

*Non-Resident Hunter Effort & Game Harvest Estimates
for the 2002-2003 Mississippi Hunting Season*

Prepared for the

**DIVISION of WILDLIFE
MISSISSIPPI DEPARTMENT OF WILDLIFE, FISHERIES & PARKS
P.O. BOX 451
JACKSON, MS 39205**

By

**Dr. Kevin M. Hunt, John T. Arnold, and Vamshi Mittapalli
Human Dimensions & Conservation Law Enforcement Laboratory
Forest & Wildlife Research Center
Mississippi State University
Mississippi State, MS 39762-9690**

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INTRODUCTION

The primary purpose of the Mississippi non-resident hunter survey is to establish annual statewide and district estimates of hunter effort and harvest for each game species. These estimates provide trend data which allows Mississippi Department of Wildlife, Fisheries, and Parks (MDWFP) Wildlife Division staff to monitor changes in harvest and effort through time. The secondary purpose is to measure non-resident hunter's demographic characteristics, and in some years participation patterns, attitudes towards hunting and wildlife, and opinions towards agency programs and wildlife management tools. When interpreting this data, it is important to consider current wildlife management programs, habitat changes and availability, land use practices, species abundance, and the social and economic climate of the state.

Since 1998, a self-administered mail survey has been used to obtain total harvest, average daily kill, average seasonal harvest, and total man-days hunted for each game species by non-residents. The estimates obtained for each of these categories are precise because of the large sample size used, however, because mail surveys contain sampling, response and non-response biases the accuracy of the estimates are always of concern to researchers (Filion 1980). Nevertheless, similar methodologies used to conduct the mail survey over time help to hold constant these biases and the estimates derived from the survey should provide adequate estimates for monitoring trends in hunter harvest and effort.

The primary objective of the mail survey for the 2002-03 hunting season was to obtain a reliable set of statewide non-resident effort and harvest estimates for each game species in Mississippi. The secondary objective was to provide district estimates. The third objective was to obtain demographic characteristics of non-residents. No effort was made to interpret the data presented here. The purpose of this publication is to compile existing information for future reference and to help guide future management decisions.

METHODS

The sampling frame for the survey consisted of holders of any non-resident hunting license (Types 40, 41, 33, and 34) purchased during the 2002-2003 license year. A random sample of 3,007 license holders was selected to participate in this study from the 35,706 non-resident licenses processed from July 1, 2002 – June 30, 2003.

The survey process followed the Total Design Method (TDM) prescribed by Dillman (1978). This methodology pays particular attention to detail, persistence, and takes a personal approach to obtaining a response. This is accomplished, in part, by using personalized letters and envelopes processed with laser printers to simulate a first class mailing to differentiate it from “junk mail”. The TDM uses a series of four mail-outs to help increase response rate: 1) A introductory letter, questionnaire (APPENDIX A), and postage-paid business reply envelope (i.e., a complete packet) were sent; 2) Ten days after the second mailing a post card that was sent to all hunters in the survey. The purpose of the post card was to remind hunters about the survey and to thank those whom had already returned a completed questionnaire. A phone number was provided on the post card in case the recipient had not received or misplaced their questionnaire so they could request another be sent; 3) Twenty-one days after the postcard mailing, a second complete packet was sent to all hunters who had not yet responded, and 4) Twenty-eight days after the second complete packet was sent, a third complete mailing was sent to all hunters who had not yet responded. Actual correspondence can be found in APPENDIX B. All surveys were numbered using a bar coding system printed on clear adhesive labels. When surveys were returned to Mississippi State University, the bar codes were scanned into a computer file and assigned with a “returned” status; this prevented respondents from receiving another mailing.

Procedures for editing and data entry of returned questionnaires were similar to Steffen (1981). Data entry involved entering data from the surveys into the computer using a Microsoft Access data entry screen that had been previously developed. First, non-numeric responses in the survey were numerically coded for preparation for data entry. After all responses were converted

into a numeric framework, responses from the surveys were data entered. The responses to the last question of the survey, which was open-ended, were typed into an MS Access file so comments could be queried by agency staff.

Effort and harvest estimates and their standard errors for each species were calculated for total kill, average seasonal kill per hunter, proportion of licensed hunters, total licensed hunters, proportion of hunters who were successful, total man-days spent hunting, average days field per hunter and the average daily kill. These estimates were calculated both on a statewide and district basis. Calculations were based on statistical programs originally developed by Steffen (1981) for mainframe computing, modified as necessary for desktop computing using SAS software.

RESULTS

A total of 3,007 questionnaires were mailed to non-resident hunters. There were a total of 1,343 useable questionnaires returned by hunters. Questionnaires were checked for the completeness of responses where it was found that 187 individuals indicated their refusal to participate. An additional 41 hunters returned their surveys after computations were made and were treated as non-eligible. When non-deliverables (n=389) were excluded from consideration, an effective response rate of 56.2% was obtained.

Statewide expansions were calculated based on the 35,706 non-resident hunting licenses sold and accounted for by June 30, 2003. There were 32,716 individuals licensed to hunt small game and 22,413 of these license holders also were eligible to pursue big game (deer and turkey) in Mississippi during the 2002-2003 hunting season.

The expanded statewide summaries of the non-resident total harvest, average daily kill, average seasonal harvest, percent of successful hunters, total man-days, average days hunted in the season, total number of hunters and percent of total licenses that hunted are provided in Table 1 for all game species included in the survey. Table 2 provides the expanded statewide estimates

of total harvest and the variability of these (standard error and 95 percent confidence limits) for all game species surveyed.

Tables 3-8 summarize non-resident small game hunting on a statewide and district basis. Waterfowl hunting is summarized in Tables 9-13. Tables 14-17 summarize fox (red and gray), bobcat and coyote hunting. Statewide and district summaries of deer (buck and doe data from archery, primitive weapon and gun seasons) and turkey hunting are provided in Tables 18-26. Table 27 summarizes district and statewide estimates for feral hog. Tables 28-34 summarize non-resident hunter demographic characteristics.

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TABLE 1. EXPANDED STATEWIDE SUMMARY OF THE 2002-2003 MISSISSIPPI NON-RESIDENT MAIL SURVEY OF GAME HARVEST BASED ON 32,716 SMALL GAME LICENSE HOLDERS AND 22,413 BIG GAME LICENSE HOLDERS.

SPECIES	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENCEES (A)
DOVE	90,807.09	7.23	21.2	93.1	12,394	2.95	4,282	13.1
QUAIL	5,823.79	4.49	14.88	87.5	1,297	3.31	392	1.2
WOODCOCK	415.99	2.43	4.25	75.0	171	1.75	98	0.3
RABBIT	12,210.38	1.52	6.65	88.0	8,051	4.39	1,835	5.6
SQUIRREL	60,366.77	3.45	17.75	93.5	16,579	5.04	3,401	10.4
RACCOON	4,282.20	0.44	6.92	88.0	9,690	15.84	612	1.9
TOTAL DUCK	103,262.17	2.25	16.12	89.9	41,599	7.17	5,799	17.7
MALLARD	49,502.22	1.09	7.81	78.9				
WOOD DUCK	15,807.43	0.32	2.32	48.1				
OTHER DUCKS	37,952.52	0.84	6.00	70.9				
GEESE	4,037.50	0.69	3.81	69.2	3,524	5.54	636	1.9
RED FOX	73.41	0.33	1.50	1.0	220	4.50	49	0.2
GRAY FOX	24.47	0	1.00	1.0	0	0	24	0.1
BOBCAT	660.68	0.09	0.96	89.3	3,800	9.06	685	2.1
COYOTE	1,076.67	0.12	1.63	85.2	3,235	8.73	661	2.0
TOTAL DEER	29,578.40	0.08	1.63	70.8	304,921	17.67	18,119	80.8
BUCK	13,872.42	0.04	0.76	51.9				
DOE	15,705.99	0.04	0.87	49.9				
ARCHERY DEER	4,197.91	0.07	0.88	51.8	45,919	10.87	4,753	21.2
BUCK	1,158.05	0.02	0.24	20.3				
DOE	3,039.87	0.05	0.64	44.2				
PRIMITIVE DEER	4,149.66	0.08	0.74	51.3	36,600	7.50	5,597	25.0
BUCK	1,519.93	0.03	0.27	22.8				
DOE	2,629.73	0.05	0.47	38.8				
GUN DEER	21,230.83	0.08	1.28	68.9	213,392	13.68	16,623	74.2
BUCK	11,194.44	0.04	0.67	50.2				
DOE	10,036.99	0.04	0.60	41.2				
TOTAL TURKEY	3,015.74	0.11	0.70	42.1	24,901	6.08	4,294	19.2
SPRING 2003	2,895.11	0.11	0.69	42.5	23,340	5.84	4,198	18.7
FALL 2002	120.63	0.08	0.50	30.0	1,544	6.40	241	1.1
HOG	3,303.41	0.40	3.75	86.1	5,341	9.82	881	2.7

(A) DEER AND TURKEY PERCENTAGES BASED ON BIG GAME LICENSE HOLDERS; ALL OTHERS BASED ON SMALL GAME LICENSE HOLDERS.

