WATERFOWL TECHNICAL REPORT 1991-92

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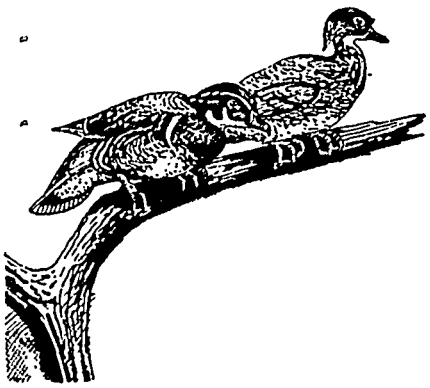

DUCKS

DUCK HUNTING SEASONS IN TENNESSEE

	REGULAR STATEWIDE SEASON			SPECIAL EARLY SEASON			REELFOOT ZONE		
YEAR	SEASON	DAYS	BAG	SEASON	DAYS	BAG	SEASON	DAYS	BAG
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						
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	SEP 19 – SEP 27	9	4 *			
1971/72	NOV 13 – NOV 21 DEC 7 – JAN 16	50	4	SEP 18 – SEP 26	9	4 *			
1972/73	NOV 25 – JAN 13	50	4	SEP 22 – SEP 30	9	4 *			
1973/74	DEC 12 – JAN 20	40	4	SEP 22 – SEP 30	9	4 *			
1974/75	NOV 20 – DEC 1 DEC 11 – JAN 17	50	10 PS	SEP 21 – SEP 29	9	4 *			
1975/76	DEC 3 – JAN 20	45	10 PS	SEP 20 – SEP 28	9	4 *			
1976/77	NOV 27 – NOV 28 DEC 4 – JAN 20	50	10 PS	SEP 18 – SEP 26	9	4 *			
1977/78	NOV 12 – NOV 14 DEC 10 – JAN 20	45	10 PS	SEP 17 – SEP 25	9	4 *			
1978/79	DEC 2 – JAN 20	50	10 PS	SEP 16 – SEP 24	9	4 *			
1979/80	DEC 1 – JAN 19	50	10 PS	SEP 15 – SEP 23	9	4 *	NOV 17 – JAN 5	50	10 PS
1980/81	DEC 2 – JAN 20	50	10 PS	SEP 13 – SEP 21	9	4 *	NOV 22 – JAN 10	50	10 PS
1981/82	DEC 2 – JAN 20	50	10 PS	SEP 19 – SEP 23	5	4 ***	NOV 7 – DEC 26	50	10 PS
1982/83	DEC 2 – JAN 20	50	10 PS	SEP 18 – SEP 22	5	4 ***			
1983/84	DEC 2 – JAN 20	50	10 PS	SEP 17 – SEP 21	5	4 ***	NOV 26 – JAN 14	50	10 PS
1984/85	DEC 2 – JAN 20	50	10 PS	SEP 15 – SEP 19	5	4 ***	NOV 3 – NOV 7 DEC 7 – JAN 20	50	10 PS
1985/86	DEC 5 – JAN 13	40	5 PS	SEP 14 – SEP 18	5	4 ***	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 ***	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 ***	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 **			
1989/90	DEC 9 – JAN 7	30	3	SEP 9 – SEP 13	5	2 **			
1990/91	DEC 8 – JAN 6	30	3	SEP 8 – SEP 12	5	2 **			
1991/92	DEC 7 – JAN 5	30	3	SEP 14 – SEP 18	5	2 **	NOV 16 – NOV 17 DEC 9 – JAN 5	30	3

PS = Point System
* Teal only
** Wood duck only
*** Mixed bag

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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
1961	15,020	12,600	75,600	6.00	47,700	0.63	3.79	1,746,500	5,338,700
1962	8,066	6,600	36,400	5.52	14,900	0.41	2.26	1,129,200	4,246,900
1963	15,261	12,400	75,000	6.05	69,900	0.93	5.64	2,505,500	7,244,800
1964	21,598	18,900	123,900	6.56	96,300	0.78	5.10	3,536,900	8,368,200
1965	16,731	14,400	105,700	7.34	57,400	0.54	3.99	3,311,600	8,326,300
1966	23,909	21,100	159,400	7.55	113,600	0.71	5.38	4,721,200	11,651,700
1967	25,027	21,700	152,600	7.03	98,900	0.65	4.56	4,506,500	12,303,500
1968	21,880	19,400	121,400	6.26	55,900	0.46	2.88	2,383,600	8,073,000
1969	23,104	20,200	136,700	6.77	55,400	0.41	2.74	4,278,200	12,590,800
1970	28,123	25,000	222,100	8.88	158,700	0.71	6.35	6,175,500	15,466,500
1971	33,677	29,300	260,100	8.88	180,800	0.70	6.17	5,207,000	13,679,600
1972	27,367	23,600	191,900	8.13	141,300	0.74	5.99	4,836,300	13,321,100
1973	32,119	27,200	244,900	9.00	199,000	0.81	7.32	4,421,300	11,637,700
1974	34,844	29,500	272,500	9.24	141,700	0.52	4.80	5,058,500	12,553,300
1975	26,613	23,600	221,600	9.39	146,300	0.66	6.20	6,387,700	15,134,000
1976	26,854	22,700	244,000	10.75	102,700	0.42	4.52	5,843,400	14,875,800
1977	29,575	25,600	230,200	8.99	136,000	0.59	5.31	5,794,300	13,205,500
1978	29,213	25,000	283,200	11.33	156,000	0.55	6.24	6,115,100	15,017,300
1979	26,992	24,000	249,900	10.41	183,700	0.74	7.65	6,197,200	14,109,900
1980	24,399	21,000	206,300	9.82	141,700	0.69	6.75	5,712,100	12,972,500
1981	24,063	20,700	220,200	10.64	134,400	0.61	6.49	5,286,200	11,907,900
1982	23,257	20,500	229,600	11.20	135,900	0.59	6.63	4,715,100	11,445,400
1983	22,707	20,300	222,800	10.98	163,200	0.73	8.04	5,580,800	12,468,000
1984	22,805	19,600	203,300	10.37	132,100	0.65	6.74	5,526,100	12,122,700
1985	22,024	19,200	167,800	8.74	103,000	0.61	5.36	3,965,800	9,145,800
1986	21,730	19,000	184,800	9.73	101,500	0.55	5.34	3,982,300	9,159,100
1987	22,194	19,000	174,700	9.19	117,000	0.67	6.16	3,605,100	8,839,700
1988	19,228	16,900	149,700	8.86	89,900	0.60	5.32	1,918,400	4,989,300
1989	21,421	18,500	165,700	8.96	102,400	0.62	5.54	2,597,200	6,217,800
1990	22,173	19,900	204,800	10.29	134,300	0.66	6.75	2,557,600	6,016,100
1991									

Averages:

61–65	15,335	12,980	83,320	6.42	57,240	0.69	4.41	2,445,940	6,704,980
66–70	24,409	21,480	158,440	7.38	96,500	0.61	4.49	4,413,000	12,017,100
71–75	30,924	26,640	238,200	8.94	161,820	0.68	6.07	5,182,160	13,265,140
76–80	27,407	23,660	242,720	10.26	144,020	0.59	6.09	5,932,420	14,036,200
81–85	22,971	20,060	208,740	10.41	133,720	0.64	6.67	5,014,800	11,417,960
86–90	21,349	18,660	175,940	9.43	109,020	0.62	5.84	2,932,120	7,044,400
91–									

* includes harvest for all seasons

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TENNESSEE DUCK HARVEST BY SPECIES

YEAR	LATE SEASON MALLARD	BLACK DUCK	GADWALL	WIDGEON	G.W. TEAL	B.W. TEAL	PINTAIL	WOOD DUCK	RING NECKED	SCAUP	OTHER DUCKS	TOTAL	SEPTEMBER SEASON WOOD DUCK	G.W. TEAL	B.W. TEAL	MALLARD	OTHER DUCKS	TOTAL	ALL SEASONS TOTAL	MALLARD	WOOD DUCK	GW TEAL	BW TEAL
1961–62	32,662	4,666	1,229	1,617	1,272	0	417	1,841	2,256	844	890	47,714	0	0	0	0	0	0	47,714	32,662	1,841	1,272	0
1962–63	7,325	3,580	894	1,188	0	0	170	665	220	73	762	14,877	0	0	0	0	0	0	14,877	7,325	665	0	0
1963–64	30,270	10,766	7,153	2,987	3,772	44	1,666	6,357	1,663	306	2,840	69,866	0	0	0	0	0	0	69,866	30,270	6,357	3,772	44
1976–65	61,537	6,669	1,630	4,551	3,067	92	1,367	6,369	2,592	1,140	5,023	96,297	0	0	0	0	0	0	96,297	61,537	6,369	3,067	92
1965–66	27,727	5,053	3,664	3,136	1,886	0	755	9,366	2,477	901	2,363	57,370	0	0	0	0	0	0	57,370	27,727	9,366	1,886	0
1966–67	61,699	11,007	4,783	3,424	4,171	263	1,102	14,956	3,412	1,470	7,339	113,626	0	0	0	0	0	0	113,626	61,699	14,956	4,171	263
19667–68	50,106	13,999	5,417	8,188	3,197	0	1,459	6,049	3,762	1,479	5,213	96,891	0	0	0	0	0	0	96,891	50,106	6,049	3,197	0
1968–69	31,276	9,066	3,061	2,999	632	0	1,468	2,431	2,994	251	1,647	55,867	0	0	0	0	0	0	55,867	31,276	2,431	632	0
1969–70	31,904	8,436	2,565	2,873	313	0	810	3,714	764	1,145	2,915	55,441	0	0	0	0	0	0	55,441	31,904	3,714	313	0
1970–71	91,643	19,230	6,636	3,871	2,499	96	3,592	10,948	4,136	7,361	7,116	157,148	0	0	1,562	0	0	1,562	158,710	91,643	10,948	2,499	1,658
1971–72	105,359	14,658	7,875	4,646	3,038	0	1,736	21,101	3,663	4,975	6,242	173,315	0	0	7,443	0	0	7,443	180,758	105,359	21,101	3,038	7,443
1972–73	82,067	12,698	4,806	5,461	4,956	731	1,293	20,199	3,062	1,855	1,609	136,757	0	0	2,521	0	0	2,521	141,278	82,067	20,199	4,956	3,252
1973–74	127,149	26,362	5,509	4,538	996	0	7,135	9,945	1,445	3,253	7,662	194,034	0	0	4,957	0	0	4,957	198,991	127,149	9,945	996	4,957
1974–75	85,026	9,986	6,327	3,653	1,624	0	2,026	8,977	9,959	4,195	6,576	138,349	0	0	3,375	0	0	3,375	141,724	85,026	8,977	1,624	3,375
1975–76	83,284	10,653	7,655	4,182	3,123	288	1,199	8,215	8,474	858	5,571	143,482	26	52	2,772	0	(1)	2,849	146,331	93,284	8,241	3,175	3,040
1976–77	57,940	13,785	3,544	5,585	1,846	0	298	8,281	3,837	646	1,967	97,749	0	1,336	3,564	0	1	4,901	102,650	57,940	8,281	3,182	3,564
1977–78	80,080	12,391	5,451	4,149	5,715	1,532	2,287	8,329	6,645	4,004	2,496	133,079	0	0	2,936	0	0	2,936	136,015	80,080	8,329	5,715	4,466
1978–79	69,312	9,116	12,157	5,609	852	744	3,288	15,349	2,606	1,787	9,215	150,037	95	756	5,103	0	(1)	5,953	155,990	69,312	15,444	1,608	5,847
1979–80	113,227	10,658	18,817	11,913	1,160	831	4,221	9,077	2,424	1,210	5,577	179,115	0	252	4,287	0	1	4,540	183,655	113,227	9,077	1,412	5,118
1980–81	88,356	12,973	29,820	4,975	1,691	0	1,334	8,635	3,957	1,525	6,015	139,281	0	594	1,781	0	0	2,375	141,656	88,356	8,635	2,285	1,781
1981–82	86,688	11,985	9,036	5,880	1,339	0	763	9,875	3,029	2,578	3,597	114,770	17,979	0	935	703	1	19,618	134,388	67,391	27,854	1,339	935
1982–83	80,482	10,910	3,053	3,606	2,942	0	63	12,722	1,451	1,454	4,557	101,240	20,357	1,996	10,660	255	1,402	34,672	135,912	60,737	33,079	4,940	10,660
1983–84	86,330	12,627	10,388	2,360	3,770	252	126	6,031	503	3,294	5,205	130,906	19,043	0	11,906	1,358	2	32,309	163,215	87,686	25,074	3,770	12,156
1984–85	45,917	10,014	4,855	3,001	969	601	2,339	15,046	2,604	7,569	4,376	97,513	22,675	1,400	9,017	965	512	34,569	132,102	46,902	37,723	2,369	9,618
1985–86	45,327	3,586	4,622	3,706	1,498	0	396	4,828	3,010	1,568	2,944	71,509	23,763	199	5,630	1,661	251	31,524	103,033	46,988	28,611	1,697	5,630
1986–87	53,954	5,402	4,945	995	1,496	239	718	5,004	2,520	239	2,820	78,332	18,327	0	3,590	746	553	23,216	101,548	54,700	23,331	1,496	3,829
1987–88	58,954	6,090	9,260	2,796	1,146	0	908	8,159	4,817	944	5,026	98,100	14,727	0	2,267	1,641	250	18,885	116,985	60,595	22,886	1,146	2,267
1988–89	48,251	5,839	2,548	1,745	3,184	0	0	9,415	3,995	3,258	2,773	81,008	8,380	19	0	283	118	8,800	89,808	48,534	17,795	3,203	0
1989–90	55,815	9,132	6,452	2,922	4,244	0	409	5,162	4,919	851	2,968	92,874	9,460	0	0	0	82	9,542	102,416	55,815	14,622	4,244	0
1990–91	73,925	3,004	6,456	2,424	2,650	463	1,691	25,636	5,040	1,644	3,527	126,480	4,382	0	0	0	0	4,382	130,862	73,925	30,018	2,650	463
1991–92	75,764	6,110	9,929	2,444	2,444	–	–	12,373	4,125	1,833	3,207	118,229	21,079					21,079	139,308	75,764	33,452	2,444	–
Averages:																							
61–65	31,908	6,595	2,918	2,696	1,999	27	879	5,326	1,846	653	2,376	57,225	0	0	0	0	0	0	57,225	31,908	5,326	1,999	27
66–70	53,326	12,348	4,496	4,271	2,162	72	1,690	7,620	3,018	2,345	4,846	96,195	0	0	312	0	0	312	96,507	53,326	7,620	2,162	384
71–75	96,577	14,875	6,434	4,496	2,747	200	2,678	13,687	5,329	3,027	5,536	157,587	5	10	4,214	0	(0)	4,229	161,816	96,577	13,693	2,758	4,413
76–80	81,783	11,785	13,958	6,446	2,253	621	2,266	9,934	3,894	1,834	5,058	139,852	19	588	3,534	0	0	4,141	143,993	81,783	9,953	2,840	4,156
81–85	60,949	9,825	6,391	3,715	2,104	211	736	9,701	2,119	3,301	4,136	103,188	20,767	719	7,630	992	434	30,542	133,730	61,941	30,466	2,823	7,840
86–90	58,180	5,893	5,932	2,176	2,544	144	745	10,675	4,258	1,367	3,423	95,359	11,055	4	1,171	534	201	12,965	108,324	58,714	21,730	2,546	1,316

From U.S. Fish & Wildlife Service Survey Data
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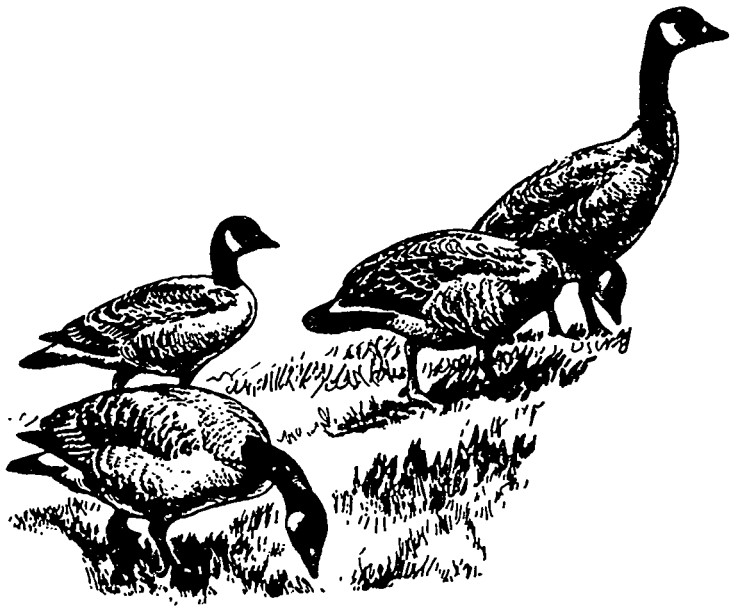
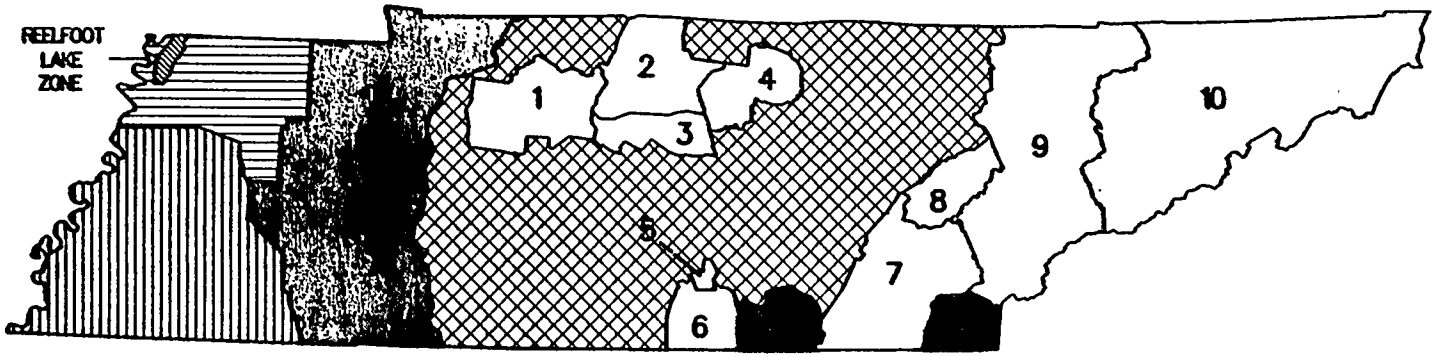
CANADA GOOSE



CANADA GOOSE HUNTING ZONES
1990-91 SEASON



NORTHWEST MVP ZONE (16,500)
12/8/90 - 2/15/91

REELFOOT LAKE ZONE (11,500)
12/8/90 - 2/15/91

SOUTHWEST MVP ZONE (1,500)
12/8/90 - 1/6/91

KY. AND BARKLEY LAKE ZONE
12/13/90 - 1/31/91

CENTRAL ZONE
12/8/90 - 1/31/91

CLOSED AREAS

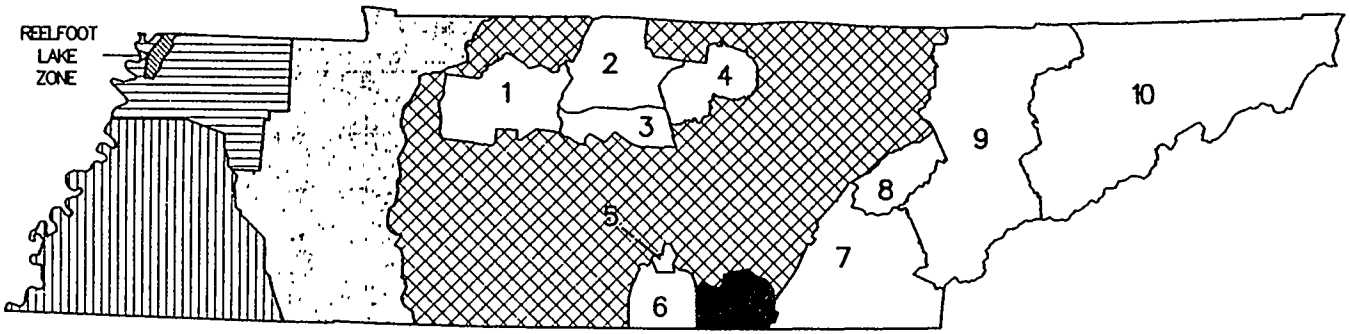
HARVEST QUOTA UNITS
12/8/90 - 1/31/91

1. CHEATHAM (300)
•2. OLD HICKORY (1,200)
•3. PERCY PRIEST (200)
4. CORDELL HULL (300)
5. WOODS (200)
•6. TIMS FORD (400)
7. CHICKAMAUGA (400)
8. WATTS BAR (300)
9. MID-EAST TN. (700)
10. UPPER-EAST TN. (700)

• OPENS 11/23/90 ON OLD HICKORY UNIT II, PERCY PRIEST, AND TIMS FORD

( ) HARVEST QUOTAS IN PARENTHESIS

CANADA GOOSE HUNTING ZONES
1991-92 SEASON



NORTHWEST MVP ZONE (22,500)
12/7/91 - 2/15/92

REELFOOT LAKE ZONE (15,500)
12/7/91 - 2/15/92

SOUTHWEST MVP ZONE (2,500)
12/7/91 - 1/30/92

KY. AND BARKLEY LAKE ZONE
12/13/91 - 1/31/92

CENTRAL ZONE
12/7/91 - 1/31/92

CLOSED AREAS

HARVEST QUOTA UNITS
12/7/91 - 1/31/92

1. CHEATHAM (300)
•2. OLD HICKORY (1,200)
•3. PERCY PRIEST (200)
4. CORDELL HULL (300)
•5. WOODS (200)
•6. TIMS FORD (400)
7. CHICKAMAUGA (500)
8. WATTS BAR (500)
9. MID-EAST TN. (900)
10. UPPER-EAST TN. (900)

• PERCY PRIEST UNIT-II, OLD HICKORY-UNIT II, TIMS FORD, AND WOODS OPENS ON NOVEMBER 23, 1991

( ) HARVEST QUOTAS IN PARENTHESIS

WEST TENNESSEE MVP CANADA GOOSE SEASONS - SUMMARY 1977/78 THROUGH 1991/92

HUNT UNIT	HUNT DATES	TOTAL DAYS	ACTUAL DAYS	EMERGENCY CLOSURE DATE	BAG LIMIT	TN-MVP HARVEST GOAL	REELFOOT ZONE QUOTA	ESTIMATED KILL (Reelfoot)	MONITORING SYSTEM
NORTHWEST MVP									
1977/78	11/12 - 1/20	70	70		2/DAY			NO ESTIMATE	NONE
1978/79	11/12 - 1/20	70	70		2/DAY			NO ESTIMATE	NONE
1979/80	11/12 - 1/20	70	70		2/DAY			645	NONE
1980/81	11/12 - 1/20	70	70		2/DAY			1066	NONE
1981/82	12/02 - 1/20	50	50		2/DAY			1583	NONE
1982/83	12/12 - 1/20	40	40		2/DAY			NO ESTIMATE	NONE
1983/84	12/23 - 1/31	40	17	1/08	2/DAY	1500		1150	12 PIT REPORT
1984/85	1/06 - 1/31	25	22	1/28	1/DAY	1500	1200	1381	PLASTIC TAGS
1985/86	12/23 - 1/31	40	32	1/23	1/DAY	1500	1200	1308	PEEL OFF TAGS
1986/87	12/13 - 1/31	50	50		2/DAY	6500	4500	1026	8 PIT REPORT
1987/88	12/13 - 1/31	50	50		2/DAY	7200	5000	750	8 PIT REPORT
1988/89	12/13 - 1/31	50	50		2/DAY	8900	6200	1695	8 PIT REPORT
1989/90	12/08 - 2/15	70	70		3/DAY	12400	8600	3275	8 PIT REPORT
1990/91	12/08 - 2/15	70	70		3/DAY	16500	11500	917	7 PIT REPORT
1991/92	12/07 - 2/14	70	70		3/DAY	22500	15500	1003	7 PIT REPORT

NORTHWEST MVP ZONE - Applies to the following counties or portions of counties: Dyer (north of Hwys 20 & 104), Gibson (north of Hwy 104; east of Hwy 45W), Lake, Obion and Weakley.
Carroll County removed from MVP Zone in 1985. (WARR\123R3\GOOSE:MVP77-91:MVP#1)

WEST TENNESSEE MVP CANADA GOOSE SEASONS - SUMMARY 1977/78 THROUGH 1991/92

HUNT UNIT	HUNT DATES	TOTAL DAYS	ACTUAL DAYS	EMERGENCY CLOSURE DATE	BAG LIMIT	TN-MVP HARVEST GOAL	REELFOOT ZONE QUOTA	ESTIMATED KILL (Reelfoot)	MONITORING SYSTEM
SOUTHWEST MVP									
1977/78	11/12 - 1/20	70	70		2/DAY			NO ESTIMATE	NONE
1978/79	11/12 - 1/20	70	70		2/DAY			NO ESTIMATE	NONE
1979/80	CLOSED.							NO ESTIMATE	CLOSED
1980/81	CLOSED							NO ESTIMATE	CLOSED
1981/82	CLOSED							NO ESTIMATE	CLOSED
1982/83	CLOSED							NO ESTIMATE	CLOSED
1983/84	1/14 - 1/28	15	15		1/DAY	500		NO ESTIMATE	NONE
1984/85	1/06 - 1/20	15	15		1/DAY	500		NO ESTIMATE	NONE
1985/86	1/17 - 1/31	15	15		1/DAY	500		NO ESTIMATE	NONE
1986/87	1/04 - 1/18	15	15		1/DAY	500		NO ESTIMATE	NONE
1987/88	1/03 - 1/17	15	15		1/DAY	500		NO ESTIMATE	NONE
1988/89	12/25 - 1/08	15	15		1/DAY	500		NO ESTIMATE	NONE
1989/90	12/09 - 1/07	30	30		2/DAY	700		NO ESTIMATE	NONE
1990/91	12/08 - 1/06	30	30		2/DAY	1500		NO ESTIMATE	NONE
1991/92	12/07 - 1/30	55	55		2/DAY	2500		NO ESTIMATE	NONE

SOUTHWEST MVP ZONE - Applies to that portion of the state bounded on the north by Hwys 20 and 104 and on the east by Hwys 45W and 45.

(WARR\123R3\GOOSE:MVP77-91:MVP#2)

RESIDENT CANADA GOOSE SEASONS - SUMMARY 1979/80 THROUGH 1991/92

HUNT UNIT	HUNT DATES	TOTAL DAYS	ACTUAL DAYS	EMERGENCY CLOSURE DATE	BAG LIMIT	HUNTER QUOTA	HARVEST QUOTA	PERMITS ISSUED	ESTIMATED KILL	MONITORING SYSTEM
CHEATHAM										
1983/84	1/07 - 1/20	9	9		1/DAY				60	SURVEY
1984/85	1/06 - 1/20	8	8		1/DAY		60	267	20	TAG & SURVEY
1985/86	1/04 - 1/20	14	14		1/DAY		60	209	58	TAG & CK OUT
1986/87	12/10 - 1/20	42	42		1/DAY		100	320	99	TAG & CK OUT
1987/88	12/09 - 1/17	40	40		1/DAY		200	319	117	TAG & CK OUT
1988/89	12/10 - 1/31	53	53		2/DAY		300	342	153	TAG & CK OUT
1989/90	12/09 - 1/31	54	54		2/DAY		300	483	295	TAG & CK OUT
1990/91	12/08 - 1/31	55	55		2/DAY		300	424	130	TAG & CK OUT
1991/92	11/23 - 1/31	70	70		2/DAY		300	461	153	TAG & CK OUT
CHICKAMAUGA										
1984/85	1/06 - 1/20	15	15		1/SEASON	585		572	51	TAG & REPORT
1985/86	1/04 - 1/20	17	17		2/SEASON	1000		923	85	TAG & REPORT
1986/87	1/01 - 1/20	20	20		1/DAY				NO ESTIMATE	
1987/88	12/26 - 1/17	23	23		2/SEASON	1000		1000	136	TAG & REPORT
1988/89	12/10 - 1/31	53	38	1/15	2/DAY		220	743	263	TAG & CK OUT
1989/90	12/09 - 1/31	54	36	1/12	2/DAY		250	867	280	TAG & CK OUT
1990/91	12/08 - 1/31	55	55		2/DAY		400	849	225	TAG & CK OUT
1991/92	12/07 - 1/31	56	56		2/DAY		500	799	157	TAG & CK OUT

(WARR:\123R3\GOOSE\RGO79-91:RGO#1)

RESIDENT CANADA GOOSE SEASONS - SUMMARY 1979/80 THROUGH 1991/92

HUNT UNIT	HUNT DATES	TOTAL DAYS	ACTUAL DAYS	EMERGENCY CLOSURE DATE	BAG LIMIT	HUNTER QUOTA	HARVEST QUOTA	PERMITS ISSUED	ESTIMATED KILL	MONITORING SYSTEM
CORDELL HULL										
1981/82	1/11 - 1/20	10	10		1/DAY				2	SURVEY
1982/83	1/06 - 1/20	15	15		1/DAY				60	SURVEY
1983/84	1/06 - 1/20	15	15		1/DAY				30	SURVEY
1984/85	1/06 - 1/20	15	15		1/DAY		660a	132	25	TAG & SURVEY
1985/86	1/04 - 1/20	17	17		2/SEASON	300		256	130	TAG & SURVEY
1986/87	12/10 - 1/20	42	42		1/DAY		300	230	113	TAG & CK OUT
1987/88	12/09 - 1/17	40	40		1/DAY		300	217	175	TAG & CK OUT
1988/89	12/10 - 1/31	53	53		2/DAY		300	198	168	TAG & CK OUT
1989/90	12/09 - 1/31	54	54		2/DAY		300	201	269	TAG & CK OUT
1990/91	12/08 - 1/31	55	55		2/DAY		300	186	86	TAG & CK OUT
1991/92	12/07 - 1/31	56	56		2/DAY		300	199	104	TAG & CK OUT
MIDDLE EAST TN										
(Melton Hill)										
1985/86	1/04 - 1/20	17	17		2/SEASON	150		150	117	TAG & REPORT
1986/87	1/01 - 1/20	20	20		1/SEASON	300		300	101	TAG & SURVEY
1987/88	12/26 - 1/17	23	23		1/SEASON	300		300	93	TAG & REPORT
(Tellico Lake)										
1987/88	12/26 - 1/17	23	23		1/SEASON	100		100	19	TAG & REPORT
(Middle East Tn)										
1988/89	12/10 - 1/08	30	30		1/DAY		200	772	211	TAG & CK OUT
1989/90	12/09 - 1/31	54	43	1/19	2/DAY		400	978	489	TAG & CK OUT
1990/91	12/08 - 1/31	55	55		2/DAY		700	1111	691	TAG & CK OUT
1991/92	12/07 - 1/31	56	56		2/DAY		900	888	412	TAG & CK OUT

a - During 1984-85 season, Cordell Hull and Old Hickory were monitored under same harvest quota.

(WAPR:\123R3\GOOSE\RG079-91:RGO#2)

RESIDENT CANADA GOOSE SEASONS - SUMMARY 1979/80 THROUGH 1991/92

HUNT UNIT	HUNT DATES	TOTAL DAYS	ACTUAL DAYS	EMERGENCY CLOSURE DATE	BAG LIMIT	HUNTER QUOTA	HARVEST QUOTA	PERMITS ISSUED	ESTIMATED KILL	MONITORING SYSTEM
OLD HICKORY										
1979/80									411	SURVEY
1980/81	1/19 - 1/20	2	2		1/DAY				250	SURVEY
1981/82	1/11 - 1/20	10	10		1/DAY				1178	SURVEY
1982/83	1/06 - 1/20	15	15		1/DAY				866	SURVEY
1983/84	1/06 - 1/20	15	15		1/DAY				1400	SURVEY
1984/85	1/06 - 1/20	15	15		1/DAY		660a	884	318	TAG & SURVEY
1985/86	1/04 - 1/20	17	17		1/DAY		800	923	597	TAG & CK OUT
1986/87	12/10 - 1/20	42	42		1/DAY		800	1206	605	TAG & CK OUT
1987/88	12/09 - 1/17	40	40		1/DAY		800	1173	550	TAG & CK OUT
1988/89	12/10 - 1/31	53	53		2/DAY		1000	1234	829	TAG & CK OUT
1989/90	12/09 - 1/31	54	43	1/19	2/DAY		1000	1397	1032	TAG & CK OUT
1990/91	12/08 - 1/31	55	55		2/DAY		1200	1377	581	TAG & CK OUT
1991/92	12/07 - 1/31	56	56		2/DAY		1200	1174	517	TAG & CK OUT
PERCY PRIEST										
1984/85	1/06 - 1/20	15	15		1/SEASON	65		66	8	TAG & REPORT
1985/86	1/04 - 1/20	17	17		2/SEASON	200		200	64	TAG & REPORT
1986/87	12/10 - 1/20	42	42		1/DAY		75	90	113	TAG & CK OUT
1987/88	12/09 - 1/17	40	40		1/DAY		200	212	175	TAG & CK OUT
1988/89	12/10 - 1/31	53	53		2/DAY		200	221	110	TAG & CK OUT
1989/90	12/09 - 1/31	54	54		2/DAY		200	245	88	TAG & CK OUT
1990/91	12/08 - 1/31	55	55		2/DAY		200	202	65	TAG & CK OUT
1991/92	11/23 - 1/31	70	70		2/DAY		200	236	48	TAG & CK OUT

a - During 1984-85 season, Cordell Hull and Old Hickory were monitored under same harvest quota.

