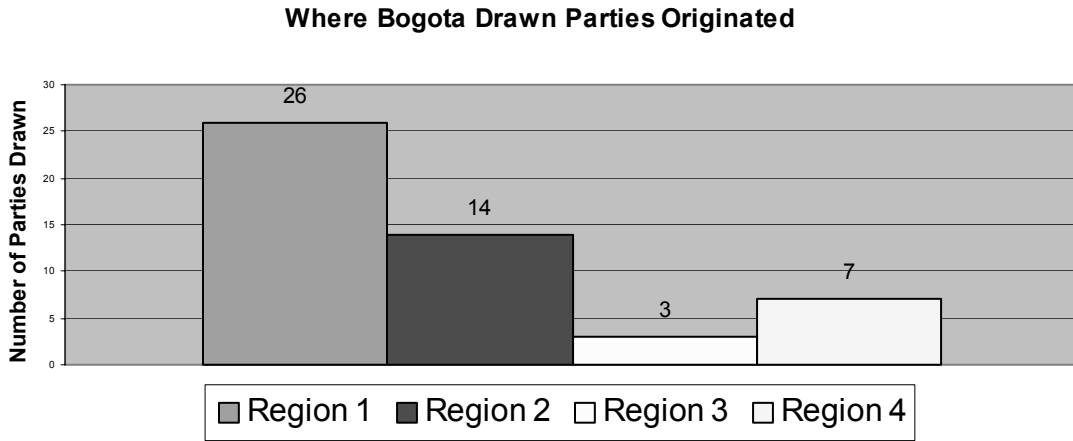




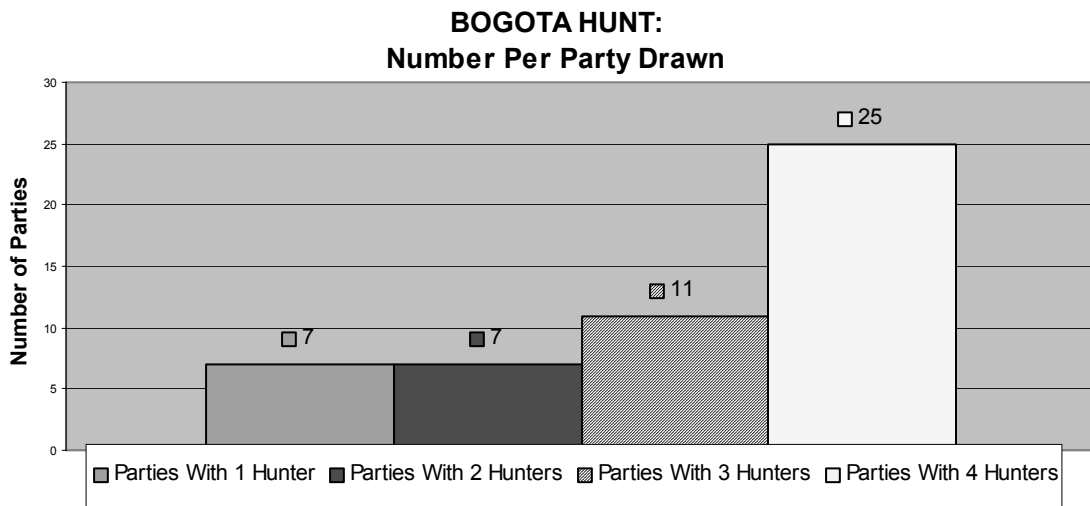
Figure 3 illustrates from which TWRA Region the drawn parties originated.