TABLE 2. EXPANDED STATEWIDE ESTIMATES OF TOTAL HARVEST (AND VARIABILITY OF THE ESTIMATES) FOR ALL GAME SPECIES IN MISSISSIPPI DURING THE 2002-03 HUNTING SEASON.

SPECIES	TOTAL HARVEST	STANDARD ERROR		95% CONFIDENCE INTERVAL	
		SE	AS % OF TOTAL (A)	LOWER LIMIT	UPPER LIMIT
DOVE	90,807.09	9,464.13	10.42237	71,878.82	109,735.36
QUAIL	5,823.79	2,182.55	37.47645	1,458.68	10,188.90
WOODCOCK	415.99	368.64	88.61751	-321.29	1,153.26
RABBIT	12,210.38	2,612.11	21.39254	6,986.17	17,434.60
SQUIRREL	60,366.77	7,635.64	12.64875	45,095.49	75,638.05
RACCOON	4,282.20	1,648.30	38.4919	985.60	7,578.80
TOTAL DUCKS	103,262.17	9,425.55	9.127786	84,411.07	122,113.27
MALLARD	49,502.22	5,088.31	10.27895	39,325.60	59,678.84
WOOD DUCK	15,807.43	1,988.65	12.58048	11,830.13	19,784.74
OTHER DUCKS	37,952.52	4,012.13	10.57145	29,928.27	45,976.77
GEESE	4,037.50	1,011.85	25.0613	2,013.80	6,061.20
RED FOX	73.41	54.70	74.51301	-35.99	182.81
GRAY FOX	24.47	54.47	222.5991	-24.47	73.41
BOBCAT	660.68	135.09	20.44712	390.50	930.86
COYOTE	1,076.67	315.31	29.28567	444.84	1,708.49
TOTAL DEER	29,578.40	1,178.63	3.984766	27,221.15	31,935.66
BUCK	13,872.42	640.98	4.620535	12,590.45	15,154.38
DOE	15,705.99	789.90	5.029291	14,126.18	17,285.80
ARCHERY DEER	4,197.91	465.21	11.08194	3,267.50	5,128.33
BUCK	1,158.05	189.33	16.34904	779.38	1,536.71
DOE	3,039.87	348.90	11.47746	2,342.07	3,737.66
PRIMITIVE DEER	4,149.66	423.74	10.21144	3,302.18	4,997.15
BUCK	1,519.93	219.56	14.4454	1,080.82	1,959.04
DOE	2,629.73	285.83	10.86918	2,058.07	3,201.39
GUN DEER	21,230.83	858.35	4.042941	19,514.13	22,947.52
BUCK	11,194.44	544.20	4.861342	10,106.04	12,282.83
DOE	10,036.99	573.12	5.710078	8,890.14	11,182.64
TOTAL TURKEY	3,015.74	380.28	12.60984	2,255.18	3,776.30
SPRING 2003	2,895.11	361.68	12.49279	2,171.75	3,618.48
FALL 2002	120.63	79.96	66.28534	-39.29	280.55
HOG	3,303.41	959.80	29.05483	1,383.81	5,223.01

(A) %=100(SE/TOTAL HARVEST)

TABLE 3. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF DOVE HUNTING IN MISSISSIPPI DURING THE 2002-03 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
1	ESTIMATE	12,867	12.55	31.00	0.9	1,029	2.47	415	10.1
	(SE)	5,081.83	3.31	9.99	0.06	275.72	0.30	100.06	0.02
2	ESTIMATE	39,064	7.64	21.62	1.0	4,971	2.86	1,806.70	43.8
	(SE)	5,841.97	0.78	2.13	0.03	765.38	0.30	204.22	0.04
3	ESTIMATE	12,696	6.51	21.67	0.9	1,910	3.39	586	14.2
	(SE)	3,795.74	0.87	4.87	0.06	555.09	0.71	118.58	0.03
4	ESTIMATE	8,227	8.02	21.06	1.0	1,029	2.63	391	9.5
	(SE)	2,471.57	0.95	3.67	0	336.50	0.58	97.11	0.02
5	ESTIMATE	10,328	4.41	14.10	0.9	2,351	3.20	732	17.8
	(SE)	24,477.26	1,012.809	202.633	0.06	642.14	0.67	132.27	0.03
6	ESTIMATE	5,445	8.92	27.88	1.0	612	3.13	195	4.7
	(SE)	2,443.37	1.35	8.27	0	255.21	0.74	68.88	0.02
STATEWIDE	ESTIMATE	90,807	7.23	21.21	0.9	12,394	2.95	4,282	13.1
	(SE)	9,464.13	0.58	1.63	0.02	1,236.83	0.21	301.89	0.01
	N	1,337	182	175	175	1,333	171	1,337	1,337

TABLE 4. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF QUAIL HUNTING IN MISSISSIPPI DURING THE 2002-03 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
1	ESTIMATE	1,387	6.33	14.25	0.8	219	2.25	97	26.7
	(SE)	1,039.97	1.48	9.21	0.25	135.35	0.95	48.59	0.12
2	ESTIMATE	1,508	1.94	8.86	0.9	778	4.57	170	46.7
	(SE)	713.23	0.58	2.73	0.14	371.62	1.45	64.21	0.13
3	ESTIMATE	1,345	7	7	7	1,345	7	15	15
	(SE)	0	0	0	0	0	0	0	0
4	ESTIMATE	1,345	6.67	20.00	1.0	73	3.00	24	6.7
	(SE)	486.48	1	1	1	72.97	1	24.32	0.07
5	ESTIMATE	2,359	12.13	32.33	1.0	195	2.67	73	20.0
	(SE)	1,701.59	2.48	17.13	0	133.17	120.185	42.10	0.11
6	ESTIMATE	1,345	3	3	3	1,345	3	15	15
	(SE)	0	0	0	0	0	0	0	0
STATEWIDE	ESTIMATE	5,824	4.49	14.88	0.88	1,297	3.31	392	1.2
	(SE)	2,182.55	1.33	4.31	0.09	426.03	0.73	97.33	0.003
	N	1,337	27	16	16	1,337	16	1,337	1,337

TABLE 5. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF WOODCOCK HUNTING IN MISSISSIPPI DURING THE 2002-03 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
1	ESTIMATE	0				0		0	0
	(SE)	0				0		0	0
2	ESTIMATE	1,345	1.00	1.00	1.0	1,345	1.00	24	0.3
	(SE)	24				24.32		24.32	0.33
3	ESTIMATE	1,345	1	1	1	1,345	1	3	3
	(SE)	0				0		0	0
4	ESTIMATE	1,345				1,345		3	3
	(SE)	0				0		0	0
5	ESTIMATE	1,345	0.33	0.50	0.5	1,345	1.50	49	0.7
	(SE)	24	0.44	0.50	0.5	73	0.50	34.69	0.33
6	ESTIMATE	1,345	2	2	2	1,345	2	0	3
	(SE)	0				0		0	0
STATEWIDE	ESTIMATE	1,345				1,345		3	3
	(SE)	0				0		0	0
STATEWIDE	ESTIMATE	416	2.43	4.25	0.8	171	1.75	98	0.3
	(SE)	368.64	1.38	3.59	0.25	94.69	0.48	48.88	0.001
STATEWIDE	ESTIMATE	1,337	15	4	4	1,337	4	1,337	1,337
	(SE)								

