Non-Resident Hunter Effort & Game Harvest Estimates for the 2004-2005 Mississippi Hunting Season

Prepared for the

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

By

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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 hunters' 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 1994, 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 nonresponse 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 2004-05 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 information from non-respondents. 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 133, 134, 140, and 141) purchased during the 2004-2005 license year. A random sample of 3,000 license holders was selected to participate in this study from the 32,569 non-resident licenses processed from July 1, 2004 – June 30, 2005.

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) An 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.

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 3,000 questionnaires were mailed to nonresident hunters. There were a total of 1,482 useable questionnaires returned by hunters. Useable questionnaires included those who indicated they hunted at least one species one or more days during the 2004-05 season (n=1,416), and those who indicated they "DID NOT HUNT" on their returned survey (n=63). Since harvest estimates are extrapolated to all hunter license holders, those who indicated they did not hunt were included in the database as hunting zero days and harvesting zero animals for each species. Questionnaires were checked for the completeness of responses where it was found that 1 individual indicated their refusal to participate and 2 individuals were reported as being deceased. When non-deliverables (n=723) were excluded from consideration, an effective response rate of 65.1% was obtained. The number of non-deliverables were high this year; most likely because the study was hampered by Hurricane Katrina. The second mailing for the survey was postmarked the day Hurricane Katrina hit the Louisiana and Mississippi coast.

Statewide expansions were calculated based on the 32,569 non-resident hunting licenses sold and accounted for by June 30, 2005. There were 32,569 individuals licensed to hunt small game and 22,744 of these license holders also were eligible to pursue big game (deer and turkey) in Mississippi during the 2004-2005 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 (spring and fall) are provided in Tables 18-26. Table 27 summarizes district and statewide estimates for feral hog. Tables 28-33 summarize non-resident demographic characteristics.

ACKNOWLEDGMENTS

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 $\begin{array}{ll} \text{TABLE 1.} & \text{EXPANDED STATEWIDE COVERAGE OF THE 2004-05 MISSISSIPPI NONRESIDENT MAIL SURVEY OF GAME HARVEST} \\ & \text{BASED ON 32,569 SMALL GAME LICENSE HOLDERS AND 22,744 BIG GAME LICENSE HOLDERS.} \end{array}$

SPECIES	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN- DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENSEES (A)
DOVE	70,743	5.70	21.96	93.2	12 244	3.86	3,222	9.9
QUAIL	2,582	3.66	11.70	93.2	12,344 707	3.20	221	0.7
WOODCOCK	2,382	0.33	1.00	100.0	67	3.00	23	0.07
RABBIT	10,371	1.15	7.01	85.1	8,547	6.23	1,479	4.5
SQUIRREL	71,074	3.45	18.84	96.5	19,053	5.36	3,774	11.6
RACCOON	5,318	0.71	7.44	96.3	6,245	10.48	596	1.8
TOTAL DUCK	90,602	2.27	24.85	95.3	35,791	10.96	3,266	10.0
MALLARD	42,985	1.08	11.82	84.5				
WOOD DUCK	8,716	0.21	2.28	48.0				
OTHER DUCKS	38,902	0.98	10.75	72.3				
GEESE	2,847	0.33	3.62	93.1	7,039	11.00	640	2.0
RED FOX	23	0.00	0.50	50.0	265	12.0	45	0.1
GRAY FOX	0	0.00	0.00	0.0	265	12.0	23	0.07
BOBCAT	442	0.09	1.14	85.7	3,492	13.17	309	0.9
COYOTE	817	0.14	1.43	76.2	3,654	10.31	464	1.4
TOTAL DEER	26,718	0.08	1.48	67.2	265,103	15.23	18,096	79.6
BUCK	12,898	0.04	0.71	48.1				
DOE	13,821	0.04	0.76	45.3				
ARCHERY DEER	3,336	0.06	0.73	50.8	39,816	10.03	4,542	20.0
BUCK	763	0.02	0.17	15.2				
DOE	2,572	0.05	0.57	41.8				
PRIMITIVE DEER	3,992	0.10	0.75	58.5	32,526	6.91	5,341	23.5
BUCK	1,526	0.04	0.29	25.6				
DOE	2,466	0.06	0.46	40.2				
GUN DEER	19,391	0.09	1.20	64.5	185,610	12.08	16,198	71.2
BUCK	10,610	0.05	0.65	47.5				
DOE	8,782	0.04	0.54	37.7				
TOTAL TURKEY	2,573	0.09	0.63	40.9	23,752	6.17	4,116	18.1
SPRING 2005	2,466	0.09	0.62	40.4	22,511	6.02	3,992	17.6
FALL 2004	107	0.06	0.46	30.8	1,208	5.67	231	1.0
HOG	3,288	0.20	2.48	75.9	10,270	10.48	1,280	3.9

⁽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 NONRESIDENTS FOR ALL GAME SPECIES IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON.