Figure 3



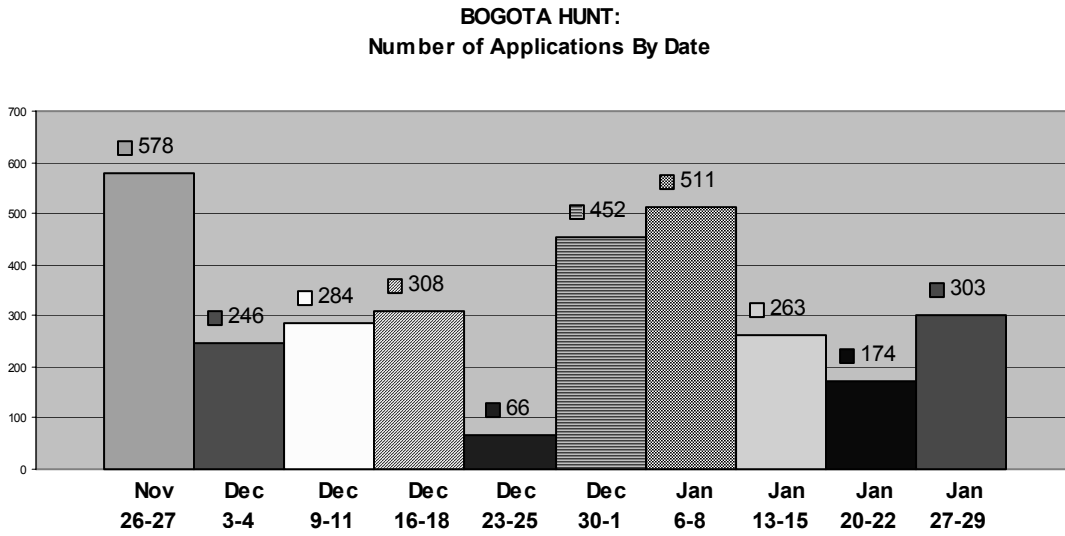
The average number of hunters per party drawn was 3. Parties of four represented about half of the total parties drawn (Figure 4).

Figure 4



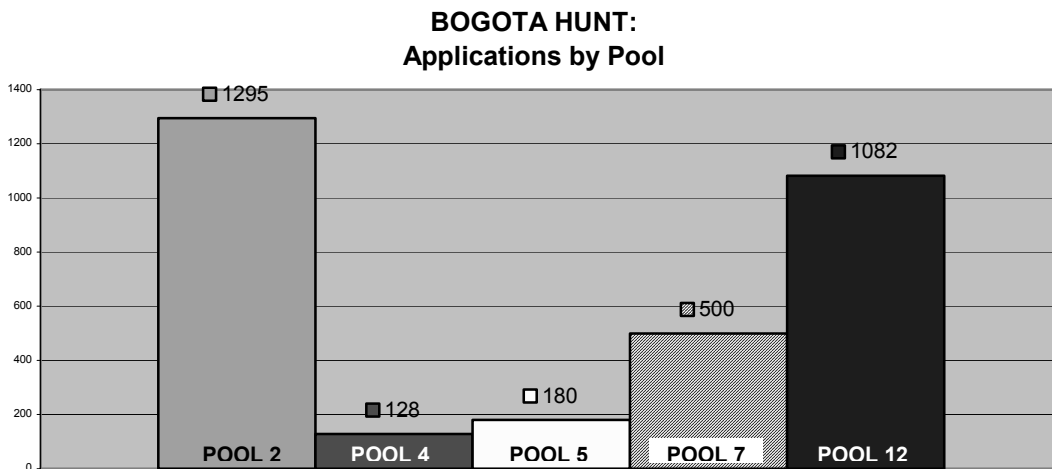
The weekends most preferred among applicants were November 26-27, January 6-8, and December 30-January 1 (Figure 5).

Figure 5



Applicants most often selected Pools 2 and 12, representing 75% of the total (Figure 6).