TABLE 6. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF RABBIT HUNTING IN MISSISSIPPI DURING THE 2002-03 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
1	ESTIMATE	269	0.21	2.20	1.0	1,294	10.60	122	7.0
	(SE)	121.90	0.15	0.20	0	1,007.30	7.55	54.51	0.03
2	N	1,340	5	5	5	1,340	5	71	71
	ESTIMATE	4,004	3.15	10.25	0.9	1,270	3.25	391	22.5
3	(SE)	2,055.10	0.67	4.75	0.09	508.81	1.06	97.11	0.05
	N	1,340	16	16	16	1,340	16	71	71
4	ESTIMATE	1,148	2.77	9.40	0.8	415	3.40	122	7.0
	(SE)	723.44	1.44	4.68	0.20	216.79	1.03	54.51	0.03
5	N	1,340	5	5	5	1,340	5	71	71
	ESTIMATE	1,172	1.30	9.60	1.0	903	7.40	122	7.0
6	(SE)	640.77	0.28	3.39	0	445.01	1.72	54.51	0.03
	N	1,340	5	5	5	1,340	5	71	71
STATEWIDE	ESTIMATE	3,418	1.21	4.12	0.9	2,832	3.41	830	47.9
	(SE)	866.75	0.26	0.79	0.06	776.96	0.75	140.60	0.06
STATEWIDE	N	1,340	34	34	34	1,340	34	71	71
	ESTIMATE	806	0.77	5.50	0.8	1,050	7.17	147	8.5
STATEWIDE	(SE)	441.11	0.49	2.20	0.20	556.75	2.66	59.69	0.03
	N	1,340	6	6	5	1,340	6	71	71
STATEWIDE	ESTIMATE	12,210	1.52	6.65	0.9	8,051	4.39	1835	5.6
	(SE)	2,612.11	0.31	1.22	0.04	1,558.99	0.70	205.96	0.006
STATEWIDE	N	1,337	86	75	75	1,337	75	1,337	1,337

TABLE 7. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF SQUIRREL HUNTING IN MISSISSIPPI DURING THE 2002-03 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
1	ESTIMATE (SE)	978 447.57	1.25 0.45	8.00 0.89	1.0 0	784 454	6.40 2.64	122 55	3.8 0.02
	N	1,338	5	5	5	1,335	5	132	132
2	ESTIMATE (SE)	2,592 879.08	2.08 0.39	7.57 1.65	0.8 0.11	1,250 359.51	3.64 0.41	342 91.04	10.6 0.03
	N	1,338	14	14	14	1,335	14	132	132
3	ESTIMATE (SE)	5,184 1,954.46	3.90 0.60	15.14 4.20	0.9 0.07	1,176 484.31	3.69 1.17	342 91.04	10.6 0.03
	N	1,338	13	14	14	1,335	13	132	132
4	ESTIMATE (SE)	7,262 2,736.20	3.54 0.58	24.75 6.29	0.9 0.08	2,059 858.64	7.00 2.21	293 84.35	9.1 0.03
	N	1,338	12	12	12	1,335	12	132	132
5	ESTIMATE (SE)	38,046 6,537.26	3.95 0.53	19.70 2.63	1.0 0.02	9,239 1,775	4.90 0.77	1,932 211	59.8 0.04
	N	1,338	77	79	79	1,335	77	132	132
6	ESTIMATE (SE)	3,863 1,784.34	2.51 1.68	19.75 6.30	0.9 0.13	1,544 903.43	7.88 3.93	196 69	6.1 0.02
	N	1,338	8	8	8	1,335	8	132	132
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STATEWIDE	ESTIMATE (SE)	60,367 7,635.64	3.45 0.35	17.75 1.74	0.9 0.02	16,579 2,290.88	5.04 0.56	3,401 273.19	10.4 0.01
	N	1,337	145	139	139	1,332	134	1,337	1,337

TABLE 8. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF RACCOON HUNTING IN MISSISSIPPI DURING THE 2002-03 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
1	ESTIMATE	2,217	0.33	22.75	1.0	6,675	68.50	97	18.2
	(SE)	1,550	0.07	12.55	0	5,319.81	49.11	48.66	0.08
2	ESTIMATE	731	0.81	5.00	1.0	901	6.17	146	27.3
	(SE)	365.81	0.28	1.60	0	526.05	2.82	59.56	0.97
3	ESTIMATE	585	0.77	4.00	0.8	755	5.17	146	27.3
	(SE)	285.83	0.32	1.18	0.17	361.69	1.42	59.56	0.10
4	ESTIMATE	0	6	6	6	1,343	6	22	22
	(SE)	0	0	0	0	0	0	0	0
5	ESTIMATE	341	0.38	2.40	0.6	780	6.40	122	22.73
	(SE)	188.54	0.15	1.17	0.24	141.45	2.06	54.39	0.09
6	ESTIMATE	146	0.46	6.00	1.00	317	13.00	24	4.5
	(SE)	146.16	0.46	6.00	1.00	317	13.00	24.36	0.05
STATEWIDE	ESTIMATE	4,282	0.44	6.92	0.9	9,690	15.84	612	1.9
	(SE)	1,648.30	0.10	2.37	0.07	5,405.82	8.43	121.25	0.004
	N	1,337	36	25	25	1,337	25	1,337	1,337

TABLE 9. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF ALL DUCK HUNTING IN MISSISSIPPI DURING THE 2002-03 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
1	ESTIMATE	3,360	2.77	12.00	1.0	638	4.33	147	2.7
	(SE)	1,913.16	0.84	5.79	0	311.78	1.28	59.96	0.01
2	ESTIMATE	1,334	6	6	6	1,334	6	226	226
	(SE)	41,937	2.27	19.26	0.9	18,075	8.47	2133	38.5
3	ESTIMATE	6,413.27	0.17	2.25	0.03	2,793.19	0.98	221.25	0.03
	(SE)	1,334	87	87	87	1,334	87	226	226
4	ESTIMATE	37,866	2.26	15.80	0.9	16,260	6.98	2,330	42.04
	(SE)	6,135.59	0.25	2.10	0.03	2,520.38	0.84	230.46	0.03
5	ESTIMATE	1,334	95	95	95	1,334	95	226	226
	(SE)	417	0.63	2.00	0.4	392	3.20	123	2.21
6	ESTIMATE	253.52	0.40	1.38	0.25	179.97	0.37	54.76	0.01
	(SE)	1,334	5	5	5	1,334	5	226	226
STATEWIDE	ESTIMATE	9,810	1.76	11.53	0.9	4,831	6.57	736	13.3
	(SE)	2,333.70	0.19	2.24	0.05	1,247.11	1.23	132.86	0.02
STATEWIDE	ESTIMATE	1,334	30	30	30	1,334	30	226	226
	(SE)	1,128	2.35	20.00	1.0	417	8.50	49	0.9
STATEWIDE	ESTIMATE	944.61	0.32	18.00	0	371.09	6.50	34.67	0.01
	(SE)	1,334	2	2	2	1,334	2	226	226
STATEWIDE	ESTIMATE	103,262	2.25	16.12	0.9	41,599	7.17	5,799	17.7
	(SE)	9,425.55	0.13	1.28	0.02	3,900.09	0.52	341.82	0.01
STATEWIDE	ESTIMATE	1,337	248	237	237	1,337	237	1,337	1,337
	(SE)								

TABLE 10. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF MALLARD HUNTING IN MISSISSIPPI DURING THE 2002-03 HUNTING SEASON.

MALLARD

DISTRICT (1)	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS
1	ESTIMATE	1,079	0.92	4.00	0.8
	(SE)	591.13	0.28	1.69	0.17
2	N	1,334	6	6	6
	ESTIMATE	22,636	1.23	10.38	0.9
3	(SE)	3,751.88	0.12	1.39	0.03
	N	1,334	87	87	87
4	ESTIMATE	17,413	1.04	7.28	0.8
	(SE)	3,065.87	0.13	1.10	0.04
5	N	1,334	95	95	95
	ESTIMATE	74	0.13	0.40	0.2
6	(SE)	54.82	0.13	0.40	0.20
	N	1,334	5	5	5
STATEWIDE	ESTIMATE	3,139	0.55	3.63	0.6
	(SE)	850.49	0.12	0.87	0.09
STATEWIDE	N	1,334	30	30	30
	ESTIMATE	368	0.88	7.50	1.0
STATEWIDE	(SE)	322.54	0.03	5.50	0
	N	1,334	2	2	2
STATEWIDE	ESTIMATE	49,502	1.09	7.81	0.8
	(SE)	5,088.31	0.08	0.74	0.03
STATEWIDE	N	1,337	248	237	237

TABLE 11. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF WOOD DUCK HUNTING IN MISSISSIPPI DURING THE 2002-03 HUNTING SEASON.