(WARR:\123R3\GOOSE\RG079-91:RGO#3)

RESIDENT CANADA GOOSE SEASONS - SUMMARY 1979/80 THROUGH 1991/92

HUNT UNIT	HUNT DATES	TOTAL DAYS	ACTUAL DAYS	EMERGENCY CLOSURE DATE	BAG LIMIT	HUNTER QUOTA	HARVEST QUOTA	PERMITS ISSUED	ESTIMATED KILL	MONITORING SYSTEM
TIMS FORD										
1985/86	1/04 - 1/20	17	17		2/SEASON	100		100	88	TAG & REPORT
1986/87	12/10 - 1/20	42	42		1/DAY		75	103	113	TAG & CK OUT
1987/88	12/09 - 1/17	40	40		1/DAY		150	182	137	TAG & CK OUT
1988/89	12/10 - 1/31	53	53		2/DAY		200	174	172	TAG & CK OUT
1989/90	12/09 - 1/31	54	54		2/DAY		300	274	272	TAG & CK OUT
1990/91	11/23 - 1/31	70	70		2/DAY		200	242	167	TAG & CK OUT
1991/92	11/23 - 1/31	70	70		2/DAY		400	225	129	TAG & CK OUT
UPPER EAST TN										
(Upper Holston)										
1985/86	1/04 - 1/20	17	17		2/SEASON	75		75	22	TAG & REPORT
1986/87	1/01 - 1/20	20	20		1/SEASON	300		300	60	TAG & SURVEY
1987/88	12/26 - 1/17	23	23		1/SEASON	450		450	106	TAG & REPORT
(Upper East Tn)										
1988/89	12/10 - 1/08	30	25	1/02	2/DAY		200	1037	262	TAG & CK OUT
1989/90	12/09 - 1/31	54	50	1/26	2/DAY		400	1500	451	TAG & CK OUT
1990/91	12/08 - 1/31	55	55		2/DAY		700	1847	633	TAG & CK OUT
1991/92	12/07 - 1/31	56	56		2/DAY		900	1618	402	TAG & CK OUT

(WARR:\123R3\GOOSE\RG079-91:RGO#4)

RESIDENT CANADA GOOSE SEASONS - SUMMARY 1979/80 THROUGH 1991/92

HUNT UNIT	HUNT DATES	TOTAL DAYS	ACTUAL DAYS	EMERGENCY CLOSURE DATE	BAG LIMIT	HUNTER QUOTA	HARVEST QUOTA	PERMITS ISSUED	ESTIMATED KILL	MONITORING SYSTEM
WATTS BAR										
1984/85	1/06 - 1/20	15	15		1/SEASON	300		301	37	TAG & REPORT
1985/86	1/04 - 1/20	17	17		2/SEASON	750		750	197	TAG & REPORT
1986/87	1/01 - 1/20	20	20		2/SEASON	750		751	165	TAG & SURVEY
1987/88	12/26 - 1/17	23	23		2/SEASON	750		750	129	TAG & REPORT
1988/89	12/10 - 1/31	53	36	1/13	2/DAY		150	663	156	TAG & CK OUT
1989/90	12/09 - 1/31	54	43	1/19	2/DAY		250	784	304	TAG & CK OUT
1990/91	12/08 - 1/31	55	55		2/DAY		300	679	188	TAG & CK OUT
1991/92	12/07 - 1/31	56	56		2/DAY		500	748	137	TAG & CK OUT
WOODS RESERVOIR										
(A.E.D.C.)										
1983/84	1/07 - 1/20	9	9		1/DAY				12	SURVEY
1984/85	1/06 - 1/20	8	8		1/DAY		40	172	17	SURVEY
1985/86	1/04 - 1/20	14	14		1/DAY		50	198	66	TAG & CK OUT
(Woods)										
1986/87	12/10 - 1/20	42	42		1/DAY		75	228	43	TAG & CK OUT
1987/88	12/09 - 1/17	40	40		1/DAY		75	152	70	TAG & CK OUT
1988/89	12/10 - 1/31	53	53		2/DAY		100	342	153	TAG & CK OUT
1989/90	1/07 - 1/20		26	1/02	2/DAY		300	158	295	TAG & CK OUT
1990/91	12/08 - 1/31	55	55		2/DAY		200	158	70	TAG & CK OUT
1991/92	11/23 - 1/31	70	70		2/DAY		200	193	76	TAG & CK OUT

(WARR:\123R3\GOOSE\RG079-91:RGO#5)

RESIDENT CANADA GOOSE SEASONS - SUMMARY 1979/80 THROUGH 1991/92
(Federal frameworks, quotas and monitored harvest)

HUNTING SEASON	FRAMEWORK DATES	MAX. DAYS	OPEN DATE	CLOSING DATE	BAG LIMIT	HUNTER QUOTA	HARVEST QUOTA	PERMITS ISSUED	MONITORED KILL	
1979/80	10/01 - 1/20	70	11/12	1/20	1/DAY				411	SURVEY
1980/81	10/01 - 1/20	70	11/12	1/20	1/DAY				250	SURVEY
1981/82	10/01 - 1/20	70	11/12	1/20	1/DAY				1180	SURVEY
1982/83	10/01 - 1/20	70	11/12	1/20	1/DAY				926	SURVEY
1983/84	10/01 - 1/20	70	11/12	1/20	1/DAY				1472	SURVEY
1984/85	10/01 - 1/20	70	11/12	1/20	1/DAY	950	760	2394	476	TAG, SURV or RPT
1985/86	10/01 - 1/20	70	11/12	1/20	1/DAY	2575	910	3784	1414	TAG, CK or RPT
1986/87	10/01 - 1/20	70	11/12	1/20	1/DAY	1350	1425	3528	1412	TAG, CK or SURV
1987/88	10/01 - 1/17	70	11/09	1/17	1/DAY	2600	1725	4855	1707	TAG, CK or RPT
1988/89	10/01 - 1/31	70	11/23	1/31	2/DAY		2870	5726	2415	TAG & CK OUT
1989/90	10/01 - 1/31	70	11/23	1/31	2/DAY		3700	6887	3775	TAG & CK OUT
1989/90	10/01 - 1/31	70	11/23	1/31	2/DAY		4500	7075	2836	TAG & CK OUT
1991/92	10/01 - 1/31	70	11/23	1/31	2/DAY		5400	6541	2135	TAG & CK OUT

(WARP:\123R3\GOOSE\RGO79 91:RGO#6)

1991 CANADA GOOSE NECK-COLLAR SUMMARY, TENNESSEE

LOCATION		DATE	LAT-LONG	AGE-SEX AHY-M	AHY-F	L-M	L-F	TOTAL	COLLAR CODES	LEG-BAND
REGION II										
CHEATHAM										
	Cheatham Dam	06-18	3619-08713	8		4		12	C01C/C12C	828-76601/76612
	Harpeth Riv	06-18	3617-08708	10		16		26	C13C/C38C	828-76613/76638
	Batson Farm	06-18	3616-08704	12				12	C39C/C50C	828-76639/76650
	Cheatham Dam	06-18	3619-08713		7		8	15	C51C/C65C	828-76651/76665
	Harpeth Riv	06-18	3617-08708		8		20	28	C66C/C93C	828-76666/76693
	Batson Farm	06-18	3616-08704		7			7	C94C/C00C	828-76694/76600
	Total			30	22	20	28	100		
CORDELL HULL										
	Salt Lick Cr	06-19	3617-08546	20				20	C01H/C20H	828-03701/03720
	Defeated Cr	06-19	3617-08554	13		2		15	C21H/C35H	828-03721/03735
	Salt Lick Cr	06-19	3617-08546		9		5	14	C51H/C64H	828-03751/03764
	Defeated Cr	06-19	3617-08554		12			12	C65H/C76H	828-03765/03776
	Total			33	21	2	5	61		
NORMANDY										
	Barton Spr	06/27	3527-08613	50	50			100	E01H/E00H	828-77101/77200
OLD HICKORY										
	Cedar Creek	06-20	3616-08630	50	50			100	C01E/C00E	828-75501/75550
	Cedar Creek	06-20	3616-08630	18				18	C01J/C18J	828-03901/03918
	Comer's Farm	06-20	3617-08631	32				32	C19J/C50J	828-03919/03950
	Cedar Creek	06-20	3616-08630		15			15	C51J/C65J	828-03919/03950
	Comer's Farm	06-20	3617-08631		35			35	C66J/C00J	828-03966/04000
	Comer's Farm	06-20	3617-08631	7				7	C44K/C50K	828-03844/03850
	Comer's Farm	06-20	3617-08631		7			7	C94K/C00K	828-03894/03900
	Total			107	107	0	0	214		

Neck-collars are white with black codes.

(WARR\123R3\GOOSE\COLLAR91:COLLAR1)

1991 CANADA GOOSE NECK-COLLAR SUMMARY, TENNESSEE

LOCATION		DATE	LAT-LONG	AGE-SEX AHY-M	AHY-F	L-M	L-F	TOTAL	COLLAR CODES	LEG-BAND
REGION II										
PERCY PRIEST										
	Four Corners	06-17	3603-08634	14				14	C01K/C14K	828-03801/03814
	Poole Knobs	06-17	3603-08631	20		5		25	C15K/C39K	828-03815/03839
	Fall Creek	06-17	3601-08626	4				4	C40K/C43K	828-03840/03843
	Four Corners	06-17	3603-08634		16			16	C51K/C66K	828-03851/03866
	Poole Knobs	06-17	3603-08631		16		7	23	C67K/C89K	828-03867/03889
	Fall Creek	06-17	3601-08626		4			4	C90K/C93K	828-03890/03893
	Total			38	36	5	7	86		
TIMS FORD										
	Win. City Pk	06-21	3515-08606	42	34	12	12	100	C01F/C00F	818-41701/41800
WOODS										
	Morris Ferry	06-24	3518-08602	19		3		22	C01A/C22A	818-41801/41822
	NCO Club	06-24	3519-08604	26		2		28	C23A/C50A	818-41823/41850
	Morris Ferry	06-24	3518-08602		24		5	29	C51A/C79A	818-41851/41879
	NCO Club	06-24	3519-08604		15		6	21	C80A/C00A	818-41880/41900
	Total			45	39	5	11	100		
REGION II TOTAL				345	309	44	63	761		

Neck-collars are white with black codes.

(WARR\123R3\GOOSE\COLLAR91:COLLAR2)

1991 CANADA GOOSE NECK-COLLAR SUMMARY, TENNESSEE

LOCATION		DATE	LAT-LONG	AGE-SEX AHY-M	AHY-F	L-M	L-F	TOTAL	COLLAR CODES	LEG-BAND
REGION III										
CHICKAMAUGA										
	Dayton Park	06-27	3529-08500	13		2		15	C36H/C50H	828-03736/03750
	Dayton Park	06-27	3529-08500		19		5	24	C77H/C00H	828-03777/03800
	Dayton Park	06-27	3529-08500	50	47		3	100	E01E/E00E	828-76001/76100
	Total			63	66	2	8	139		
WATTS BAR										
	Kingston Rfg	06/28	3554-08430	49	49	1	1	100	E01F/E00F	828-76101/76200
OAK RIDGE (Regions III & IV)										
	Clark Center	06/25	3557-08414			3		3	C48R/C50R	828-75848/75850
	Clark Center	06/25	3557-08414	15	3			18	E01A/E18A	828-75901/75918
	Clark Center	06/25	3557-08414	19		8		27	E58A/E84A	828-75958/75984
	Total			34	3	11	0	48		
	O.R. Marina	06-25	3601-08411	34	41	15	10	100	C01M/C00M	828-75601/75700
	O.R. Marina	06-25	3601-08411	18				18	C01P/C18P	828-75701/75718
	O.R. Marina	06-25	3601-08411	1	14			15	C51P/C65P	828-75751/75765
	Total			53	55	15	10	133		
	Gibbs Ferry	06-25	3604-08410	8				8	C01R/C08R	828-75801/75808
	Gibbs Ferry	06-25	3604-08410		12			12	C51R/C62R	828-75851/75862
	Gibbs Ferry	06-25	3604-08410	32				32	C19P/C50P	828-75719/75750
	Gibbs Ferry	06-25	3604-08410	1	34			35	C66P/C00P	828-75766/75800
	Total			41	46	0	0	87		

Neck-collars are white with black codes.

(WARR\123R3\GOOSE\COLLAR91:COLLAR3)

1991 CANADA GOOSE NECK-COLLAR SUMMARY, TENNESSEE

LOCATION	DATE	LAT-LONG	AGE-SEX AHY-M	AHY-F	L-M	L-F	TOTAL	COLLAR CODES	LEG-BAND
REGION III									
OAK RIDGE (Regions III & IV) Cont.									
K-25	06/26	3556-08424	32				32	E19A/E50A	828-75919/75950
K-25	06/26	3556-08424		16			16	E85A/E00A	828-75985/76000
K-25	06/26	3556-08424	29				29	E01C/E29C	828-76801/76829
K-25	06/26	3556-08424		20			20	E51C/E70C	828-76851/76900
Total			61	36	0	0	97		
Melton H Dam	06/26	3553-08418	8				8	E43C/E50C	828-76843/76850
Melton H Dam	06/26	3553-08418	3	8	2	5	18	E83C/E00C	828-76883/76900
Total			11	8	2	5	26		
Solway	06/25	3559-08411	20		3		23	C25R/C47R	828-75825/75847
Solway	06/25	3559-08411		8		4	12	C89R/C00R	828-75889/75900
Solway	06/25	3559-08411		7			7	E51A/E57A	828-75951/75957
Total			20	15	3	4	42		
ORNL	06/26	3556-08418	13				13	E30C/E42C	828-76830/76842
ORNL	06/26	3556-08418		12			12	E71C/E82C	828-76871/76882
Total			13	12	0	0	25		
Y-12	06/25	3600-08414	13		3		16	C09R/C24R	828-75809/75824
Y-12	06/25	3600-08414				17	17	C63R/C79R	828-75863/75879
Y-12	06/25	3600-08414		8			8	C81R/C88R	828-75881/75888
Total			13	8	3	17	41		
Oak Ridge Total			246	183	34	36	499		
REGION III TOTAL			345	279	35	40	699		

Neck-collars are white with black codes.

(WARR\123R3\GOOSE\COLLAR91:COLLAR4)

1991 CANADA GOOSE NECK-COLLAR SUMMARY, TENNESSEE

LOCATION		DATE	LAT-LONG	AGE-SEX AHY-M	AHY-F	L-M	L-F	TOTAL	COLLAR CODES	LEG-BAND
REGION IV										
KINGSPORT										
	River Frt Pk	07/02	3633-08235	19	13	31	37	100	E01J/E00J	828-76201/76300
	River Frt Pk	07/02	3633-08235	26	13	31	5	75	E01K/E75K	828-76301/76375
	Total			45	26	62	42	175		
TELLICO										
	Tellico Dam	07/03	3546-08414	6	19			25	E76K/E00K	828-76376/76400
	Tellico Dam	07/03	3546-08414	33	21	17	29	100	E01M/E00M	828-76401/76500
	Total			39	40	17	29	125		
REGION IV TOTAL				84	66	79	71	300		
STATE TOTAL				774	654	158	174	1760		

Neck-collars are white with black codes. (WARR\123R3\GOOSE\COLLAR91:COLLAR5)

WOOD DUCK

BACKGROUND:

In order to adequately monitor the effect of the Early Duck Season that was granted to Tennessee in 1981, the wood duck stream floats have been reinstated as an annual survey. These surveys were done for several years prior to 1979 and ultimately, we have a good data base to compare these upcoming surveys. It is important to remember that the surveys should be run in the same manner as was carried out in the earlier survey periods.

PURPOSE:

To determine wood duck production trends in Tennessee.

PROCEDURES:

1. All necessary data forms will be distributed via Regional Biologists.

2. Although it is preferred that the same personnel conduct floats on the same stream segment each year, it is not mandatory. Regional Biologists and Area Supervisors should coordinate the assignment of personnel to assure that ample manpower is availabl to conduct the floats during the allotted time interval.

3. Stream segments should remain the same as earlier surveys. Each Regional Biologist should have a complete set of county highway maps showing the location of these routes.

4. Each survey team should consist of two individuals. Data sheets and a set of instructions should be supplied to each team. These instructions are self-explanatory and should be followed as closely as possible.

   (Special Note): Although instructions call for the use of canoes, it is sometimes impossible or impractical to use them. If this is the case, use a small flat-bottom with outboard.

5. When broods are encountered, be sure to indicate if the female is present. (See example in Appendix 1)

6. Wildlife Officers should submit the completed data sheets to their Area Supervisor as soon as possible following the completion of the survey. The forms should be reviewed for completeness and forwarded to the Regional Biologist who should also review the completed forms and forward to the Wildlife Division once all surveys have been conducted.

SCHEDULE FOR DATA COLLECTION

Prior to May 24	-	All survey assignments should be made and all necessary data collection materials provided to survey crews.
May 24 to June 11	-	Surveys conducted by crews.
June 16	-	All data forms should be submitted to Regional Biologist.
June 23	-	All forms should be submitted to the Wildlife Division.

Distribution of Final Report

July 23	-	Preliminary report completed on Tennessee surveys and distributed to Regional Personnel.

Instructions For Conducting Wood Duck Stream Survey

The Tennessee experimental wood duck stream survey will be conducted in your locale between May 24 and June 11. The specific details for conduct of this survey are as follows:

Materials and equipment needed:

1. County map showing stream segment selected. Map should be marked in detail to insure continuity of segments from year to year.
2. This instruction sheet, field record sheets and clipboard.
3. Canoe, paddles, cushions, electric motor, batteries, two vehicles (put-in and take-out), two sets of car-top carriers.
4. Binoculars
5. Crews must consist of two men; one to operate canoe and one to observe and record.

Starting and end time:

Begin float as soon as light permits visibility. This will be before sunrise. Continue float at least until the 10 mile segment is completed, and for as long as possible thereafter, but not beyond 10 A.M.

Weather:

Do not attempt float in rain, fog or temperatures below 40° (sunrise temperature).

Water condition:

The span of dates allows for adjustment to miss extreme high water. As long as water conditions are safe, conduct the survey within the date span even though water is high.

Procedure and recording:

Record stream name, date, starting time, temperature and all items on the field data sheet. Proceed with float down streams at about 3-4 mph. Remain extremely quiet at all times, talking only when necessary. The observer should look far up stream particularly when rounding bends. Also look into tributaries and lateral ditches. Observe closely the stream edge and banks. Record all adult wood ducks seen, by sex if possible, and by time of observati. In the column for unknown sex or groups put in the proper number and if possible the sex breakdown. In the brood size column to indicate if it is the entire brood use (W) or if a partial brood (P) if some birds were missed or you were not sure. If birds are seen only in the air, circle the observation. Do not record the same birds if you know they are repeats. Broods are recorded by number and class.

Class I - downy young (no feathers visible)

Class II - partially feathered (both down and feathers visible)

Class III -fully feathered, but flightless

Record start and end times precisely. Also record in the remarks column times of permanent structures such as bridges or other landmarks; presence of eagles, osprey, owls; or other factors effecting duck use or future continuity of floats.

Upon completion of float, mail information immediately

To Regional Data Collection Biologist

_____

_____

Stream Censused _____ Stream Miles, etc. _____

County _____ Code No. _____

Date _____ Observers _____ _____

Weather: Temp. - High _____ Low _____ Cloud Cover _____
Wind - Velocity _____ Direction _____ Precipitation _____

Stream Conditions: High _____ Normal _____ Low _____
Clear _____ Murky _____ Muddy _____

Equipment: Type Boat _____
Size Engine _____ % Time Engine Used _____

Start Time: _____ End Time _____

TIME EACH OBSERVATION	UNK. SEX	OR GROUPS	LONE DRAKE	LONE HEN	PAIR	BROOD SIZE (W/P)	BROOD CLASS	REMARKS

tream Censused Duck River Stream Miles, etc. 19

ounty Maury Code No. 16-222

ate 5-30-76 Observers Pruter, Odom

eather: Temp. - High 80 Low 60 Cloud Cover 70%
Wind - Velocity 3-5 Direction S.W. Precipitation 0

tream Conditions: High ____ Normal X Low ____
Clear X Murky ____ Muddy ____

quipment: Type Boat 14 Ft. Flat Bottom
Size Engine 9 1/2 % Time Engine Used 100%

tart Time: 5:25 AM End Time 10:00 AM

TIME ACH OBSERVATION	UNK. SEX	OR GROUPS	LONE DRAKE	LONE HEN	PAIR	BROOD SIZE (W/P)	BROOD CLASS	REMARKS
5:55 AM					1			Point of Island
6:00					1			Near Den Tree
6:05						1 P	I	Willows next to Slough
6:25				1				Flew from dead tree
7:00				1		8 P	I	Ran up bank into grass
7:30				1				Near big log
7:45					1			Willows
7:46					1			Above Howard Bridge
7:47					1	11 W	I	Near Cheeks Boat
8:25					1			Below Howard Bridge
9:00				1		3 P		In Slough 1 mil below Howard Br
9:06				1		1 P	I	Lower End Stillhouse Hole
9:09				1				Lower Stillhouse Hole
9:10				1				Above Mouth Fountain Cr. ½
9:14						1 P	II	" " " " " "
9:40					1			Vaughns Landing / 50 yds. below
9:40			1					Willows
9:40						3 P	II	¼ mile below Vaughns Landing
Totals			1	7	14	28		

AVERAGE
YOUNG/BROOD

REG	COUNTY	STREAM	74-78 AVG	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
I	FAYETTE	WOLF	6.25	0.00	H.W.	0.00	0.00	0.00	0.00	0.00	0.00	N/A	3.00	0.00
	PERRY #1	BUFFALO	2.75	N.S.	6.75	6.33	8.00	6.35	0.00	5.00	5.25	N/A	3.00	4.83
	PERRY #2	BUFFALO	1.83	3.80	7.25	7.25	7.25	5.50	3.00	4.80	5.14	N/A	5.00	3.00
	TIPTON	HATCHIE	1.87	0.00	7.50	2.40	6.25	5.00	0.00	0.00	3.66	4.00	N/A	5.50
	SHELBY	LOOSAHATCHIE	5.11	N.S.	6.00	0.00	6.00	0.00	3.00	6.00	4.00	1.00	N/A	0.00
	HARDIN	INDIAN	4.00	6.00	10.00	0.00	4.00	5.00	0.00	3.67	4.25	4.00	N/A	5.50
	HUMPHREYS	DUCK	5.57	N.S.	5.00	6.00	4.40	3.33	4.67	4.40	6.00	N/A	2.00	6.67
II	MAURY #1	DUCK	2.71	3.40	7.66	0.00	4.75	4.20	3.50	4.00	0.00	1.50	6.00	9.33
	MAURY #2	DUCK	5.87	3.83	4.42	7.00	3.57	N.S.	4.00	2.75	7.25	5.38	6.00	5.00
	DAVIDSON	HARPETH	7.33	3.20	4.42	5.00	6.82	4.13	4.14	4.50	5.43	6.29	4.33	3.63
	FRANKLIN	ELK	3.00	3.00	5.00	3.50	6.00	3.00	4.75	6.64	4.75	2.00	10.00	4.00
	MONTGOMERY	RED	6.10	4.45	8.00	6.40	3.63	2.67	5.38	5.62	3.70	3.33	4.00	2.86
III	CLAY	CUMBERLAND	4.44	3.67	0.00	2.00	H.W.	5.60	6.33	5.40	5.50	5.13	6.11	4.06
	MARION	SEQUATCHIE	5.70	6.63	5.55	3.38	4.44	3.45	4.38	4.00	4.64	4.33	3.67	4.50
	WARREN	COLLINS	5.78	5.00	7.00	3.62	4.17	2.83	2.71	3.50	4.25	5.25	7.33	5.33
	POLK	HIWASSEE	5.65	5.33	7.50	6.25	N.S.	3.75	6.40	6.67	5.57	4.25	3.18	N/A
	DEKALB	SMITH FORK	4.40	5.00	6.25	5.00	3.14	5.00	4.50	4.00	4.50	3.75	4.50	2.75
IV	JEFFERSON	HOLSTON	4.10	5.38	6.17	H.W.	4.25	2.50	4.88	4.67	H.W.	4.60	7.60	4.67
	HAWKINS	HOLSTON	5.54	6.18	3.88	6.52	5.28	5.36	5.44	5.86	2.00	5.60	5.25	3.60
	BLOUNT	LITTLE	4.85	4.20	2.88	6.75	5.69	5.09	4.71	3.38	0.00	3.70	2.00	N/A
	GREENE	NOLICHUCKY	3.57	3.67	4.66	5.00	5.55	3.55	4.71	3.71	3.85	3.67	3.58	3.83
	HANCOCK	CLINCH	N.S.	4.00	6.50	5.33	4.50	5.31	4.57	5.50	4.47	4.33	4.08	3.82
	REGION I	SUMMARY	3.69	4.16	7.17	5.20	6.17	5.08	1.72	4.70	4.75	3.00	4.33	4.25
	REGION II	SUMMARY	5.34	3.86	6.24	6.20	4.69	3.56	4.78	4.98	4.71	4.23	6.07	4.96
	REGION III	SUMMARY	5.37	5.44	6.51	4.45	3.95	3.81	4.82	5.50	4.90	4.62	4.96	4.16
	REGION IV	SUMMARY	5.28	4.92	4.56	5.92	5.14	4.76	4.83	4.56	3.97	4.19	4.50	3.98
	STATEWIDE	SUMMARY	5.07	4.74	5.80	5.50	4.99	4.30	4.76	4.95	4.58	4.24	4.97	4.34

H.W.-High Water N.S.-No Survey N/A-Not Available

WOOD DUCK SURVEY DATA

NUMBER
BROODS/MILE

REG	COUNTY	STREAM	74-78 *AVG.	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
I	FAYETTE	WOLF	0.10	0.00	H.W.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00
	PERRY #1	BUFFALO	0.10	N.S.	0.29	0.30	0.30	0.30	0.00	0.52	0.57	N/A	0.10	0.43
	PERRY #2	BUFFALO	0.12	0.29	0.41	0.28	0.29	0.64	0.07	0.36	0.50	N/A	0.14	0.10
	TIPTON	HATCHIE	0.58	0.00	0.50	0.42	0.50	0.10	0.00	0.00	0.30	0.20	0.00	0.20
	SHELBY	LOOSAHATCHIE	0.30	N.S.	0.08	0.00	0.33	0.00	0.20	0.20	0.10	0.20	0.00	0.00
	HARDIN	INDIAN	0.15	0.10	0.11	0.00	0.10	0.10	0.00	0.30	0.40	0.20	0.00	0.20
	HUMPHREYS	DUCK	0.15	N.S.	0.09	0.30	0.50	0.30	0.60	0.50	0.10	N/A	0.80	0.30
II	MAURY #1	DUCK	0.22	0.25	0.30	0.00	0.40	0.26	0.11	0.21	0.00	0.21	0.16	0.14
	MAURY #2	DUCK	0.14	0.22	0.35	0.10	0.35	N.S.	0.15	0.40	0.20	0.36	0.10	0.16
	DAVIDSON	HARPETH	0.13	0.42	0.63	0.09	1.00	1.36	0.64	0.91	1.27	0.47	0.82	0.73
	FRANKLIN	ELK	0.06	0.06	0.20	0.08	0.19	0.20	0.33	0.58	0.42	0.11	0.05	0.60
	MONTGOMERY	RED	0.75	0.85	0.92	2.08	1.58	0.90	1.33	1.08	1.67	0.82	0.67	0.70
III	CLAY	CUMBERLAND	0.36	0.27	0.00	0.90	0.00	0.45	0.27	0.91	0.36	0.73	0.82	1.64
	MARION	SEQUATCHIE	0.59	0.57	0.64	0.58	0.65	0.79	0.58	0.36	0.79	0.43	0.22	0.14
	WARREN	COLLINS	0.41	0.21	0.59	0.59	0.44	0.88	0.51	0.15	0.29	0.29	0.22	0.22
	POLK	HIWASSEE	0.32	0.46	0.47	0.63	N.S.	1.07	1.92	0.94	0.55	0.31	1.73	N/A
	DEKALB	SMITH FORK	0.19	0.38	0.32	0.48	0.56	0.48	0.48	0.08	0.32	0.32	0.16	0.32
IV	JEFFERSON	HOLSTON	0.51	0.72	0.39	H.W.	0.26	0.25	0.59	0.92	H.W.	1.41	0.77	0.46
	HAWKINS	HOLSTON	1.38	1.30	1.30	1.31	1.92	1.08	0.69	0.54	1.60	0.39	0.62	0.38
	BLOUNT	LITTLE	0.50	0.50	0.50	0.36	1.18	1.91	1.27	0.73	H.W.	1.04	0.45	N/A
	GREENE	NOLICHUCKY	0.69	0.38	0.38	0.56	0.69	0.69	0.44	0.44	0.81	0.94	0.75	0.46
	HANCOCK	CLINCH	N.S.	1.80	0.80	0.90	1.80	1.30	1.56	0.67	2.11	1.33	1.44	1.22
	REGION I	SUMMARY	0.19	0.12	0.21	0.20	0.29	0.18	0.13	0.26	0.27	0.14	0.38	0.21
	REGION II	SUMMARY	0.25	0.32	0.45	0.35	0.61	0.56	0.43	0.57	0.59	0.35	0.36	0.47
	REGION III	SUMMARY	0.38	0.38	0.42	0.49	0.43	0.72	0.60	0.47	0.47	0.41	0.63	0.58
	REGION IV	SUMMARY	0.60	0.88	0.70	0.78	1.08	0.96	0.83	0.61	1.31	0.96	0.81	0.63
	STATEWIDE	SUMMARY	0.37	0.44	0.43	0.42	0.60	0.60	0.48	0.47	0.66	0.46	0.54	0.47

H.W.-High Water N.S.-No Survey N/A-Not Available

NUMBER
YOUNG/MILE

REG	COUNTY	STREAM	74-78 AVG	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
I	FAYETTE	WOLF	0.63	0.00	H.W.	0.00	0.00	0.00	0.00	0.00	0.00	N/A	0.25	0.00
	PERRY #1	BUFFALO	0.26	N.S.	1.93	1.90	2.40	1.90	0.00	2.58	3.00	N/A	0.31	2.07
	PERRY #2	BUFFALO	0.22	1.12	2.99	2.07	2.07	1.57	0.21	1.71	2.57	N/A	0.71	0.31
	TIPTON	HATCHIE	1.08	0.00	3.75	1.00	3.25	0.50	0.00	0.00	1.10	0.80	0.00	1.10
	SHELBY	LOOSAHATCHIE	1.53	N.S.	0.46	0.00	2.00	0.00	0.60	1.20	0.40	0.20	0.00	0.00
	HARDIN	INDIAN	0.60	0.60	1.11	0.00	0.40	0.50	0.00	1.10	1.70	0.80	0.00	1.10
	HUMPHREYS	DUCK	0.81	N.S.	0.45	1.80	2.20	1.00	2.80	2.20	0.60	N/A	1.60	2.00
II	MAURY #1	DUCK	0.61	0.85	2.30	0.00	1.90	1.11	0.37	1.32	0.00	0.32	0.95	1.33
	MAURY #2	DUCK	0.81	0.85	1.55	0.70	1.25	N.S.	0.60	1.10	1.45	1.95	0.60	0.79
	DAVIDSON	HARPETH	0.91	1.33	2.82	0.45	6.82	5.64	2.64	4.09	6.91	2.93	3.55	2.64
	FRANKLIN	ELK	0.17	0.19	1.00	0.29	0.75	0.60	1.58	3.84	2.00	0.21	0.53	2.40
	MONTGOMERY	RED	4.57	3.77	7.33	13.33	5.75	2.40	7.17	6.08	6.17	2.73	2.67	2.00
III	CLAY	CUMBERLAND	1.61	1.00	0.00	0.18	0.00	2.55	1.73	4.91	2.00	3.73	5.00	6.64
	MARION	SEQUATCHIE	3.36	3.79	4.00	1.94	2.88	2.73	2.52	1.44	3.67	1.87	0.79	0.65
	WARREN	COLLINS	2.38	1.07	4.11	2.13	1.84	2.50	1.40	0.51	1.25	1.54	1.62	1.18
	POLK	HIWASSEE	1.83	2.46	3.54	3.94	N.S.	4.00	12.30	6.30	3.07	1.34	5.51	N/A
	DEKALB	SMITH FORK	0.85	1.92	2.00	2.40	1.76	2.40	2.16	0.32	1.44	1.20	0.72	0.88
IV	JEFFERSON	HOLSTON	2.11	3.88	2.39	H.W.	1.10	0.65	2.89	4.31	H.W	6.48	5.85	2.15
	HAWKINS	HOLSTON	7.67	8.07	5.38	8.53	10.15	5.77	3.77	3.15	3.20	2.20	3.23	1.38
	BLOUNT	LITTLE	2.42	2.10	2.09	2.45	6.73	9.73	6.00	2.45	H.W	3.85	0.91	N/A
	GREENE	NOLICHUCKY	2.45	1.38	1.75	2.81	3.81	2.43	2.06	1.63	3.13	3.44	2.69	1.77
	HANCOCK	CLINCH	N.S.	7.20	5.20	4.80	8.10	6.90	7.11	3.67	9.44	5.78	5.89	4.67
	REGION I	SUMMARY	0.72	0.49	1.51	1.05	1.76	0.90	0.51	1.24	1.27	0.43	0.42	1.10
	REGION II	SUMMARY	1.13	1.23	2.82	2.13	2.85	1.98	2.07	2.83	2.77	1.48	1.37	1.83
	REGION III	SUMMARY	2.04	2.09	2.76	2.17	1.71	2.74	2.92	2.59	2.31	1.88	2.62	2.34
	REGION IV	SUMMARY	3.16	4.32	3.21	4.62	5.57	4.58	4.02	2.79	5.20	4.01	3.35	2.49
	STATEWIDE	SUMMARY	1.86	2.06	2.52	2.30	2.97	2.57	2.29	2.33	2.89	1.96	1.80	1.94

H.W.-High Water N.S.-No Survey N/A-Not Available

WOOD DUCK SURVEY DATA

NUMBER
BIRDS/MILE

REG	COUNTY	STREAM	74-78 AVG.	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
I	FAYETTE	WOLF	2.10	0.06	H.W.	0.25	0.50	0.25	0.13	0.83	0.14	0.00	0.50	0.14
	PERRY #1	BUFFALO	0.93	N.S.	2.35	2.90	3.10	3.00	0.20	3.92	4.57	N/A	0.31	3.43
	PERRY #2	BUFFALO	1.05	2.12	3.81	3.43	2.86	1.93	0.29	2.50	3.79	N/A	1.86	0.82
	TIPTON	HATCHIE	3.20	2.20	4.92	1.83	4.42	0.60	0.50	0.80	2.10	1.80	1.30	2.20
	SHELBY	LOOSAHATCHIE	3.20	N.S.	1.00	2.66	4.50	1.17	0.80	1.60	2.00	3.60	0.20	1.00
	HARDIN	INDIAN	1.40	0.80	1.55	0.60	1.90	1.10	0.20	1.70	3.00	1.50	0.10	2.70
	HUMPHREYS	DUCK	1.67	N.S.	0.63	2.80	3.00	1.80	5.80	3.60	1.00	N/A	2.10	3.20
II	MAURY #1	DUCK	1.42	1.70	2.95	0.20	2.40	1.37	0.58	1.42	0.26	1.11	1.26	1.71
	MAURY #2	DUCK	1.22	1.56	2.30	0.90	1.95	N.S.	1.40	2.15	1.60	2.91	1.60	2.16
	DAVIDSON	HARPETH	1.83	2.91	3.91	1.54	8.55	7.91	4.36	6.18	8.73	3.80	4.45	3.45
	FRANKLIN	ELK	0.77	0.38	1.90	0.66	1.44	1.20	2.17	4.84	2.32	0.32	0.63	3.90
	MONTGOMERY	RED	6.30	4.76	8.66	15.83	7.83	4.00	8.83	8.25	7.08	3.73	3.92	2.90
III	CLAY	CUMBERLAND	2.91	1.36	0.45	0.54	0.36	4.18	3.45	7.64	3.91	5.36	6.36	8.55
	MARION	SEQUATCHIE	4.29	4.85	4.89	2.59	4.53	4.68	4.39	3.09	5.40	3.31	1.65	1.01
	WARREN	COLLINS	3.07	1.50	5.37	2.35	2.06	3.24	1.91	1.18	1.54	2.28	2.79	1.62
	POLK	HIWASSEE	2.70	3.38	4.41	4.64	N.S.	5.87	19.81	9.37	3.94	1.73	7.17	N/A
	DEKALB	SMITH FORK	1.62	3.31	2.08	2.80	2.56	3.44	2.48	0.48	1.84	1.92	1.20	1.60
IV	JEFFERSON	HOLSTON	3.67	6.94	4.19	H.W.	1.87	0.90	3.70	6.00	N/A	7.04	7.23	2.77
	HAWKINS	HOLSTON	11.23	14.00	8.92	8.53	14.23	7.62	5.77	4.69	9.20	2.99	4.23	2.62
	BLOUNT	LITTLE	4.00	4.00	3.54	5.18	8.55	12.55	9.82	4.09	N/A	6.15	2.73	N/A
	GREENE	NOLICHUCKY	4.87	2.68	4.88	4.12	5.75	3.75	3.94	2.44	4.25	4.94	4.13	2.62
	HANCOCK	CLINCH	N.S.	11.40	8.60	5.80	10.50	11.10	10.00	9.11	12.33	9.00	6.89	8.89
	REGION I	SUMMARY	1.81	1.41	2.01	2.05	2.91	1.49	1.11	2.17	2.24	1.64	1.06	2.25
	REGION II	SUMMARY	2.14	2.03	3.71	2.78	3.77	3.53	2.96	4.06	3.36	2.20	2.37	2.83
	REGION III	SUMMARY	2.94	2.94	3.56	2.63	2.49	4.14	4.61	4.21	3.33	2.86	3.84	3.19
	REGION IV	SUMMARY	4.62	7.52	5.86	5.32	7.71	6.44	6.18	4.79	7.35	5.64	5.04	4.22
	STATEWIDE	SUMMARY	2.99	3.49	3.69	3.01	4.22	3.90	3.57	3.72	4.07	3.04	2.66	3.12