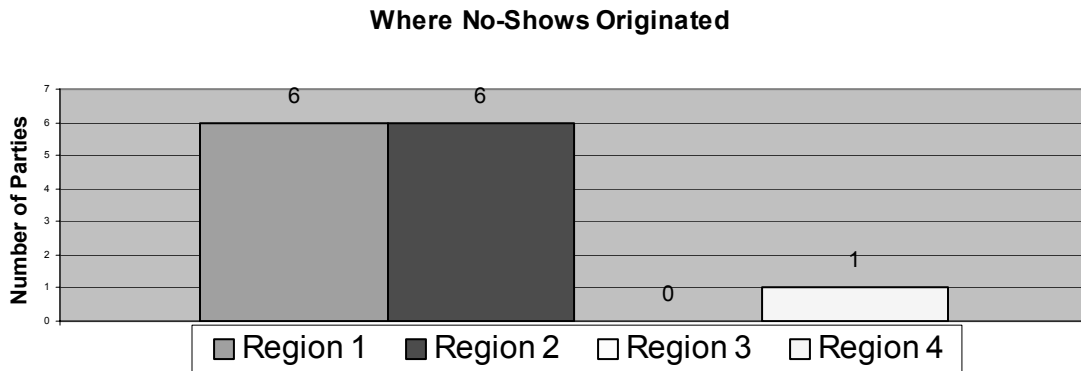
Figure 6



**Results**

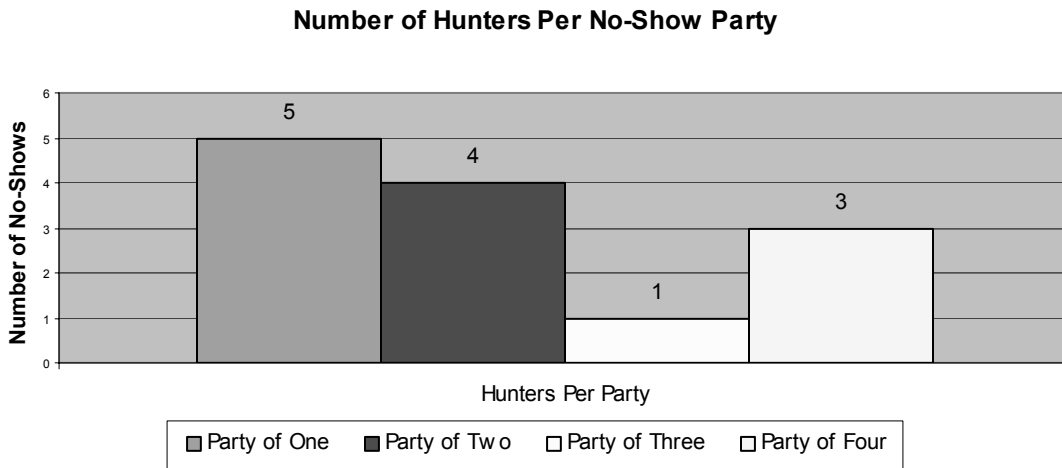
Of the 50 parties drawn, 13 parties did not show up for hunts. The percentage of no-shows by region is shown in Figure 7.

**Figure 7**



The no-show parties consisted of 5 parties of one, 4 parties of 4, 3 parties of 2 and 2 parties of 3 hunters (Figure 8).

**Figure 8**



Many of the no-show parties occurred on opening weekends or late in the season (Table 1). One theory as to why there were many late season no-shows was that late season rains had distributed ducks across region 1 and hunting was probably good in most places.

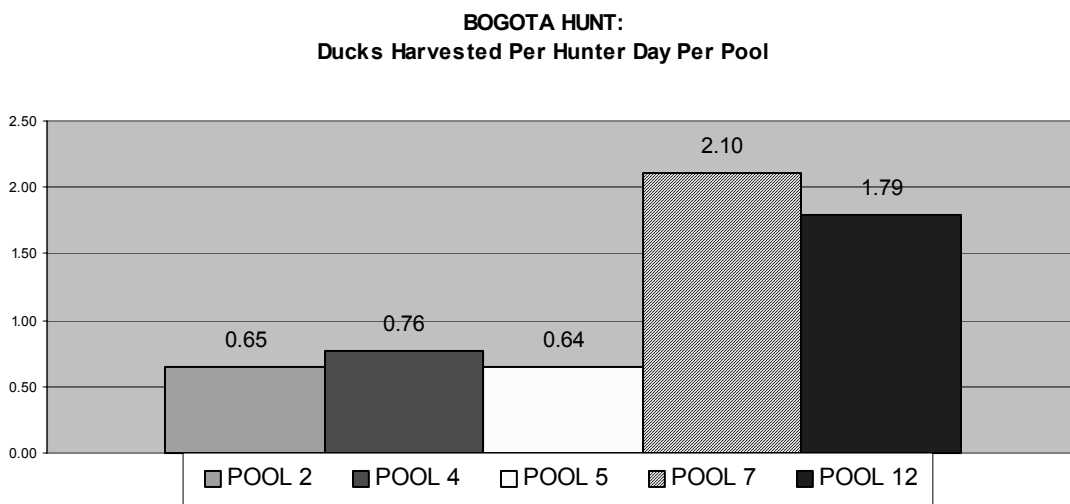
**Table 1.**

	Pool 2	Pool 4	Pool 5	Pool 7	Pool 12
	Hunters	Hunters	Hunters	Hunters	Hunters
Nov 26-27	3	Unk (1)	2	Unk (4)	1-2
Dec 3-4	NS(1)	NS(2)	NS(4)	3	4
Dec 9-11	2	Unk (1)	2	4	3
Dec 16-18	3	3	Unk (3)	3	1 - 2
Dec 23-25	3	1 -2	Unk (4)	NS(1)	Unk (4)
Dec 30-1	2	Unk (3)	3	1	Unk (3)
Jan 6-8	Unk (2)	Unk (2)	Unk (4)	1-2	2
Jan 13-15	NS(4)	Unk (4)	NS(4)	NS(3)	1-2
Jan 20-22	Unk (4)	3	1- 2	NS(1)	NS(4)
Jan 27-29	NS(2)	NS(2)	NS(1)	Unk (4)	NS(1)