<u>WOOD DUCK</u>					
DISTRICT (1)	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS
1	ESTIMATE	1,373	1.00	4.33	
	(SE)	869.36	0.45	2.86	
2	N	1,334	6	6	
	ESTIMATE	4,071	0.22	1.85	0.5
3	(SE)	911.18	0.04	0.38	0.05
	N	1,334	87	87	87
4	ESTIMATE	4,929	0.30	2.10	0.5
	(SE)	1,112.10	0.06	0.43	0.05
5	N	1,334	95	95	95
	ESTIMATE	319	0.44	1.40	0.2
6	(SE)	226.02	0.41	1.40	0.20
	N	1,334	5	5	5
STATEWIDE	ESTIMATE	15,807	0.32	2.32	0.5
	(SE)	1,988.65	0.04	0.28	0.03
	N	1,337	248	237	237

TABLE 12. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF OTHER DUCK HUNTING IN MISSISSIPPI DURING THE 2002-03 HUNTING SEASON.

OTHER DUCK

DISTRICT (1)	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS
1	ESTIMATE (SE) N	907 489.43 1,334	0.85 0.32 6	3.67 1.76 6	0.7 0.21 6
2	ESTIMATE (SE) N	15,230 2,688.67 1,334	0.83 0.09 87	7.03 1.03 87	0.7 0.05 87
3	ESTIMATE (SE) N	15,524 2,761.64 1,334	0.92 0.12 95	6.42 0.98 95	0.8 0.04 95
4	ESTIMATE (SE) N	25 24.52 1,334	0.06 0.06 5	0.20 0.20 5	0.2 0.20 5
5	ESTIMATE (SE) N	3,286 993.71 1,334	0.60 0.10 30	3.93 1.05 30	0.6 0.09 30
6	ESTIMATE (SE) N	0 0 1,334	0 0 2	0 0 2	0 0 2
STATEWIDE	ESTIMATE (SE) N	37,953 4,012.13 1,337	0.84 0.06 248	16.12 1.28 237	0.7 0.03 237

TABLE 13. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF GOOSE HUNTING IN MISSISSIPPI DURING THE 2002-03 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
1	ESTIMATE	146				0		0	0
	(SE)	108.83				0		0	0
2	N	1,344				1,344		24	24
	ESTIMATE	1,412	0.69	5.00	0.8	1,947	7.27	268	45.8
(SE)		658.61	0.44	2.03	0.12	1,002.03	3.19	80.43	0.10
	N	1,344	11	11	11	1,344	11	24	24
3	ESTIMATE	1,777	0.69	3.00	0.6	1,266	4.33	292	50.0
	(SE)	692.64	0.26	1.16	0.15	569.00	1.56	83.98	0.10
4	N	1,344	12	12	12	1,344	12	24	24
	ESTIMATE	0				0		0	0
(SE)		0				0		0	0
	N	1,344				1,344		24	24
5	ESTIMATE	49	1.00	2.00	1.0	49	2.00	24	4.17
	(SE)	48.68				48.68		24.342	0.04
6	N	1,344	1	1	1	1,344	1	24	24
	ESTIMATE	0				0		0	0
(SE)		0				0		0	0
	N	1,344				1,344		24	24
STATEWIDE	ESTIMATE	438	0.69	3.81	0.7	3,524	5.54	636.21	1.95
	(SE)	1,011.85	0.25	1.02	0.09	1,174.60	1.53	123.60	0.004
N		1,337	37	26	26	1,337	26	1,337	1,337

TABLE 14. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF RED FOX HUNTING IN MISSISSIPPI DURING THE 2002-03 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
1	ESTIMATE	0				0		0	0.
	(SE)	0				0		0	0
	N	1,346				1,344		2	2
2	ESTIMATE	73	0.33	1.50	1.0	219	4.50	48.61	100.0
	(SE)	54.33	0.15	0.50	0	155.58	0.50	34.36	0
	N	1,346	2	2	2	1,346	2	2	2
3	ESTIMATE	0				0		0	0
	(SE)	0				0		0	0
	N	1,346				1,346		2	2
4	ESTIMATE	0				0		0	0
	(SE)	0				0		0	0
	N	1,346				1,346		2	2
5	ESTIMATE	0				0		0	0
	(SE)	0				0		0	0
	N	1,346				1,346		2	2
6	ESTIMATE	0				0		0	0
	(SE)	0				0		0	0
	N	1,346				1,346		2	2
STATEWIDE	ESTIMATE	73	0.33	1.50	1.00	220	4.50	48.94	0.15
	(SE)	54.70	0.11	0.50	0	156.63	0.50	34.59	0.11
	N	1,337	13	2	2	1,337	2	1,337	1,337

TABLE 15. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF GRAY FOX HUNTING IN MISSISSIPPI DURING THE 2002-03 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
1	ESTIMATE	0	0	0	0	0	0	0	0
	(SE)	0	0	0	0	0	0	0	0
	N	1,345				1,345			
2	ESTIMATE	0	0	0	0	0	0	0	0
	(SE)	0	0	0	0	0	0	0	0
	N	1,345				1,345			
3	ESTIMATE	0	0	0	0	0	0	0	0
	(SE)	0	0	0	0	0	0	0	0
	N	1,345				1,345			
4	ESTIMATE	0	0	0	0	0	0	0	0
	(SE)	0	0	0	0	0	0	0	0
	N	1,345				1,345			
5	ESTIMATE	0	0	0	0	0	0	0	0
	(SE)	0	0	0	0	0	0	0	0
	N	1,345				1,345			
6	ESTIMATE	0	0	0	0	0	0	0	0
	(SE)	0	0	0	0	0	0	0	0
	N	1,345				1,345			
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STATEWIDE	ESTIMATE	25	0	1.00	1.0	0	0	25	0.1
	(SE)	24.47	0	0	0	0	0	24.47	0.0007
	N	1,337	11	1	1	1,336	0	1,337	1,337

TABLE 16. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF BOBCAT IN MISSISSIPPI DURING THE 2002-03 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
1	ESTIMATE	24	1.00	1.00	1.0	25	1.00	24	4.4
	(SE)	24.41				24.52		24.42	0.04
2	N	1,340	1	1	1	1,334	1	23	23
	ESTIMATE	98	0.09	0.80	0.8	834	8.50	122	21.7
3	(SE)	48.78	0.05	0.20	0.20	548.12	4.19	54.51	0.09
	N	1,340	4	5	5	1,334	4	23	23
4	ESTIMATE	24	1.00	1.00	1.0	25	1.00	24	4.4
	(SE)	24.41				24.52		24.42	0.04
5	N	1,340	1	1	1	1,334	1	23	23
	ESTIMATE	24	1.00	1.00	1.0	0		24	4.4
6	(SE)	24.41				0		24.42	0.04
	N	1,340		1	1	1,334		23	23
STATEWIDE	ESTIMATE	317	0.08	1.00	0.9	2,820	11.50	317.39	56.5
	(SE)	94.20	0.03	0.11	0.08	1,479.60	5.08	87.63	0.11
STATEWIDE	N	1,340	10	13	13	1,334	10	23	23
	ESTIMATE	49	0	1.00	0.5	74	3.00	49	8.7
STATEWIDE	(SE)	48.83		1.00	0.50	73.57		34.52	0.06
	N	1,340	1	2	2	1,334	1	23	23
STATEWIDE	ESTIMATE	661	0.09	0.96	0.9	3,799.60	9.06	685.15	2.1
	(SE)	135.09	0.03	0.08	0.06	1,588.13	3.19	128.17	0.004
STATEWIDE	N	1,337	28	28	28	1,326	17	1,337	1,337
	ESTIMATE								