H.W.-High Water N.S.-No Survey N/A-Not Available

NESTING
EFFORT/MILE

REG	COUNTY	STREAM	74-78 *AVG.	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
I	FAYETTE	WOLF	1.10	0.36	H.W.	0.08	0.08	0.13	0.00	0.17	0.07	0.00	0.03	0.00
	PERRY #1	BUFFALO	0.61	N.S.	0.71	1.10	0.90	1.30	0.20	1.55	1.86	NA	0.07	1.21
	PERRY #2	BUFFALO	0.51	0.82	1.23	1.07	0.43	0.64	0.14	1.00	1.64	NA	0.50	0.52
	TIPTON	HATCHIE	1.73	1.90	1.66	0.75	1.08	0.20	0.00	0.30	1.00	0.90	0.20	0.70
	SHELBY	LOOSAHATCHIE	1.43	N.S.	0.38	0.50	1.25	0.67	0.30	0.50	1.00	1.10	0.20	0.60
	HARDIN	INDIAN	0.65	0.20	0.11	0.50	0.30	0.40	0.20	0.90	1.10	0.90	0.00	1.00
	HUMPHREYS	DUCK	0.68	N.S.	0.27	1.00	0.70	0.80	2.30	1.20	0.30	NA	1.00	1.20
II	MAURY #1	DUCK	0.61	0.65	0.75	0.20	0.50	0.53	0.32	0.68	0.16	0.74	0.45	0.48
	MAURY #2	DUCK	0.38	0.63	0.85	0.30	0.70	N.S.	0.75	1.25	0.30	0.86	0.50	0.63
	DAVIDSON	HARPETH	0.79	1.41	1.36	0.82	1.45	2.64	2.00	2.18	1.82	1.33	1.18	1.55
	FRANKLIN	ELK	0.38	0.19	0.80	0.29	0.31	0.40	0.92	1.32	0.63	0.50	0.75	2.20
	MONTGOMERY	RED	1.58	1.00	1.58	2.25	2.00	2.30	2.92	1.75	2.42	2.00	1.55	1.50
III	CLAY	CUMBERLAND	1.07	0.36	0.18	0.18	0.18	1.36	1.27	2.64	1.36	2.55	2.18	2.82
	MARION	SEQUATCHIE	0.88	0.93	1.00	0.86	0.86	1.87	1.94	1.29	1.01	1.58	0.72	0.43
	WARREN	COLLINS	0.69	0.43	1.03	0.81	0.51	1.62	1.03	0.59	0.29	0.74	0.74	0.51
	POLK	HIWASSEE	0.88	0.92	1.18	1.26	N.S.	2.53	4.04	1.42	1.26	0.71	2.60	N/A
	DEKALB	SMITH FORK	0.67	1.23	0.40	0.72	1.12	1.28	0.80	0.16	0.72	0.96	0.56	0.80
IV	JEFFERSON	HOLSTON	1.27	2.61	1.42	H.W.	0.65	0.39	1.33	2.62		0.87	1.50	0.77
	HAWKINS	HOLSTON	2.96	5.00	3.30	4.15	3.54	2.15	1.69	1.54	2.40	1.83	1.57	1.38
	BLOUNT	LITTLE	1.28	1.70	1.82	0.72	1.73	4.36	3.82	1.82		2.71	1.46	N/A
	GREENE	NOLICHUCKY	1.97	1.25	1.56	0.81	1.13	2.00	1.69	1.06	1.88	2.12	2.13	1.23
	HANCOCK	CLINCH	N.S.	4.20	2.30	1.40	2.80	3.70	4.22	4.89	4.78	3.44	3.56	3.33
	REGION I	SUMMARY	0.90	0.78	0.63	0.73	0.66	0.56	0.40	0.79	0.95	0.73	0.33	0.87
	REGION II	SUMMARY	0.69	0.72	1.01	0.61	0.87	1.20	1.20	1.33	0.90	1.02	0.89	1.27
	REGION III	SUMMARY	0.83	0.78	0.80	0.78	0.69	1.68	1.53	1.18	0.91	1.31	1.36	1.14
	REGION IV	SUMMARY	1.49	2.85	2.03	1.78	1.69	1.44	2.35	2.13	2.87	2.19	2.04	1.68
	STATEWIDE	SUMMARY	1.03	1.27	1.09	0.90	0.98	1.44	1.34	1.31	1.41	1.31	1.12	1.24

H.W.-High Water N.S.-No Survey N/A-Not Available

WOOD DUCK SURVEY DATA

SURVEY EVALUATION
INDEX

REG	COUNTY	STREAM	74-78 *AVG.	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
I	FAYETTE	WOLF	10.18	0.42	H.W.	0.33	0.58	0.38	0.13	1.00	0.21	0.00	3.86	0.14
	PERRY #1	BUFFALO	4.65	N.S.	12.03	12.53	14.70	12.85	0.40	13.57	15.25	NA	3.79	11.98
	PERRY #2	BUFFALO	3.73	8.15	15.69	14.10	12.90	10.28	3.71	10.37	13.64	NA	8.21	4.75
	TIPTON	HATCHIE	8.46	4.10	18.33	6.40	15.50	6.40	0.50	1.10	8.16	7.70	1.50	9.70
	SHELBY	LOOSAHATCHIE	11.57	N.S.	7.92	3.16	14.08	1.84	4.60	9.50	7.50	6.10	0.40	1.60
	HARDIN	INDIAN	6.80	7.70	12.88	1.10	6.70	7.10	0.40	7.67	10.45	7.20	0.10	10.50
	HUMPHREYS	DUCK	8.88	N.S.	6.44	11.90	10.80	7.23	16.17	11.90	8.00	NA	7.50	13.37
II	MAURY #1	DUCK	5.57	6.85	13.96	0.40	9.95	7.47	4.88	7.63	0.42	3.88	3.42	13.00
	MAURY #2	DUCK	8.42	7.09	9.47	9.00	7.82	N.S.	6.90	7.65	10.80	11.28	8.80	8.74
	DAVIDSON	HARPETH	10.99	9.27	13.14	7.90	23.64	21.68	13.78	17.86	24.16	14.82	14.33	11.99
	FRANKLIN	ELK	4.38	3.82	8.90	4.82	8.69	5.40	9.75	17.22	10.12	4.00	6.87	13.10
	MONTGOMERY	RED	19.30	14.83	26.49	39.89	20.79	12.27	25.63	22.78	21.04	12.61	12.81	9.96
III	CLAY	CUMBERLAND	10.39	6.66	0.63	3.80	0.54	14.14	13.05	21.50	13.13	17.50	20.47	23.69
	MARION	SEQUATCHIE	14.82	16.77	16.08	9.35	13.36	13.52	13.81	10.18	15.51	11.52	7.05	6.73
	WARREN	COLLINS	12.33	8.21	18.01	9.50	9.02	11.07	7.56	5.93	7.62	10.10	11.96	8.86
	POLK	HIWASSEE	11.38	12.55	17.10	16.72	N.S.	17.22	44.47	24.70	14.39	8.34	20.19	N/A
	DEKALB	SMITH FORK	7.73	12.84	11.05	11.40	0.14	12.60	10.42	5.04	8.82	8.15	7.14	6.35
IV	JEFFERSON	HOLSTON	11.66	19.53	14.56	H.W.	8.13	4.69	13.39	18.52	H.W.	20.40	22.95	10.82
	HAWKINS	HOLSTON	28.78	34.55	22.86	29.04	35.12	21.98	17.36	15.78	18.40	17.24	14.90	9.37
	BLOUNT	LITTLE	13.05	12.50	11.06	15.46	23.88	33.64	25.62	12.47	H.W.	17.45	7.55	N/A
	GREENE	NOLICHUCKY	13.55	9.36	13.23	13.30	16.93	12.42	12.84	9.28	13.92	15.11	13.28	9.91
	HANCOCK	CLINCH	N.S.	28.60	23.40	18.23	27.70	28.31	27.46	23.84	33.13	23.88	21.86	21.93
	REGION I	SUMMARY	7.31	6.96	11.53	9.23	11.79	8.21	3.87	9.16	9.48	5.25	3.62	8.67
	REGION II	SUMMARY	9.73	8.16	14.23	12.07	12.79	10.83	11.44	13.77	12.33	9.21	9.25	11.36
	REGION III	SUMMARY	11.56	11.63	14.05	10.52	9.27	13.09	14.48	13.95	11.92	11.12	13.36	11.41
	REGION IV	SUMMARY	15.15	20.49	16.36	18.42	21.19	18.18	18.21	14.88	20.70	18.82	16.12	13.01
	STATEWIDE	SUMMARY	11.32	12.00	13.53	12.13	13.76	12.81	12.44	12.78	13.61	11.10	10.59	11.11

H.W.-High Water N.S.-No Survey N/A-Not Available

TOLAL NUMBER OF WOOD DUCKS BANDED IN TENNESSEE 1982-1990

YEAR	BANDING QUOTA	NUMBER BANDED					TOTAL BANDED
		AM	AF	IM	IF	UNK	
1982							334
1983							237
1984	120						279
1985	120	20	25	87	91	0	223
1986	120	62	66	164	138	6	436
1987	120	40	55	48	59	21	223
1988	120	37	43	50	33	2	165
1989	120						165
1990	400	75	75	182	143	3	478
TOTAL	1120	234	264	531	464	32	2540

AM = ADULT MALE
AF = ADULT FEMALE
IM = IMMATURE MALE
IF = IMMATURE FEMALE

1991

WOOD DUCK

Nest Box Project

REPORT ON THE ACCOMPLISHMENTS OF THE

1991

WOOD DUCK NEST BOX PROGRAM

Tennessee's wood duck nest box program is an excellent example of why this state is known as the volunteer state. With the creation of the Wood Duck Nest Box project in 1989, over one hundred private individuals have become cooperators. In addition to these individuals, local chapters of Ducks Unlimited, Sportsman Clubs and other organization have become cooperators. In addition to the Agency's twenty thousand dollar budget for the project, businesses such as Alcoa Aluminum, Anderson-Tully, Averitt Lumber Company, Paslode, Inc., and the Tennessee Valley Authority have also demonstrated their interest in the project by donating lumber, aluminum and nails (Table 1).

In May of 1990, eleven individuals from sportsman clubs, conservation groups, universities and federal organizations joined with TWRA personnel as members of the Tennessee Wood Duck Committee. They were charged with providing direction for the wood duck nest box project. In addition to providing direction, the committee has developed an excellent publication Wood Ducks in Tennessee. Information on the natural history of the wood duck, wood duck nest box construction plans, site selection, box maintenance and a report form are covered in the publication. Several thousand copies of this publication as well as a brochure on wood ducks have been printed and distributed to each Regional office.

The construction of nest boxes could not have been accomplished without the help of vocational schools, Boy Scout clubs, high school vocational classes, private individuals and elementary schools. These schools and individuals have built over 2,000 nest boxes (Table 2).

The more than one hundred cooperators (Table 4) have put up ninety-five percent of these boxes on streams, rivers, lakes and farm ponds from Greene county to Obion county and from Jackson county to Franklin county (Table 3).

Beginning with this year, cooperators will be asked to inspect all the boxes they have put up and report on the condition of the box and what use the box received. Based on the reported use of these boxes by wood ducks, we will be able to estimate the successful production that occurred from these boxes for the year.

The Tennessee Wildlife Resources Agency and the Wildlife Resources Commission wishes to thank the many individuals and organization listed in this report for their efforts in making the Tennessee Wood Duck Nest Box Project a reality.

TABLE 1

PRIVATE DONATIONS OF MATERIAL

Anderson-Tully	2,000 board feet of lumber
Paslode, Inc.	Four 55 gallon barrels of nails
Alcoa	Two 1 thousand pound rolls of aluminum
Averitt Lumber	888 board feet of lumber

TABLE 2

TENNESSEE WOOD DUCK NEST BOX BUILDERS

BUILT BY	NUMBER BUILT
REGION I	
Huntingdon High School	50
Halls Vocational School	190
Union City High School	48
Bartlett High School	44
Benton County Vocational School	18
TVA	100
Gibson County High School	30
Hardin County High School	94
Mark Tusa	30
Lexington High School	46
Chester Coutny High School	37
Lobelville Elementary School	16
TOTAL	703
REGION II	
Harpeth River Sportsmen Club	30
Cheatham Co. Central High School	75
Air Force ROTC, MTSU	10
Derrick Triplett	5
Resource Manager, Cheatham Dam	35
Richard Folkerth	10
Jim Potts	95
Shelbyville Boy Scouts	68
Herb Kneyland	79
Steve Fox	15
Tony Fortner	34
Chuck Borum	25
Herb Insel, Boy Scouts, M'boro	30
Hardy Burch	5
TOTAL	516
REGION III	
Sequoyah Vocational School	253
Jim Evans	30
Chuck Currence	10
Hugh Stomdridge	8
Jim Holcomb	6
John Broucek	6
Dr. Paul Schwiger	5
Harrison Bay Vocational School	160
TOTAL	478

TABLE 2

TENNESSEE WOOD DUCK NEST BOX BUILDERS

BUILT BY	NUMBER BUILT
REGION IV	
Elizabethton High School	123
Jefferson County High School	93
Rutledge High School	25
Washburn High School	15
TVA	91
Morristown Ducks Unlimited	25
TOTAL	372
STATEWIDE TOTAL	2069

TABLE 3

WOOD DUCK NEST BOX LOCATIONS

TOTAL PUT UP	COUNTY	LOCATION
REGION I		
2	Benton	Beaver Dam Cr. KY Lake
6	Benton	Birdsong Bay KY Lake
100	Big & West Sandy WMA	
4	Camden WMA	
2	Chester	S. Fork of Forked-Deer Rv. S. of Henderson
1	Chester	
15	Chester	Allen Creek (Deanburg)
5	Chester	S. Fork Forked-Deer Rv. Henderson
10	Decatur	Perryville Pump Station
4	Fayette	Wolf Rv. Moscow
30	Gibson	Forked-Deer Rv. Bluff Rd.
1	Hardin	Middleton Cr.
10	Henderson	Wilderville Rd.
4	Henderson	
2	Henderson	
4	Henderson	
6	Henderson	
4	Henderson	Hwy 22 S.
6	Henderson	Beaver Bottom Hwy 22 N.
2	Humpherys	Near Duck Rv. NRW
5	Madison	Forked-Deer Rv.
5	Madison	
9	McNairy	Cypress Creek near Selmer
4	McNairy	Tuscumbia Rv.
43	Obion	Obion Rv. Rives
5	Obion	Troy
5	Shelby	Loosahatchie Rv. N. of Arlington
15	Shelby WMA	Eagle Lake
5	Tipton	Island 37 MS Rv.
4	Tipton	Sunrise Island MS Rv.
156	Unknown	
50	Unknown	
80	White Oak WMA	
604	TOTAL	
REGION II		
2	Cheatham	Harpeth Rv. Near I40
28	Cheatham	Near R.R. Tracks below dam
5	Davidson	City of Oak Hill
20	Maury	Duck Rv. Sowells Bend
2	Rutherford	Drake Rd.
2	Sumner	Old Hickory Res. Cumberland Hills
382	unreported	
441	TOTAL	

TABLE 3

WOOD DUCK NEST BOX LOCATIONS

TOTAL PUT UP	COUNTY	LOCATION
REGION III		
6	Anderson	Bearden Cr.
3	Anderson	Freels Bend Clinch Rv.
4	Anderson	Bethel Valley Rd.
10	Cumberland	Catoosa WMA
2	Hamilton	Nickajack Lake near NLRM 470
7	Hamilton	Wolftever Cr. Carson Spring
8	Hamilton	Lookout Cr.
10	Hamilton	Baylor Lake
5	Hamilton	Near Amnicola Hwy. & Stuart St.
5	Hamilton	Wolftever Cr. Salem ch.
10	McMinn	Oostanuala Cr. near Athens
2	McMinn	North Mouse Cr. near Marshall Hill Ch.
10	McMinn	Near Reagan
1	McMinn	Sokey Br. near Athens
20	McMinn	Chestuee Cr. RM20-31
10	McMinn	Near Webb Lake
1	McMinn	Rogers Cr. near Dennis Cem.
10	Meigs	Hunter Bend Chickamauga Lake
6	Meigs	Sewee Cr.
69	Meigs	Blythe Ferry
1	Meigs	Hurricane Cr. near Center Point
20	Meigs	Chickamauga RM506-507
12	Meigs	Armstrong Bend
10	Polk	Siccowee Br. Hiwassee Rv.
7	Polk	Hiwassee Rv. RM47-48
15	Putnam	Monterey Lake
5	Putnam	Buck Mt. Rd. near Mt. Pleasant Sch.
3	Putnam	Stone Seminary
2	Roane	Grassy Cr. Clinch Rv.
1	Roane	Near Hensley Cem. Clinch Rv.
2	Roane	Bear Cr. near McKinney Ridge
7	Roane	Clinch Rv. RM18-20
8	Roane	Watts Bar near Lakeview
12	Roane	TN Rv. near RM570
34	Roane	TN Rv. Long Island
5	Roane	Caney Cr. Watts Bar
12	Roane	Watts Bar Kingston Refuge
63	Roane	Watts Bar RM572-576
5	Roane	Gordon Br. Watts Bar
10	Roane	Huffine Island Watts Bar
6	Roane	Watts Bar RM560-562
6	Roane	Watts Bar RM576-578
4	Roane	Watts Bar Wilson Island
5	Roane	Lewis Br. Emory Rv.
2	Roane	East Fork Cr. near Poplar Cr.
456	TOTAL	

TABLE 3

WOOD DUCK NEST BOX LOCATIONS

TOTAL PUT UP	COUNTY	LOCATION
REGION IV		
10	Anderson	Melton Hill Lake MHLRM 45-51
11	Blount	Little Rv. Wildwood Bridge to Dam
11	Blount	Little Rv. Hwy 411 bridge to Wildwood bridge
24	Campbell	Cove Lake St. Park
5	Claiborne	Davis Creek at mill dam
15	Greene	Nolichucky Rv. 1/2 mile below Davey Crockett Da
27	Greene	Nolichucky refuge
38	Hamblen	Nolichucky Rv. island State Wetland
39	Hawkins	Phipps Bend Refuge
7	Hawkins	Holston Rv. HRM 27
2	Jefferson	Holston Rv. Big Bend Rd.
2	Jefferson	Douglas Lake
1	Jefferson	Hinds Cr.
3	Jefferson	Mossy Cr. Cherokee Lake
2	Jefferson	Mossy Cr.
10	Jefferson/Kno	Holston Rv.
5	Knox	
4	Knox	Ft. Loudon Lake Keller Bend
6	Knox	Bright Hope Rd.
3	Knox	Ft. Loudon Lake Turkey Cr.
2	Knox	Ft. Loudon Lake FLRM 618,621,622
6	Loudon	Isle cr. Ft. Loudon Lake
20	Monroe	Tellico Rv. TRM 16 to 20.6
5	Monroe	Tellico Lake
13	Monroe	Tellico Lake Ballplay Cr. TRM 8.5
23	Monroe	Tellico Lake Chota Refuge TRM 24.0-31.0
16	Monroe	Tellico Rv. at Notchy Rv. & Fourmile Cr.
6	Sevier	French Broad Rv. Weaver's Bend
5	Sullivan	Beaver Cr.
4	Sullivan	Boone Lake Winged Deer Park
5	Union	Bull Run Cr. Union/Knox Co. line
20	Washington	Nolichucky Rv.
2	Washington	107 cut off
40	Washington	Nolichucky Rv.
392	TOTAL	
1893	STATEWIDE TOTAL	

TABLE 4

WOOD DUCK NEST BOX COOPERATORS

LAST NAME	FIRST	ADDRESS	CITY	STATE	ZIP	PHONE
Akins	Tommy		Greenfield	TN		
Alexander	Harbert	1723 Highland Ave. N.	Jackson	TN	38305	901-423-2380
Anderson	Bruce	216 E. Penfield St.	Crossville	TN	38555	615-484-9571
Anderson	Paul	200 Wilson S.	Halls	TN	38040	901-836-9282
Avery	Paul	202 Wilson S.	Halls	TN	38024	
Boehm	Jeffrey	600 Dome Bldg.	Chattanooga	TN	37402	615-756-5020
Boling	Kenny					
Bradshaw	Al	P.O. Box 1300	Dyersburg	TN	38024	901-285-5767
Brimer	Ronnie					
Brobeck	Gail	Rt. 7 Box 210	Greeneville	TN	37743	
Broucek	John	Rt. 1, Box 55-N	Kingston	TN	37763	615-376-7051
Burks	Bucky	P.O. Box 157	Dyersburg	TN	38024	901-285-6286
Burn	W.H.	Box 130	Niota	TN	37826	615-568-2101
Campbell	Carl	Rt. 1, Box 95-A	Birchwood	TN	37308	615-339-2161
Carpenter	Woody	7101 Tenderfoot Trail	Ooltewah	TN	37363	615-2384044
Carroll	Jerry	Rt. 2	Englewood	TN	37329	615-745-8054
Collier	Ed	Rt.4, Box 132	Kingston	TN	37763	615-376-7736
Colwick	Jack	34 Hickory Hills Dr.	Jackson	TN	38305	901-424-8556
Crafton	Nick	5890 Brierfield	Memphis	TN	38120	901-683-9483
Crawford	Don	202 Mockingbird Dr.	Crossville	TN	38555	615-456-2860
Currence	Chuck	Bowater	Calhoun	TN	37309	615-336-7544
Currey	Ken	3643 Shennandoah Ln.	Cookeville	TN	38501	615-372-3847
Drake	Robert	3788 Drakes R.	Murfreesboro	TN	37130	615-893-9797
Drumwright	Robert	Hwy. 51, Rt. 2	Gates	TN		901-836-7978
Edwards	Bonnie	203 Lake Valley Rd.	Hendersonville	TN	37075	615-824-4105
Edwards	W.T.	P.O. Box 73	Speedwell	TN	37870	
Enochs	Al	116 South Lowe	Cookeville	TN	38501	615-528-1573
Ensminger	Paul	P.O. Box 306	Delano	TN	37325	615-263-1626
Evans	Jim	106 Cavetton Rd., Apt. #1-B	Knoxville	TN	37923	615-574-8204
Everett	Jim	4642 Miser Station Rd.	Friendsville	TN	37737	
Ferguson	Tom	842 Mecklenburg Ct.	Knoxville	TN	37923	
Gardener	Carl	1100 Old Hickory Blvd.	Nashville	TN	37027	615-834-2280
Goedeke	Phil	P.O. Box 286	Harriman	TN	37748	615-882-3715
Guthrie	Howard	204 Oak	Dyersburg	TN	38024	901-286-4110
GwAltney	Jimmy	1747 Oak Ridge Rd.	Obion	TN	38240	
Harper	Ed	Rt. 2, Box 450	Ten Mile	TN	37880	615-376-0812
Harpeth River Sportsman Club						
Harrson	Ed		Jackson	TN		
Henry	Robert	Rt. 1	Henning	TN		901-738-5466
Hicks	Hunter	621 Brendwood	Athens	TN	37303	615-745-4897
Hines	Ronnie					
Holcomb	Jim	11044 Thornton Dr.	Knoxville	TN	37922	
Holcomb	Jim	11044 Thornton Dr.	Knoxville	TN	37922	615-966-9262
Hudson	Ronnie	Rt. 1 Box 362	Dyersburg	TN	38024	901-285-0666
Hudson	Mike	Rt. 1 Box 274-R	Collierville	TN	38017	901-974-1491
Irwin	Jack	Rt. 2, Box 401	Sweetwater	TN	37874	615-337-6903
Jacobs	Bobby	Double Bridges Rd.	Halls	TN	38040	901-836-7862
Johnson	Bill	P.O. Box 491	Greeneville	TN	37744	

TABLE 4

WOOD DUCK NEST BOX COOPERATORS

LAST NAME	FIRST	ADDRESS	CITY	STATE	ZIP	PHONE
Jones	Brad	Winged Deer Park	Johnson City	TN		
King	J.D.	2988 Hwy. 11 E.	Bluff City	TN	37618	
Laposki	Vince	617 W. Main St.	Morristown	TN	37814	
Leatherwood	Bob	1703 Hickory Point Way	Dandridge	TN		
Lingerfelt	Wayne	Rt. 2	Churchhill	TN	37642	
Lovell Jr.	Bill	521 Carta Rd.	Knoxville	TN		
Maines	Geri	Rt. 2, Box 361-B	Harriman	TN	37718	615-882-9659
Martin	Sharon	P.O. Box 281	Cookeville	TN	38503	615-528-6481
McDaniel	Jason	3163 W. A.J. Hwy.	Strawberry Plains	TN	37821	
McDougall	Wiley					
Moore	Gordon	Rt. 2, Box 65	Decatur	TN	37322	615-334-5501
Mull	Scott	3393 Maple Ave.	Strawplains	TN	37821	
Mullins	Jim	Rt. 3 Box 60	Limestone	TN	37681	
Nichols	Bob					
Oehmig	Dan	503 Pine Ave.	Lookout Mtn.	TN	37350	615-775-5438
Oehmig	Brit	407 E. 4th St.	Chattanooga	TN	37403	615-756-4118
Ozment	Jerry	4178 Hwy. 104 E.	Dyersburg	TN	38024	901-285-6662
Partridge	W.P.	9404 Viewpoint Lane	Knoxville	TN	37922	
Perkins	Harold	Rt. 1 Box 274G	Collierville	TN	38017	901-853-1622
Pool	John	5520 Tallant Rd.	Ooltewah	TN	37363	615-396-9243
Potts	Ron	295 Summar Ave.	Jackson	TN	38305	901-423-6600
Pride	Tom	Rt. 3, Box 178	Decatur	TN	37322	615-334-3575
Prinkle	Jimmy					
Puryear	Marshall	795 Lakewood Dr.	Jefferson City	TN	37760	
Rich	Wayne	P.O. Box 146	Dandridge	TN	37725	
Roberts	Sid	1111 Northshore Dr. Suite 575	Knoxville	TN	37919	
Roehl	Jay	1409 Timber Grove Dr.	Knoxville	TN	37919	
Schwiger	Paul	P.O. Box 686	Athens	TN	37303	615-745-9772
Seay	Wesley	7620 Sabre Dr.	Knoxville	TN	37919	
Simpson	Tracey	Rt. 1, Box 324	Niota	TN	37826	615-745-2385
Skeen	Terry	189 Fletcher Ct.	Maryville	TN	37804	
Smith	Bob	Jackson Exp. Station				
Standridge	Hugh	318 S. Oak St.	Sweetwater	TN	37874	615-337-6427
T.R.D.A.		59 Excellence Way	Vonore	TN	37885	
Vincent	Curtis	Rt. 2, Box 400	Sweetwater	TN	37874	
Walton	Joe	11060 Thornton Dr.	Knoxville	TN	37972	
Webb	Harold	Hiwassee River	Reliance	TN	37369	615-338-2373
Weeks	Hal	304 Sunset Rd.	Lookout Mtn.	TN	37350	615-821-6114
Wes	James	P.O. Box 606	Athens	TN	37303	615-745-1783
West	Jim	3113 Boright Dr.	Knoxville	TN	37917	
Wheeler	Willis					
Whetsell	Don	Rt. 2 Box 174A	Maynardville	TN	37807	
Williamson	Steve	306 S. Bell St.	Alamo	TN	38001	
Wilson	Kelley	1012 S. Dogwood	Maryville	TN	37801	
Winford	Doug	2201 Seven Spgs. Rd.	Cookeville	TN	38501	615-528-6481
Witt	Gary	121 Mt. Vista Dr.	Vonore	TN	37885	
Yeatman	Dana	123 Mornignside Dr.	Oak Ridge	TN	37830	

EVALUATION OF PRESUNRISE SHOOTING ON PROTECTED SPECIES DURING KENTUCKY AND TENNESSEE SEPTEMBER WOOD DUCK SEASONS

A Cooperative Study Conducted by:

Kentucky Department of Fish and Wildlife Resources
and
Tennessee Wildlife Resource Agency

Submitted:

May 1, 1992

EVALUATION OF PRESUNRISE SHOOTING ON NONTARGET SPECIES DURING KENTUCKY AND TENNESSEE SEPTEMBER WOOD DUCK SEASONS

ABSTRACT

Kentucky Department Fish and Wildlife Resources and Tennessee Wildlife Resource Agency evaluated the impact of presunrise shooting on nontarget species during the 1991 September wood duck season. The U.S. Fish and Wildlife Service elected to continue with daily shooting time beginning at one-half hour before sunrise (presunrise) for regular duck seasons, but, may restrict species specific seasons to sunrise pending results of this study. Concealed observers in Kentucky and Tennessee recorded shooting activities of 81 hunting groups during the September wood duck season to determine if hunters discriminated between target and nontarget species during one-half hour before sunrise versus one-half hour after sunrise. Nontarget species were shot at on 4 and 11 occasions in Kentucky and Tennessee, respectively. Forty-seven percent of the shots taken resulted in the illegal harvest of nontarget species. The number of times nontarget species were shot at varied by state but not by time period or the state * time interaction. The results of this study indicate hunters in Kentucky and Tennessee are able to discriminate between wood ducks and other protected waterfowl during the presunrise period. Because there are usually more opportunities to harvest wood ducks during this period continuation of presunrise shooting is recommended.

INTRODUCTION

The U.S. Fish and Wildlife Service (USFWS) has frequently revised shooting hour regulations in response to harvest management strategies since the inception of the Migratory Bird Treaty Act of 1918. The

principal functions of regulating shooting hours are to facilitate the retrieval of downed game and reduce accidental harvest of nontarget species. Traditionally, shooting hours are from one-half hour before sunrise to sunset. More restrictive shooting hours have been imposed during years of poor waterfowl production and subsequent reduced fall flights, the latest in 1988. In 1990, after evaluating available data on the subject, the USFWS proposed the following strategies for daily shooting times: 1) allow shooting to begin at one-half hour before sunrise during the regular duck season (presunrise shooting does not significantly contribute to the harvest of nontarget species or increase the daily harvest), 2) shooting time will begin at sunrise during species-specific seasons (to date no evidence is available to assess impact of presunrise shooting during special seasons), and 3) shooting hours will end at sunset daily (this insures ample light conditions exist for retrieval of downed game).

Kentucky Department of Fish and Wildlife Resources (KDFWR) and Tennessee Wildlife Resource Agency (TWRA) began experimental September duck seasons in 1981. Initially, the September season was open to the taking of all waterfowl species with daily bag limits designed to focus harvest on wood ducks (Aix sponsa) and blue-winged teal (Anas discors). In 1986, the wood duck daily bag limit was reduced from four to two because of concern for possible overharvest. The September season became a wood duck only season in 1988 when prairie nesting duck populations, including blue-winged teal, drastically declined and September seasons for prairie nesting species were suspended.

Shooting hours during Kentucky's and Tennessee's September seasons have

varied since initiation in 1981. Shooting was restricted to sunrise openings during first three years of the experimental season. Presunrise shooting was permitted from 1984 to 1987 to conform with regulations of the regular duck season. Shooting hours were again set to begin at sunrise in 1988, when restrictive harvest regulations were implemented. Since 1989, shooting hours have been one-half hour before sunrise to sunset in an effort to provide better hunting opportunity. The objective of KDFWR and TWRA was to examine presunrise shooting during the 1991 September wood duck season to evaluate the potential impact on nontarget species.

We would like to thank the staff of Kentucky Department of Fish and Wildlife Resources and Tennessee Wildlife Resource Agency for their assistance without which this study could not have been conducted. J. Sole, V. Anderson, R. Morton and D. Graber provided helpful reviews of previous drafts of this manuscript.

METHODS

Kentucky Study Area -- USFWS county harvest estimates for Kentucky indicate about 71% of the total duck harvest occurs in the western one-third of the state and about 87% west Interstate 65. Hunter survey data collected to evaluate the early September season indicate about 77% of the September wood duck harvest occurred in the western one-third of the state (Anderson 1984). Therefore, data collection was limited to the region west of Interstate 65. Study sites included KDFWR Wildlife Management Areas and private properties in nine counties: Ballard, Calloway, Henderson, Hopkins, Livingston, Muhlenberg, Ohio, Trigg and Union.

Tennessee Study Area -- Estimated distribution of the average annual

harvest of wood ducks in Tennessee indicates approximately 66% are taken in the western one-third of the state, but, wood duck hunting is occurs throughout the state. Therefore, observations were obtained statewide.

Habitat within both states vary considerably as you progress from the west to the east. Low gradient rivers, wide floodplains, sloughs, oxbow lakes, semipermanent inundated swamps, extensive seasonally flooded bottomland hardwoods and agricultural lands are common in the west. Eastern habitats are characterized by rivers and streams with moderate gradients, riparian forests, moderately wide floodplains, sloughs and oxbow wetlands. Most major rivers and many of the secondary tributaries are impounded in a series of reservoirs.

Data Collection -- Data was collected using spy blind procedures (Mikula et al. 1972). When possible observers were in place before hunting groups arrived. All hunting groups within the field of vision were observed from concealed positions at each site. Data was collected for the entire five day season. Because visibility differed substantially between locations observers made adjustments to insure accurate data could be collected. At least one observer competent in waterfowl identification was present at each position. Binoculars and/or spotting scopes were used to aid in species identification.

Observations began 30 minutes before sunrise or when the first shots were fired whichever occurred first and continued until 30 minutes after sunrise. Data for each study site included; location, date, beginning of legal shooting hours, number of blinds observed (or hunters) and number of hunters in each blind. The following information was collected for each blind/hunter; number of flocks or individual ducks (identified to species

when possible) passing within range, time shots fired, species shot at; number ducks downed, number ducks retrieved. Hunter bag checks were conducted in the field when possible, either at the end of the observation period or when a group prepared to leave the area.

Data were analyzed using PROC CATMOD procedures for logistic linear models (SAS Institute Inc.) to test for associations between states and period. The incidence of nontarget waterfowl shot at were weighted by number of opportunities (flocks within shotgun range) between periods for each state. We tested the null hypothesis; the number of incidents of shots taken at nontarget species during September wood duck seasons did not differ between the periods one-half before sunrise and one-half hour after sunrise.

RESULTS

Observers in the two states recorded a total of 480 individual or flocks (opportunities) of waterfowl that passed within shotgun range of 88 hunters/hunting parties during the September, 1991 wood duck season. Nine observations in Kentucky and 47 in Tennessee were subsequently excluded because observers were spotted or critical data (i.e. species, time shots fired, etc) were not recorded. This reduced the number of usable hunter groups to 81 with 424 potential shooting opportunities (table 1).

Wood ducks comprised greater than 72 percent of all shooting opportunities for each state (table 1). On occasions when shots were fired, wood ducks were the target species 95 percent of the time. The proportion of shooting opportunities comprised of wood ducks did not differ between one-half hour before sunrise and 30 minutes after sunrise. However, the total number of wood duck shooting opportunities differed

substantially between the two periods (table 1).

Nontarget waterfowl encountered were blue-winged teal, greened-winged teal (Anas crecca), mallards (A. platyrhynchos), gadwall (A. strepera), wigeon (A. americana) and Canada geese (Branta canadensis). The number of opportunities hunting groups had to shoot at nontarget waterfowl differed between states (table 2). Nontarget species totaled about 26 and 12 percent of the opportunities passing within range of hunters in Kentucky and Tennessee, respectively. Blue-winged teal were the most common protected waterfowl present during the September season in both states.

Shooting opportunities differed substantially between hunting groups and time periods. Some groups encountered only wood ducks while for others nontarget species made up almost all the opportunities. Two groups, one each in Kentucky and Tennessee did not shoot at any waterfowl during the observation period even though wood ducks and other species passed within shotgun range.