Unk = Unknown  
 NS = No-Show

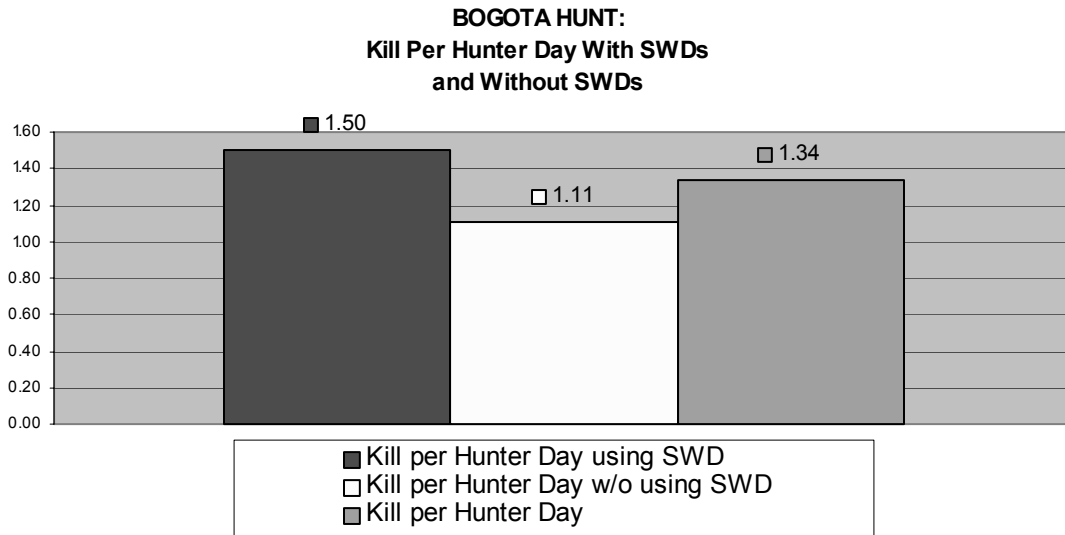
Hunting success varied throughout the season and by pool. Pools 7 and 12 had the highest harvest per hunter at 2.1 and 1.8 ducks per hunter-day (Figure 9).

**Figure 9**



The average harvest per hunter trip to Bogota in 2005-06 was 1.34 ducks per trip (Figure10). This harvest rate is slightly low compared to the average daily bag limit in TN over the last 4 years of 1.5 ducks per hunter day (TWRA Waterfowl Technical Report 2005).

**Figure10**



Harvest per hunter-day using spinning wing decoys was higher than those parties that did not use them. There were no harvested geese reported by hunters or TWRA staff on Bogota this season but not all hunters have turned in a survey card. To date, 75 hunters have returned survey cards.

**Conclusions**

Most of the state experienced very dry conditions through the majority of the late duck season. Below average rainfall and some water leakage problems in several pools resulted in less than optimal water levels during parts of the season. Wells were operated for most of the late season in order to keep several pools flooded. Leaks in some pools (primarily 2, 5, and 7) are attributed to geological features known as “sand-blows” caused by earthquakes in the 1800s.

Several hunter comments reported that hunting was difficult due to a lack of concealing cover for the hunters. These are newly constructed impoundments and concealing vegetation on the levees and pool interior have not had time to grow yet. As these pools age, cover will improve rapidly.

There were many complaints received at Regional offices and in the TWRA Wildlife Division about the \$10 nonrefundable fee. Many Sportsmen's license holders were angry that their license didn't cover the fee. The Agency considered the input received from hunters and evaluated the cost of the drawing process (we took into account the number of applicants, the costs of the new on-line application process, etc.). The Agency decided to remove the fees for Sportsman's license and type 167 permit holders but the \$10 nonrefundable fee will still be in place for all other license types.

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