TABLE 17. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF COYOTE HUNTING DURING THE 2002-03 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	AVERAGE SEASONAL SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
1	ESTIMATE	24	1.00	1.00	1.0	25	1.00	24	4.4
	(SE)	24.38				25		24.38	0.04
2	ESTIMATE	122	0.14	1.00	0.8	687	7.00	122	21.7
	(SE)	64.44	0.10	0.32	0.20	530.42	4.76	54.43	0.09
3	ESTIMATE	49	4	5	5	1,334	4	23	23
	(SE)	48.76		2.00	1.0	0		24	4.4
4	ESTIMATE	414	0.80	4.25	0.8	123	2.50	98	17.4
	(SE)	272.43	0.64	2.10	0.25	88.39	0.50	48.70	0.08
5	ESTIMATE	293	0.08	1.09	0.9	2281	13.29	268.16	47.83
	(SE)	97.22	0.03	0.16	0.09	1,374.45	6.74	80.55	0.11
6	ESTIMATE	0	7	11	11	1334	7	23	23
	(SE)	0	0	0	0	98	4.00	24.38	4.35
STATEWIDE	ESTIMATE	1,077	0.12	1.63	0.9	3,235	8.73	661	2.02
	(SE)	315.91	0.05	0.37	0.07	1,488.21	3.45	125.91	0.004
	N	1,337	26	27	27	1,325	15	1,337	1,337

TABLE 18. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF ARCHERY DEER HUNTING IN MISSISSIPPI DURING THE 2002-03 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
1	ESTIMATE (SE)	49	0	0.67	0.3	347.87	7.00	74	1.69
	N	915	2	3	3	902	2	178	0.01
2	ESTIMATE (SE)	220	0.095	0.90	0.4	2,361	9.50	245	5.62
	N	136,26	0.02	0.50	0.16	1,212.64	4.06	77.08	0.02
3	ESTIMATE (SE)	784	0.14	1.33	0.6	4,473	8.18	588	13.48
	N	233.64	0.03	0.30	0.10	1,181.42	1.33	118.48	0.026
4	ESTIMATE (SE)	74	0.04	0.20	0.2	1,938	5.20	367	8.43
	N	915	22	24	24	902	22	178	0.02
5	ESTIMATE (SE)	2,180	0.06	0.76	0.5	32,725	12.19	286	65.7
	N	306.45	0.01	0.08	0.05	3,972.00	0.99	247.57	0.04
6	ESTIMATE (SE)	243	0.13	1.56	0.7	2,560	12.88	220	5.06
	N	176.37	0.05	0.65	0.17	1,082.35	3.22	73.16	0.02
STATEWIDE	ESTIMATE (SE)	4,198	0.07	0.88	0.5	45,919	10.87	4,753	21.21
	N	929	175	197	0.04	4,440.33	0.74	300.75	0.13
	N	929	175	197	197	902	170	929	929

TABLE 19. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF ARCHERY BUCK AND DOE HUNTING IN MISSISSIPPI DURING THE 2003-04 HUNTING SEASON.

DISTRICT	STATISTIC	BUCKS				DOES			
		TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS
1	ESTIMATE	25	0	0.33	0.3	25	0	0.33	0.3
	(SE)	25	0	0.33	0.33	25	0	0.33	0.33
2	N	915	2	3	3	915	2	3	3
	ESTIMATE	74	0.03	0.30	0.20	147	0.06	0.60	0.4
	(SE)	54.75	0.01	0.21	0.13	84.76	0.02	0.31	0.16
	N	915	10	10	10	915	10	10	10
3	ESTIMATE	220	0.04	0.38	0.3	564	0.10	0.96	0.5
	(SE)	88.07	0.01	0.13	0.10	166.99	0.03	0.21	0.10
	N	915	22	24	24	915	22	24	24
	ESTIMATE	25	0.01	0.07	0.1	49	0.03	0.13	0.1
4	(SE)	25	0.01	0.07	0.07	34.62	0.02	0.09	0.09
	N	915	15	15	15	915	15	15	15
5	ESTIMATE	613	0.02	0.21	0.2	1568	0.04	0.55	0.4
	(SE)	139	0.003	0.05	0.04	237.02	0.01	0.07	0.05
	N	915	108	117	117	915	108	117	117
	ESTIMATE	73	0.03	0.33	0.2	343	0.10	1.22	0.7
6	(SE)	54.75	0.02	0.24	0.15	176.37	0.04	0.43	1.7
	N	915	8	9	9	915	8	9	9
STATEWIDE	ESTIMATE	1,158	0.02	0.24	0.2	3,040	0.05	0.64	0.4
	(SE)	189.33	0.003	0.04	0.03	348.90	0.01	0.06	0.03
	N	929	175	197	197	929	175	197	197

TABLE 20. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF PRIMITIVE WEAPON DEER HUNTING IN MISSISSIPPI DURING THE 2003-04 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
1	ESTIMATE (SE)	50	0	0.20	0.20	0.1	1214	5.33	248	5.0
	N	905	9	10	10	10	886	9	202	202
2	ESTIMATE (SE)	248	0.06	0.67	0.67	0.4	3,137	9.54	372	7.4
	N	905	13	15	15	15	886	13	202	202
3	ESTIMATE (SE)	173	0.13	0.88	0.88	0.5	1417	7.00	198	4.0
	N	905	8	8	8	8	886	8	202	202
4	ESTIMATE (SE)	272	0.11	0.79	0.79	0.5	2606	7.36	347	6.9
	N	905	14	14	14	14	886	14	202	202
5	ESTIMATE (SE)	323,56	0.09	0.71	0.71	0.53	22,793	7.04	3542	70.8
	N	905	128	143	143	143	886	128	202	202
6	ESTIMATE (SE)	173	0.05	0.58	0.58	0.3	3,213	11.55	297	5.94
	N	905	11	12	12	12	886	11	202	202
	ESTIMATE (SE)	4,150	0.08	0.74	0.74	0.5	36,600	7.50	5,597	24.97
STATEWIDE	(SE)	423.74	0.01	0.06	0.06	0.03	3,424.56	0.52	318.47	0.01
	N	929	199	232	232	232	891	194	929	929

TABLE 21. EXPANDED STATEWIDE AND DISTRICT OF PRIMITIVE WEAPON BUCK AND DOE HUNTING IN MISSISSIPPI DURING THE 2003-04 HUNTING SEASON.

DISTRICT	STATISTIC	BUCKS				DOES			
		TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS
1	ESTIMATE	50	0	0.20	0.10	0	0	0	0
	(SE)	49.53	0	0.20	0.10	0	0	0	0
2	N	905	9	10	10	905	9	10	10
	ESTIMATE	25	0.01	0.07	0.1	223	0.05	0.60	0.33
(SE)	24.77	0.01	0.07	0.07	101.90	0.02	0.24	0.13	
3	N	905	13	15	15	905	13	15	15
	ESTIMATE	50	0.04	0.25	0.1	124	0.09	0.63	0.50
(SE)	49.53	0.03	0.25	0.13	65.43	0.04	0.26	0.19	
4	N	905	8	8	8	905	8	8	8
	ESTIMATE	99	0.04	0.29	0.3	173	0.07	0.50	0.43
(SE)	49.45	0.02	0.13	0.13	74.11	0.03	0.17	0.14	
5	N	905	14	14	14	905	14	14	14
	ESTIMATE	941	0.03	0.27	0.2	1,585	0.05	0.45	0.39
(SE)	172.40	0.01	0.04	0.04	218.11	0.01	0.05	0.04	
6	N	905	128	143	143	905	128	143	143
	ESTIMATE	50	0.01	0.17	0.2	124	0.04	0.42	0.25
(SE)	35	0.01	0.11	0.11	82.08	0.02	0.26	0.13	
STATEWIDE	N	905	11	12	12	905	11	12	12
	ESTIMATE	1,520	0.03	0.27	0.2	2,630	0.05	0.47	0.4
(SE)	219.56	0.004	0.04	0.03	285.83	0.01	0.04	0.03	
N	929	199	232	232	929	199	232	232	