Examining hunter groups, 4 of 44 and 3 of 37 in Kentucky and Tennessee, respectively, shot at nontarget species. All 3 of the groups in Tennessee and 3 of 4 groups in Kentucky fired at these species during the presunrise period. One group in Kentucky shot at blue-winged teal within 5 minutes of legal sunrise in relatively good light conditions. One of the three in Tennessee shot at legal and illegal birds during both time periods.

All but three of the nontarget species shot at were blue-winged teal. One mallard and one killdeer (Charadrius vociferus) were also shot at in Tennessee and one wigeon was shot at in Kentucky. Two and five of the protected species were actually shot down during observations in Kentucky and Tennessee, respectively.

To better examine differences between periods, we examined the number of times protected waterfowl were shot at weighted by the number of shooting opportunities by period for each state. The number of protected species shot at varied by state (G^2 = 7.11, 1 df, P $\leq$ 0.008), but, not by period (G^2 = 1.81, 1 df, P = 0.179) or state*period interaction (G^2 = 2.37, 1 df, P = 0.124). Observers reported nontarget waterfowl were shot at about 2.5 times more often in Tennessee than Kentucky (table 2). Eight of the 11 incidents reported for Tennessee were the activities of one group.

DISCUSSION

Species composition of harvest may be influenced by when daily shooting time begins. Some species may be more available during the presunrise period. Many waterfowl species tend to be most active during these periods (Paulus 1988). Examination of federal harvest estimates for 1988 and 1989 waterfowl seasons indicate the harvest of wood ducks (bag limits constant between years) increased about 21% between years when sunrise and presunrise shooting periods were offered, respectively. Reynolds (1990) examined harvest summary data from Carney (1975) and concluded presunrise shooting may account for up to 21% of the total wood duck harvest during the regular duck season.

Our study found wood ducks comprised about 74% of the total shooting opportunities during both periods. However, the number of wood duck shooting opportunities differed substantially between periods. There were 3X as many opportunities to shoot at wood ducks during the presunrise period than the period 30 minutes after sunrise.

The total proportion of instances in which protected species were fired

upon in this study were lower than that reported for September teal (Martinson et al. 1966) and special scaup (Blandin 1981) seasons. Observers in our study reported 2.5% of the birds downed by hunters were illegal species compared to 6.4% reported for the September teal season (Martinson et al. 1966).

Instances of shots fired at illegal waterfowl during both time periods were comparable to the total illegal kill of other special seasons (Blandin 1981, Martinson et al. 1966). The proportion of protected species fired at in Kentucky during the presunrise period was actually less than during the post-sunrise period, though not significantly. In Tennessee, the difference between time periods was almost exclusively attributed to one group of hunters which shot indiscriminately throughout the observation period. When this group was removed and the data reexamined little difference between states or shooting periods was observed.

Our data indicated presunrise shooting during the September wood duck season had little impact on protected species and may help to focus harvest on the target species by allowing hunters to take wood ducks during the presunrise period when more opportunities exist. The indiscriminate shooting by one group of hunters in Tennessee does not reflect the selectivity exhibited by other groups observed during this study. Four of the seven groups that did attempt to take illegal birds shot at only one flock even though others passed within range which appears to indicate they too tried to identify species before shooting.

Violations of migratory bird regulations are a major concern to federal and state wildlife agencies. Data obtained from spy-blinds revealed about 20% of observed hunting parties violated regulations (Mikula et al. 1972,

Hopper et al. 1975). Shooting hour violations, before and after legal shooting time, were the most common infractions (Mikula et al. 1972, Hopper et al. 1975, Reynolds 1990). Hopper et al. (1975) reported most violations occurred within 5 minutes of the shooting hour frameworks and may not constitute intentional violations.

Shooting hour violations may be a function of opportunity. Prior to the 1988-89 change to a sunrise opening, the number of waterfowl shot or shot at before the legal shooting time of one-half hour before sunrise comprised only about 2% of the total shots taken for Maryland hunters (Reynolds 1984). However, this figure more than doubled during the 1988-89 hunting season when legal shooting time started at sunrise (Reynolds 1990). Prudent waterfowl management balances harvest opportunity with species protection. When possible regulations should be structured to reduce the potential for violation while achieving management objectives.

CONCLUSIONS

The results of this study indicate hunters are able to discriminate between wood ducks and other species during the presunrise period of Kentucky's and Tennessee's September wood duck season. Shooting violations that occurred appear to be the act of indiscriminate shooting and probably would have occurred during either time period provided the opportunity was available. Limiting shooting hours to sunrise would be an unnecessary regulation that may encourage violations because of ample opportunities to take legal waterfowl and the hunters' recognition that these opportunities will diminish rapidly after sunrise. Therefore we recommend continuation of the one-half hour before sunrise shooting time for September wood duck seasons in Tennessee and Kentucky.

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Table 1. Number of blinds and waterfowl shooting opportunities by state and time periods during the 1991 September wood duck season.

State	Blinds Observed	Number of Opportunities	Time Period			
			Presunrise(%)		Postsunrise(%)	
			Wood Duck	Other	Wood Duck	Other
Kentucky	44	281	55.9	22.8	18.5	5.0
Tennessee	37	143	62.9	11.2	22.4	3.5
Total	81	424	58.2	18.9	19.8	4.5

[a]Others include gadwall, green-winged teal, wigeon and Canada geese.

Table 2. Number of hunter groups, opportunities to shoot at and shots taken at nontarget waterfowl observed during Kentucky's and Tennessee's 1991, September wood duck season.

State	Number of Hunting Groups Observed	Before Sunrise		After Sunrise		Total	
		Number of Opportunities	Shots Taken (%)	Number of Opportunities	Shots Taken (%)	Number of Opportunities	Shots Taken(%)
Kentucky	44	64	4.7	14	7.1	78	5.1
Tennessee	37	16	56.2	5	20.0	21	47.6
Total	81	80	15.0	19	10.5	99	14.1

WOOD DUCK HUNTING OBSERVATIONS
TENNESSEE - 1991 SEASON

Region	Date	Legal Hour	Obser Begin	Obser End	Hab. Type	Visi-bility	Weather	# of Hntrs	Ducks In Range	Species #	Species ID	# Shots	Time Shot Fired	Harvest #	Harvest ID	Retrieved #	Retrieved ID	Comments
I	9-14-91	6:15	6:30	8:00	W.SL.	G	C, Hot	2	Y	1	WD	1	6:30	1	WD	1		
I	9-14-91	6:15	6:30	8:00	W.SL.	G	C, Hot	2	Y	3	WD	0	6:35	0		0		
I	9-14-91	6:00	5:30	8:00	L	P	Fog	3	Y	0	WD	9	6:20	3	WD	2	WD	
I	9-14-91	6:00	5:30	8:00	L	P	Fog	3	Y	?	WD	8	7:15	2	WD	2	WD	
I	9-14-91	6:00	5:30	8:00	L	P	Fog	4	Y	?	WD	8	6:15	1	WD	1	WD	
I	9-14-91	6:00	5:30	8:00	L	P	Fog	4	Y	?	WD	7	7:45	2	WD	2	WD	
I	9-14-91	6:00	5:30	6:20	L	P	Fog	1	Y	1	WD	1	6:05	1	WD	1	WD	
I	9-14-91	6:00	5:30	6:20	L	P	Fog	1	Y	1	WD	1	6:15	1	WD	1	WD	
I	9-14-91	6:12	5:45	7:30	W.SL.	F	Clear	2	Y	3	WD	3	7:15	0		0		
I	9-14-91	6:12	5:45	7:30	W.SL.	G	Clear	2	Y	1	WD	3	7:20	0		0		Citation - 1 hunter - Unplugged gu
I	9-14-91	6:12	5:45	7:30	W.SL.	F	Clear	2	N	3	WD	0	6:40	0		0		
I	9-14-91	6:12	5:45	7:30	W.SL.	F	Clear	2	Y	3	WD	3	6:47	0		0		
I	9-14-91	6:12	5:45	7:30	W.SL.	F	Clear	2	Y	3	WD	5	6:33	2		2		
I	9-14-91	6:12	5:45	7:30	W.SL.	F	Clear	2	Y	1	WD	4	6:35	0		0		Shots, one hunter limited
I	9-14-91	6:12	5:45	7:30	W.SL.	F	Clear	2	Y	5	WD	6	6:29	1	WD	1	WD	
I	9-14-91	6:12	5:45	7:30	W.SL.	F	Clear	2	N	1	Gad	0	6:30	0		0		
I	9-14-91	6:12	5:45	7:30	W.SL.	F	Clear	2	Y	3	WD	3	6:23	1	WD	1	WD	
I	9-14-91	6:12	5:45	7:30	W.SL.	F	Clear	2	Y	1	Gad	0	6:24	0		0		
I	9-14-91	6:12	5:45	7:30	W.SL.	F	Clear	2	Y	6	WD	6	6:30	2	WD	2	WD	Father Quit Son Continued
I	9-14-91	6:12	5:45	7:30	W.SL.	F	Clear	2	Y	2	WD	3	6:33	0		0		
I	9-14-91	6:12	5:45	7:30	W.SL.	F	Clear	2	Y	1	WD	3	6:40	0		0		
I	9-14-91	6:12	5:45	7:30	W.SL.	F	Clear	2	Y	3	WD	3	6:43	0		0		
I	9-14-91	6:12	5:45	7:30	W.SL.	F	Clear	2	Y	1	WD	2	7:00	0		0		
I	9-14-91	6:12	5:45	7:30	W.SL.	F	Clear	2	Y	3	WD	1	7:06	1	WD	1	WD	
I	9-14-91	6:12	5:45	7:30	W.SL.	G	Clear	2	N	3	WD	0	6:20	0		0		
I	9-14-91	6:12	5:45	7:30	W.SL.	G	Clear	2	Y	3	WD	2	6:22	0		0		
I	9-14-91	6:12	5:45	7:30	W.SL.	G	Clear	2	Y	2	WD	2	6:24	1	WD	1	WD	
I	9-14-91	6:12	5:45	7:30	W.SL.	G	Clear	2	Y	1	Gad	0	6:24	0		0		
I	9-14-91	6:12	5:45	7:30	W.SL.	G	Clear	2	Y	6	WD	4	6:30	1	WD	1	WD	One hunter put gun up
I	9-14-91	6:12	5:45	7:30	W.SL.	G	Clear	2	Y	1	WD	3	6:40	1	WD	1	WD	
I	9-14-91	6:12	5:45	7:30	W.SL.	G	Clear	2	Y	4	WD	2	6:45	0		0		
I	9-14-91	6:12	5:45	7:30	W.SL.	G	Clear	2	Y	1	WD	3	6:48	0		0		
I	9-14-91	6:03	6:10	7:00	L	F	Fog	2	Y	1	BWT	3	6:12	1	BWT	1	BWT	Previous baited, bait gone
I	9-14-91	6:03	6:10	7:00	L	F	Fog	2	Y	3	BWT	4	6:17	0		0		
I	9-14-91	6:03	6:10	7:00	L	F	Fog	2	Y	3	BWT	6	6:18	0		0		
I	9-14-91	6:03	6:10	7:00	L	F	Fog	2	Y	2	BWT	0	6:19	0		0		Hunters did not see birds
I	9-14-91	6:03	6:10	7:00	L	F	Fog	2	Y	2	BWT	6	6:23	1	BWT	1	BWT	
I	9-14-91	6:03	6:10	7:00	L	F	Fog	2	Y	1	BWT	4	6:24	0		0		
I	9-14-91	6:03	6:10	7:00	L	F	Fog	2	Y	3	BWT	3	6:26	1	BWT	1	BWT	Hunter thought female WD
I	9-14-91	6:03	6:10	7:00	L	F	Fog	2	Y	?	Killd	?	?	2	KD	0		Knew were not ducks like Black
I	9-14-91	6:10	5:30	9:00	W.SL.	F	Lt.Fog	3	?	15	WD	9	7:45	3	WD	3	WD	
I	9-14-91	6:10	6:15	8:00	P	F	Lt.Fog	3	Y	?		?	6:15	?		2	WD	2 Citations, No Fed. Duck Stamp
I	9-14-91	6:03	6:03	7:00	L	G	Clear	2	Y	1	WD	3	6:40	1	WD	1	WD	
I	9-14-91	6:03	6:03	7:00	L	G	Clear	2	Y	1	WD	1	7:00	1	WD	1	WD	
I	9-14-91	6:03	6:06	7:20	L	G	Clear	2	Y	2	WD	4	6:07	1	WD	1	WD	
I	9-14-91	6:03	6:06	7:20	L	G	Clear	2	Y	1	WD	1	6:20	1	WD	1	WD	
I	9-14-91	6:03	6:03	7:03	L	G	Clear	2	Y	1	WD	3	6:50	1	WD	1	WD	

WOOD DUCK HUNTING OBSERVATIONS
TENNESSEE - 1991 SEASON

Region	Date	Legal Hour	Obser Begin	Obser End	Hab. Type	Visi-bility	Weather	# of Hntrs	Ducks In Range	Species #	Species ID	# Shots	Time Shot Fired	Harvest #	Harvest ID	Retrieved #	Retrieved ID	Comments
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	4	WD	13	7:10	2	WD	0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	5	WD	7	6:54	0		0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	2	WD	2	7:04	0		0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	2	WD	4	6:10	0		0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	2	WD	4	6:12	2	WD	2	WD	
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	1	WD	1	6:13	1	WD	1	WD	
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	2	WD	4	6:14	0		0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	2	WD	4	6:15	0		0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	1	WD	1	6:15	1	WD	1	WD	
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	1	WD	2	6:15	1	WD	1	WD	
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	1	WD	2	6:16	0		0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	2	WD	8	6:17	0		0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	4	WD	6	6:17	0		0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	1	WD	1	6:17	0		0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	1	WD	1	6:18	0		1	WD	
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	1	WD	2	6:18	1	WD	0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	1	WD	2	6:19	0		0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	1	WD	3	6:20	0		0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	1	WD	3	6:20	0		0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	1	WD	1	6:20	0		0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	1	WD	2	6:21	0		0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	2	WD	5	6:21	0		1	WD	
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	5	WD	7	6:22	1	WD	1	WD	
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	1	WD	3	6:23	1	WD	1	WD	
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	1	WD	3	6:23	1	WD	1	WD	
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	3	WD	9	6:25	2	WD	0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	2	WD	9	6:29	1	WD	0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	1	WD	4	6:31	1	WD	0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	1	WD	1	6:35	0		0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	2	WD	3	6:39	1	WD	0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	6	WD	4	6:42	0		0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	3	WD	5	6:42	1	WD	0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	3	WD	12	6:45	0		0		
I	9-14-91	6:04	6:00	7:20	L	G	Clear	8	Y	3	WD	11	6:50	0		0		
I	9-14-91	6:07	5:30	6:20	L	G	Clear	2	Y	4	WD	4	6:07	1	WD	1	WD	
I	9-14-91	6:07	5:30	6:20	L	G	Clear	2	Y	7	WD	5	6:08	2	WD	1	WD	
I	9-14-91	6:07	5:00	6:20	W.S.L.	G	Clear	4	Y	4	WD	5	6:15	1	WD	1	WD	
I	9-14-91	6:07	5:00	6:20	W.S.L.	G	Clear	4	Y	5	WD	7	6:17	2	WD	1	WD	
I	9-14-91	6:07	5:00	6:25	W.S.L.	G	Clear	2	Y	4	BWT	3	6:10	1	BWT	1	BWT	Citation
I	9-14-91	6:07	5:00	6:25	W.S.L.	G	Clear	3	Y	5	BWT	4	6:09	0		0		Hunter ordered to leave
I	9-14-91	6:07	5:00	6:18	W.S.L.	G	Clear	3	Y	2	WD	2	6:04	0		0		
I	9-14-91	6:07	5:00	6:18	W.S.L.	G	Clear	4	Y	4	WD	4	6:06	2	WD	1	WD	
I	9-14-91	6:07	5:00	8:07	O.S.L.	F	EFog/Clea	2	Y	1	WD	1	6:28	1	WD	1	WD	
I	9-14-91	6:07	5:00	8:07	O.S.L.	F	EFog/Clea	2	N	1	WD	0	0	0		0		
I	9-14-91	6:07	5:00	8:07	O.S.L.	F	EFog/Clea	2	Y	1	WD	1	6:25	1	WD	1	WD	
I	9-14-91	6:05	6:30	7:45	W.S.L.	G	Clear	2	Y	3	WD	2	6:45	3	WD	3	WD	
I	9-14-91	6:05	5:30	7:00	W.S.L.	G	Clear	3	Y	4	WD	6	6:06	2	WD	2	WD	

WOOD DUCK HUNTING OBSERVATIONS
TENNESSEE - 1991 SEASON

Region	Date	Legal Hour	Obser Begin	Obser End	Hab. Type	Visi-bility	Weather	# of Hntrs	Ducks In Range	Species #	Species ID	# Shots	Time Shot Fired	Harvest #	Harvest ID	Retrieved #	Retrieved ID	Comments
I	9-14-91	6:05	5:30	7:00	W.S.L.	G	Clear	3	Y	2	WD	4	6:23	0		0		Hunter late in seeing
I	9-14-91	6:07	5:00	6:20	W.S.L.	G	Clear	3	N	2	WD	0	-	0		0		
I	9-14-91	6:07	5:00	6:20	W.S.L.	G	Clear	2	Y	3	WD	4	6:11	1	WD	1	WD	
I	9-14-91	6:07	5:00	6:20	W.S.L.	G	Clear	4	Y	3	WD	5	6:18	2	WD	2	WD	
I	9-14-91	6:07	5:00	6:20	W.S.L.	G	Clear	2	Y	2	WD	5	6:16	0		0		
I	9-15-91	6:15	6:15	7:15	W.S.L.	G	Clear	0	Y	1	WD	0	6:30	0		0		
I	9-15-91	6:15	6:15	7:15	W.S.L.	G	Clear	2	Y	6	WD	2	6:32	0		0		
I	9-15-91	6:15	6:15	7:15	W.S.L.	G	Clear	1	Y	4	WD	1	6:37	1	WD	0		Duck flew off, dog
I	9-15-91	6:15	6:15	7:15	W.S.L.	G	Clear	0	Y	3	WD	0	6:40	0		0		
I	9-15-91	6:15	6:15	7:15	W.S.L.	G	Clear	1	Y	6	WD	1	6:45	0		0		
I	9-15-91	6:15	6:15	7:15	W.S.L.	G	Clear	0	Y	3	WD	0	6:55	0		0		
I	9-15-91	6:10	6:00	9:00	O.S.L.	G	Clear	5	Y	5	WD	5	7:45	2	WD	2	WD	
I	9-15-91	6:07	5:45	6:30	W.S.L.	G	Clear	5	Y	2	WD	5	6:09	3	WD	3	WD	
I	9-15-91	6:05	5:25	7:12	L	G	Clear	2	Y	2	WD	2	6:14	0		0		
I	9-15-91	6:05	5:25	7:12	L	G	Clear	0	Y	5	WD	0	6:17	0		0		
I	9-15-91	6:05	5:25	7:12	L	G	Clear	0	Y	3	WD	0	6:18	0		0		
I	9-15-91	6:05	5:25	7:12	L	G	Clear	2	Y	4	WD	2	6:20	0		0		
I	9-15-91	6:05	5:25	7:12	L	G	Clear	1	Y	1	WD	1	6:23	1	WD	1	WD	
I	9-15-91	6:05	5:25	7:12	L	G	Clear	0	Y	3	WD	0	6:27	0		0		
I	9-15-91	6:05	5:25	7:12	L	G	Clear	0	Y	2	WD	0	6:52	0		0		Hunter looking in opposite directi
II	9-14-91	5:58	5:45	7:45	Pond	P	Fog	4	Y	4	WD	3	6:42	0		0		
II	9-14-91	5:58	5:45	7:45	Pond	F	Fog	4	Y	2	WD	5	7:12	1	WD	0		Crippled WD, dove, didn't come up
II	9-14-91	5:58	5:45	7:45	Pond	F	Fog	4	Y	1	WD	2	7:30	0		0		
II	9-14-91	5:58	5:00	8:30	L	G	P. Cloudy	2	Y	?		3	6:30	1	WD	1	WD	
II	9-14-91	5:58	5:36	6:58	W.S.L.	P	Fog	1	Y	?		0		0		0		
II	9-14-91	5:50	5:45	7:00	L	F	Clear	4	Y	1	WD	2	6:12	1	WD	1	WD	
II	9-14-91	5:50	5:45	7:00	L	G	Clear	4	N	3	WD	0	6:50	0		0		
II	9-14-91	5:50	5:45	7:00	L	P	Fog	4	Y	1	WD	3	6:05	1	WD	1	WD	
II	9-14-91	5:50	5:45	7:00	L	F	Clearing	4	N	3	WD	0						Call at Mallard
II	9-14-91	5:58	5:50	7:00	L	P	Fog	8	Y	?		10	6:12	10	WD	10	WD	
II	9-14-91	5:58	5:50	7:00	L	P	Fog	8	Y	?		8	6:21	6	WD	6	WD	
II	9-14-91	5:58	5:50	7:00	L	P	Fog	2	Y	3	WD	5	6:48	0		0		
III	9-14-91	5:58	5:45	8:15	W.S.L.	G	P. Cloudy	2	Y	1	WD	1	6:00	1	WD	1	WD	
III	9-14-91	5:58	5:58	6:58	Swamp	G	P.C.	2	Y	1	WD	1	6:40	0		0		
III	9-14-91	5:58	5:58	6:58	Swamp	G	P.C.	1	Y	1	WD	1	6:20	14	WD	1	WD	
III	9-14-91	5:58	5:58	6:58	Swamp	G	P.C.	1	Y	1	WD	3	6:30	1	WD	1	WD	
III	9-14-91	5:58	5:58	6:58	Swamp	G	P.C.	1	Y	2	WD	0	6:40	0		0		
III	9-14-91	5:58	5:58	6:58	Swamp	G	P.C.	2	Y	3	WD	3	6:30	1	WD	1	WD	
III	9-14-91	5:50	5:58	6:58	Swamp	G	P.C.	2	Y	1	WD	1	6:35	1	WD	1	WD	
III	9-14-91	6:15	6:30	9:30	W.S.L.	G	Clear	2	Y	1	WD	4	8:05	1	WD	1	WD	Good Dog
III	9-14-91	6:15	6:30	9:30	W.S.L.	G	Clear	2	Y	2	WD	3	9:20	1	WD	1	WD	Good Dog
III	9-14-91	5:29	5:45	10:30	L	G	Clear	1	Y	2	WD	22	6:15	0		0		
III	9-14-91	6:52	6:40	9:45	W.S.L.	F	Fog	2	Y	3	WD	5	7:29	3	WD	3	WD	
III	9-14-91	6:52	6:40	9:45	W.S.L.	F	Fog	2	Y	11	CG	0	7:34	0		0		
III	9-14-91	6:52	6:40	9:45	W.S.L.	F	Fog	2	Y	17	CG	0	7:42	0		0		

WOOD DUCK HUNTING OBSERVATIONS
TENNESSEE - 1991 SEASON

Region	Date	Legal Hour	Obser Begin	Obser End	Hab. Type	Visi-bility	Weather	# of Hntrs	Ducks In Range	Species #	Species ID	# Shots	Time Shot Fired	Harvest #	Harvest ID	Retrieved #	Retrieved ID	Comments
III	9-14-91	6:52	6:40	9:45	W.S.L.	F	Fog	2	Y	2	M	0	8:02	0		0		
III	9-14-91	6:58	6:30	9:30	O.S.L.	F	Fog	2	Y	1	HM	2	7:03	1	HM	0		After hunter left duck area
III	9-14-91	6:53	6:45	8:00	W.S.L.	F	P.C.	3	Y	7	WD	10	7:07	2	WD	2	WD	
III	9-14-91	6:53	6:45	8:00	W.S.L.	F	P.C.	2	Y	8	WD	6	7:05	0		0		
III	9-14-91	6:53	6:45	8:00	W.S.L.	F	P.C.	2	Y	4	WD	6	7:08	1	WD	1	WD	
III	9-14-91	6:12	6:00	7:12	W.S.L.	F	Clear	3	Y	2	WD	4	6:24	1	WD	1	WD	
III	9-14-91	6:12	6:00	7:12	W.S.L.	F	Clear	3	Y	8	WD	6	6:33	4	WD	4	WD	
III	9-14-91	6:12	6:00	7:12	W.S.L.	F	Clear	3	Y	6	M	0	6:40	0		0		
III	9-14-91	6:12	6:00	7:12	W.S.L.	F	Clear	3	Y	3	W	1	6:50	1	WD	1	WD	
III	9-14-91	5:50	5:30	10:28	L	G	Clear	1	Y	37/6	BWT/W	2	6:12	0		0		
III	9-14-91	5:50	5:30	10:28	L	G	Clear	1	Y	14	BWT	0	6:18	0		0		
III	9-14-91	5:50	5:30	10:28	L	G	Clear	1	Y	9	M	0	6:48	0		0		
III	9-14-91	5:50	5:30	10:28	L	G	Clear	1	Y	5	Coot	0	7:03	0		0		
III	9-14-91	5:50	5:30	10:28	L	G	Clear	1	N	3	M	0	7:40	0		0		
III	9-14-91		6:30	7:45	W.S.L.	G	Clear	3	Y	1	WD	5	7:00	0		0		
III	9-14-91		6:30	7:45	W.S.L.	G	Clear	3	Y	3	WD	4	7:05	0		0		
III	9-14-91		6:30	7:45	W.S.L.	G	Clear	3	Y	1	WD	3	7:07	0		0		
III	9-14-91		6:30	7:45	W.S.L.	G	Clear	3	Y	6	WD	8	7:09	0		0		
III	9-14-91		6:30	7:45	W.S.L.	G	Clear	3	Y	1	WD	4	7:10	1	WD	1	WD	
III	9-14-91		6:30	7:45	W.S.L.	G	Clear	3	Y	6	WD	5	7:15	1	WD	1	WD	
III	9-14-91		6:30	7:45	W.S.L.	G	Clear	3	Y	6	BWT	0	7:20	0		0		
III	9-14-91		6:30	7:45	W.S.L.	G	Clear	3	Y	3	WD	6	7:20	1	WD	1	WD	
III	9-14-91		6:30	7:45	W.S.L.	G	Clear	3	Y	1	WD	4	7:27	0		0		
III	9-14-91		6:30	7:45	W.S.L.	G	Clear	3	Y	2	WD	5	7:32	2	WD	2	WD	
III	9-15-91	5:58	5:45	7:45	W.S.L.	F	Fog	3	Y	1	WD	3	6:10	1	WD	1		
III	9-15-91	6:15	6:30	9:30	W.S.L.	F	Fog	5	Y	2	WD	5	7:35	1	WD	1		
III	9-15-91	6:15	6:30	9:30	W.S.L.	F	Fog	2	Y	1	WD	2	8:10	1	WD	1		
III	9-15-91	5:58	5:30	7:00	Swamp	F	P.C.	1	Y	1	WD	1	6:14	0		0		
III	9-15-91	5:58	5:30	7:00	Swamp	F	P.C.	1	Y	1	WD	1	6:16	1	WD	1		
III	9-15-91	5:58	5:30	7:00	Swamp	F	P.C.	1	Y	1	WD	1	6:22	1	WD	1		
III	9-15-91	5:59	5:45	11:00	G	G	Clear	0	N	2	WD	0	6:10	0		0		
III	9-15-91	5:50	5:40	8:39	G	G	Clear	0	Y	3	Mall	0	6:14	0		0		
III	9-15-91	5:50	5:40	8:39	G	G	Clear	0	N	1	Merg	0	7:18	0		0		
III	9-15-91	5:50	5:40	8:39	G	G	Clear	0	Y	5	Mall	0	8:03	0		0		
III	9-16-91	5:59	5:45	8:30	W.S.L.	P	Fog	2	Y	2	WD	4	7:15	2	WD	2	WD	
III	9-16-91	5:59	5:45	8:30	W.S.L.	P	Fog	2	Y	3	WD	2	8:00	0		0		
III	9-16-91		6:00	7:30	O.S.L.	G	Clear	2	N	Birds Flying								
IV	9-14-91	6:47	6:30	7:17	Pond	F	-	2	Y	18	Mall	0	6:37	0		0		
IV	9-14-91	6:47	6:30	7:17	Pond	F	-	2	Y	2	WD	0	6:40	0		0		
IV	9-14-91	6:47	6:30	7:17	Pond	G	-	2	Y	12	WD	6	6:50	3	WD	3	WD	
IV	9-14-91	6:47	6:30	7:17	Pond	F	-	2	Y	5	WD	3	7:00	1	WD	1	WD	
IV	9-14-91	6:47	6:35	8:30	River	G	Clear	2	Y	2	WD	2	6:58	0		0		
IV	9-14-91	6:47	6:35	8:30	River	G	Clear	2	Y	1	WD	3	7:07	1	WD	1	WD	
IV	9-14-91	6:47	6:35	8:30	River	G	Clear	5	Y	2	WD	5	6:55	0		0		
IV	9-14-91	6:47	6:35	8:30	River	G	Clear	5	Y	1	WD	6	7:09	0		0		
IV	9-14-91	6:47	5:45	7:15	W.S.L.	P	Fog	2	N	?		0						Citation, no running lites

WOOD DUCK HUNTING OBSERVATIONS
TENNESSEE - 1991 SEASON

Region	Date	Legal Hour	Obser Begin	Obser End	Hab. Type	Visi-bility	Weather	# of Hntrs	Ducks In Range	Species #	Species ID	# Shots	Time Shot Fired	Harvest #	Harvest ID	Retrieved #	Retrieved ID	Comments
IV	9-14-91	6:47	5:45	7:15	W.S.L.	P	Fog	2	N	?		0						Citation, no running lites
IV	9-14-91	6:47	5:45	7:15	River	P	Fog	2	N	?		0						Citation, lead shot
IV	9-14-91	6:47	5:45	7:15	River	P	Fog	2	N	?		0						
IV	9-14-91																	
IV	9-15-91	6:47	5:45	7:30	River	P	Fog	2	Y	10	WD	8	6:45	3	WD	3	WD	
IV	9-15-91	6:48	6:30	7:20	River	F	-	2	Y	4	WD	0	7:00	0		0		Did not see in time
IV	9-15-91	6:48	6:30	7:20	Pond	G	-	3	Y	6	WD	8	7:00	3	WD	3	WD	
IV	9-15-91	6:48	6:30	7:20	Pond	G	-	3	Y	15	WD	5	7:15	3	WD	3	WD	
								594		547		588		156		129		

STATEWIDE

Observations		=	192
No Wood Ducks in Range		=	288
No Wood Duck Opportunity	=	=	151 times
No Gadwall in Range	=	=	3
No Gadwall Opportunity	=	=	3 times
No BWT in Range		=	81
No BWT Opportunity		=	12 times
No Mallrd in Range		=	47
No Mallard Opportunity		=	8 times
No Canadian Geese in Range		=	26
No Canadian Geese Opportunity		=	2 times
No Coot in Range		=	5
No Coot Opportunity		=	1 times
No Wood Duck in Range		=	129
No Wood Duck Opportunity		=	119

638 People (Repetitions)

VIOLATIONS

1 Hunter	No Plug in Gun
1 Hunter	Lead Shot in Possession
2 Hunters	No Federal Duck Stamp
2 Hunters	No Running Lites
1 Hunter	Killed (1) Hen Mallard at 7:03
1 Hunter	Shot (1) BWT
2 Hunters	Shot 6x at BWT, killed 3 BWT, killed 2 Killdeer
3 Hunters	Shot at BWT - warned

7\lotus\wfrept91\wdmont

WATERFOWL INVENTORIES

MIDWINTER WATERFOWL INVENTORIES -- TENNESSEE

YEAR	MALLARDS #	MALLARDS % OF TOTAL	BLACK DUCKS #	BLACK DUCKS % OF TOTAL	ALL DABBLING DUCKS #	ALL DABBLING DUCKS % OF TOTAL	ALL DIVING DUCKS #	ALL DIVING DUCKS % OF TOTAL	ALL DUCKS #	ALL DUCKS % OF TOTAL	CANADA GOOSE* #	CANADA GOOSE* % OF TOTAL
1955-56	107,900	2.9%	11,200	6.3%	151,800	3.3%	24,300	4.8%	176,100	3.4%	N/A	N/A
1956-57	170,000	3.3%	9,300	4.4%	201,100	3.0%	51,100	12.4%	252,200	3.6%	N/A	N/A
1957-58	354,100	6.7%	20,000	8.6%	408,700	6.0%	25,600	4.3%	434,300	5.9%	N/A	N/A
1958-59	486,400	12.1%	18,900	7.1%	565,400	9.2%	42,600	8.8%	608,000	9.2%	N/A	N/A
1959-60	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	1.7%	281,600	6.2%	49,300	6.1%
1984-85	160,000	11.1%	32,800	53.5%	208,300	6.3%	5,200	0.9%	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%

AVERAGES:

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-	184,350	7.4%	14,830	30.3%	212,018	3.7%	16,377	4.1%	228,395	3.8%	47,052	2.8%
1955-91	288,438	8.0%	36,556	28.3%	357,979	6.2%	17,716	2.0%	375,695	5.6%	35,266	6.4%

% of total = % of total Misssissippi Flyway inventory counted in Tennessee
Duck data taken from January surveys
Canada geese data taken from December surveys
Source: Compiled from USFWS reports

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TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=SEP 1-15

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
II	CHEATHAM RES	0	0	0	192	192	0	0	0
	NORMANDY RES	0	0	0	496	496	0	0	0
	OLD HICKORY RES	0	0	0	1139	1139	0	0	0
	TIMS FORD RES	0	0	0	680	680	0	0	0
	WOODS RES	0	0	0	258	258	0	0	0
	SUBTOTAL	0	0	0	1139	1139	0	0	0
III	AREA								
	CORDELL HULL RES	0	0	0	79	79	0	0	0
	SUBTOTAL	0	0	0	79	79	0	0	0
STATE TOTAL		0	0	0	1139	1139	0	0	0

Some areas conducted more than one survey per survey period.
Numbers reflect maximum observed during one survey.

TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=OCT 1-15

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	BARKLEY WMA (I)	0	0	0	0	0	0	0	0
	BARKLEY WMA (II)	367	0	367	173	173	0	0	0
	BIG SANDY TNWR	589	0	589	385	385	0	0	0
	BIG SANDY WMA	0	0	0	0	0	0	0	0
	BUSSELTOWN TNWR	55	0	55	25	25	0	0	0
	CAMDEN WMA	0	0	0	0	0	0	0	0
	CROSS CREEKS NWR	1679	20	1699	695	695	0	4	0
	DUCK RIVER TNWR	4145	0	4145	720	724	0	0	0
	HARMONS CREEK WMA	0	0	0	0	0	0	0	0
	KENTUCKY RES	488	0	488	0	0	0	150	0
	WEST SANDY WMA	75	0	75	0	0	0	0	0
	WHITE OAK WMA	75	0	75	0	0	0	0	0

(CONTINUED)

Some areas conducted more than one survey per survey period.
Numbers reflect maximum observed during one survey.

TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=OCT 1-15

		DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
REGION	SUBTOTAL								
I		4145	20	4145	720	724	0	150	0
IV	AREA								
	CHEROKEE LAKE	55	0	55	165	165	0	0	0
	SUBTOTAL	55	0	55	165	165	0	0	0
STATE TOTAL		4145	20	4145	720	724	0	150	0

Some areas conducted more than one survey per survey period.
Numbers reflect maximum observed during one survey.

TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=OCT 16-31

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	A T WMA	65	0	65	0	0	0	0	0
	BEAN SWITCH REF	0	0	0	0	0	0	0	0
	BIG SANDY TNWR	995	0	1045	570	570	0	210	0
	BUSSELTOWN TNWR	322	0	322	0	0	0	0	0
	CHICKASAW NWR	62	20	82	0	0	0	0	0
	CROSS CREEKS NWR	4117	2	4118	654	654	0	4	0
	DUCK RIVER TNWR	5748	0	5748	965	965	0	570	0
	FORKED DEER (MF)	14	0	14	0	0	0	0	0
	FORKED DEER (SF)	25	0	25	5	5	0	0	0
	GOOCH WMA	0	0	0	0	0	0	0	0
	HATCHIE NWR	0	0	0	15	15	0	0	0
	HOP-IN REF	0	0	0	0	0	0	0	0

(CONTINUED)

Some areas conducted more than one survey per survey period.
Numbers reflect maximum observed during one survey.

TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=OCT 16-31

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	HORNS BLUFF	34	0	34	0	0	0	0	0
	LAUDERDALE REF	0	0	0	0	0	0	0	0
	LOWER HATCHIE NWR	0	0	0	0	0	0	0	0
	MANESS SWAMP	0	0	0	0	0	0	0	0
	MOSS ISLAND	78	0	78	0	0	0	0	0
	OBION RIVER	15	0	15	0	0	0	0	0
	OBION/FORKED DEER R	265	0	265	0	0	0	0	0
	OPEN LAKE	61	0	61	0	0	0	0	0
	REELFOOT REF	0	0	0	0	0	0	0	0
	REELFOOT WMA	0	0	2867	0	0	0	415	0
	REELFOOT/LAKE ISOM	0	0	6420	0	0	0	0	2
	RICE WMA	0	0	0	0	0	0	0	0

(CONTINUED)

Some areas conducted more than one survey per survey period.
Numbers reflect maximum observed during one survey.

TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=OCT 16-31

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	SUNK LAKE	17	0	17	0	0	0	0	0
	TIGRETT WMA	17	0	17	0	0	0	0	0
	WHITE LAKE REF	0	0	0	0	0	0	0	0
	SUBTOTAL	5748	20	6420	965	965	0	570	2
II	AREA								
	NORMANDY RES	0	0	0	200	200	0	0	0
	TIMS FORD RES	17	0	17	320	320	0	0	0
	WOODS RES	30	0	30	288	288	0	0	0
	SUBTOTAL	30	0	30	320	320	0	0	0
III	AREA								
	CORDELL HULL RES	0	0	0	42	42	0	0	0
	SUBTOTAL	0	0	0	42	42	0	0	0

(CONTINUED)

Some areas conducted more than one survey per survey period.
Numbers reflect maximum observed during one survey.

TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=OCT 16-31

	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
STATE TOTAL	5748	20	6420	965	965	0	570	2

Some areas conducted more than one survey per survey period.
Numbers reflect maximum observed during one survey.

TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=NOV 1-15

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	A T WMA	2031	50	2081	0	0	0	0	0
	BEAN SWITCH REF	0	0	0	0	0	0	0	0
	BIG SANDY TNWR	4780	1060	6265	680	680	325	75	1
	BUSSELTOWN TNWR	580	0	580	90	90	0	0	0
	CAMDEN WMA	4280	0	4280	0	0	0	0	0
	CHICKASAW NWR	59	0	74	0	0	15	0	0
	CROSS CREEKS NWR	10204	3128	10549	1061	1063	19	100	0
	DUCK RIVER TNWR	16652	281	17543	1225	1227	550	150	9
	FORKED DEER (SF)	395	0	395	8	8	0	0	0
	GOOCH WMA	20	0	20	0	0	0	0	0
	HATCHIE NWR	159	10	179	40	40	10	0	0
	HOP-IN REF	0	0	0	0	0	0	0	0

(CONTINUED)

Some areas conducted more than one survey per survey period.
Numbers reflect maximum observed during one survey.

TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=NOV 1-15

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	HORNS BLUFF	43	0	43	0	0	0	0	0
	LAUDERDALE REF	983	200	1183	0	0	0	0	0
	LOWER HATCHIE NWR	525	50	575	0	0	0	0	0
	MANESS SWAMP	0	0	0	0	0	0	0	0
	MOSS ISLAND	27	0	27	0	0	0	0	0
	OBION RIVER	32	0	32	0	0	0	0	0
	OBION/FORKED DEER R	5236	63	5299	0	0	0	0	0
	OPEN LAKE	236	145	434	0	0	53	20	2
	REELFOOT REF	0	0	0	0	0	0	0	0
	REELFOOT WMA	12410	796	13206	0	0	0	2	0
	REELFOOT/LAKE ISOM	20438	26	20467	1478	1478	3	0	0
	RICE WMA	0	0	0	0	0	0	0	0

(CONTINUED)

Some areas conducted more than one survey per survey period.
Numbers reflect maximum observed during one survey.

TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=NOV 1-15

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	SUNK LAKE	0	0	15	0	0	15	0	0
	TIGRETT WMA	1934	0	1934	0	0	0	0	0
	WHITE LAKE REF	0	0	0	0	0	0	0	0
	WHITE OAK WMA	955	0	955	0	0	0	0	0
	SUBTOTAL	20438	3128	20467	1478	1478	550	150	9
II	AREA								
	CHEATHAM RES	954	0	954	400	400	0	0	0
	NORMANDY RES	0	0	0	160	160	0	3	0
	OLD HICKORY RES	2324	0	2496	1690	1698	172	1340	0
	TIMS FORD RES	0	0	0	235	235	0	0	0
	WOODS RES	268	0	268	457	457	0	45	0
	SUBTOTAL	2324	0	2496	1690	1698	172	1340	0

(CONTINUED)

Some areas conducted more than one survey per survey period.
Numbers reflect maximum observed during one survey.

TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=NOV 1-15

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
III	CHICKAMAUGA RES	516	29	570	933	933	0	95	0
	CORDELL HULL RES	70	0	70	88	88	0	0	0
	WATTS BAR RES	32	0	32	1678	1678	0	128	0
	SUBTOTAL	516	29	570	1678	1678	0	128	0
IV	AREA								
	DOUGLAS LAKE	276	164	454	30	30	14	0	0
	HOLSTON RIVER	407	570	977	1139	1139	0	382	0
	SUBTOTAL	407	570	977	1139	1139	14	382	0
STATE TOTAL		20438	3128	20467	1690	1698	550	1340	9

Some areas conducted more than one survey per survey period.
Numbers reflect maximum observed during one survey.

TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=NOV 16-30

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	A T WMA	71	0	71	0	0	0	0	0
	BEAN SWITCH REF	0	0	0	0	0	0	0	0
	BIG SANDY TNWR	3348	350	3943	781	781	225	0	0
	BIG SANDY WMA	0	0	0	0	0	0	0	5
	BUSSELTOWN TNWR	1592	0	1592	175	175	0	0	0
	CAMDEN WMA	3580	65	3645	0	0	0	0	0
	CHICKASAW NWR	3754	0	3779	0	0	25	0	0
	CROSS CREEKS NWR	13806	1215	13951	2281	2283	31	100	0
	DUCK RIVER TNWR	22173	150	22773	2189	2191	450	450	13
	FORKED DEER (MF)	3245	0	3245	0	0	0	0	0
	FORKED DEER (SF)	848	60	908	20	25	0	0	0
	GOOCH WMA	541	10	551	0	0	0	0	0

(CONTINUED)

Some areas conducted more than one survey per survey period.
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TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=NOV 16-30

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	HARMONS CREEK WMA	95	0	95	0	0	0	0	0
	HATCHIE NWR	1135	0	1135	30	30	0	0	0
	HOP-IN REF	0	0	0	0	0	0	0	0
	HORNS BLUFF	0	0	0	0	0	0	0	0
	KENTUCKY RES	1487	220	1735	35	35	28	0	0
	LAKE ISOM NWR	1102	0	1102	450	450	0	0	0
	LAUDERDALE REF	3180	165	3345	0	0	0	0	0
	LOWER HATCHIE NWR	211	0	211	0	0	0	0	0
	MANESS SWAMP	0	0	0	0	0	0	0	0
	MOSS ISLAND	0	0	0	0	0	0	0	0
	OBION RIVER	0	0	0	0	0	0	0	0
	OBION/FORKED DEER R	11666	150	11816	0	0	0	0	0

(CONTINUED)

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TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=NOV 16-30

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	OPEN LAKE	850	30	882	0	0	2	0	0
	REELFOOT NWR	32943	210	33183	4600	4600	30	35	8
	REELFOOT REF	305	0	305	0	0	0	0	0
	REELFOOT WMA	38	4907	4945	0	0	0	3	20
	RICE WMA	0	0	0	0	0	0	0	0
	SUNK LAKE	115	0	125	0	0	10	0	0
	TIGRETT WMA	5374	286	5660	20	20	0	0	0
	WEST SANDY WMA	735	600	1335	148	148	0	0	0
	WHITE LAKE REF	0	0	0	0	0	0	0	0
	SUBTOTAL	32943	4907	33183	4600	4600	450	450	20
II	AREA								
	CHEATHAM RES	1033	0	1033	239	239	0	0	0

(CONTINUED)

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TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=NOV 16-30

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
II	NORMANDY RES	0	0	10	45	45	10	0	0
	OLD HICKORY RES	2181	10	2231	1863	1863	20	0	0
	TIMS FORD RES	2	0	14	133	133	12	0	0
	WOODS RES	597	0	620	857	857	20	0	0
	SUBTOTAL	2181	10	2231	1863	1863	20	0	0
III	AREA								
	CHICKAMAUGA RES	1270	29	1327	2129	2131	11	120	0
	CORDELL HULL RES	141	0	157	298	298	16	0	0
	WATTS BAR RES	113	0	124	1826	1826	6	78	1
	SUBTOTAL	1270	29	1327	2129	2131	16	120	1
STATE TOTAL		32943	4907	33183	4600	4600	450	450	20

Some areas conducted more than one survey per survey period.
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TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=DEC 1-15

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	A T WMA	300	0	300	0	0	0	0	0
	BARKLEY WMA (I)	20	0	20	8	8	0	0	0
	BARKLEY WMA (II)	0	0	0	0	0	0	0	0
	BEAN SWITCH REF	415	0	415	0	0	0	0	0
	BIG SANDY TNWR	37295	1393	38802	3200	3202	90	300	0
	BIG SANDY WMA	50	0	50	0	0	0	0	0
	BUSSELTOWN TNWR	3735	95	3830	1050	1050	0	0	0
	CAMDEN WMA	0	0	0	0	0	0	0	0
	CHICKASAW NWR	55195	550	55745	40	40	0	0	0
	CROSS CREEKS NWR	61526	1121	61926	8210	8210	119	25	0
	DUCK RIVER TNWR	160310	735	162295	12110	12117	1250	0	6
	FORKED DEER (MF)	4706	0	4706	10	10	0	0	0

(CONTINUED)

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TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=DEC 1-15

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	FORKED DEER (SF)	4860	0	4860	307	307	0	0	0
	GOOCH WMA	3328	20	3348	6	6	0	0	0
	HARMONS CREEK WMA	0	0	0	0	0	0	0	0
	HATCHIE NWR	1218	0	1218	200	200	0	0	0
	HOP-IN REF	2035	0	2035	0	0	0	0	0
	HORNS BLUFF	0	0	0	0	0	0	0	0
	KENTUCKY RES	225	50	275	0	0	0	0	0
	LAKE ISOM NWR	3200	0	3200	730	730	0	0	0
	LAUDERDALE REF	6610	975	7585	500	552	0	0	0
	LOWER HATCHIE NWR	2590	0	2590	0	0	0	0	0
	MANESS SWAMP	53	0	53	0	0	0	0	0
	MOSS ISLAND	325	0	325	0	0	0	0	0

(CONTINUED)

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TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=DEC 1-15

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	OBION RIVER	932	25	957	0	0	0	0	0
	OBION/FORKED DEER R	53018	0	53018	250	253	0	0	0
	OPEN LAKE	66	0	66	0	0	0	0	0
	REELFOOT NWR	27750	225	27981	16550	16553	6	0	0
	REELFOOT REF	52	0	52	0	0	0	0	0
	REELFOOT WMA	300	5015	5315	0	0	0	0	0
	RICE WMA	20	0	20	0	0	0	0	0
	SUNK LAKE	650	0	650	0	0	0	0	0
	TIGRETT WMA	175	0	175	0	0	0	0	0
	WEST SANDY WMA	50	0	50	0	0	0	0	0
	WHITE LAKE REF	1210	740	1950	206	207	0	0	0
	WHITE OAK WMA	794	140	934	0	0	0	0	0

(CONTINUED)

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TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=DEC 1-15

		DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
REGION	SUBTOTAL								
I		160310	5015	162295	16550	16553	1250	300	6
II	AREA								
	CHEATHAM RES	1256	0	1256	515	515	0	0	0
	NORMANDY RES	62	4	76	86	86	0	0	0
	OLD HICKORY RES	2860	0	2860	1681	1681	0	164	0
	TIMS FORD RES	0	0	0	143	143	0	0	0
	WOODS RES	342	0	352	648	652	6	0	0
	SUBTOTAL	2860	4	2860	1681	1681	6	164	0
III	AREA								
	CORDELL HULL RES	27	0	27	210	210	0	0	0
	SUBTOTAL	27	0	27	210	210	0	0	0
STATE TOTAL		160310	5015	162295	16550	16553	1250	300	6

Some areas conducted more than one survey per survey period.
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TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=DEC 16-31

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	A T WMA	15	0	15	0	0	0	0	0
	BARKLEY WMA	1913	0	1913	0	0	0	50	0
	BEAN SWITCH REF	200	0	200	0	0	0	0	0
	BIG SANDY TNWR	37139	9110	48224	16895	16895	1975	50	0
	BIG SANDY WMA	0	0	0	0	0	0	0	0
	BUSSELTOWN TNWR	11605	25	11630	4749	4749	0	0	0
	CAMDEN WMA	0	0	0	0	0	0	0	0
	CHICKASAW NWR	5878	6085	11963	0	0	0	0	0
	CROSS CREEKS NWR	28302	2385	30687	14946	14946	36	26	0
	DUCK RIVER TNWR	108857	6675	115717	26481	26481	185	0	0
	FORKED DEER (MF)	205	0	205	0	0	0	0	0
	FORKED DEER (SF)	5504	2045	7549	0	0	0	0	0

(CONTINUED)

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TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=DEC 16-31

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	GOOCH WMA	2	0	2	0	0	0	0	0
	HARMONS CREEK WMA	0	0	0	0	0	0	0	0
	HATCHIE NWR	4785	0	4785	454	454	0	0	0
	HOP-IN REF	0	0	0	0	0	0	0	0
	HORNS BLUFF	0	0	0	0	0	0	0	0
	KENTUCKY RES	116	15	131	0	0	0	20	0
	LAKE ISOM NWR	1500	6	1506	2000	2000	0	0	0
	LAUDERDALE REF	14520	500	15020	2050	2051	0	0	0
	LOWER HATCHIE NWR	1326	0	1326	3	3	0	0	0
	MANESS SWAMP	1092	0	1092	0	0	0	0	0
	MOSS ISLAND	0	0	0	0	0	0	0	0
	OBION RIVER	754	826	1580	0	0	0	0	0

(CONTINUED)

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TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=DEC 16-31

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	OBION/FORKED DEER R	0	0	0	0	0	0	0	0
	OPEN LAKE	19	327	346	0	0	0	0	0
	REELFOOT NWR	85280	2500	87555	63400	63400	0	500	0
	RICE WMA	0	0	0	0	0	0	0	0
	SUNK LAKE	63	25	92	0	0	4	0	0
	TIGRETT WMA	500	0	500	2	2	0	0	0
	WEST SANDY WMA	0	0	0	0	0	0	0	0
	WHITE LAKE REF	2	0	2	0	0	0	0	0
	WHITE OAK WMA	146	10	156	0	0	0	0	0
	SUBTOTAL	108857	9110	115717	63400	63400	1975	500	0
III	AREA								
	CHICKAMAUGA RES	1595	52	1647	284	284	0	62	0

(CONTINUED)

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TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=DEC 16-31

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
III	WATTS BAR RES	159	32	191	660	660	0	12	0
	SUBTOTAL	1595	52	1647	660	660	0	62	0
IV	AREA								
	CHEROKEE LAKE	24	3	27	168	168	0	0	0
	DOUGLAS LAKE	418	34	452	0	0	0	0	0
	HOLSTON RIVER	967	512	1479	1155	1156	0	0	0
	SUBTOTAL	967	512	1479	1155	1156	0	0	0
STATE TOTAL		108857	9110	115717	63400	63400	1975	500	0

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TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=JAN 1-15

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	BIG SANDY TNWR	28435	5755	34665	15100	15101	375	50	11
	BUSSELTOWN TNWR	7435	0	7450	6700	6700	15	0	1
	CROSS CREEKS NWR	6226	1122	7281	12605	12610	12	25	0
	DUCK RIVER TNWR	67693	7725	75748	26630	26630	330	0	6
	LAKE ISOM NWR	660	0	660	2000	2000	0	0	0
	REELFOOT NWR	59806	653	60462	75500	75500	14	0	0
	SUBTOTAL	67693	7725	75748	75500	75500	375	50	11
II	AREA								
	CHEATHAM RES	641	0	641	385	385	0	0	0
	NORMANDY RES	0	0	11	69	69	0	9	0
	OLD HICKORY RES	1065	0	1102	2286	2286	37	520	0
	TIMS FORD RES	0	0	0	147	151	0	0	0

(CONTINUED)

Some areas conducted more than one survey per survey period.
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TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=JAN 1-15

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
II	WOODS RES	64	34	101	400	400	0	11	0
	SUBTOTAL	1065	34	1102	2286	2286	37	520	0
III	AREA								
	CORDELL HULL RES	4	0	4	200	200	0	0	0
	SUBTOTAL	4	0	4	200	200	0	0	0
IV	AREA								
	CHEROKEE LAKE	18	30	54	35	35	6	0	0
	DOUGLAS LAKE	239	113	352	0	0	0	0	0
	HOLSTON RIVER	213	125	338	1037	1037	0	25	0
	MELTON HILL RES	32	0	32	96	96	0	0	0
	NOLICHUCKY WMA	36	0	36	125	125	0	0	0
	TELLICO LAKE WMA	950	204	1154	300	300	0	0	0

(CONTINUED)

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TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=JAN 1-15

		DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
REGION	SUBTOTAL								
IV		950	204	1154	1037	1037	6	25	0
STATE TOTAL		67693	7725	75748	75500	75500	375	520	11

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TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=JAN 16-31

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	A T WMA	3206	4	3210	0	0	0	0	0
	BEAN SWITCH REF	3010	0	3010	0	0	0	0	0
	BIG SANDY TNWR	25412	8150	33862	12700	12701	300	60	0
	BIG SANDY WMA	400	0	400	0	0	0	0	0
	BUSSELTOWN TNWR	19240	910	20150	7025	7026	0	0	0
	CAMDEN WMA	2665	0	2665	15	15	0	0	0
	CHICKASAW NWR	1807	0	1807	500	500	0	0	0
	CROSS CREEKS NWR	7723	874	8601	9299	9300	21	58	0
	DUCK RIVER TNWR	60073	845	61128	34831	34834	210	0	0
	FORKED DEER (MF)	1753	0	1753	2	2	0	0	0
	FORKED DEER (SF)	11999	1100	13099	198	198	0	0	0
	GOOCH WMA	651	3	654	17	17	0	0	0

(CONTINUED)

Some areas conducted more than one survey per survey period.
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TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=JAN 16-31

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	HARMONS CREEK WMA	55	0	55	0	0	0	0	0
	HATCHIE NWR	329	150	479	639	639	0	0	0
	HOP-IN REF	0	0	0	0	0	0	0	0
	HORNS BLUFF	2926	0	2926	0	0	0	0	0
	KENTUCKY RES	8465	650	9256	480	480	56	0	0
	LAKE ISOM NWR	102	7	109	3750	3750	0	0	0
	LAUDERDALE REF	128	0	128	1000	1000	0	0	0
	LOWER HATCHIE NWR	234	5	239	0	0	0	0	0
	MANESS SWAMP	260	0	260	0	0	0	0	0
	MOSS ISLAND	0	0	0	0	0	0	0	0
	OBION RIVER	2232	0	2232	0	0	0	0	0
	OBION/FORKED DEER R	6694	2075	8770	460	460	1	2	0

(CONTINUED)

Some areas conducted more than one survey per survey period.
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TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=JAN 16-31

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	OPEN LAKE	14	15	29	0	0	0	0	0
	REELFOOT NWR	25055	350	25072	12775	12775	17	0	0
	REELFOOT REF	15000	0	15000	10000	10000	0	0	0
	RICE WMA	0	0	0	0	0	0	0	0
	SUNK LAKE	17	0	17	0	0	0	0	0
	TIGRETT WMA	2022	0	2022	12	12	0	0	0
	WEST SANDY WMA	400	5525	5925	300	300	0	0	0
	WHITE LAKE REF	0	0	0	0	0	0	0	0
	WHITE OAK WMA	860	30	890	0	0	0	0	0
	SUBTOTAL	60073	8150	61128	34831	34834	300	60	0
III	AREA								
	CHICKAMAUGA RES	2903	186	3100	1824	1825	7	83	0

(CONTINUED)

Some areas conducted more than one survey per survey period.
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TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=JAN 16-31

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
III	WATTS BAR RES	726	18	756	1899	1899	12	57	0
	SUBTOTAL	2903	186	3100	1899	1899	12	83	0
STATE TOTAL		60073	8150	61128	34831	34834	300	83	0

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TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=FEB 1-15

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	A T WMA	307	0	307	0	0	0	0	0
	BEAN SWITCH REF	462	300	762	0	0	0	0	0
	BIG SANDY TNWR	4211	5026	9237	2788	2789	0	31	0
	BIG SANDY WMA	1991	89	2080	0	0	0	0	0
	BUSSELTOWN TNWR	2382	25	2407	2515	2516	0	0	1
	CAMDEN WMA	860	10	870	0	0	0	13	0
	CHICKASAW NWR	853	0	855	1500	1500	2	0	0
	CROSS CREEKS NWR	4071	475	4498	11248	11249	69	60	0
	DUCK RIVER TNWR	1489	262	1751	6062	6063	0	0	6
	FORKED DEER (MF)	468	2	480	0	0	10	0	0
	FORKED DEER (SF)	14114	4755	18869	350	350	0	0	0
	GOOCH WMA	301	413	714	17	17	0	0	0

(CONTINUED)

Some areas conducted more than one survey per survey period.
Numbers reflect maximum observed during one survey.

TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=FEB 1-15

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	HATCHIE NWR	2353	30	2385	481	481	2	0	0
	HORNS BLUFF	806	3	809	27	27	0	0	0
	KENTUCKY RES	745	389	1134	41	41	0	50	0
	LAUDERDALE REF	237	0	237	1515	1528	0	0	0
	LOWER HATCHIE NWR	247	0	247	0	0	0	0	0
	MANESS SWAMP	558	6	564	0	0	0	0	0
	MOSS ISLAND	27	0	27	0	0	0	0	0
	OBION RIVER	2997	75	3072	2	2	0	0	0
	OBION/FORKED DEER R	2056	375	2431	236	300	0	1	0
	OPEN LAKE	0	5000	5010	0	0	10	0	0
	REELFOOT REF	58	0	58	8000	8011	0	0	0
	SUNK LAKE	60	0	60	0	0	0	0	0

(CONTINUED)

Some areas conducted more than one survey per survey period.
Numbers reflect maximum observed during one survey.

TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=FEB 1-15

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	TIGRETT WMA	8123	500	8624	1053	1053	1	0	0
	WEST SANDY WMA	1030	250	1280	6	6	0	0	0
	WHITE OAK WMA	1177	50	1227	0	0	0	0	0
	SUBTOTAL	14114	5026	18869	11248	11249	69	60	6
III	AREA								
	CHICKAMAUGA RES	3880	40	3920	1400	1400	0	133	0
	WATTS BAR RES	137	0	137	1110	1110	0	0	0
	SUBTOTAL	3880	40	3920	1400	1400	0	133	0
STATE TOTAL		14114	5026	18869	11248	11249	69	133	6

Some areas conducted more than one survey per survey period.
Numbers reflect maximum observed during one survey.

TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=FEB 16-28

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	BARKLEY WMA (I)	430	375	805	45	45	0	0	0
	BEAN SWITCH REF	489	300	789	0	0	0	0	0
	CHICKASAW NWR	780	0	780	701	701	0	0	0
	CROSS CREEKS NWR	1572	90	1662	1977	1977	0	15	0
	FORKED DEER (MF)	454	72	527	0	0	1	0	0
	FORKED DEER (SF)	7282	9349	16636	144	144	5	0	0
	GOOCH WMA	1025	350	1375	0	0	0	0	0
	HATCHIE NWR	328	0	334	350	350	6	0	0
	HORNS BLUFF	863	425	1288	0	0	0	0	0
	LAUDERDALE REF	115	15	130	50	50	0	12	0
	LOWER HATCHIE NWR	165	0	165	50	50	0	0	0
	MANESS SWAMP	236	0	236	0	0	0	0	0

(CONTINUED)

Some areas conducted more than one survey per survey period.
Numbers reflect maximum observed during one survey.

TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=FEB 16-28

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	MOSS ISLAND	60	0	60	0	0	0	35	0
	OBION RIVER	1492	0	1492	0	0	0	0	0
	OBION/FORKED DEER R	1775	558	2333	0	0	0	0	0
	OPEN LAKE	10	25	35	0	0	0	0	0
	REELFOOT REF	1612	10	1622	3600	3600	0	0	0
	TIGRETT WMA	2778	2	2780	125	125	0	0	0
	WHITE OAK WMA	376	0	376	0	0	0	0	0
	SUBTOTAL	7282	9349	16636	3600	3600	6	35	0
III	AREA								
	CHICKAMAUGA RES	5779	0	5804	1125	1125	0	185	0
	WATTS BAR RES	284	0	303	928	928	0	117	2
	SUBTOTAL	5779	0	5804	1125	1125	0	185	2

(CONTINUED)

Some areas conducted more than one survey per survey period.
Numbers reflect maximum observed during one survey.

TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=FEB 16-28

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
IV	CHEROKEE LAKE	30	182	212	133	133	0	0	0
	DOUGLAS LAKE	109	46	155	20	20	0	0	0
	HOLSTON RIVER	280	527	807	1026	1026	0	226	0
	SUBTOTAL	280	527	807	1026	1026	0	226	0
STATE TOTAL		7282	9349	16636	3600	3600	6	226	2

Some areas conducted more than one survey per survey period.
Numbers reflect maximum observed during one survey.

TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=MAR 1-15

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	A T WMA	0	4	4	0	0	0	0	0
	BEAN SWITCH REF	212	0	212	0	0	0	0	0
	CHICKASAW NWR	709	72	781	75	75	0	0	0
	FORKED DEER (MF)	424	25	457	0	0	8	0	0
	FORKED DEER (SF)	2641	2870	5551	57	57	40	0	0
	GOOCH WMA	305	0	305	0	0	0	0	0
	HATCHIE NWR	176	150	329	0	0	3	0	0
	HORNS BLUFF	123	25	148	0	0	0	0	0
	LOWER HATCHIE NWR	420	0	420	0	0	0	0	0
	MOSS ISLAND	0	0	0	0	0	0	0	0
	OBION RIVER	687	20	707	0	0	0	0	0
	OBION/FORKED DEER R	610	30	640	0	0	0	0	0

(CONTINUED)

Some areas conducted more than one survey per survey period.
Numbers reflect maximum observed during one survey.

TENNESSEE WATERFOWL INVENTORIES
1991-92
PEAK NUMBERS OBSERVED DURING BI-MONTHLY SURVEY PERIOD

SURVEY PERIOD=MAR 1-15

REGION	AREA	DABBLERS	DIVERS	TOTAL DUCKS	CANADA GEESE	TOTAL GEESE	MERGANS-ERS	COOTS	EAGLES
I	OPEN LAKE	0	602	602	0	0	0	0	0
	REELFOOT REF	326	0	326	0	0	0	0	0
	RICE WMA	0	0	0	0	0	0	0	0
	SUNK LAKE	363	150	515	0	0	2	0	0
	TIGRETT WMA	330	3	333	3	3	0	0	0
	WHITE LAKE REF	18	0	18	0	0	0	0	0
	WHITE OAK WMA	130	0	130	0	0	0	0	0
	SUBTOTAL	2641	2870	5551	75	75	40	0	0
III	AREA								
	CHICKAMAUGA RES	721	0	721	308	308	0	53	0
	SUBTOTAL	721	0	721	308	308	0	53	0
STATE TOTAL		2641	2870	5551	308	308	40	53	0

Some areas conducted more than one survey per survey period.
Numbers reflect maximum observed during one survey.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = A T WMA

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	0	29	0	300	15	.	3206	307	.	0	
BLACK DUCK	.	0	0	0	0	0	.	0	0	.	0	.
GADWALL	.	40	2000	1	0	0	.	0	0	.	0	.
WIGEON	.	0	0	10	0	0	.	0	0	.	0	.
GREEN-WINGED TEAL	.	25	0	60	0	0	.	0	0	.	0	.
BLUE-WINGED TEAL	.	0	0	0	0	0	.	0	0	.	0	.
SHOVELER	.	0	0	0	0	0	.	0	0	.	0	.
PINTAIL	.	0	0	0	0	0	.	0	0	.	0	.
WOOD DUCK	.	0	2	0	0	0	.	0	0	.	0	.
TOTAL DABBLERS	.	65	2031	71	300	15	.	3206	307	.	0	.
REDHEAD	.	0	0	0	0	0	.	0	0	.	0	.
CANVASBACK	.	0	0	0	0	0	.	0	0	.	0	.
SCAUP	.	0	0	0	0	0	.	0	0	.	0	.
RINGNECK	.	0	50	0	0	0	.	4	0	.	4	.
RUDDY DUCK	.	0	0	0	0	0	.	0	0	.	0	.
GOLDENEYE	.	0	0	0	0	0	.	0	0	.	0	.
BUFFLEHEAD	.	0	0	0	0	0	.	0	0	.	0	.
TOTAL DIVERS	.	0	50	0	0	0	.	4	0	.	4	.
UNIDENTIFIED DUCKS	.	0	0	0	0	0	.	0	0	.	0	.
TOTAL DUCKS	.	65	2081	71	300	15	.	3210	307	.	4	.
MERGANSERS	.	0	0	0	0	0	.	0	0	.	0	
CANADA GOOSE	.	0	0	0	0	0	.	0	0	.	0	.
BLUE GOOSE	.	0	0	0	0	0	.	0	0	.	0	.
SNOW GOOSE	.	0	0	0	0	0	.	0	0	.	0	
WHITE-FRONTED GOOSE	.	0	0	0	0	0	.	0	0	.	0	
TOTAL GEESE	.	0	0	0	0	0	.	0	0	.	0	.
COOTS	.	0	0	0	0	0	.	0	0	.	0	.
SWANS	.	0	0	0	0	0	.	0	0	.	0	.
EAGLES	.	0	0	0	0	0	.	0	0	.	0	.

'.' = MISSING VALUE (No survey conducted during this survey period).
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1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = BARKLEY WMA

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	73	.	.	.	20	1254	.	.	.	225	.	.
BLACK DUCK	84	.	.	.	0	623	.	.	.	115	.	.
GADWALL	90	.	.	.	0	7	.	.	.	27	.	.
WIGEON	107	.	.	.	0	23	.	.	.	38	.	.
GREEN-WINGED TEAL	0	.	.	.	0	0	.	.	.	0	.	.
BLUE-WINGED TEAL	5	.	.	.	0	0	.	.	.	0	.	.
SHOVELER	0	.	.	.	0	0	.	.	.	0	.	.
PINTAIL	0	.	.	.	0	6	.	.	.	0	.	.
WOOD DUCK	8	.	.	.	0	0	.	.	.	25	.	.
TOTAL DABBLERS	367	.	.	.	20	1913	.	.	.	430	.	.
REDHEAD	0	.	.	.	0	0	.	.	.	0	.	.
CANVASBACK	0	.	.	.	0	0	.	.	.	0	.	.
SCAUP	0	.	.	.	0	0	.	.	.	0	.	.
RINGNECK	0	.	.	.	0	0	.	.	.	375	.	.
RUDDY DUCK	0	.	.	.	0	0	.	.	.	0	.	.
GOLDENEYE	0	.	.	.	0	0	.	.	.	0	.	.
BUFFLEHEAD	0	.	.	.	0	0	.	.	.	0	.	.
TOTAL DIVERS	0	.	.	.	0	0	.	.	.	375	.	.
UNIDENTIFIED DUCKS	0	.	.	.	0	0	.	.	.	0	.	.
TOTAL DUCKS	367	.	.	.	20	1913	.	.	.	805	.	.
MERGANSERS	0	.	.	.	0	0	.	.	.	0	.	.
CANADA GOOSE	173	.	.	.	8	0	.	.	.	45	.	.
BLUE GOOSE	0	.	.	.	0	0	.	.	.	0	.	.
SNOW GOOSE	0	.	.	.	0	0	.	.	.	0	.	.
WHITE-FRONTED GOOSE	0	.	.	.	0	0	.	.	.	0	.	.
TOTAL GEESE	173	.	.	.	8	0	.	.	.	45	.	.
COOTS	0	.	.	.	0	50	.	.	.	0	.	.
SWANS	0	.	.	.	0	0	.	.	.	0	.	.
EAGLES	0	.	.	.	0	0	.	.	.	0	.	.

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1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = BEAN SWITCH REF

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	0	0	0	415	200	.	3000	459	287	188	.
BLACK DUCK	.	0	0	0	0	0	.	10	0	2	4	.
GADWALL	.	0	0	0	0	0	.	0	0	0	0	.
WIGEON	.	0	0	0	0	0	.	0	3	0	2	.
GREEN-WINGED TEAL	.	0	0	0	0	0	.	0	0	0	15	.
BLUE-WINGED TEAL	.	0	0	0	0	0	.	0	0	200	0	.
SHOVELER	.	0	0	0	0	0	.	0	0	0	0	.
PINTAIL	.	0	0	0	0	0	.	0	0	0	0	.
WOOD DUCK	.	0	0	0	0	0	.	0	0	0	3	.
TOTAL DABBLERS	.	0	0	0	415	200	.	3010	462	489	212	.
REDHEAD	.	0	0	0	0	0	.	0	0	0	0	.
CANVASBACK	.	0	0	0	0	0	.	0	0	0	0	.
SCAUP	.	0	0	0	0	0	.	0	0	0	0	.
RINGNECK	.	0	0	0	0	0	.	0	300	300	0	.
RUDDY DUCK	.	0	0	0	0	0	.	0	0	0	0	.
GOLDENEYE	.	0	0	0	0	0	.	0	0	0	0	.
BUFFLEHEAD	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DIVERS	.	0	0	0	0	0	.	0	300	300	0	.
UNIDENTIFIED DUCKS	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DUCKS	.	0	0	0	415	200	.	3010	762	789	212	.
MERGANSERS	.	0	0	0	0	0	.	0	0	0	0	.
CANADA GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
BLUE GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
SNOW GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
WHITE-FRONTED GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL GEESE	.	0	0	0	0	0	.	0	0	0	0	.
COOTS	.	0	0	0	0	0	.	0	0	0	0	.
SWANS	.	0	0	0	0	0	.	0	0	0	0	.
EAGLES	.	0	0	0	0	0	.	0	0	0	0	.