TABLE 22. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF REGULAR GUN DEER HUNTING IN MISSISSIPPI DURING THE 2003-04 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	AVERAGE SEASONAL SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
1	ESTIMATE (SE) N	835 231.63 832	0.15 0.03 22	1.24 0.25 25	0.64 0.10 25	5,072 1,337 760	7.82 1.27 22	674 132.73 591	4.2 0.01 591
2	ESTIMATE (SE)	1,509 334.75	0.10 0.02	1.24 0.21	0.6 0.07	13,005 2,442.24	10.76 1.20	1,212 175.86	7.6 0.01
3	ESTIMATE (SE) N	832 1,024 241.49	41 0.09 0.02	45 0.79 0.15	45 0.5 0.07	760 11,059 2,077.06	41 7.98 1.0	591 1,293 181.28	591 8.12 0.01
4	ESTIMATE (SE) N	832 2,478 388.59	47 0.09 0.01	48 1.26 0.14	48 0.6 0.06	760 26,099 4,269.55	47 13.21 1.52	591 1,967 219.97	591 12.35 0.01
5	ESTIMATE (SE) N	832 13,092 854.99	67 0.08 0.01	73 1.36 0.07	73 0.7 0.02	760 141,762 8,192.30	67 15.56 0.59	591 9,644 384.95	591 60.58 0.02
6	ESTIMATE (SE) N	832 1,859 608.30	309 0.08 0.02	358 1.68 0.49	358 0.7 0.07	760 13,182 2,797.42	309 13.55 1.74	591 1,105 168.29	591 6.94 0.01
STATEWIDE	ESTIMATE (SE) N	21,231 858.35 929	0.08 0.004 554	1.28 0.05 689	0.7 0.02 689	213,392 8,543.22 789	13.68 0.44 549	16623 322.05 929	74.17 0.01 929

TABLE 23. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF REGULAR GUN BUCK AND DOE HUNTING IN MISSISSIPPI DURING THE 2003-04 HUNTING SEASON.

DISTRICT	STATISTIC	BUCKS				DOES			
		TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS
1	ESTIMATE	243	0.04	0.36	0.3	593	0.11	0.88	0.6
	(SE)	96.82	0.01	0.13	0.1	169.23	0.02	0.19	0.10
2	N	832	22	25	25	832	22	25	25
	ESTIMATE	862	0.06	0.71	0.5	647	0.04	0.53	0.3
3	(SE)	206.64	0.01	0.14	0.08	211	0.01	0.16	0.07
	N	832	41	45	45	832	41	45	45
4	ESTIMATE	700	0.07	0.54	0.4	323	0.03	0.25	0.2
	(SE)	164.38	0.01	0.10	0.07	125.93	0.01	0.09	0.05
5	N	832	47	48	48	832	47	48	48
	ESTIMATE	1,266	0.05	0.64	0.5	1212	0.04	0.62	0.4
6	(SE)	222.84	0.01	0.09	0.06	226.43	0.01	0.09	0.06
	N	832	67	73	73	832	67	73	73
STATEWIDE	ESTIMATE	6,816	0.04	0.71	0.5	6,277	0.04	0.65	0.4
	(SE)	489.71	0.003	0.04	0.03	572.91	0.004	0.05	0.03
STATEWIDE	N	832	309	358	358	832	309	358	358
	ESTIMATE	10,778	0.05	1.0	0.5	781	0.03	0.71	0.3
STATEWIDE	(SE)	334.59	0.01	0.27	0.08	309.68	0.01	0.26	0.07
	N	832	33	41	41	832	33	41	41
STATEWIDE	ESTIMATE	11,194	0.05	0.67	0.5	10,036	0.04	0.60	0.4
	(SE)	544.20	0.002	0.03	0.02	573.12	0.002	0.03	0.02
STATEWIDE	N	929	554	689	689	929	554	689	689

TABLE 24. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF SPRING TURKEY HUNTING IN MISSISSIPPI DURING THE 2002-03 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
1	ESTIMATE	48	0.09	0.33	0.3	560	3.83	145	3.7
	(SE)	34.21	0.06	0.21	0.21	241.56	0.60	59.13	0.02
2	ESTIMATE	926	6	6	6	921	6	164	164
	(SE)	436	0.18	0.95	0.6	2,215	5.06	460	11.6
3	ESTIMATE	144.60	0.04	0.24	0.12	632.13	0.85	104.47	0.03
	(SE)	926	18	19	19	921	18	164	164
4	ESTIMATE	169	0.14	0.54	0.4	1,046	3.58	315	7.9
	(SE)	87.14	0.07	0.24	0.14	348.61	0.63	86.70	0.02
5	ESTIMATE	926	12	13	13	921	12	164	164
	(SE)	242	0.10	0.46	0.3	2,409	4.50	533	13.4
6	ESTIMATE	108.01	0.04	0.18	0.10	594.61	0.59	112.23	0.03
	(SE)	926	22	22	22	921	22	164	164
STATEWIDE	ESTIMATE	1,646	0.10	0.69	0.4	14,991	6.48	2,372	59.8
	(SE)	279.29	0.01	0.10	0.05	1,990.65	0.59	226.70	0.04
STATEWIDE	ESTIMATE	926	95	98	98	921	95	164	164
	(SE)	97	0.15	0.67	0.3	657	4.50	145	3.7
STATEWIDE	ESTIMATE	68.42	0.09	0.42	0.21	321.37	1.34	59.13	0.02
	(SE)	926	6	6	6	921	6	164	164
STATEWIDE	ESTIMATE	2,895	0.11	0.69	0.4	23,340	5.84	4,198	18.7
	(SE)	361.68	0.01	0.07	0.04	2,267.45	0.39	287.05	0.01
STATEWIDE	ESTIMATE	929	169	174	174	919	164	929	929
	(SE)	174	6	6	6	921	6	164	164

TABLE 25. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF FALL TURKEY HUNTING IN MISSISSIPPI DURING THE 2002-03 HUNTING SEASON.

DISTRICT (A)	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
2	ESTIMATE	72	0.14	0.60	0.2	526	4.40	120	50.0
	(SE)	72	0.08	0.60	0.20	315.23	1.97	53.37	0.17
3	ESTIMATE	937	5	5	5	937	5	10	10
	(SE)	0	0	0	0	239	5.00	48	20.0
5	ESTIMATE	937	2	2	2	937	2	10	10
	(SE)	48	0.06	0.67	0.7	765	10.67	72	30.0
STATEWIDE	ESTIMATE	937	3	3	3	937	3	10	10
	(SE)	33.81	0.05	0.33	0.33	509.33	4.33	41.39	0.15
STATEWIDE	ESTIMATE	121	0.08	0.50	0.3	1,544	6.40	241	1.1
	(SE)	79.96	0.04	0.31	0.15	630.20	1.75	75.92	0.003
STATEWIDE	ESTIMATE	929	15	10	10	929	10	929	929
	(SE)	929	15	10	10	929	10	929	929

(A) FALL TURKEY HUNTING WAS LEGAL IN DISTRICTS 2, 3, AND 5.

(B) CALCULATED AS A PERCENT OF BIG GAME LICENSE HOLDERS ONLY.

TABLE 26. EXPANDED STATEWIDE SUMMARIES OF ALL DEER, BUCK, DOE, AND TURKEY (FALL '02 AND SPRING '03) HUNTING IN MISSISSIPPI DURING THE 2002-03 HUNTING SEASON.

SPECIES	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENSEES (A)
DEER	ESTIMATE	29,578.40	0.08	1.63	70.8	304,921	17.67	18,119	80.8
	(SE)	1,178.63	0.003	0.06	1.66	12,600.94	0.64	289.56	1.29
BUCK	ESTIMATE	13,872.42	0.04	0.76	751	774	596	929	929
	(SE)	640.98	0.002	0.03	1.82				
DOE	ESTIMATE	15,705.99	0.04	0.87	49.9				
	(SE)	789.90	0.002	0.04	1.83				
TURKEY	ESTIMATE	3,015.74	0.11	0.70	42.1	24,901	6.08	4,294	19.2
	(SE)	380.28	0.011	0.08	3.71	2,393.20	0.40	289.56	1.29
	N	929	601	178	178	919	168	929	929

(A) CALCULATED AS A PERCENT OF BIG GAME LICENSE HOLDERS ONLY.

TABLE 27. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF HOG HUNTING IN MISSISSIPPI DURING THE 2002-03 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
1	ESTIMATE (SE) N	585 470.10 1,342	1.15 1.01 5	4.00 3.03 6	0.7 0.21 6	492 245.52 1,331	4.00 1.00 5	146 59.60 32	18.8 0.07 32
2	ESTIMATE (SE) N	975 643.76 1,342	1.31 1.24 2	13.33 5.24 3	1.00 0 3	320 256.57 1,331	6.50 3.50 2	73 42.19 32	9.4 0.05 32
3	ESTIMATE (SE) N	171 106.20 1,342	1.00 0.67 1	2.33 0.67 3	1.00 0 3	25 24.58 1,331	1.00 1 5.00	73 42.19 24	9.4 0.05 3.1
4	ESTIMATE (SE) N	49 48.76 1,342	0.40 0.20 1	2.00 1.93 1	1.00 0.9 1	123 1,222.90 1,331	5.00 10.86 1	24 24.38 32	3.1 0.03 32
5	ESTIMATE (SE) N	658 263.18 1,342	0.12 0.12 7	0.60 0.60 14	0.10 0.10 14	908.03 908.03 1,331	3.60 3.60 7	341 90.77 32	43.8 0.09 32
6	ESTIMATE (SE) N	536 403.42 1,342	0.22 0.13 5	4.40 2.98 5	0.8 0.20 5	2,433 1,366.34 1,331	19.80 7.53 5	122 54.43 32	15.6 0.07 32
STATEWIDE	ESTIMATE (SE) N	3,303 959.80 1,337	0.40 0.14 33	3.75 0.91 36	0.9 0.06 36	5,341 1,689.94 1,323	9.82 2.36 22	881 144.88 1,337	2.7 0.004 1,337

Summary of Non-resident Responses to Opinion Questions for 2002-2003

Table 28. Percent of respondents by their age.

Age	Frequency	Percent
18-20	19	1.42
21-25	39	2.93
26-30	70	5.25
31-35	104	7.79
36-40	147	11.02
41-45	182	13.64
46-50	193	14.47
51-55	186	13.94
56-60	144	10.80
61-65	109	8.17
66-70	75	5.62
71-75	44	3.30
76-80	13	0.98
81-85	7	0.52
85+	2	0.15
TOTAL	1334	100.0

n missing=9

Average age=48.3 years

Table 29. Percent of respondents by their gender.

Gender	Frequency	Percent
MALE	1296	97.96
FEMALE	27	2.04
TOTAL	1323	100.0

n missing=20

Table 30. Percent of respondents by their approximate annual household income before taxes.

Household income	Frequency	Percent
Under 10,999	20	1.62
10,000-19,999	42	3.4
20,000-29,999	81	6.56
30,000-39,999	103	8.34
40,000-49,999	106	8.58
50,000-59,999	120	9.72
60,000-69,999	121	9.8
70,000-79,999	94	7.61
80,000-89,999	77	6.23
90,000-99,999	76	6.15
100,000 and above	395	31.98
TOTAL	1235	100.0

n missing=108

Table 31. Percent of respondents by their highest completed level of education.

Education	Frequency	Percent
Elementary	20	1.52
High School	490	37.18
College	588	44.61
Graduate School	220	16.69
TOTAL	1318	100.0

n missing=25

Table 32. Percent of respondents by their Spanish/Hispanic origin.

Spanish/Hispanic origin	Frequency	Percent
No, not Spanish/Hispanic	1129	98.09
Yes, Mexican, American, Chicano	7	0.61
Yes, other Spanish/Hispanic group	15	1.3
TOTAL	1151	100.0

n missing=192

Respondents' specifications [See Table 32] of their Other Spanish/Hispanic origin.

Specify	Frequency	Percent
AMERICAN	2	15.39
ASIAN	1	7.69
FRENCH	2	15.39
HISPIANIC OF EUROPEAN DESCENT	1	7.69
PUERTO RICO	1	7.69
SPANISH AND FRENCH	1	7.69
AMERICAN FRENCH	1	7.69
ENGLISH	1	7.69
GERMAN	1	7.69
NATIVE HONDURAS	1	7.69
SPANISH	1	7.69
TOTAL	13	100.0

n missing=2

Table 33. Percent of respondents by their race.

Race	Frequency	Percent
WHITE OR ANGLO	1292	98.18
BLACK OR AFRICAN AMERICAN	14	1.06
NATIVE AMERICAN OR ALASKAN NATIVE	3	0.23
ASIAN OR PACIFIC ISLANDER	1	0.08
OTHER	6	0.45
TOTAL	1316	100.0

n missing=27

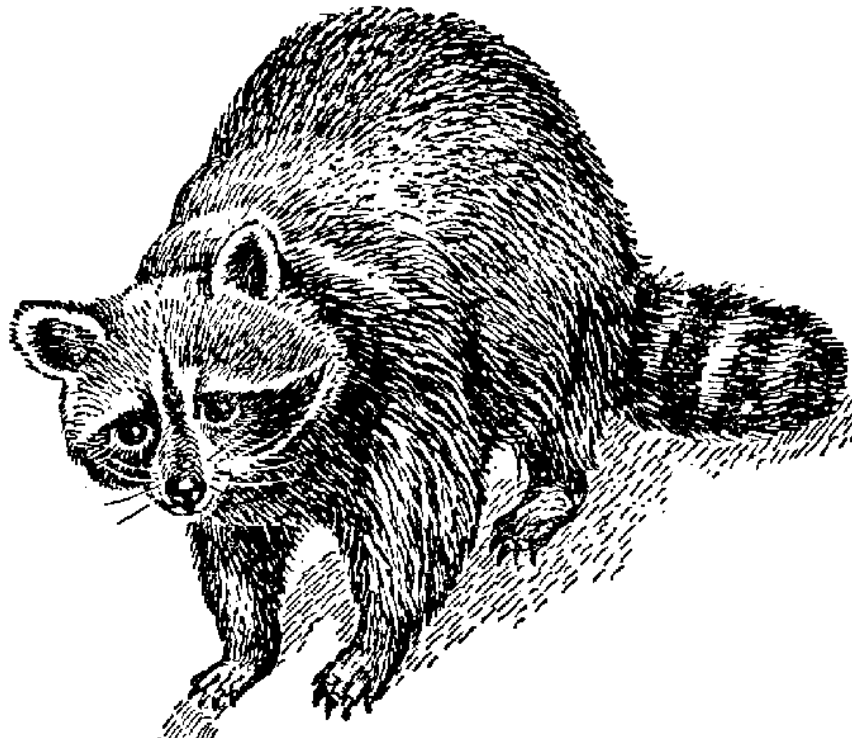
Respondents' specifications [See Table 33] of their race.

Specify	Frequency	Percent
BLACK AMERICAN	1	16.67
HISPANIC	2	33.33
AMERICAN	1	16.67
CAJUN	1	16.67
GREEK	1	16.67
TOTAL	6	100.0

Appendix A

Questionnaire: 2003 Survey of Mississippi Non-resident Hunters

*2003 Survey of Mississippi
Non-Resident Hunters*

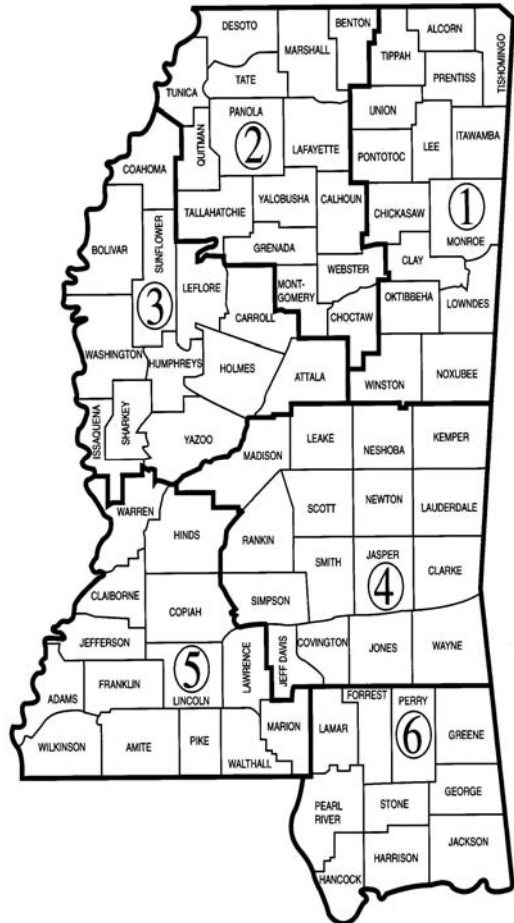


*Conducted for the
Mississippi Department of Wildlife, Fisheries & Parks
by the
Human Dimensions & Conservation Law Enforcement Laboratory
Forest & Wildlife Research Center
Mississippi State University*

1. Please fill in the blocks below for each game, furbearer, or predatory species you hunted during the 2002-2003 hunting season (even if you were unsuccessful). If you hunted more than one species on a particular day, count a day for each species you hunted. Report only game, furbearer, or predatory species taken by you in Mississippi.