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1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = BIG SANDY TNWR

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	186	265	4085	2656	29715	27224	21555	23440	3777	.	.	.
BLACK DUCK	52	90	470	347	3830	3445	5925	1847	365	.	.	.
GADWALL	225	295	90	285	3750	6410	870	85	69	.	.	.
WIGEON	135	335	25	10	0	0	75	40	0	.	.	.
GREEN-WINGED TEAL	0	0	100	50	0	0	10	0	0	.	.	.
BLUE-WINGED TEAL	15	0	0	0	0	0	0	0	0	.	.	.
SHOVELER	0	0	0	0	0	0	0	0	0	.	.	.
PINTAIL	0	10	0	0	0	50	0	0	0	.	.	.
WOOD DUCK	0	0	10	0	0	10	0	0	0	.	.	.
TOTAL DABBLERS	589	995	4780	3348	37295	37139	28435	25412	4211	.	.	.
REDHEAD	0	0	0	0	0	0	0	0	0	.	.	.
CANVASBACK	0	0	0	340	554	5710	4075	3300	1341	.	.	.
SCAUP	0	0	1025	0	662	2250	600	470	25	.	.	.
RINGNECK	0	0	0	0	150	1150	940	4025	410	.	.	.
RUDDY DUCK	0	0	0	0	0	0	0	0	400	.	.	.
GOLDENEYE	0	0	25	10	27	0	140	355	2850	.	.	.
BUFFLEHEAD	0	0	10	0	0	0	0	0	0	.	.	.
TOTAL DIVERS	0	0	1060	350	1393	9110	5755	8150	5026	.	.	.
UNIDENTIFIED DUCKS	0	50	100	20	24	0	100	0	0	.	.	.
TOTAL DUCKS	589	1045	6265	3943	38802	48224	34665	33862	9237	.	.	.
MERGANSERS	0	0	325	225	90	1975	375	300	0	.	.	.
CANADA GOOSE	385	570	680	781	3200	16895	15100	12700	2788	.	.	.
BLUE GOOSE	0	0	0	0	0	0	0	0	0	.	.	.
SNOW GOOSE	0	0	0	0	2	0	1	1	0	.	.	.
WHITE-FRONTED GOOSE	0	0	0	0	0	0	0	0	1	.	.	.
TOTAL GEESE	385	570	680	781	3202	16895	15101	12701	2789	.	.	.
COOTS	0	210	75	0	300	50	50	60	31	.	.	.
SWANS	0	0	0	0	0	0	0	0	0	.	.	.
EAGLES	0	0	1	0	0	0	11	0	0	.	.	.

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1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = BIG SANDY WMA

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	0	.	.	0	25	0	.	300	1750	.	.	.
BLACK DUCK	0	.	.	0	0	0	.	40	6	.	.	.
GADWALL	0	.	.	0	0	0	.	60	175	.	.	.
WIGEON	0	.	.	0	0	0	.	0	60	.	.	.
GREEN-WINGED TEAL	0	.	.	0	0	0	.	0	0	.	.	.
BLUE-WINGED TEAL	0	.	.	0	0	0	.	0	0	.	.	.
SHOVELER	0	.	.	0	0	0	.	0	0	.	.	.
PINTAIL	0	.	.	0	0	0	.	0	0	.	.	.
WOOD DUCK	0	.	.	0	25	0	.	0	0	.	.	.
TOTAL DABBLERS	0	.	.	0	50	0	.	400	1991	.	.	.
REDHEAD	0	.	.	0	0	0	.	0	0	.	.	.
CANVASBACK	0	.	.	0	0	0	.	0	25	.	.	.
SCAUP	0	.	.	0	0	0	.	0	0	.	.	.
RINGNECK	0	.	.	0	0	0	.	0	50	.	.	.
RUDDY DUCK	0	.	.	0	0	0	.	0	0	.	.	.
GOLDENEYE	0	.	.	0	0	0	.	0	14	.	.	.
BUFFLEHEAD	0	.	.	0	0	0	.	0	0	.	.	.
TOTAL DIVERS	0	.	.	0	0	0	.	0	89	.	.	.
UNIDENTIFIED DUCKS	0	.	.	0	0	0	.	0	0	.	.	.
TOTAL DUCKS	0	.	.	0	50	0	.	400	2080	.	.	.
MERGANSERS	0	.	.	0	0	0	.	0	0	.	.	.
CANADA GOOSE	0	.	.	0	0	0	.	0	0	.	.	.
BLUE GOOSE	0	.	.	0	0	0	.	0	0	.	.	.
SNOW GOOSE	0	.	.	0	0	0	.	0	0	.	.	.
WHITE-FRONTED GOOSE	0	.	.	0	0	0	.	0	0	.	.	.
TOTAL GEESE	0	.	.	0	0	0	.	0	0	.	.	.
COOTS	0	.	.	0	0	0	.	0	0	.	.	.
SWANS	0	.	.	0	0	0	.	0	0	.	.	.
EAGLES	0	.	.	5	0	0	.	0	0	.	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = BUSSELTOWN TNWR

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	38	60	180	1188	3100	9900	6160	18525	2216	.	.	.
BLACK DUCK	10	10	35	164	145	950	925	440	166	.	.	.
GADWALL	0	187	105	75	250	310	125	225	0	.	.	.
WIGEON	0	40	50	10	80	425	150	50	0	.	.	.
GREEN-WINGED TEAL	0	0	120	145	0	0	0	0	0	.	.	.
BLUE-WINGED TEAL	0	0	0	0	0	0	0	0	0	.	.	.
SHOVELER	0	0	0	0	0	0	0	0	0	.	.	.
PINTAIL	0	0	0	10	0	20	75	0	0	.	.	.
WOOD DUCK	10	25	90	0	160	0	0	0	0	.	.	.
TOTAL DABBLERS	55	322	580	1592	3735	11605	7435	19240	2382	.	.	.
REDHEAD	0	0	0	0	0	0	0	0	0	.	.	.
CANVASBACK	0	0	0	0	20	0	0	0	0	.	.	.
SCAUP	0	0	0	0	0	25	0	0	25	.	.	.
RINGNECK	0	0	0	0	75	0	0	910	0	.	.	.
RUDDY DUCK	0	0	0	0	0	0	0	0	0	.	.	.
GOLDENEYE	0	0	0	0	0	0	0	0	0	.	.	.
BUFFLEHEAD	0	0	0	0	0	0	0	0	0	.	.	.
TOTAL DIVERS	0	0	0	0	95	25	0	910	25	.	.	.
UNIDENTIFIED DUCKS	0	0	0	0	0	0	0	0	0	.	.	.
TOTAL DUCKS	55	322	580	1592	3830	11630	7450	20150	2407	.	.	.
MERGANSERS	0	0	0	0	0	0	15	0	0	.	.	.
CANADA GOOSE	25	0	90	175	1050	4749	6700	7025	2515	.	.	.
BLUE GOOSE	0	0	0	0	0	0	0	0	0	.	.	.
SNOW GOOSE	0	0	0	0	0	0	0	1	1	.	.	.
WHITE-FRONTED GOOSE	0	0	0	0	0	0	0	0	0	.	.	.
TOTAL GEESE	25	0	90	175	1050	4749	6700	7026	2516	.	.	.
COOTS	0	0	0	0	0	0	0	0	0	.	.	.
SWANS	0	0	0	0	0	0	0	0	0	.	.	.
EAGLES	0	0	0	0	0	0	1	0	1	.	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = CAMDEN WMA

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	0	.	3775	3450	0	0	.	2275	625	.	.	.
BLACK DUCK	0	.	425	10	0	0	.	315	130	.	.	.
GADWALL	0	.	0	70	0	0	.	75	10	.	.	.
WIGEON	0	.	0	25	0	0	.	0	0	.	.	.
GREEN-WINGED TEAL	0	.	0	0	0	0	.	0	0	.	.	.
BLUE-WINGED TEAL	0	.	0	0	0	0	.	0	0	.	.	.
SHOVELER	0	.	0	0	0	0	.	0	0	.	.	.
PINTAIL	0	.	10	0	0	0	.	0	0	.	.	.
WOOD DUCK	0	.	70	25	0	0	.	0	95	.	.	.
TOTAL DABBLERS	0	.	4280	3580	0	0	.	2665	860	.	.	.
REDHEAD	0	.	0	0	0	0	.	0	0	.	.	.
CANVASBACK	0	.	0	0	0	0	.	0	0	.	.	.
SCAUP	0	.	0	0	0	0	.	0	0	.	.	.
RINGNECK	0	.	0	65	0	0	.	0	0	.	.	.
RUDDY DUCK	0	.	0	0	0	0	.	0	0	.	.	.
GOLDENEYE	0	.	0	0	0	0	.	0	10	.	.	.
BUFFLEHEAD	0	.	0	0	0	0	.	0	0	.	.	.
TOTAL DIVERS	0	.	0	65	0	0	.	0	10	.	.	.
UNIDENTIFIED DUCKS	0	.	0	0	0	0	.	0	0	.	.	.
TOTAL DUCKS	0	.	4280	3645	0	0	.	2665	870	.	.	.
MERGANSERS	0	.	0	0	0	0	.	0	0	.	.	.
CANADA GOOSE	0	.	0	0	0	0	.	15	0	.	.	.
BLUE GOOSE	0	.	0	0	0	0	.	0	0	.	.	.
SNOW GOOSE	0	.	0	0	0	0	.	0	0	.	.	.
WHITE-FRONTED GOOSE	0	.	0	0	0	0	.	0	0	.	.	.
TOTAL GEESE	0	.	0	0	0	0	.	15	0	.	.	.
COOTS	0	.	0	0	0	0	.	0	13	.	.	.
SWANS	0	.	0	0	0	0	.	0	0	.	.	.
EAGLES	0	.	0	0	0	0	.	0	0	.	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = CHEATHAM RES

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	.	736	878	1023	.	431	.	.	.	.	.
BLACK DUCK	.	.	210	155	233	.	190	.	.	.	.	.
GADWALL	.	.	8	0	0	.	20	.	.	.	.	.
WIGEON	.	.	0	0	0	.	0	.	.	.	.	.
GREEN-WINGED TEAL	.	.	0	0	0	.	0	.	.	.	.	.
BLUE-WINGED TEAL	.	.	0	0	0	.	0	.	.	.	.	.
SHOVELER	.	.	0	0	0	.	0	.	.	.	.	.
PINTAIL	.	.	0	0	0	.	0	.	.	.	.	.
WOOD DUCK	.	.	0	0	0	.	0	.	.	.	.	.
TOTAL DABBLERS	.	.	954	1033	1256	.	641	.	.	.	.	.
REDHEAD	.	.	0	0	0	.	0	.	.	.	.	.
CANVASBACK	.	.	0	0	0	.	0	.	.	.	.	.
SCAUP	.	.	0	0	0	.	0	.	.	.	.	.
RINGNECK	.	.	0	0	0	.	0	.	.	.	.	.
RUDDY DUCK	.	.	0	0	0	.	0	.	.	.	.	.
GOLDENEYE	.	.	0	0	0	.	0	.	.	.	.	.
BUFFLEHEAD	.	.	0	0	0	.	0	.	.	.	.	.
TOTAL DIVERS	.	.	0	0	0	.	0	.	.	.	.	.
UNIDENTIFIED DUCKS	.	.	0	0	0	.	0	.	.	.	.	.
TOTAL DUCKS	.	.	954	1033	1256	.	641	.	.	.	.	.
MERGANSERS	.	.	0	0	0	.	0	.	.	.	.	.
CANADA GOOSE	.	.	400	239	515	.	385	.	.	.	.	.
BLUE GOOSE	.	.	0	0	0	.	0	.	.	.	.	.
SNOW GOOSE	.	.	0	0	0	.	0	.	.	.	.	.
WHITE-FRONTED GOOSE	.	.	0	0	0	.	0	.	.	.	.	.
TOTAL GEESE	.	.	400	239	515	.	385	.	.	.	.	.
COOTS	.	.	0	0	0	.	0	.	.	.	.	.
SWANS	.	.	0	0	0	.	0	.	.	.	.	.
EAGLES	.	.	0	0	0	.	0	.	.	.	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = CHEROKEE LAKE

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	38	.	.	.	.	21	5	.	.	24	.	.
BLACK DUCK	11	.	.	.	.	3	13	.	.	0	.	.
GADWALL	6	.	.	.	.	0	0	.	.	6	.	.
WIGEON	0	.	.	.	.	0	0	.	.	0	.	.
GREEN-WINGED TEAL	0	.	.	.	.	0	0	.	.	0	.	.
BLUE-WINGED TEAL	0	.	.	.	.	0	0	.	.	0	.	.
SHOVELER	0	.	.	.	.	0	0	.	.	0	.	.
PINTAIL	0	.	.	.	.	0	0	.	.	0	.	.
WOOD DUCK	0	.	.	.	.	0	0	.	.	0	.	.
TOTAL DABBLERS	55	.	.	.	.	24	18	.	.	30	.	.
REDHEAD	0	.	.	.	.	0	0	.	.	0	.	.
CANVASBACK	0	.	.	.	.	0	0	.	.	0	.	.
SCAUP	0	.	.	.	.	0	30	.	.	30	.	.
RINGNECK	0	.	.	.	.	3	0	.	.	2	.	.
RUDDY DUCK	0	.	.	.	.	0	0	.	.	150	.	.
GOLDENEYE	0	.	.	.	.	0	0	.	.	0	.	.
BUFFLEHEAD	0	.	.	.	.	0	0	.	.	0	.	.
TOTAL DIVERS	0	.	.	.	.	3	30	.	.	182	.	.
UNIDENTIFIED DUCKS	0	.	.	.	.	0	0	.	.	0	.	.
TOTAL DUCKS	55	.	.	.	.	27	54	.	.	212	.	.
MERGANSERS	0	.	.	.	.	0	6	.	.	0	.	.
CANADA GOOSE	165	.	.	.	.	168	35	.	.	133	.	.
BLUE GOOSE	0	.	.	.	.	0	0	.	.	0	.	.
SNOW GOOSE	0	.	.	.	.	0	0	.	.	0	.	.
WHITE-FRONTED GOOSE	0	.	.	.	.	0	0	.	.	0	.	.
TOTAL GEESE	165	.	.	.	.	168	35	.	.	133	.	.
COOTS	0	.	.	.	.	0	0	.	.	0	.	.
SWANS	0	.	.	.	.	0	0	.	.	0	.	.
EAGLES	0	.	.	.	.	0	0	.	.	0	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
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1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = CHICKAMAUGA RES

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	.	194	726	.	776	.	1566	2030	4401	464	.
BLACK DUCK	.	.	60	246	.	753	.	1169	1388	1286	257	.
GADWALL	.	.	262	236	.	62	.	168	405	80	0	.
WIGEON	.	.	0	32	.	4	.	0	22	0	0	.
GREEN-WINGED TEAL	.	.	0	30	.	0	.	0	35	12	0	.
BLUE-WINGED TEAL	.	.	0	0	.	0	.	0	0	0	0	.
SHOVELER	.	.	0	0	.	0	.	0	0	0	0	.
PINTAIL	.	.	0	0	.	0	.	0	0	0	0	.
WOOD DUCK	.	.	0	0	.	0	.	0	0	0	0	.
TOTAL DABBLERS	.	.	516	1270	.	1595	.	2903	3880	5779	721	.
REDHEAD	.	.	0	0	.	0	.	0	0	0	0	
CANVASBACK	.	.	0	0	.	0	.	0	0	0	0	.
SCAUP	.	.	0	0	.	0	.	0	0	0	0	.
RINGNECK	.	.	29	29	.	52	.	186	40	0	0	.
RUDDY DUCK	.	.	0	0	.	0	.	0	0	0	0	.
GOLDENEYE	.	.	0	0	.	0	.	0	0	0	0	.
BUFFLEHEAD	.	.	0	0	.	0	.	0	0	0	0	.
TOTAL DIVERS	.	.	29	29	.	52	.	186	40	0	0	.
UNIDENTIFIED DUCKS	.	.	25	17	.	0	.	4	0	25	0	.
TOTAL DUCKS	.	.	570	1327	.	1647	.	3100	3920	5804	721	.
MERGANSERS	.	.	0	11	.	0	.	7	0	0	0	.
CANADA GOOSE	.	.	933	2129	.	284	.	1824	1400	1125	308	.
BLUE GOOSE	.	.	0	0	.	0	.	0	0	0	0	.
SNOW GOOSE	.	.	0	2	.	0	.	1	0	0	0	.
WHITE-FRONTED GOOSE	.	.	0	0	.	0	.	0	0	0	0	.
TOTAL GEESE	.	.	933	2131	.	284	.	1825	1400	1125	308	.
COOTS	.	.	95	120	.	62	.	83	133	185	53	.
SWANS	.	.	0	0	.	0	.	0	0	0	0	.
EAGLES	.	.	0	0	.	0	.	0	0	0	0	.

'.' = MISSING VALUE (No survey conducted during this survey period).
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1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = CHICKASAW NWR

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	47	29	3711	54860	5626	.	1762	444	366	311	.
BLACK DUCK	.	0	8	25	310	224	.	25	23	0	8	.
GADWALL	.	15	0	0	25	28	.	0	0	14	10	.
WIGEON	.	0	0	0	0	0	.	20	0	0	145	.
GREEN-WINGED TEAL	.	0	0	0	0	0	.	0	6	300	225	.
BLUE-WINGED TEAL	.	0	0	0	0	0	.	0	0	0	0	.
SHOVELER	.	0	0	0	0	0	.	0	0	0	10	.
PINTAIL	.	0	0	0	0	0	.	0	380	100	0	.
WOOD DUCK	.	0	22	18	0	0	.	0	0	0	0	.
TOTAL DABBLERS	.	62	59	3754	55195	5878	.	1807	853	780	709	.
REDHEAD	.	0	0	0	0	0	.	0	0	0	0	.
CANVASBACK	.	0	0	0	250	0	.	0	0	0	0	.
SCAUP	.	20	0	0	0	0	.	0	0	0	0	.
RINGNECK	.	0	0	0	300	6085	.	0	0	0	72	.
RUDDY DUCK	.	0	0	0	0	0	.	0	0	0	0	.
GOLDENEYE	.	0	0	0	0	0	.	0	0	0	0	.
BUFFLEHEAD	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DIVERS	.	20	0	0	550	6085	.	0	0	0	72	
UNIDENTIFIED DUCKS	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DUCKS	.	82	74	3779	55745	11963	.	1807	855	780	781	.
MERGANSERS	.	0	15	25	0	0	.	0	2	0	0	.
CANADA GOOSE	.	0	0	0	40	0	.	500	1500	701	75	.
BLUE GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
SNOW GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
WHITE-FRONTED GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL GEESE	.	0	0	0	40	0	.	500	1500	701	75	.
COOTS	.	0	0	0	0	0	.	0	0	0	0	.
SWANS	.	0	0	0	0	0	.	0	0	0	0	.
EAGLES	.	0	0	0	0	0	.	0	0	0	0	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = CORDELL HULL RES

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	0	10	100	12	.	4	.	.	.	.	
BLACK DUCK	.	0	0	41	15	.	0	.	.	.	.	
GADWALL	.	0	60	0	0	.	0	.	.	.	.	.
WIGEON	.	0	0	0	0	.	0	.	.	.	.	.
GREEN-WINGED TEAL	.	0	0	0	0	.	0	.	.	.	.	.
BLUE-WINGED TEAL	.	0	0	0	0	.	0	.	.	.	.	.
SHOVELER	.	0	0	0	0	.	0	.	.	.	.	.
PINTAIL	.	0	0	0	0	.	0	.	.	.	.	.
WOOD DUCK	.	0	0	0	0	.	0	.	.	.	.	.
TOTAL DABBLERS	.	0	70	141	27	.	4	.	.	.	.	.
REDHEAD	.	0	0	0	0	.	0	.	.	.	.	.
CANVASBACK	.	0	0	0	0	.	0	.	.	.	.	.
SCAUP	.	0	0	0	0	.	0	.	.	.	.	.
RINGNECK	.	0	0	0	0	.	0	.	.	.	.	.
RUDDY DUCK	.	0	0	0	0	.	0	.	.	.	.	.
GOLDENEYE	.	0	0	0	0	.	0	.	.	.	.	.
BUFFLEHEAD	.	0	0	0	0	.	0	.	.	.	.	.
TOTAL DIVERS	.	0	0	0	0	.	0	.	.	.	.	.
UNIDENTIFIED DUCKS	.	0	0	0	0	.	0	.	.	.	.	.
TOTAL DUCKS	.	0	70	157	27	.	4	.	.	.	.	.
MERGANSERS	.	0	0	16	0	.	0	.	.	.	.	.
CANADA GOOSE	.	42	88	298	210	.	200	.	.	.	.	.
BLUE GOOSE	.	0	0	0	0	.	0	.	.	.	.	.
SNOW GOOSE	.	0	0	0	0	.	0	.	.	.	.	.
WHITE-FRONTED GOOSE	.	0	0	0	0	.	0	.	.	.	.	.
TOTAL GEESE	.	42	88	298	210	.	200	.	.	.	.	.
COOTS	.	0	0	0	0	.	0	.	.	.	.	.
SWANS	.	0	0	0	0	.	0	.	.	.	.	.
EAGLES	.	0	0	0	0	.	0	.	.	.	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = CROSS CREEKS NWR

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	581	2509	5793	5793	58065	22599	4093	4090	3272	952	.	.
BLACK DUCK	328	383	1209	1894	5054	3896	1748	2476	617	430	.	.
GADWALL	461	447	1735	4735	2037	775	555	270	77	27	.	.
WIGEON	192	283	593	995	535	838	559	847	217	146	.	.
GREEN-WINGED TEAL	411	332	835	1014	1002	25	97	28	0	0	.	.
BLUE-WINGED TEAL	2	0	0	0	0	10	0	28	0	0	.	.
SHOVELER	0	5	23	15	4	33	16	49	41	9	.	.
PINTAIL	60	131	68	160	150	114	48	12	2	0	.	.
WOOD DUCK	134	214	253	253	609	70	32	0	18	8	.	.
TOTAL DABBLERS	1679	4117	10204	13806	61526	28302	6226	7723	4071	1572	.	.
REDHEAD	0	0	0	0	0	0	0	0	0	0	.	.
CANVASBACK	0	0	20	20	0	0	0	12	2	0	.	.
SCAUP	0	0	125	6	0	0	0	0	0	0	.	.
RINGNECK	20	2	3001	1200	1121	2385	1122	874	475	90	.	.
RUDDY DUCK	0	0	0	0	0	0	0	0	0	0	.	.
GOLDENEYE	0	0	0	0	0	0	0	0	0	0	.	.
BUFFLEHEAD	0	0	2	3	0	0	0	0	0	0	.	.
TOTAL DIVERS	20	2	3128	1215	1121	2385	1122	874	475	90	.	.
UNIDENTIFIED DUCKS	0	0	0	0	0	0	0	0	0	0	.	.
TOTAL DUCKS	1699	4118	10549	13951	61926	30687	7281	8601	4498	1662	.	.
MERGANSERS	0	0	19	31	119	36	12	21	69	0	.	.
CANADA GOOSE	695	654	1061	2281	8210	14946	12605	9299	11248	1977	.	.
BLUE GOOSE	0	0	0	0	0	0	0	0	0	0	.	.
SNOW GOOSE	0	0	1	5	6	4	7	2	2	0	.	.
WHITE-FRONTED GOOSE	0	0	2	2	0	0	0	0	2	0	.	.
TOTAL GEESE	695	654	1063	2283	8210	14946	12610	9300	11249	1977	.	.
COOTS	4	4	100	100	25	26	25	58	60	15	.	.
SWANS	0	0	1	2	2	3	2	0	0	0	.	.
EAGLES	0	0	0	0	0	0	0	0	0	0	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = DOUGLAS LAKE

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	.	190	.	.	317	173	.	.	50	.	
BLACK DUCK	.	.	41	.	.	97	59	.	.	20	.	.
GADWALL	.	.	37	.	.	4	5	.	.	15	.	.
WIGEON	.	.	0	.	.	0	0	.	.	0	.	.
GREEN-WINGED TEAL	.	.	0	.	.	0	2	.	.	24	.	.
BLUE-WINGED TEAL	.	.	8	.	.	0	0	.	.	0	.	.
SHOVELER	.	.	0	.	.	0	0	.	.	0	.	.
PINTAIL	.	.	0	.	.	0	0	.	.	0	.	.
WOOD DUCK	.	.	0	.	.	0	0	.	.	0	.	.
TOTAL DABBLERS	.	.	276	.	.	418	239	.	.	109	.	.
REDHEAD	.	.	0	.	.	0	0	.	.	0	.	.
CANVASBACK	.	.	0	.	.	0	0	.	.	0	.	.
SCAUP	.	.	2	.	.	0	6	.	.	11	.	.
RINGNECK	.	.	162	.	.	34	107	.	.	35	.	.
RUDDY DUCK	.	.	0	.	.	0	0	.	.	0	.	.
GOLDENEYE	.	.	0	.	.	0	0	.	.	0	.	.
BUFFLEHEAD	.	.	0	.	.	0	0	.	.	0	.	
TOTAL DIVERS	.	.	164	.	.	34	113	.	.	46	.	.
UNIDENTIFIED DUCKS	.	.	0	.	.	0	0	.	.	0	.	.
TOTAL DUCKS	.	.	454	.	.	452	352	.	.	155	.	.
MERGANSERS	.	.	14	.	.	0	0	.	.	0	.	.
CANADA GOOSE	.	.	30	.	.	0	0	.	.	20	.	.
BLUE GOOSE	.	.	0	.	.	0	0	.	.	0	.	.
SNOW GOOSE	.	.	0	.	.	0	0	.	.	0	.	.
WHITE-FRONTED GOOSE	.	.	0	.	.	0	0	.	.	0	.	.
TOTAL GEESE	.	.	30	.	.	0	0	.	.	20	.	.
COOTS	.	.	0	.	.	0	0	.	.	0	.	.
SWANS	.	.	0	.	.	0	0	.	.	0	.	.
EAGLES	.	.	0	.	.	0	0	.	.	0	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = DUCK RIVER TNWR

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	890	1773	12015	16435	131160	90075	55760	49860	620	.	.	.
BLACK DUCK	41	615	1509	3660	18450	9335	4528	5620	309	.	.	.
GADWALL	2564	2535	2108	1150	5305	7147	2645	3010	490	.	.	.
WIGEON	358	420	820	380	2410	425	1160	508	45	.	.	.
GREEN-WINGED TEAL	279	350	0	135	1725	650	500	0	0	.	.	.
BLUE-WINGED TEAL	70	0	0	0	0	0	0	0	0	.	.	.
SHOVELER	0	35	0	0	300	30	20	0	0	.	.	.
PINTAIL	0	20	20	398	960	1195	3080	1075	25	.	.	.
WOOD DUCK	20	0	180	15	0	0	0	0	0	.	.	.
TOTAL DABBLERS	4145	5748	16652	22173	160310	108857	67693	60073	1489	.	.	.
REDHEAD	0	0	0	0	0	0	0	0	0	.	.	.
CANVASBACK	0	0	0	5	300	0	800	440	75	.	.	.
SCAUP	0	0	0	15	0	3190	500	15	0	.	.	.
RINGNECK	0	0	20	10	410	3225	6375	115	0	.	.	.
RUDDY DUCK	0	0	0	0	0	0	0	0	0	.	.	.
GOLDENEYE	0	0	255	120	25	260	50	275	187	.	.	.
BUFFLEHEAD	0	0	6	0	0	0	0	0	0	.	.	.
TOTAL DIVERS	0	0	281	150	735	6675	7725	845	262	.	.	.
UNIDENTIFIED DUCKS	0	0	60	0	0	0	0	0	0	.	.	.
TOTAL DUCKS	4145	5748	17543	22773	162295	115717	75748	61128	1751	.	.	.
MERGANSERS	0	0	550	450	1250	185	330	210	0	.	.	.
CANADA GOOSE	720	965	1225	2189	12110	26481	26630	34831	6062	.	.	.
BLUE GOOSE	4	0	1	0	0	0	0	0	0	.	.	.
SNOW GOOSE	4	0	1	2	7	0	0	3	1	.	.	.
WHITE-FRONTED GOOSE	0	0	0	0	0	0	0	0	0	.	.	.
TOTAL GEESE	724	965	1227	2191	12117	26481	26630	34834	6063	.	.	.
COOTS	0	570	150	450	0	0	0	0	0	.	.	.
SWANS	0	0	0	0	0	0	0	0	0	.	.	.
EAGLES	0	0	9	13	6	0	6	0	6	.	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
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1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = FORKED DEER (MF)

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	1	.	3169	4635	200	.	1731	454	304	296	.
BLACK DUCK	.	1	.	50	26	5	.	22	14	0	8	.
GADWALL	.	2	.	1	7	0	.	0	0	0	0	.
WIGEON	.	0	.	0	0	0	.	0	0	0	85	.
GREEN-WINGED TEAL	.	10	.	25	0	0	.	0	0	0	35	.
BLUE-WINGED TEAL	.	0	.	0	0	0	.	0	0	0	0	.
SHOVELER	.	0	.	0	0	0	.	0	0	0	0	.
PINTAIL	.	0	.	0	0	0	.	0	0	150	0	.
WOOD DUCK	.	0	.	0	0	0	.	0	0	0	0	.
TOTAL DABBLERS	.	14	.	3245	4706	205	.	1753	468	454	424	.
REDHEAD	.	0	.	0	0	0	.	0	0	0	0	.
CANVASBACK	.	0	.	0	0	0	.	0	0	0	0	.
SCAUP	.	0	.	0	0	0	.	0	0	0	0	.
RINGNECK	.	0	.	0	0	0	.	0	2	72	25	.
RUDDY DUCK	.	0	.	0	0	0	.	0	0	0	0	.
GOLDENEYE	.	0	.	0	0	0	.	0	0	0	0	.
BUFFLEHEAD	.	0	.	0	0	0	.	0	0	0	0	.
TOTAL DIVERS	.	0	.	0	0	0	.	0	2	72	25	.
UNIDENTIFIED DUCKS	.	0	.	0	0	0	.	0	0	0	0	.
TOTAL DUCKS	.	14	.	3245	4706	205	.	1753	480	527	457	.
MERGANSERS	.	0	.	0	0	0	.	0	10	1	8	.
CANADA GOOSE	.	0	.	0	10	0	.	2	0	0	0	.
BLUE GOOSE	.	0	.	0	0	0	.	0	0	0	0	.
SNOW GOOSE	.	0	.	0	0	0	.	0	0	0	0	.
WHITE-FRONTED GOOSE	.	0	.	0	0	0	.	0	0	0	0	.
TOTAL GEESE	.	0	.	0	10	0	.	2	0	0	0	.
COOTS	.	0	.	0	0	0	.	0	0	0	0	.
SWANS	.	0	.	0	0	0	.	0	0	0	0	.
EAGLES	.	0	.	0	0	0	.	0	0	0	0	.

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1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = FORKED DEER (SF)

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	25	162	810	4627	4860	.	11875	10215	3265	2042	.
BLACK DUCK	.	0	3	24	65	134	.	96	198	71	42	.
GADWALL	.	0	202	0	6	0	.	15	5	2	150	.
WIGEON	.	0	0	0	0	0	.	0	1551	50	102	.
GREEN-WINGED TEAL	.	0	20	0	0	0	.	0	25	125	45	.
BLUE-WINGED TEAL	.	0	0	0	0	0	.	0	0	160	160	.
SHOVELER	.	0	0	0	0	0	.	0	70	101	50	.
PINTAIL	.	0	0	0	200	510	.	0	2050	3508	50	.
WOOD DUCK	.	0	8	14	0	0	.	13	0	0	0	.
TOTAL DABBLERS	.	25	395	848	4860	5504	.	11999	14114	7282	2641	.
REDHEAD	.	0	0	0	0	0	.	0	0	0	0	.
CANVASBACK	.	0	0	0	0	0	.	0	0	17	0	.
SCAUP	.	0	0	0	0	0	.	0	0	1300	0	.
RINGNECK	.	0	0	60	0	2045	.	1100	4755	8032	2870	.
RUDDY DUCK	.	0	0	0	0	0	.	0	0	0	0	.
GOLDENEYE	.	0	0	0	0	0	.	0	0	0	0	.
BUFFLEHEAD	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DIVERS	.	0	0	60	0	2045	.	1100	4755	9349	2870	.
UNIDENTIFIED DUCKS	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DUCKS	.	25	395	908	4860	7549	.	13099	18869	16636	5551	.
MERGANSERS	.	0	0	0	0	0	.	0	0	5	40	.
CANADA GOOSE	.	5	8	20	307	0	.	198	350	144	57	.
BLUE GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
SNOW GOOSE	.	0	0	5	0	0	.	0	0	0	0	.
WHITE-FRONTED GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL GEESE	.	5	8	25	307	0	.	198	350	144	57	.
COOTS	.	0	0	0	0	0	.	0	0	0	0	.
SWANS	.	3	4	4	1	1	.	2	2	2	0	.
EAGLES	.	0	0	0	0	0	.	0	0	0	0	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = GOOCH WMA

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	0	20	339	2823	2	.	641	249	907	278	.
BLACK DUCK	.	0	0	2	51	0	.	10	17	18	10	.
GADWALL	.	0	0	185	354	0	.	0	35	50	0	.
WIGEON	.	0	0	0	100	0	.	0	0	50	15	.
GREEN-WINGED TEAL	.	0	0	0	0	0	.	0	0	0	0	.
BLUE-WINGED TEAL	.	0	0	0	0	0	.	0	0	0	0	.
SHOVELER	.	0	0	0	0	0	.	0	0	0	0	.
PINTAIL	.	0	0	0	0	0	.	0	0	0	0	.
WOOD DUCK	.	0	0	15	0	0	.	0	0	0	2	.
TOTAL DABBLERS	.	0	20	541	3328	2	.	651	301	1025	305	.
REDHEAD	.	0	0	0	0	0	.	0	0	0	0	.
CANVASBACK	.	0	0	0	0	0	.	0	13	0	0	.
SCAUP	.	0	0	0	0	0	.	0	400	350	0	.
RINGNECK	.	0	0	10	20	0	.	3	0	0	0	.
RUDDY DUCK	.	0	0	0	0	0	.	0	0	0	0	.
GOLDENEYE	.	0	0	0	0	0	.	0	0	0	0	.
BUFFLEHEAD	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DIVERS	.	0	0	10	20	0	.	3	413	350	0	.
UNIDENTIFIED DUCKS	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DUCKS	.	0	20	551	3348	2	.	654	714	1375	305	.
MERGANSERS	.	0	0	0	0	0	.	0	0	0	0	.
CANADA GOOSE	.	0	0	0	6	0	.	17	17	0	0	.
BLUE GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
SNOW GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
WHITE-FRONTED GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL GEESE	.	0	0	0	6	0	.	17	17	0	0	.
COOTS	.	0	0	0	0	0	.	0	0	0	0	.
SWANS	.	0	0	0	0	0	.	0	0	0	0	.
EAGLES	.	0	0	0	0	0	.	0	0	0	0	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = HARMONS CREEK WMA

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	0	.	.	0	0	0	.	30	.	.	.	.
BLACK DUCK	0	.	.	0	0	0	.	25	.	.	.	.
GADWALL	0	.	.	60	0	0	.	0	.	.	.	.
WIGEON	0	.	.	35	0	0	.	0	.	.	.	.
GREEN-WINGED TEAL	0	.	.	0	0	0	.	0	.	.	.	.
BLUE-WINGED TEAL	0	.	.	0	0	0	.	0	.	.	.	.
SHOVELER	0	.	.	0	0	0	.	0	.	.	.	.
PINTAIL	0	.	.	0	0	0	.	0	.	.	.	.
WOOD DUCK	0	.	.	0	0	0	.	0	.	.	.	.
TOTAL DABBLERS	0	.	.	95	0	0	.	55	.	.	.	.
REDHEAD	0	.	.	0	0	0	.	0	.	.	.	.
CANVASBACK	0	.	.	0	0	0	.	0	.	.	.	.
SCAUP	0	.	.	0	0	0	.	0	.	.	.	.
RINGNECK	0	.	.	0	0	0	.	0	.	.	.	.
RUDDY DUCK	0	.	.	0	0	0	.	0	.	.	.	.
GOLDENEYE	0	.	.	0	0	0	.	0	.	.	.	.
BUFFLEHEAD	0	.	.	0	0	0	.	0	.	.	.	.
TOTAL DIVERS	0	.	.	0	0	0	.	0	.	.	.	.
UNIDENTIFIED DUCKS	0	.	.	0	0	0	.	0	.	.	.	.
TOTAL DUCKS	0	.	.	95	0	0	.	55	.	.	.	.
MERGANSERS	0	.	.	0	0	0	.	0	.	.	.	.
CANADA GOOSE	0	.	.	0	0	0	.	0	.	.	.	.
BLUE GOOSE	0	.	.	0	0	0	.	0	.	.	.	.
SNOW GOOSE	0	.	.	0	0	0	.	0	.	.	.	.
WHITE-FRONTED GOOSE	0	.	.	0	0	0	.	0	.	.	.	.
TOTAL GEESE	0	.	.	0	0	0	.	0	.	.	.	.
COOTS	0	.	.	0	0	0	.	0	.	.	.	.
SWANS	0	.	.	0	0	0	.	0	.	.	.	.
EAGLES	0	.	.	0	0	0	.	0	.	.	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = HATCHIE NWR