Species Sought	Total harvested in Mississippi in 2002-03 season	Days hunted species in Mississippi in 2002-03 season	District Hunted Most
Dove			
Quail			
Woodcock			
Rabbit			
Squirrel			
Raccoon			

DETERMINE DISTRICT (1-6) HUNTED MOST FROM THE MAP BELOW



	Bucks	Does		
Deer (Archery)				
Deer (Primitive Weapon)				
Deer (Gun)				
Turkey (Fall 2002)				
Turkey (Spring 2003)				

	Mallard	Wood	Other		
Ducks					
Geese					
Red fox					
Gray fox					
Bobcat					
Coyote					
Feral Hog					

The following questions will help us to know more about hunters. The information you provide will remain strictly confidential and you will not be identified with your answers.

2. What is your age?

_____ YEARS

3. Are you?

- 1 MALE
- 2 FEMALE

4. What is your approximate annual household income before taxes?

- | | |
|-----------------------|------------------------|
| 1 Under \$10,000 | 7 \$60,000 - \$69,999 |
| 2 \$10,000 - \$19,999 | 8 \$70,000 - \$79,999 |
| 3 \$20,000 - \$29,999 | 9 \$80,000 - \$89,999 |
| 4 \$30,000 - \$39,999 | 10 \$90,000 - \$99,999 |
| 5 \$40,000 - \$49,999 | 11 \$100,000 and ABOVE |
| 6 \$50,000 - \$59,999 | |

5. What is your highest completed level of education? *(Please circle only one number)*

- | | | | | | | | | | | | | | | | | | | | | | |
|------------|----------|----------|----------|-------------|----------|----------|----------|----------|-----------|-----------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| <u>1</u> | <u>2</u> | <u>3</u> | <u>4</u> | <u>5</u> | <u>6</u> | <u>7</u> | <u>8</u> | <u>9</u> | <u>10</u> | <u>11</u> | <u>12</u> | <u>13</u> | <u>14</u> | <u>15</u> | <u>16</u> | <u>17</u> | <u>18</u> | <u>19</u> | <u>20</u> | <u>21</u> | <u>22+</u> |
| elementary | | | | high school | | | | college | | | | graduate school | | | | | | | | | |

6. Are you of Spanish/Hispanic origin?

- 1 NO, NOT SPANISH/HISPANIC
- 2 YES, MEXICAN, MEXICAN AMERICAN, CHICANO
- 3 YES, OTHER SPANISH/HISPANIC GROUP *(Please specify: _____)*

7. What is your race?

- 1 WHITE OR ANGLO
- 2 BLACK OR AFRICAN AMERICAN
- 3 NATIVE AMERICAN OR ALASKAN NATIVE
- 4 ASIAN OR PACIFIC ISLANDER
- 5 OTHER *(Please specify: _____)*

8. Was this survey completed by the person to whom it was addressed?

- 1 YES
- 2 NO

Is there anything else you would like to share with us about hunting or wildlife management in Mississippi?

Your contribution of time to this study is greatly appreciated. Please return your completed questionnaire in the postage paid business reply envelope as soon as possible. Thank You.

Mississippi State University
Department of Wildlife and Fisheries
Mississippi State, MS 39762-9690
2/04

Appendix B

Survey correspondence with hunters for the 2002 Survey of Mississippi
Non-resident Hunters

10000



Mississippi State
UNIVERSITY

Department of Wildlife and Fisheries
Box 9690
Mississippi State, MS 39762-9690

March 15, 2004

John Doe
123 Buck Drive
Fawn, MO 63755

Dear John:

In conjunction with the Mississippi Department of Wildlife, Fisheries and Parks (MDWFP) we are conducting a study of non-resident hunters in Mississippi. We conduct this study each year to determine the amount of game harvested in Mississippi during the previous hunting season.

The enclosed survey is designed to tell us about your general hunting activity and game harvest in last year's hunting season (2002-2003). Although the survey is completely voluntary, we hope that you will take the 5-10 minutes necessary to provide your input and be a part of the wildlife management process. The information you provide will be useful in evaluating wildlife management in Mississippi.

You are one of a small number of hunters selected to participate in this study. It is important that YOU and no one else complete the questionnaire. Your responses are important to us whether you hunt often or just occasionally. All responses will be strictly confidential, and you will not be identified with your answers. Your answers will be grouped with other respondents in a non-identifiable manner. The survey has an identification number for mailing purposes only. This is so we can remove your name from the mailing list once we receive it.

After you complete the questionnaire, please return it to Mississippi State University in the postage-paid, business reply envelope as soon as possible. If you should have any questions about this research project, please feel free to contact me at Mississippi State University at (662) 325-4153. For additional information regarding human participation in research, please feel free to contact the MSU Regulatory Compliance Office at (662) 325-0994. Thank you in advance for your cooperation and good luck during the current hunting season.

Sincerely,

A handwritten signature in cursive script that reads "Kevin M. Hunt".

Dr. Kevin M. Hunt
Assistant Professor & Director
Human Dimensions & Conservation Law Enforcement Laboratory

10000



Mississippi State
UNIVERSITY

Department of Wildlife and Fisheries
Box 9690
Mississippi State, MS 39762-9690

April 6, 2004

John Doe
123 Buck Drive
Fawn, MO 63755

Dear John:

About three weeks ago, we sent you a survey of Mississippi non-resident hunters. As of today, we have not yet received your completed questionnaire. If you have recently returned your survey, please accept our thanks.

The success and accuracy of our study depends on you and the others who have not yet responded. Those who have not responded may represent a completely different portion of the hunting public than those who have already sent us their questionnaires. We need your help in making sure this study is representative. If you did not hunt during the 2002-2003 hunting season please write **DID NOT HUNT** on the front of the questionnaire and mail it back to us so we can take your name off the mailing list.

The enclosed survey is designed to tell us about your hunting participation and game harvest in the 2002-2003 Mississippi hunting season (September 1, 2002 – May 1, 2003). Although the survey is completely voluntary, we hope that you will take the 5-10 minutes necessary to provide your input and be a part of the wildlife management process. The information you provide will be useful in evaluating wildlife management in Mississippi.

You are one of a small number of hunters selected to participate in this study. It is important that YOU and no one else complete the questionnaire. Your responses are important to us whether you hunt often, just occasionally, or last year was your first hunting in Mississippi. All responses will be strictly confidential, and you will not be identified with your answers. Your answers will be grouped with other respondents in a non-identifiable manner. The survey has an identification number for mailing purposes only. This is so we can remove your name from the mailing list once we receive it.

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Dr. Kevin M. Hunt
Assistant Professor & Director
Human Dimensions & Conservation Law Enforcement Laboratory

10000



Mississippi State
UNIVERSITY

Department of Wildlife and Fisheries
Box 9690
Mississippi State, MS 39762-9690

May 4, 2004

John Doe
123 Buck Drive
Fawn, MO 63755

Dear John:

About a month ago, we sent you a survey of Mississippi non-resident hunters. As of today, we have not yet received your completed questionnaire. If you have recently returned your survey, please accept our thanks.

The success and accuracy of our study depends on you and the others who have not yet responded. Those who have not responded may represent a completely different portion of the hunting public than those who have already sent us their questionnaires. We need your help in making sure this study is representative. If you did not hunt during the 2002-2003 hunting season please write **DID NOT HUNT** on the front of the questionnaire and mail it back to us so we can take your name off the mailing list. If you do not want to participate for any reason please write **REFUSAL** on the front cover.

The enclosed survey is designed to tell us about your hunting participation and game harvest in the 2002-2003 Mississippi hunting season (September 1, 2002 – May 1, 2003). Although the survey is completely voluntary, we hope that you will take the 5-10 minutes necessary to provide your input and be a part of the wildlife management process. The information you provide will be useful in evaluating wildlife management in Mississippi.

You are one of a small number of hunters selected to participate in this study. It is important that YOU and no one else complete the questionnaire. Your responses are important to us whether you hunt often, just occasionally, or last year was your first hunting in Mississippi. All responses will be strictly confidential, and you will not be identified with your answers. Your answers will be grouped with other respondents in a non-identifiable manner. The survey has an identification number for mailing purposes only. This is so we can remove your name from the mailing list once we receive it.

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