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	0	144	1116	1136	4640	.	315	2284	296	127	
BLACK DUCK	.	0	15	10	32	119	.	12	63	26	4	.
GADWALL	.	0	0	0	50	26	.	2	6	0	0	.
WIGEON	.	0	0	9	0	0	.	0	0	0	25	.
GREEN-WINGED TEAL	.	0	0	0	0	0	.	0	0	0	20	.
BLUE-WINGED TEAL	.	0	0	0	0	0	.	0	0	0	0	.
SHOVELER	.	0	0	0	0	0	.	0	0	4	0	.
PINTAIL	.	0	0	0	0	0	.	0	0	0	0	.
WOOD DUCK	.	0	0	0	0	0	.	0	0	2	0	.
TOTAL DABBLERS	.	0	159	1135	1218	4785	.	329	2353	328	176	.
REDHEAD	.	0	0	0	0	0	.	0	0	0	0	.
CANVASBACK	.	0	0	0	0	0	.	0	0	0	0	.
SCAUP	.	0	0	0	0	0	.	0	30	0	0	.
RINGNECK	.	0	10	0	0	0	.	150	0	0	150	.
RUDDY DUCK	.	0	0	0	0	0	.	0	0	0	0	.
GOLDENEYE	.	0	0	0	0	0	.	0	0	0	0	.
BUFFLEHEAD	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DIVERS	.	0	10	0	0	0	.	150	30	0	150	.
UNIDENTIFIED DUCKS	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DUCKS	.	0	179	1135	1218	4785	.	479	2385	334	329	.
MERGANSERS	.	0	10	0	0	0	.	0	2	6	3	.
CANADA GOOSE	.	15	40	30	200	454	.	639	481	350	0	.
BLUE GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
SNOW GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
WHITE-FRONTED GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL GEESE	.	15	40	30	200	454	.	639	481	350	0	.
COOTS	.	0	0	0	0	0	.	0	0	0	0	.
SWANS	.	0	0	0	0	0	.	2	0	0	0	.
EAGLES	.	0	0	0	0	0	.	0	0	0	0	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = HOLSTON RIVER

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	.	214	.	.	808	153	.	.	139	.	.
BLACK DUCK	.	.	126	.	.	153	54	.	.	68	.	.
GADWALL	.	.	67	.	.	6	6	.	.	47	.	.
WIGEON	.	.	0	.	.	0	0	.	.	26	.	.
GREEN-WINGED TEAL	.	.	0	.	.	0	0	.	.	0	.	.
BLUE-WINGED TEAL	.	.	0	.	.	0	0	.	.	0	.	.
SHOVELER	.	.	0	.	.	0	0	.	.	0	.	.
PINTAIL	.	.	0	.	.	0	0	.	.	0	.	.
WOOD DUCK	.	.	0	.	.	0	0	.	.	0	.	.
TOTAL DABBLERS	.	.	407	.	.	967	213	.	.	280	.	.
REDHEAD	.	.	0	.	.	0	0	.	.	0	.	.
CANVASBACK	.	.	10	.	.	0	0	.	.	0	.	.
SCAUP	.	.	379	.	.	400	125	.	.	325	.	.
RINGNECK	.	.	181	.	.	112	0	.	.	127	.	.
RUDDY DUCK	.	.	0	.	.	0	0	.	.	0	.	.
GOLDENEYE	.	.	0	.	.	0	0	.	.	75	.	.
BUFFLEHEAD	.	.	0	.	.	0	0	.	.	0	.	.
TOTAL DIVERS	.	.	570	.	.	512	125	.	.	527	.	.
UNIDENTIFIED DUCKS	.	.	0	.	.	0	0	.	.	0	.	.
TOTAL DUCKS	.	.	977	.	.	1479	338	.	.	807	.	.
MERGANSERS	.	.	0	.	.	0	0	.	.	0	.	.
CANADA GOOSE	.	.	1139	.	.	1155	1037	.	.	1026	.	.
BLUE GOOSE	.	.	0	.	.	0	0	.	.	0	.	.
SNOW GOOSE	.	.	0	.	.	1	0	.	.	0	.	.
WHITE-FRONTED GOOSE	.	.	0	.	.	0	0	.	.	0	.	.
TOTAL GEESE	.	.	1139	.	.	1156	1037	.	.	1026	.	.
COOTS	.	.	382	.	.	0	25	.	.	226	.	.
SWANS	.	.	0	.	.	0	0	.	.	0	.	.
EAGLES	.	.	0	.	.	0	0	.	.	0	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = HOP-IN REF

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	0	0	0	2008	0	.	0	.	.	.	
BLACK DUCK	.	0	0	0	20	0	.	0	.	.	.	.
GADWALL	.	0	0	0	0	0	.	0	.	.	.	.
WIGEON	.	0	0	0	7	0	.	0	.	.	.	.
GREEN-WINGED TEAL	.	0	0	0	0	0	.	0	.	.	.	.
BLUE-WINGED TEAL	.	0	0	0	0	0	.	0	.	.	.	.
SHOVELER	.	0	0	0	0	0	.	0	.	.	.	.
PINTAIL	.	0	0	0	0	0	.	0	.	.	.	.
WOOD DUCK	.	0	0	0	0	0	.	0	.	.	.	.
TOTAL DABBLERS	.	0	0	0	2035	0	.	0	.	.	.	.
REDHEAD	.	0	0	0	0	0	.	0	.	.	.	.
CANVASBACK	.	0	0	0	0	0	.	0	.	.	.	.
SCAUP	.	0	0	0	0	0	.	0	.	.	.	.
RINGNECK	.	0	0	0	0	0	.	0	.	.	.	.
RUDDY DUCK	.	0	0	0	0	0	.	0	.	.	.	.
GOLDENEYE	.	0	0	0	0	0	.	0	.	.	.	.
BUFFLEHEAD	.	0	0	0	0	0	.	0	.	.	.	.
TOTAL DIVERS	.	0	0	0	0	0	.	0	.	.	.	.
UNIDENTIFIED DUCKS	.	0	0	0	0	0	.	0	.	.	.	.
TOTAL DUCKS	.	0	0	0	2035	0	.	0	.	.	.	.
MERGANSERS	.	0	0	0	0	0	.	0	.	.	.	
CANADA GOOSE	.	0	0	0	0	0	.	0	.	.	.	.
BLUE GOOSE	.	0	0	0	0	0	.	0	.	.	.	.
SNOW GOOSE	.	0	0	0	0	0	.	0	.	.	.	
WHITE-FRONTED GOOSE	.	0	0	0	0	0	.	0	.	.	.	.
TOTAL GEESE	.	0	0	0	0	0	.	0	.	.	.	.
COOTS	.	0	0	0	0	0	.	0	.	.	.	.
SWANS	.	0	0	0	0	0	.	0	.	.	.	.
EAGLES	.	0	0	0	0	0	.	0	.	.	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = HORNS BLUFF

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	34	42	0	0	0	.	2900	645	834	118	.
BLACK DUCK	.	0	1	0	0	0	.	26	25	29	4	.
GADWALL	.	0	0	0	0	0	.	0	49	0	0	.
WIGEON	.	0	0	0	0	0	.	0	2	0	0	.
GREEN-WINGED TEAL	.	0	0	0	0	0	.	0	0	0	0	.
BLUE-WINGED TEAL	.	0	0	0	0	0	.	0	0	0	0	.
SHOVELER	.	0	0	0	0	0	.	0	0	0	0	.
PINTAIL	.	0	0	0	0	0	.	0	85	0	0	.
WOOD DUCK	.	0	0	0	0	0	.	0	0	0	1	.
TOTAL DABBLERS	.	34	43	0	0	0	.	2926	806	863	123	.
REDHEAD	.	0	0	0	0	0	.	0	0	0	0	.
CANVASBACK	.	0	0	0	0	0	.	0	0	0	0	.
SCAUP	.	0	0	0	0	0	.	0	0	0	0	.
RINGNECK	.	0	0	0	0	0	.	0	3	425	25	.
RUDDY DUCK	.	0	0	0	0	0	.	0	0	0	0	.
GOLDENEYE	.	0	0	0	0	0	.	0	0	0	0	.
BUFFLEHEAD	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DIVERS	.	0	0	0	0	0	.	0	3	425	25	.
UNIDENTIFIED DUCKS	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DUCKS	.	34	43	0	0	0	.	2926	809	1288	148	.
MERGANSERS	.	0	0	0	0	0	.	0	0	0	0	.
CANADA GOOSE	.	0	0	0	0	0	.	0	27	0	0	.
BLUE GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
SNOW GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
WHITE-FRONTED GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL GEESE	.	0	0	0	0	0	.	0	27	0	0	.
COOTS	.	0	0	0	0	0	.	0	0	0	0	.
SWANS	.	0	0	0	0	0	.	0	0	0	0	.
EAGLES	.	0	0	0	0	0	.	0	0	0	0	.

'.' = MISSING VALUE (No survey conducted during this survey period).
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1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = KENTUCKY RES

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	3	.	.	197	225	22	.	6715	180	.	.	.
BLACK DUCK	10	.	.	20	0	21	.	1700	75	.	.	.
GADWALL	475	.	.	1260	0	73	.	50	455	.	.	.
WIGEON	0	.	.	10	0	0	.	0	35	.	.	.
GREEN-WINGED TEAL	0	.	.	0	0	0	.	0	0	.	.	.
BLUE-WINGED TEAL	0	.	.	0	0	0	.	0	0	.	.	.
SHOVELER	0	.	.	0	0	0	.	0	0	.	.	.
PINTAIL	0	.	.	0	0	0	.	0	0	.	.	.
WOOD DUCK	0	.	.	0	0	0	.	0	0	.	.	.
TOTAL DABBLERS	488	.	.	1487	225	116	.	8465	745	.	.	.
REDHEAD	0	.	.	0	0	0	.	0	0	.	.	.
CANVASBACK	0	.	.	0	0	0	.	30	0	.	.	.
SCAUP	0	.	.	0	0	0	.	0	0	.	.	.
RINGNECK	0	.	.	200	50	0	.	620	25	.	.	.
RUDDY DUCK	0	.	.	0	0	0	.	0	0	.	.	.
GOLDENEYE	0	.	.	20	0	15	.	0	364	.	.	.
BUFFLEHEAD	0	.	.	0	0	0	.	0	0	.	.	.
TOTAL DIVERS	0	.	.	220	50	15	.	650	389	.	.	.
UNIDENTIFIED DUCKS	0	.	.	0	0	0	.	85	0	.	.	.
TOTAL DUCKS	488	.	.	1735	275	131	.	9256	1134	.	.	.
MERGANSERS	0	.	.	28	0	0	.	56	0	.	.	.
CANADA GOOSE	0	.	.	35	0	0	.	480	41	.	.	.
BLUE GOOSE	0	.	.	0	0	0	.	0	0	.	.	.
SNOW GOOSE	0	.	.	0	0	0	.	0	0	.	.	.
WHITE-FRONTED GOOSE	0	.	.	0	0	0	.	0	0	.	.	.
TOTAL GEESE	0	.	.	35	0	0	.	480	41	.	.	.
COOTS	150	.	.	0	0	20	.	0	50	.	.	.
SWANS	0	.	.	0	0	0	.	0	0	.	.	.
EAGLES	0	.	.	0	0	0	.	0	0	.	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
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1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = LAKE ISOM NWR

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	.	.	792	3000	1500	650	100	.	.	.	.
BLACK DUCK	.	.	.	2	200	0	10	2	.	.	.	.
GADWALL	.	.	.	308	0	0	0	0	.	.	.	.
WIGEON	.	.	.	0	0	0	0	0	.	.	.	.
GREEN-WINGED TEAL	.	.	.	0	0	0	0	0	.	.	.	.
BLUE-WINGED TEAL	.	.	.	0	0	0	0	0	.	.	.	.
SHOVELER	.	.	.	0	0	0	0	0	.	.	.	.
PINTAIL	.	.	.	0	0	0	0	0	.	.	.	.
WOOD DUCK	.	.	.	0	0	0	0	0	.	.	.	.
TOTAL DABBLERS	.	.	.	1102	3200	1500	660	102	.	.	.	.
REDHEAD	.	.	.	0	0	0	0	0	.	.	.	.
CANVASBACK	.	.	.	0	0	0	0	0	.	.	.	.
SCAUP	.	.	.	0	0	0	0	0	.	.	.	.
RINGNECK	.	.	.	0	0	6	0	7	.	.	.	.
RUDDY DUCK	.	.	.	0	0	0	0	0	.	.	.	.
GOLDENEYE	.	.	.	0	0	0	0	0	.	.	.	.
BUFFLEHEAD	.	.	.	0	0	0	0	0	.	.	.	.
TOTAL DIVERS	.	.	.	0	0	6	0	7	.	.	.	.
UNIDENTIFIED DUCKS	.	.	.	0	0	0	0	0	.	.	.	.
TOTAL DUCKS	.	.	.	1102	3200	1506	660	109	.	.	.	.
MERGANSERS	.	.	.	0	0	0	0	0	.	.	.	.
CANADA GOOSE	.	.	.	450	730	2000	2000	3750	.	.	.	.
BLUE GOOSE	.	.	.	0	0	0	0	0	.	.	.	.
SNOW GOOSE	.	.	.	0	0	0	0	0	.	.	.	.
WHITE-FRONTED GOOSE	.	.	.	0	0	0	0	0	.	.	.	.
TOTAL GEESE	.	.	.	450	730	2000	2000	3750	.	.	.	.
COOTS	.	.	.	0	0	0	0	0	.	.	.	.
SWANS	.	.	.	0	0	0	0	0	.	.	.	.
EAGLES	.	.	.	0	0	0	0	0	.	.	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = LAUDERDALE REF

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	0	908	3041	6550	14350	.	100	132	50	.	.
BLACK DUCK	.	0	0	29	50	120	.	10	54	0	.	.
GADWALL	.	0	0	50	0	50	.	3	0	40	.	.
WIGEON	.	0	0	10	10	0	.	0	25	0	.	.
GREEN-WINGED TEAL	.	0	0	50	0	0	.	0	0	0	.	.
BLUE-WINGED TEAL	.	0	0	0	0	0	.	0	0	0	.	.
SHOVELER	.	0	0	0	0	0	.	5	6	25	.	.
PINTAIL	.	0	75	0	0	0	.	10	20	0	.	.
WOOD DUCK	.	0	0	0	0	0	.	0	0	0	.	.
TOTAL DABBLERS	.	0	983	3180	6610	14520	.	128	237	115	.	.
REDHEAD	.	0	0	0	0	0	.	0	0	0	.	.
CANVASBACK	.	0	50	15	75	0	.	0	0	0	.	.
SCAUP	.	0	150	0	0	0	.	0	0	10	.	.
RINGNECK	.	0	0	150	900	500	.	0	0	5	.	.
RUDDY DUCK	.	0	0	0	0	0	.	0	0	0	.	.
GOLDENEYE	.	0	0	0	0	0	.	0	0	0	.	.
BUFFLEHEAD	.	0	0	0	0	0	.	0	0	0	.	.
TOTAL DIVERS	.	0	200	165	975	500	.	0	0	15	.	.
UNIDENTIFIED DUCKS	.	0	0	0	0	0	.	0	0	0	.	.
TOTAL DUCKS	.	0	1183	3345	7585	15020	.	128	237	130	.	.
MERGANSERS	.	0	0	0	0	0	.	0	0	0	.	.
CANADA GOOSE	.	0	0	0	500	2050	.	1000	1515	50	.	.
BLUE GOOSE	.	0	0	0	0	0	.	0	8	0	.	.
SNOW GOOSE	.	0	0	0	0	1	.	0	5	0	.	.
WHITE-FRONTED GOOSE	.	0	0	0	52	0	.	0	0	0	.	.
TOTAL GEESE	.	0	0	0	552	2051	.	1000	1528	50	.	.
COOTS	.	0	0	0	0	0	.	0	0	12	.	.
SWANS	.	0	1	1	0	0	.	0	0	0	.	.
EAGLES	.	0	0	0	0	0	.	0	0	0	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
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1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = LOWER HATCHIE NWR

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	0	525	207	2362	1289	.	234	245	165	312	.
BLACK DUCK	.	0	0	4	228	0	.	0	2	0	0	.
GADWALL	.	0	0	0	0	2	.	0	0	0	0	.
WIGEON	.	0	0	0	0	0	.	0	0	0	0	.
GREEN-WINGED TEAL	.	0	0	0	0	0	.	0	0	0	0	.
BLUE-WINGED TEAL	.	0	0	0	0	0	.	0	0	0	0	.
SHOVELER	.	0	0	0	0	0	.	0	0	0	58	.
PINTAIL	.	0	0	0	0	10	.	0	0	0	50	.
WOOD DUCK	.	0	0	0	0	25	.	0	0	0	0	.
TOTAL DABBLERS	.	0	525	211	2590	1326	.	234	247	165	420	.
REDHEAD	.	0	0	0	0	0	.	0	0	0	0	.
CANVASBACK	.	0	0	0	0	0	.	0	0	0	0	.
SCAUP	.	0	0	0	0	0	.	0	0	0	0	.
RINGNECK	.	0	50	0	0	0	.	5	0	0	0	.
RUDDY DUCK	.	0	0	0	0	0	.	0	0	0	0	.
GOLDENEYE	.	0	0	0	0	0	.	0	0	0	0	.
BUFFLEHEAD	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DIVERS	.	0	50	0	0	0	.	5	0	0	0	.
UNIDENTIFIED DUCKS	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DUCKS	.	0	575	211	2590	1326	.	239	247	165	420	.
MERGANSERS	.	0	0	0	0	0	.	0	0	0	0	.
CANADA GOOSE	.	0	0	0	0	3	.	0	0	50	0	.
BLUE GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
SNOW GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
WHITE-FRONTED GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL GEESE	.	0	0	0	0	3	.	0	0	50	0	.
COOTS	.	0	0	0	0	0	.	0	0	0	0	.
SWANS	.	0	0	0	0	0	.	0	0	0	0	.
EAGLES	.	0	0	0	0	0	.	0	0	0	0	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = MANESS SWAMP

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	0	0	0	53	1080	.	250	390	228	.	.
BLACK DUCK	.	0	0	0	0	12	.	10	18	8	.	.
GADWALL	.	0	0	0	0	0	.	0	0	0	.	.
WIGEON	.	0	0	0	0	0	.	0	50	0	.	.
GREEN-WINGED TEAL	.	0	0	0	0	0	.	0	0	0	.	.
BLUE-WINGED TEAL	.	0	0	0	0	0	.	0	0	0	.	.
SHOVELER	.	0	0	0	0	0	.	0	0	0	.	.
PINTAIL	.	0	0	0	0	0	.	0	100	0	.	.
WOOD DUCK	.	0	0	0	0	0	.	0	0	0	.	.
TOTAL DABBLERS	.	0	0	0	53	1092	.	260	558	236	.	.
REDHEAD	.	0	0	0	0	0	.	0	0	0	.	.
CANVASBACK	.	0	0	0	0	0	.	0	0	0	.	.
SCAUP	.	0	0	0	0	0	.	0	0	0	.	.
RINGNECK	.	0	0	0	0	0	.	0	6	0	.	.
RUDDY DUCK	.	0	0	0	0	0	.	0	0	0	.	.
GOLDENEYE	.	0	0	0	0	0	.	0	0	0	.	.
BUFFLEHEAD	.	0	0	0	0	0	.	0	0	0	.	.
TOTAL DIVERS	.	0	0	0	0	0	.	0	6	0	.	.
UNIDENTIFIED DUCKS	.	0	0	0	0	0	.	0	0	0	.	.
TOTAL DUCKS	.	0	0	0	53	1092	.	260	564	236	.	.
MERGANSERS	.	0	0	0	0	0	.	0	0	0	.	.
CANADA GOOSE	.	0	0	0	0	0	.	0	0	0	.	.
BLUE GOOSE	.	0	0	0	0	0	.	0	0	0	.	.
SNOW GOOSE	.	0	0	0	0	0	.	0	0	0	.	.
WHITE-FRONTED GOOSE	.	0	0	0	0	0	.	0	0	0	.	.
TOTAL GEESE	.	0	0	0	0	0	.	0	0	0	.	.
COOTS	.	0	0	0	0	0	.	0	0	0	.	.
SWANS	.	0	0	0	0	0	.	0	0	0	.	.
EAGLES	.	0	0	0	0	0	.	0	0	0	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = MELTON HILL RES

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	.	.	.	.	.	32	.	.	.	.	.
BLACK DUCK	.	.	.	.	.	.	0	.	.	.	.	.
GADWALL	.	.	.	.	.	.	0	.	.	.	.	.
WIGEON	.	.	.	.	.	.	0	.	.	.	.	.
GREEN-WINGED TEAL	.	.	.	.	.	.	0	.	.	.	.	.
BLUE-WINGED TEAL	.	.	.	.	.	.	0	.	.	.	.	.
SHOVELER	.	.	.	.	.	.	0	.	.	.	.	.
PINTAIL	.	.	.	.	.	.	0	.	.	.	.	.
WOOD DUCK	.	.	.	.	.	.	0	.	.	.	.	.
TOTAL DABBLERS	.	.	.	.	.	.	32	.	.	.	.	.
REDHEAD	.	.	.	.	.	.	0	.	.	.	.	.
CANVASBACK	.	.	.	.	.	.	0	.	.	.	.	.
SCAUP	.	.	.	.	.	.	0	.	.	.	.	.
RINGNECK	.	.	.	.	.	.	0	.	.	.	.	.
RUDDY DUCK	.	.	.	.	.	.	0	.	.	.	.	.
GOLDENEYE	.	.	.	.	.	.	0	.	.	.	.	.
BUFFLEHEAD	.	.	.	.	.	.	0	.	.	.	.	.
TOTAL DIVERS	.	.	.	.	.	.	0	.	.	.	.	.
UNIDENTIFIED DUCKS	.	.	.	.	.	.	0	.	.	.	.	.
TOTAL DUCKS	.	.	.	.	.	.	32	.	.	.	.	.
MERGANSERS	.	.	.	.	.	.	0	.	.	.	.	.
CANADA GOOSE	.	.	.	.	.	.	96	.	.	.	.	.
BLUE GOOSE	.	.	.	.	.	.	0	.	.	.	.	.
SNOW GOOSE	.	.	.	.	.	.	0	.	.	.	.	.
WHITE-FRONTED GOOSE	.	.	.	.	.	.	0	.	.	.	.	.
TOTAL GEESE	.	.	.	.	.	.	96	.	.	.	.	.
COOTS	.	.	.	.	.	.	0	.	.	.	.	.
SWANS	.	.	.	.	.	.	0	.	.	.	.	.
EAGLES	.	.	.	.	.	.	0	.	.	.	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = MOSS ISLAND

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	65	17	0	300	0	.	0	17	30	0	.
BLACK DUCK	.	0	10	0	25	0	.	0	10	0	0	.
GADWALL	.	0	0	0	0	0	.	0	0	5	0	.
WIGEON	.	10	0	0	0	0	.	0	0	0	0	.
GREEN-WINGED TEAL	.	3	0	0	0	0	.	0	0	0	0	.
BLUE-WINGED TEAL	.	0	0	0	0	0	.	0	0	0	0	.
SHOVELER	.	0	0	0	0	0	.	0	0	25	0	.
PINTAIL	.	0	0	0	0	0	.	0	0	0	0	.
WOOD DUCK	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DABBLERS	.	78	27	0	325	0	.	0	27	60	0	.
REDHEAD	.	0	0	0	0	0	.	0	0	0	0	.
CANVASBACK	.	0	0	0	0	0	.	0	0	0	0	.
SCAUP	.	0	0	0	0	0	.	0	0	0	0	.
RINGNECK	.	0	0	0	0	0	.	0	0	0	0	.
RUDDY DUCK	.	0	0	0	0	0	.	0	0	0	0	.
GOLDENEYE	.	0	0	0	0	0	.	0	0	0	0	.
BUFFLEHEAD	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DIVERS	.	0	0	0	0	0	.	0	0	0	0	.
UNIDENTIFIED DUCKS	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DUCKS	.	78	27	0	325	0	.	0	27	60	0	.
MERGANSERS	.	0	0	0	0	0	.	0	0	0	0	.
CANADA GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
BLUE GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
SNOW GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
WHITE-FRONTED GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL GEESE	.	0	0	0	0	0	.	0	0	0	0	.
COOTS	.	0	0	0	0	0	.	0	0	35	0	.
SWANS	.	0	0	0	0	0	.	0	0	0	0	.
EAGLES	.	0	0	0	0	0	.	0	0	0	0	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = NOLICHUCKY WMA

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	.	.	.	.	.	27	.	.	.	.	.
BLACK DUCK	.	.	.	.	.	.	9	.	.	.	.	.
GADWALL	.	.	.	.	.	.	0	.	.	.	.	.
WIGEON	.	.	.	.	.	.	0	.	.	.	.	.
GREEN-WINGED TEAL	.	.	.	.	.	.	0	.	.	.	.	.
BLUE-WINGED TEAL	.	.	.	.	.	.	0	.	.	.	.	.
SHOVELER	.	.	.	.	.	.	0	.	.	.	.	.
PINTAIL	.	.	.	.	.	.	0	.	.	.	.	.
WOOD DUCK	.	.	.	.	.	.	0	.	.	.	.	.
TOTAL DABBLERS	.	.	.	.	.	.	36	.	.	.	.	.
REDHEAD	.	.	.	.	.	.	0	.	.	.	.	.
CANVASBACK	.	.	.	.	.	.	0	.	.	.	.	.
SCAUP	.	.	.	.	.	.	0	.	.	.	.	.
RINGNECK	.	.	.	.	.	.	0	.	.	.	.	.
RUDDY DUCK	.	.	.	.	.	.	0	.	.	.	.	.
GOLDENEYE	.	.	.	.	.	.	0	.	.	.	.	.
BUFFLEHEAD	.	.	.	.	.	.	0	.	.	.	.	.
TOTAL DIVERS	.	.	.	.	.	.	0	.	.	.	.	.
UNIDENTIFIED DUCKS	.	.	.	.	.	.	0	.	.	.	.	.
TOTAL DUCKS	.	.	.	.	.	.	36	.	.	.	.	.
MERGANSERS	.	.	.	.	.	.	0	.	.	.	.	.
CANADA GOOSE	.	.	.	.	.	.	125	.	.	.	.	.
BLUE GOOSE	.	.	.	.	.	.	0	.	.	.	.	.
SNOW GOOSE	.	.	.	.	.	.	0	.	.	.	.	.
WHITE-FRONTED GOOSE	.	.	.	.	.	.	0	.	.	.	.	.
TOTAL GEESE	.	.	.	.	.	.	125	.	.	.	.	.
COOTS	.	.	.	.	.	.	0	.	.	.	.	.
SWANS	.	.	.	.	.	.	0	.	.	.	.	.
EAGLES	.	.	.	.	.	.	0	.	.	.	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = NORMANDY RES

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	0	0	0	30	.	0	.	.	.	.	.
BLACK DUCK	.	0	0	0	15	.	0	.	.	.	.	.
GADWALL	.	0	0	0	17	.	0	.	.	.	.	.
WIGEON	.	0	0	0	0	.	0	.	.	.	.	.
GREEN-WINGED TEAL	.	0	0	0	0	.	0	.	.	.	.	.
BLUE-WINGED TEAL	.	0	0	0	0	.	0	.	.	.	.	.
SHOVELER	.	0	0	0	0	.	0	.	.	.	.	.
PINTAIL	.	0	0	0	0	.	0	.	.	.	.	.
WOOD DUCK	.	0	0	0	0	.	0	.	.	.	.	.
TOTAL DABBLERS	.	0	0	0	62	.	0	.	.	.	.	.
REDHEAD	.	0	0	0	0	.	0	.	.	.	.	.
CANVASBACK	.	0	0	0	0	.	0	.	.	.	.	.
SCAUP	.	0	0	0	0	.	0	.	.	.	.	.
RINGNECK	.	0	0	0	0	.	0	.	.	.	.	.
RUDDY DUCK	.	0	0	0	0	.	0	.	.	.	.	.
GOLDENEYE	.	0	0	0	0	.	0	.	.	.	.	.
BUFFLEHEAD	.	0	0	0	4	.	0	.	.	.	.	.
TOTAL DIVERS	.	0	0	0	4	.	0	.	.	.	.	.
UNIDENTIFIED DUCKS	.	0	0	0	10	.	11	.	.	.	.	.
TOTAL DUCKS	.	0	0	10	76	.	11	.	.	.	.	.
MERGANSERS	.	0	0	10	0	.	0	.	.	.	.	.
CANADA GOOSE	.	200	160	45	86	.	69	.	.	.	.	.
BLUE GOOSE	.	0	0	0	0	.	0	.	.	.	.	.
SNOW GOOSE	.	0	0	0	0	.	0	.	.	.	.	.
WHITE-FRONTED GOOSE	.	0	0	0	0	.	0	.	.	.	.	.
TOTAL GEESE	.	200	160	45	86	.	69	.	.	.	.	.
COOTS	.	0	3	0	0	.	9	.	.	.	.	.
SWANS	.	0	0	0	0	.	0	.	.	.	.	.
EAGLES	.	0	0	0	0	.	0	.	.	.	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = OBION RIVER

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	15	25	0	932	707	.	2201	2657	1049	160	.
BLACK DUCK	.	0	7	0	0	47	.	31	13	24	0	.
GADWALL	.	0	0	0	0	0	.	0	0	180	20	.
WIGEON	.	0	0	0	0	0	.	0	25	154	0	.
GREEN-WINGED TEAL	.	0	0	0	0	0	.	0	0	0	185	.
BLUE-WINGED TEAL	.	0	0	0	0	0	.	0	0	0	0	.
SHOVELER	.	0	0	0	0	0	.	0	0	0	202	.
PINTAIL	.	0	0	0	0	0	.	0	302	85	120	.
WOOD DUCK	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DABBLERS	.	15	32	0	932	754	.	2232	2997	1492	687	.
REDHEAD	.	0	0	0	0	0	.	0	0	0	0	.
CANVASBACK	.	0	0	0	0	26	.	0	0	0	0	.
SCAUP	.	0	0	0	0	0	.	0	75	0	20	.
RINGNECK	.	0	0	0	25	800	.	0	0	0	0	.
RUDDY DUCK	.	0	0	0	0	0	.	0	0	0	0	.
GOLDENEYE	.	0	0	0	0	0	.	0	0	0	0	.
BUFFLEHEAD	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DIVERS	.	0	0	0	25	826	.	0	75	0	20	.
UNIDENTIFIED DUCKS	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DUCKS	.	15	32	0	957	1580	.	2232	3072	1492	707	.
MERGANSERS	.	0	0	0	0	0	.	0	0	0	0	.
CANADA GOOSE	.	0	0	0	0	0	.	0	2	0	0	.
BLUE GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
SNOW GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
WHITE-FRONTED GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL GEESE	.	0	0	0	0	0	.	0	2	0	0	.
COOTS	.	0	0	0	0	0	.	0	0	0	0	.
SWANS	.	0	0	0	0	0	.	0	0	0	0	.
EAGLES	.	0	0	0	0	0	.	0	0	0	0	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = OBION/FORKED DEER R

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	265	5185	11300	52310	0	.	6146	1735	1283	510	.
BLACK DUCK	.	0	50	66	208	0	.	148	40	12	3	.
GADWALL	.	0	0	0	500	0	.	400	21	420	10	.
WIGEON	.	0	1	300	0	0	.	0	10	10	25	.
GREEN-WINGED TEAL	.	0	0	0	0	0	.	0	0	0	60	.
BLUE-WINGED TEAL	.	0	0	0	0	0	.	0	0	0	0	.
SHOVELER	.	0	0	0	0	0	.	0	0	0	0	.
PINTAIL	.	0	0	0	0	0	.	0	250	50	2	.
WOOD DUCK	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DABBLERS	.	265	5236	11666	53018	0	.	6694	2056	1775	610	.
REDHEAD	.	0	0	0	0	0	.	0	0	0	0	.
CANVASBACK	.	0	0	0	0	0	.	75	26	0	0	.
SCAUP	.	0	0	0	0	0	.	500	203	550	0	.
RINGNECK	.	0	63	150	0	0	.	1500	146	8	30	.
RUDDY DUCK	.	0	0	0	0	0	.	0	0	0	0	.
GOLDENEYE	.	0	0	0	0	0	.	0	0	0	0	.
BUFFLEHEAD	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DIVERS	.	0	63	150	0	0	.	2075	375	558	30	.
UNIDENTIFIED DUCKS	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DUCKS	.	265	5299	11816	53018	0	.	8770	2431	2333	640	.
MERGANSERS	.	0	0	0	0	0	.	1	0	0	0	.
CANADA GOOSE	.	0	0	0	250	0	.	460	236	0	0	.
BLUE GOOSE	.	0	0	0	1	0	.	0	30	0	0	.
SNOW GOOSE	.	0	0	0	2	0	.	0	34	0	0	.
WHITE-FRONTED GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL GEESE	.	0	0	0	253	0	.	460	300	0	0	.
COOTS	.	0	0	0	0	0	.	2	1	0	0	.
SWANS	.	0	0	0	0	0	.	0	0	0	0	.
EAGLES	.	0	0	0	0	0	.	0	0	0	0	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = OLD HICKORY RES

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	.	609	717	1940	.	765	.	.	.	.	.
BLACK DUCK	.	.	148	250	408	.	244	.	.	.	.	.
GADWALL	.	.	1272	1214	459	.	56	.	.	.	.	.
WIGEON	.	.	295	0	0	.	0	.	.	.	.	.
GREEN-WINGED TEAL	.	.	0	0	0	.	0	.	.	.	.	.
BLUE-WINGED TEAL	.	.	0	0	0	.	0	.	.	.	.	.
SHOVELER	.	.	0	0	0	.	0	.	.	.	.	.
PINTAIL	.	.	0	0	0	.	0	.	.	.	.	.
WOOD DUCK	.	.	0	0	53	.	0	.	.	.	.	.
TOTAL DABBLERS	.	.	2324	2181	2860	.	1065	.	.	.	.	.
REDHEAD	.	.	0	0	0	.	0	.	.	.	.	.
CANVASBACK	.	.	0	0	0	.	0	.	.	.	.	.
SCAUP	.	.	0	10	0	.	0	.	.	.	.	.
RINGNECK	.	.	0	0	0	.	0	.	.	.	.	.
RUDDY DUCK	.	.	0	0	0	.	0	.	.	.	.	.
GOLDENEYE	.	.	0	0	0	.	0	.	.	.	.	.
BUFFLEHEAD	.	.	0	0	0	.	0	.	.	.	.	.
TOTAL DIVERS	.	.	0	10	0	.	0	.	.	.	.	.
UNIDENTIFIED DUCKS	.	.	0	20	0	.	0	.	.	.	.	.
TOTAL DUCKS	.	.	2496	2231	2860	.	1102	.	.	.	.	.
MERGANSERS	.	.	172	20	0	.	37	.	.	.	.	.
CANADA GOOSE	.	.	1690	1863	1681	.	2286	.	.	.	.	.
BLUE GOOSE	.	.	7	0	0	.	0	.	.	.	.	.
SNOW GOOSE	.	.	1	0	0	.	0	.	.	.	.	.
WHITE-FRONTED GOOSE	.	.	0	0	0	.	0	.	.	.	.	.
TOTAL GEESE	.	.	1698	1863	1681	.	2286	.	.	.	.	.
COOTS	.	.	1340	0	164	.	520	.	.	.	.	.
SWANS	.	.	0	0	0	.	0	.	.	.	.	.
EAGLES	.	.	0	0	0	.	0	.	.	.	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = OPEN LAKE

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	14	73	650	56	19	.	12	0	2	0	.
BLACK DUCK	.	0	3	0	0	0	.	2	0	0	0	.
GADWALL	.	22	160	200	10	0	.	0	0	8	0	.
WIGEON	.	0	0	0	0	0	.	0	0	0	0	.
GREEN-WINGED TEAL	.	25	0	0	0	0	.	0	0	0	0	.
BLUE-WINGED TEAL	.	0	0	0	0	0	.	0	0	0	0	.
SHOVELER	.	0	0	0	0	0	.	0	0	0	0	.
PINTAIL	.	0	0	0	0	0	.	0	0	0	0	.
WOOD DUCK	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DABBLERS	.	61	236	850	66	19	.	14	0	10	0	.
REDHEAD	.	0	0	0	0	0	.	0	0	0	0	.
CANVASBACK	.	0	0	0	0	2	.	0	0	0	2	.
SCAUP	.	0	15	0	0	0	.	0	0	0	0	.
RINGNECK	.	0	130	22	0	25	.	0	0	0	0	.
RUDDY DUCK	.	0	0	0	0	300	.	15	5000	25	600	.
GOLDENEYE	.	0	0	0	0	0	.	0	0	0	0	.
BUFFLEHEAD	.	0	0	8	0	0	.	0	0	0	0	.
TOTAL DIVERS	.	0	145	30	0	327	.	15	5000	25	602	.
UNIDENTIFIED DUCKS	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DUCKS	.	61	434	882	66	346	.	29	5010	35	602	.
MERGANSERS	.	0	53	2	0	0	.	0	10	0	0	.
CANADA GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
BLUE GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
SNOW GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
WHITE-FRONTED GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL GEESE	.	0	0	0	0	0	.	0	0	0	0	.
COOTS	.	0	20	0	0	0	.	0	0	0	0	.
SWANS	.	0	0	0	0	0	.	0	0	0	0	.
EAGLES	.	0	2	0	0	0	.	0	0	0	0	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = REELFOOT NWR

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	.	.	26100	26600	84150	59500	24750	.	.	.	.
BLACK DUCK	.	.	.	135	400	1500	4500	250	.	.	.	.
GADWALL	.	.	.	4900	500	400	50	300	.	.	.	.
WIGEON	.	.	.	1650	250	65	2	200	.	.	.	.
GREEN-WINGED TEAL	.	.	.	35	0	15	1	2	.	.	.	.
BLUE-WINGED TEAL	.	.	.	0	0	0	0	0	.	.	.	.
SHOVELER	.	.	.	85	0	10	2	0	.	.	.	.
PINTAIL	.	.	.	2	0	0	1	15	.	.	.	.
WOOD DUCK	.	.	.	36	0	5	0	12	.	.	.	.
TOTAL DABBLERS	.	.	.	32943	27750	85280	59806	25055	.	.	.	.
REDHEAD	.	.	.	0	0	0	0	0	.	.	.	.
CANVASBACK	.	.	.	0	0	0	0	0	.	.	.	.
SCAUP	.	.	.	15	25	0	1	0	.	.	.	.
RINGNECK	.	.	.	210	200	2500	650	350	.	.	.	.
RUDDY DUCK	.	.	.	0	0	0	0	0	.	.	.	.
GOLDENEYE	.	.	.	0	0	0	0	0	.	.	.	.
BUFFLEHEAD	.	.	.	0	0	0	2	0	.	.	.	.
TOTAL DIVERS	.	.	.	210	225	2500	653	350	.	.	.	.
UNIDENTIFIED DUCKS	.	.	.	0	0	0	0	0	.	.	.	.
TOTAL DUCKS	.	.	.	33183	27981	87555	60462	25072	.	.	.	.
MERGANSERS	.	.	.	30	6	0	14	17	.	.	.	.
CANADA GOOSE	.	.	.	4600	16550	63400	75500	12775	.	.	.	.
BLUE GOOSE	.	.	.	0	0	0	0	0	.	.	.	.
SNOW GOOSE	.	.	.	0	3	1	1	75	.	.	.	.
WHITE-FRONTED GOOSE	.	.	.	0	0	1	0	0	.	.	.	.
TOTAL GEESE	.	.	.	4600	16553	63400	75500	12775	.	.	.	.
COOTS	.	.	.	35	0	500	0	0	.	.	.	.
SWANS	.	.	.	0	0	0	0	0	.	.	.	.
EAGLES	.	.	.	8	0	0	0	0	.	.	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = REELFOOT REF

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	0	0	285	52	.	.	15000	54	1612	306	.
BLACK DUCK	.	0	0	20	0	.	.	0	4	0	0	.
GADWALL	.	0	0	0	0	.	.	0	0	0	20	.
WIGEON	.	0	0	0	0	.	.	0	0	0	0	.
GREEN-WINGED TEAL	.	0	0	0	0	.	.	0	0	0	0	.
BLUE-WINGED TEAL	.	0	0	0	0	.	.	0	0	0	0	.
SHOVELER	.	0	0	0	0	.	.	0	0	0	0	.
PINTAIL	.	0	0	0	0	.	.	0	0	0	0	.
WOOD DUCK	.	0	0	0	0	.	.	0	0	0	0	.
TOTAL DABBLERS	.	0	0	305	52	.	.	15000	58	1612	326	.
REDHEAD	.	0	0	0	0	.	.	0	0	0	0	.
CANVASBACK	.	0	0	0	0	.	.	0	0	0	0	.
SCAUP	.	0	0	0	0	.	.	0	0	0	0	.
RINGNECK	.	0	0	0	0	.	.	0	0	10	0	.
RUDDY DUCK	.	0	0	0	0	.	.	0	0	0	0	.
GOLDENEYE	.	0	0	0	0	.	.	0	0	0	0	.
BUFFLEHEAD	.	0	0	0	0	.	.	0	0	0	0	.
TOTAL DIVERS	.	0	0	0	0	.	.	0	0	10	0	.
UNIDENTIFIED DUCKS	.	0	0	0	0	.	.	0	0	0	0	.
TOTAL DUCKS	.	0	0	305	52	.	.	15000	58	1622	326	.
MERGANSERS	.	0	0	0	0	.	.	0	0	0	0	.
CANADA GOOSE	.	0	0	0	0	.	.	10000	8000	3600	0	.
BLUE GOOSE	.	0	0	0	0	.	.	0	0	0	0	.
SNOW GOOSE	.	0	0	0	0	.	.	0	11	0	0	.
WHITE-FRONTED GOOSE	.	0	0	0	0	.	.	0	0	0	0	.
TOTAL GEESE	.	0	0	0	0	.	.	10000	8011	3600	0	.
COOTS	.	0	0	0	0	.	.	0	0	0	0	.
SWANS	.	0	0	0	0	.	.	0	0	0	0	.
EAGLES	.	0	0	0	0	.	.	0	0	0	0	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = REELFOOT WMA

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	0	5930	37	300	.	.	.	.	.	.	.
BLACK DUCK	.	0	8	0	0	.	.	.	.	.	.	.
GADWALL	.	0	6469	0	0	.	.	.	.	.	.	.
WIGEON	.	0	3	0	0	.	.	.	.	.	.	.
GREEN-WINGED TEAL	.	0	0	0	0	.	.	.	.	.	.	.
BLUE-WINGED TEAL	.	0	0	0	0	.	.	.	.	.	.	.
SHOVELER	.	0	0	0	0	.	.	.	.	.	.	.
PINTAIL	.	0	0	0	0	.	.	.	.	.	.	.
WOOD DUCK	.	0	0	1	0	.	.	.	.	.	.	.
TOTAL DABBLERS	.	0	12410	38	300	.	.	.	.	.	.	.
REDHEAD	.	0	0	0	0	.	.	.	.	.	.	.
CANVASBACK	.	0	40	0	0	.	.	.	.	.	.	.
SCAUP	.	0	0	405	0	.	.	.	.	.	.	.
RINGNECK	.	0	1	0	0	.	.	.	.	.	.	.
RUDDY DUCK	.	0	755	4502	5000	.	.	.	.	.	.	.
GOLDENEYE	.	0	0	0	15	.	.	.	.	.	.	.
BUFFLEHEAD	.	0	0	0	0	.	.	.	.	.	.	.
TOTAL DIVERS	.	0	796	4907	5015	.	.	.	.	.	.	.
UNIDENTIFIED DUCKS	.	2867	0	0	0	.	.	.	.	.	.	.
TOTAL DUCKS	.	2867	13206	4945	5315	.	.	.	.	.	.	.
MERGANSERS	.	0	0	0	0	.	.	.	.	.	.	.
CANADA GOOSE	.	0	0	0	0	.	.	.	.	.	.	.
BLUE GOOSE	.	0	0	0	0	.	.	.	.	.	.	.
SNOW GOOSE	.	0	0	0	0	.	.	.	.	.	.	.
WHITE-FRONTED GOOSE	.	0	0	0	0	.	.	.	.	.	.	.
TOTAL GEESE	.	0	0	0	0	.	.	.	.	.	.	.
COOTS	.	415	2	3	0	.	.	.	.	.	.	.
SWANS	.	0	0	0	0	.	.	.	.	.	.	.
EAGLES	.	0	0	20	0	.	.	.	.	.	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = REELFOOT/LAKE ISOM

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	0	10995	.	.	.	.	.	.	.	.	.
BLACK DUCK	.	0	282	.	.	.	.	.	.	.	.	.
GADWALL	.	0	9159	.	.	.	.	.	.	.	.	.
WIGEON	.	0	0	.	.	.	.	.	.	.	.	.
GREEN-WINGED TEAL	.	0	0	.	.	.	.	.	.	.	.	.
BLUE-WINGED TEAL	.	0	0	.	.	.	.	.	.	.	.	.
SHOVELER	.	0	0	.	.	.	.	.	.	.	.	.
PINTAIL	.	0	0	.	.	.	.	.	.	.	.	.
WOOD DUCK	.	0	2	.	.	.	.	.	.	.	.	.
TOTAL DABBLERS	.	0	20438	.	.	.	.	.	.	.	.	.
REDHEAD	.	0	0	.	.	.	.	.	.	.	.	.
CANVASBACK	.	0	0	.	.	.	.	.	.	.	.	.
SCAUP	.	0	0	.	.	.	.	.	.	.	.	.
RINGNECK	.	0	26	.	.	.	.	.	.	.	.	.
RUDDY DUCK	.	0	0	.	.	.	.	.	.	.	.	.
GOLDENEYE	.	0	0	.	.	.	.	.	.	.	.	.
BUFFLEHEAD	.	0	0	.	.	.	.	.	.	.	.	.
TOTAL DIVERS	.	0	26	.	.	.	.	.	.	.	.	.
UNIDENTIFIED DUCKS	.	6420	0	.	.	.	.	.	.	.	.	.
TOTAL DUCKS	.	6420	20467	.	.	.	.	.	.	.	.	.
MERGANSERS	.	0	3	.	.	.	.	.	.	.	.	.
CANADA GOOSE	.	0	1478	.	.	.	.	.	.	.	.	.
BLUE GOOSE	.	0	0	.	.	.	.	.	.	.	.	.
SNOW GOOSE	.	0	0	.	.	.	.	.	.	.	.	.
WHITE-FRONTED GOOSE	.	0	0	.	.	.	.	.	.	.	.	.
TOTAL GEESE	.	0	1478	.	.	.	.	.	.	.	.	.
COOTS	.	0	0	.	.	.	.	.	.	.	.	.
SWANS	.	0	0	.	.	.	.	.	.	.	.	.
EAGLES	.	2	0	.	.	.	.	.	.	.	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = RICE WMA

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	0	0	0	20	0	.	0	.	.	0	.
BLACK DUCK	.	0	0	0	0	0	.	0	.	.	0	.
GADWALL	.	0	0	0	0	0	.	0	.	.	0	.
WIGEON	.	0	0	0	0	0	.	0	.	.	0	.
GREEN-WINGED TEAL	.	0	0	0	0	0	.	0	.	.	0	.
BLUE-WINGED TEAL	.	0	0	0	0	0	.	0	.	.	0	.
SHOVELER	.	0	0	0	0	0	.	0	.	.	0	.
PINTAIL	.	0	0	0	0	0	.	0	.	.	0	.
WOOD DUCK	.	0	0	0	0	0	.	0	.	.	0	.
TOTAL DABBLERS	.	0	0	0	20	0	.	0	.	.	0	.
REDHEAD	.	0	0	0	0	0	.	0	.	.	0	.
CANVASBACK	.	0	0	0	0	0	.	0	.	.	0	.
SCAUP	.	0	0	0	0	0	.	0	.	.	0	.
RINGNECK	.	0	0	0	0	0	.	0	.	.	0	.
RUDDY DUCK	.	0	0	0	0	0	.	0	.	.	0	.
GOLDENEYE	.	0	0	0	0	0	.	0	.	.	0	.
BUFFLEHEAD	.	0	0	0	0	0	.	0	.	.	0	.
TOTAL DIVERS	.	0	0	0	0	0	.	0	.	.	0	.
UNIDENTIFIED DUCKS	.	0	0	0	0	0	.	0	.	.	0	.
TOTAL DUCKS	.	0	0	0	20	0	.	0	.	.	0	.
MERGANSERS	.	0	0	0	0	0	.	0	.	.	0	.
CANADA GOOSE	.	0	0	0	0	0	.	0	.	.	0	.
BLUE GOOSE	.	0	0	0	0	0	.	0	.	.	0	.
SNOW GOOSE	.	0	0	0	0	0	.	0	.	.	0	.
WHITE-FRONTED GOOSE	.	0	0	0	0	0	.	0	.	.	0	.
TOTAL GEESE	.	0	0	0	0	0	.	0	.	.	0	.
COOTS	.	0	0	0	0	0	.	0	.	.	0	.
SWANS	.	0	0	0	0	0	.	0	.	.	0	.
EAGLES	.	0	0	0	0	0	.	0	.	.	0	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = SUNK LAKE

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	15	0	40	630	61	.	15	60	.	283	.
BLACK DUCK	.	0	0	0	20	2	.	2	0	.	0	.
GADWALL	.	0	0	0	0	0	.	0	0	.	75	.
WIGEON	.	0	0	0	0	0	.	0	0	.	0	.
GREEN-WINGED TEAL	.	0	0	0	0	0	.	0	0	.	0	.
BLUE-WINGED TEAL	.	0	0	0	0	0	.	0	0	.	0	.
SHOVELER	.	0	0	0	0	0	.	0	0	.	0	.
PINTAIL	.	0	0	0	0	0	.	0	0	.	5	.
WOOD DUCK	.	2	0	75	0	0	.	0	0	.	0	.
TOTAL DABBLERS	.	17	0	115	650	63	.	17	60	.	363	.
REDHEAD	.	0	0	0	0	0	.	0	0	.	0	.
CANVASBACK	.	0	0	0	0	0	.	0	0	.	0	.
SCAUP	.	0	0	0	0	0	.	0	0	.	0	.
RINGNECK	.	0	0	0	0	25	.	0	0	.	150	.
RUDDY DUCK	.	0	0	0	0	0	.	0	0	.	0	.
GOLDENEYE	.	0	0	0	0	0	.	0	0	.	0	.
BUFFLEHEAD	.	0	0	0	0	0	.	0	0	.	0	.
TOTAL DIVERS	.	0	0	0	0	25	.	0	0	.	150	.
UNIDENTIFIED DUCKS	.	0	0	0	0	0	.	0	0	.	0	.
TOTAL DUCKS	.	17	15	125	650	92	.	17	60	.	515	.
MERGANSERS	.	0	15	10	0	4	.	0	0	.	2	.
CANADA GOOSE	.	0	0	0	0	0	.	0	0	.	0	.
BLUE GOOSE	.	0	0	0	0	0	.	0	0	.	0	.
SNOW GOOSE	.	0	0	0	0	0	.	0	0	.	0	.
WHITE-FRONTED GOOSE	.	0	0	0	0	0	.	0	0	.	0	.
TOTAL GEESE	.	0	0	0	0	0	.	0	0	.	0	.
COOTS	.	0	0	0	0	0	.	0	0	.	0	.
SWANS	.	0	0	0	0	0	.	0	0	.	0	.
EAGLES	.	0	0	0	0	0	.	0	0	.	0	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = TELLICO LAKE WMA

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	.	.	.	.	.	450	.	.	.	.	.
BLACK DUCK	.	.	.	.	.	.	350	.	.	.	.	.
GADWALL	.	.	.	.	.	.	100	.	.	.	.	.
WIGEON	.	.	.	.	.	.	50	.	.	.	.	.
GREEN-WINGED TEAL	.	.	.	.	.	.	0	.	.	.	.	.
BLUE-WINGED TEAL	.	.	.	.	.	.	0	.	.	.	.	.
SHOVELER	.	.	.	.	.	.	0	.	.	.	.	.
PINTAIL	.	.	.	.	.	.	0	.	.	.	.	.
WOOD DUCK	.	.	.	.	.	.	0	.	.	.	.	.
TOTAL DABBLERS	.	.	.	.	.	.	950	.	.	.	.	.
REDHEAD	.	.	.	.	.	.	0	.	.	.	.	.
CANVASBACK	.	.	.	.	.	.	0	.	.	.	.	.
SCAUP	.	.	.	.	.	.	100	.	.	.	.	.
RINGNECK	.	.	.	.	.	.	100	.	.	.	.	.
RUDDY DUCK	.	.	.	.	.	.	0	.	.	.	.	.
GOLDENEYE	.	.	.	.	.	.	4	.	.	.	.	.
BUFFLEHEAD	.	.	.	.	.	.	0	.	.	.	.	.
TOTAL DIVERS	.	.	.	.	.	.	204	.	.	.	.	.
UNIDENTIFIED DUCKS	.	.	.	.	.	.	0	.	.	.	.	.
TOTAL DUCKS	.	.	.	.	.	.	1154	.	.	.	.	.
MERGANSERS	.	.	.	.	.	.	0	.	.	.	.	.
CANADA GOOSE	.	.	.	.	.	.	300	.	.	.	.	.
BLUE GOOSE	.	.	.	.	.	.	0	.	.	.	.	.
SNOW GOOSE	.	.	.	.	.	.	0	.	.	.	.	.
WHITE-FRONTED GOOSE	.	.	.	.	.	.	0	.	.	.	.	.
TOTAL GEESE	.	.	.	.	.	.	300	.	.	.	.	.
COOTS	.	.	.	.	.	.	0	.	.	.	.	.
SWANS	.	.	.	.	.	.	0	.	.	.	.	.
EAGLES	.	.	.	.	.	.	0	.	.	.	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = TIGRETT WMA

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	17	1798	5011	165	496	.	2002	7190	2762	310	.
BLACK DUCK	.	0	0	62	10	4	.	20	318	12	10	.
GADWALL	.	0	120	300	0	0	.	0	50	0	0	.
WIGEON	.	0	0	0	0	0	.	0	90	4	10	.
GREEN-WINGED TEAL	.	0	0	0	0	0	.	0	10	0	0	.
BLUE-WINGED TEAL	.	0	0	0	0	0	.	0	0	0	0	.
SHOVELER	.	0	0	0	0	0	.	0	0	0	0	.
PINTAIL	.	0	0	0	0	0	.	0	465	0	0	.
WOOD DUCK	.	0	16	1	0	0	.	0	0	0	0	.
TOTAL DABBLERS	.	17	1934	5374	175	500	.	2022	8123	2778	330	.
REDHEAD	.	0	0	0	0	0	.	0	0	0	0	.
CANVASBACK	.	0	0	0	0	0	.	0	0	0	0	.
SCAUP	.	0	0	275	0	0	.	0	0	0	0	.
RINGNECK	.	0	0	11	0	0	.	0	500	0	3	.
RUDDY DUCK	.	0	0	0	0	0	.	0	0	0	0	.
GOLDENEYE	.	0	0	0	0	0	.	0	0	0	0	.
BUFFLEHEAD	.	0	0	0	0	0	.	0	0	2	0	.
TOTAL DIVERS	.	0	0	286	0	0	.	0	500	2	3	.
UNIDENTIFIED DUCKS	.	0	0	0	0	0	.	0	0	0	0	.
TOTAL DUCKS	.	17	1934	5660	175	500	.	2022	8624	2780	333	.
MERGANSERS	.	0	0	0	0	0	.	0	1	0	0	.
CANADA GOOSE	.	0	0	20	0	2	.	12	1053	125	3	.
BLUE GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
SNOW GOOSE	.	0	0	0	0	0	.	0	0	0	0	.
WHITE-FRONTED GOOSE	.	0	0	.0	0	0	.	0	0	0	0	.
TOTAL GEESE	.	0	0	20	0	2	.	12	1053	125	3	.
COOTS	.	0	0	0	0	0	.	0	0	0	0	.
SWANS	.	0	0	0	0	0	.	0	0	2	0	.
EAGLES	.	0	0	0	0	0	.	0	0	0	0	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.

1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = TIMS FORD RES

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	17	0	2	0	.	0	.	.	.	.	.
BLACK DUCK	.	0	0	0	0	.	0	.	.	.	.	.
GADWALL	.	0	0	0	0	.	0	.	.	.	.	.
WIGEON	.	0	0	0	0	.	0	.	.	.	.	.
GREEN-WINGED TEAL	.	0	0	0	0	.	0	.	.	.	.	.
BLUE-WINGED TEAL	.	0	0	0	0	.	0	.	.	.	.	.
SHOVELER	.	0	0	0	0	.	0	.	.	.	.	.
PINTAIL	.	0	0	0	0	.	0	.	.	.	.	.
WOOD DUCK	.	0	0	0	0	.	0	.	.	.	.	.
TOTAL DABBLERS	.	17	0	2	0	.	0	.	.	.	.	.
REDHEAD	.	0	0	0	0	.	0	.	.	.	.	.
CANVASBACK	.	0	0	0	0	.	0	.	.	.	.	.
SCAUP	.	0	0	0	0	.	0	.	.	.	.	.
RINGNECK	.	0	0	0	0	.	0	.	.	.	.	.
RUDDY DUCK	.	0	0	0	0	.	0	.	.	.	.	.
GOLDENEYE	.	0	0	0	0	.	0	.	.	.	.	.
BUFFLEHEAD	.	0	0	0	0	.	0	.	.	.	.	.
TOTAL DIVERS	.	0	0	0	0	.	0	.	.	.	.	.
UNIDENTIFIED DUCKS	.	0	0	0	0	.	0	.	.	.	.	.
TOTAL DUCKS	.	17	0	14	0	.	0	.	.	.	.	.
MERGANSERS	.	0	0	12	0	.	0	.	.	.	.	.
CANADA GOOSE	.	320	235	133	143	.	147	.	.	.	.	.
BLUE GOOSE	.	0	0	0	0	.	0	.	.	.	.	.
SNOW GOOSE	.	0	0	0	0	.	4	.	.	.	.	.
WHITE-FRONTED GOOSE	.	0	0	0	0	.	0	.	.	.	.	.
TOTAL GEESE	.	320	235	133	143	.	151	.	.	.	.	.
COOTS	.	0	0	0	0	.	0	.	.	.	.	.
SWANS	.	0	0	0	0	.	0	.	.	.	.	.
EAGLES	.	0	0	0	0	.	0	.	.	.	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
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1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = WATTS BAR RES

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	.	24	98	.	106	.	549	127	198	.	.
BLACK DUCK	.	.	2	6	.	45	.	163	10	51	.	.
GADWALL	.	.	6	9	.	8	.	14	0	35	.	.
WIGEON	.	.	0	0	.	0	.	0	0	0	.	.
GREEN-WINGED TEAL	.	.	0	0	.	0	.	0	0	0	.	.
BLUE-WINGED TEAL	.	.	0	0	.	0	.	0	0	0	.	.
SHOVELER	.	.	0	0	.	0	.	0	0	0	.	.
PINTAIL	.	.	0	0	.	0	.	0	0	0	.	.
WOOD DUCK	.	.	0	0	.	0	.	0	0	0	.	.
TOTAL DABBLERS	.	.	32	113	.	159	.	726	137	284	.	.
REDHEAD	.	.	0	0	.	0	.	0	0	0	.	.
CANVASBACK	.	.	0	0	.	0	.	0	0	0	.	.
SCAUP	.	.	0	0	.	0	.	0	0	0	.	.
RINGNECK	.	.	0	0	.	32	.	18	0	0	.	.
RUDDY DUCK	.	.	0	0	.	0	.	0	0	0	.	.
GOLDENEYE	.	.	0	0	.	0	.	0	0	0	.	.
BUFFLEHEAD	.	.	0	0	.	0	.	0	0	0	.	.
TOTAL DIVERS	.	.	0	0	.	32	.	18	0	0	.	.
UNIDENTIFIED DUCKS	.	.	0	5	.	0	.	0	0	19	.	.
TOTAL DUCKS	.	.	32	124	.	191	.	756	137	303	.	.
MERGANSERS	.	.	0	6	.	0	.	12	0	0	.	.
CANADA GOOSE	.	.	1678	1826	.	660	.	1899	1110	928	.	.
BLUE GOOSE	.	.	0	0	.	0	.	0	0	0	.	.
SNOW GOOSE	.	.	0	0	.	0	.	0	0	0	.	.
WHITE-FRONTED GOOSE	.	.	0	0	.	0	.	0	0	0	.	.
TOTAL GEESE	.	.	1678	1826	.	660	.	1899	1110	928	.	.
COOTS	.	.	128	78	.	12	.	57	0	117	.	.
SWANS	.	.	0	2	.	0	.	0	0	0	.	.
EAGLES	.	.	0	1	.	0	.	0	0	2	.	.

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1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = WEST SANDY WMA

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	60	.	.	575	25	0	.	400	930	.	.	.
BLACK DUCK	0	.	.	0	0	0	.	0	100	.	.	.
GADWALL	15	.	.	150	0	0	.	0	0	.	.	.
WIGEON	0	.	.	0	0	0	.	0	0	.	.	.
GREEN-WINGED TEAL	0	.	.	0	0	0	.	0	0	.	.	.
BLUE-WINGED TEAL	0	.	.	0	0	0	.	0	0	.	.	.
SHOVELER	0	.	.	0	0	0	.	0	0	.	.	.
PINTAIL	0	.	.	0	0	0	.	0	0	.	.	.
WOOD DUCK	0	.	.	10	25	0	.	0	0	.	.	.
TOTAL DABBLERS	75	.	.	735	50	0	.	400	1030	.	.	.
REDHEAD	0	.	.	0	0	0	.	0	0	.	.	.
CANVASBACK	0	.	.	600	0	0	.	1550	250	.	.	.
SCAUP	0	.	.	0	0	0	.	0	0	.	.	.
RINGNECK	0	.	.	0	0	0	.	3975	0	.	.	.
RUDDY DUCK	0	.	.	0	0	0	.	0	0	.	.	.
GOLDENEYE	0	.	.	0	0	0	.	0	0	.	.	.
BUFFLEHEAD	0	.	.	0	0	0	.	0	0	.	.	.
TOTAL DIVERS	0	.	.	600	0	0	.	5525	250	.	.	.
UNIDENTIFIED DUCKS	0	.	.	0	0	0	.	0	0	.	.	.
TOTAL DUCKS	75	.	.	1335	50	0	.	5925	1280	.	.	.
MERGANSERS	0	.	.	0	0	0	.	0	0	.	.	.
CANADA GOOSE	0	.	.	148	0	0	.	300	6	.	.	.
BLUE GOOSE	0	.	.	0	0	0	.	0	0	.	.	.
SNOW GOOSE	0	.	.	0	0	0	.	0	0	.	.	.
WHITE-FRONTED GOOSE	0	.	.	0	0	0	.	0	0	.	.	.
TOTAL GEESE	0	.	.	148	0	0	.	300	6	.	.	.
COOTS	0	.	.	0	0	0	.	0	0	.	.	.
SWANS	0	.	.	0	0	0	.	0	0	.	.	.
EAGLES	0	.	.	0	0	0	.	0	0	.	.	.

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1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = WHITE LAKE REF

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	0	0	0	1150	2	.	0	.	.	16	.
BLACK DUCK	.	0	0	0	60	0	.	0	.	.	2	.
GADWALL	.	0	0	0	0	0	.	0	.	.	0	.
WIGEON	.	0	0	0	0	0	.	0	.	.	0	.
GREEN-WINGED TEAL	.	0	0	0	0	0	.	0	.	.	0	.
BLUE-WINGED TEAL	.	0	0	0	0	0	.	0	.	.	0	.
SHOVELER	.	0	0	0	0	0	.	0	.	.	0	.
PINTAIL	.	0	0	0	0	0	.	0	.	.	0	.
WOOD DUCK	.	0	0	0	0	0	.	0	.	.	0	.
TOTAL DABBLERS	.	0	0	0	1210	2	.	0	.	.	18	.
REDHEAD	.	0	0	0	0	0	.	0	.	.	0	.
CANVASBACK	.	0	0	0	25	0	.	0	.	.	0	.
SCAUP	.	0	0	0	15	0	.	0	.	.	0	.
RINGNECK	.	0	0	0	700	0	.	0	.	.	0	.
RUDDY DUCK	.	0	0	0	0	0	.	0	.	.	0	.
GOLDENEYE	.	0	0	0	0	0	.	0	.	.	0	.
BUFFLEHEAD	.	0	0	0	0	0	.	0	.	.	0	.
TOTAL DIVERS	.	0	0	0	740	0	.	0	.	.	0	.
UNIDENTIFIED DUCKS	.	0	0	0	0	0	.	0	.	.	0	.
TOTAL DUCKS	.	0	0	0	1950	2	.	0	.	.	18	.
MERGANSERS	.	0	0	0	0	0	.	0	.	.	0	.
CANADA GOOSE	.	0	0	0	206	0	.	0	.	.	0	.
BLUE GOOSE	.	0	0	0	0	0	.	0	.	.	0	.
SNOW GOOSE	.	0	0	0	1	0	.	0	.	.	0	.
WHITE-FRONTED GOOSE	.	0	0	0	0	0	.	0	.	.	0	.
TOTAL GEESE	.	0	0	0	207	0	.	0	.	.	0	.
COOTS	.	0	0	0	0	0	.	0	.	.	0	.
SWANS	.	0	0	0	0	0	.	0	.	.	0	.
EAGLES	.	0	0	0	0	0	.	0	.	.	0	.

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1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = WHITE OAK WMA

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	20	.	500	.	600	112	.	640	800	350	30	.
BLACK DUCK	0	.	60	.	12	2	.	8	25	4	0	.
GADWALL	7	.	50	.	40	12	.	12	120	12	0	.
WIGEON	0	.	45	.	32	3	.	110	80	10	0	.
GREEN-WINGED TEAL	0	.	0	.	0	0	.	20	0	0	0	.
BLUE-WINGED TEAL	0	.	0	.	0	0	.	0	0	0	0	.
SHOVELER	48	.	0	.	0	0	.	0	20	0	0	.
PINTAIL	0	.	0	.	0	5	.	20	100	0	0	.
WOOD DUCK	0	.	300	.	110	12	.	50	32	0	100	.
TOTAL DABBLERS	75	.	955	.	794	146	.	860	1177	376	130	.
REDHEAD	0	.	0	.	0	0	.	0	0	0	0	.
CANVASBACK	0	.	0	.	0	0	.	0	0	0	0	.
SCAUP	0	.	0	.	0	0	.	0	0	0	0	.
RINGNECK	0	.	0	.	140	10	.	30	50	0	0	.
RUDDY DUCK	0	.	0	.	0	0	.	0	0	0	0	.
GOLDENEYE	0	.	0	.	0	0	.	0	0	0	0	.
BUFFLEHEAD	0	.	0	.	0	0	.	0	0	0	0	.
TOTAL DIVERS	0	.	0	.	140	10	.	30	50	0	0	.
UNIDENTIFIED DUCKS	0	.	0	.	0	0	.	0	0	0	0	.
TOTAL DUCKS	75	.	955	.	934	156	.	890	1227	376	130	.
MERGANSERS	0	.	0	.	0	0	.	0	0	0	0	.
CANADA GOOSE	0	.	0	.	0	0	.	0	0	0	0	.
BLUE GOOSE	0	.	0	.	0	0	.	0	0	0	0	.
SNOW GOOSE	0	.	0	.	0	0	.	0	0	0	0	.
WHITE-FRONTED GOOSE	0	.	0	.	0	0	.	0	0	0	0	.
TOTAL GEESE	0	.	0	.	0	0	.	0	0	0	0	.
COOTS	0	.	0	.	0	0	.	0	0	0	0	.
SWANS	0	.	0	.	0	0	.	0	0	0	0	.
EAGLES	0	.	0	.	0	0	.	0	0	0	0	.

'.' = MISSING VALUE (No survey conducted during this survey period).
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1991-92 TENNESSEE WATERFOWL INVENTORIES
BI-MONTHLY SURVEY BY AREA - PEAK NUMBERS OBSERVED

SURVEY AREA = WOODS RES

SPECIES	SURVEY PERIOD											
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31	1-15	16-31
MALLARD	.	27	85	445	220	.	32	.	.	.	.	.
BLACK DUCK	.	0	51	97	119	.	12	.	.	.	.	.
GADWALL	.	0	94	41	3	.	20	.	.	.	.	.
WIGEON	.	0	26	6	0	.	0	.	.	.	.	.
GREEN-WINGED TEAL	.	0	12	8	0	.	0	.	.	.	.	.
BLUE-WINGED TEAL	.	0	0	0	0	.	0	.	.	.	.	.
SHOVELER	.	0	0	0	0	.	0	.	.	.	.	.
PINTAIL	.	0	0	0	0	.	0	.	.	.	.	.
WOOD DUCK	.	3	0	0	0	.	0	.	.	.	.	.
TOTAL DABBLERS	.	30	268	597	342	.	64	.	.	.	.	.
REDHEAD	.	0	0	0	0	.	0	.	.	.	.	.
CANVASBACK	.	0	0	0	0	.	0	.	.	.	.	.
SCAUP	.	0	0	0	0	.	0	.	.	.	.	.
RINGNECK	.	0	0	0	0	.	25	.	.	.	.	.
RUDDY DUCK	.	0	0	0	0	.	0	.	.	.	.	.
GOLDENEYE	.	0	0	0	0	.	9	.	.	.	.	.
BUFFLEHEAD	.	0	0	0	0	.	0	.	.	.	.	.
TOTAL DIVERS	.	0	0	0	0	.	34	.	.	.	.	.
UNIDENTIFIED DUCKS	.	0	0	3	4	.	3	.	.	.	.	.
TOTAL DUCKS	.	30	268	620	352	.	101	.	.	.	.	.
MERGANSERS	.	0	0	20	6	.	0	.	.	.	.	.
CANADA GOOSE	.	288	457	857	648	.	400	.	.	.	.	.
BLUE GOOSE	.	0	0	0	0	.	0	.	.	.	.	.
SNOW GOOSE	.	0	0	0	4	.	0	.	.	.	.	.
WHITE-FRONTED GOOSE	.	0	0	0	0	.	0	.	.	.	.	.
TOTAL GEESE	.	288	457	857	652	.	400	.	.	.	.	.
COOTS	.	0	45	0	0	.	11	.	.	.	.	.
SWANS	.	0	0	0	0	.	0	.	.	.	.	.
EAGLES	.	0	0	0	0	.	0	.	.	.	.	.

'.' = MISSING VALUE (No survey conducted during this survey period).
Numbers reflect maximum observed during one survey per survey period.