STANDARD ERROR

95% CONFIDENCE INTERVAL

SPECIES	TOTAL HARVEST	SE	AS % OF TOTAL (A)	LOWER LIMIT	UPPER LIMIT
DOVE	70,743	8,302	11.7	54,140	87,346
QUAIL	2,582	1,065	41.2	452	4,712
WOODCOCK	23	23	100.0	-23	67
RABBIT	10,371	3,432	33.1	3,508	17,235
SQUIRREL	71,074	12,073	17.0	46,930	95,218
RACCOON	5,318	1,720	32.3	1,880	8,757
TOTAL DUCKS	90,602	9,920	10.9	70,762	110,441
MALLARD	42,985	4,857	11.3	33,272	52,697
WOOD DUCK	8,716	1,262	14.5	6,193	11,240
OTHER DUCKS	38,902	5,179	13.3	28,545	49,260
GEESE	2,846	764	26.8	1,320	4,374
RED FOX	23	23	100.0	-23	67
GRAY FOX	0	0		0	0
BOBCAT	442	121	27.4	201	683
COYOTE	817	203	45.9	412	1,222
TOTAL DEER	26,718	961	3.6	24,797	28,639
BUCK	12,898	546	4.2	11,807	13,989
DOE	13,821	642	4.6	12,537	15,104
ARCHERY DEER	3,336	347	10.4	2,643	4,028
BUCK	763	125	16.4	513	1,013
DOE	2,572	309	12.0	1,955	3,190
PRIMITIVE DEER	3,992	313	7.8	3,368	4,617
BUCK	1,526	176	11.5	1,174	1,878
DOE	2,466	226	9.2	2,015	2,918
GUN DEER	19,391	755	3.9	17,882	20,900
BUCK	10,610	482	4.5	9,647	11,572
DOE	8,782	463	5.3	7,857	9,708
TOTAL TURKEY	2,573	283	11.0	2,009	3,137
SPRING 2005	2,466	278	11.3	1,912	3,021
FALL 2004	107	57	53.3	-6	219
HOG	3,288	830	25.2	1,629	4,947

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

STATEWIDE DISTRICT ESTIMATE **ESTIMATE ESTIMATE ESTIMATE ESTIMATE ESTIMATE** ESTIMATE STATISTIC (SE) (SE) TOTAL HARVEST 4,107.31 6,164.07 1,684.18 31,546 70,743 690.61 15,840 1,464 7,987 1,464 6,407 1,464 1,464 1,464 1,464 1,468 AVERAGE DAILY KILL 0.78 3.65 1.50 5.50 0.78 6.98 1.67 AVERAGE SEASONAL HARVEST 21.96 11.52 2.86 9.43 4.64 1.92 PERCENT SUCCESSFUL HUNTERS 100.0 8.72 76.0 0.00 3.57 96.4 2.42 TOTAL MANDAYS 1,493.84 1,823.46 12,343 427.34 521.38 226.36 113.26 1,464 1,475 1,464 2,113 1,464 1,758 1,464 1,464 2,269 5,184 267 AVERAGE SEASONAL DAYS HUNTING 0.36 0.45 0.49 1.71 1.04 TOTAL HUNTERS 110.32 116.63 166.09 3,222 58.74 557 623 140 140 140 140 267 140 156 PER DISTRICT HUNTERS PERCENT 1,476 0.78

TABLE 3. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF DOVE HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON

1,476	1,476	10	1,476	10	10	10	1,476	z	
0.21	69.57	0.94	297.22	10.00	3.28	1.32	1,064.95	(SE)	SIAIEWIDE
0.7	221	3.20	706	90.0	11.70	3.66	2,582	ESTIMATE	
10	10		1,770				1,170		
10	10	u	1 470	u	u	ω.	1 470	Z	
15.28	38.35	1.53	141.82	0.00	3.76	1.94	732.04	(SE)	
30.0	67	3.00	199	100.0	18.3	6.11	1,219	ESTIMATE	6
10	10	1	1,470	1	1	1	1,470	Z	
10.00	22.16	1	22.16	1	1		44.31	(SE)	
10.0	23	1.00	22	100.0	2.00	2.00	44	ESTIMATE	5
10	10	1	1,470	1			1,470	Z	
0.00	0.00		0.00	1			0.00	(SE)	
0.0	0		0	1			0	ESTIMATE	4
10	10	1	1,470	1	1	_	1,470	z	
10.00	22.16		22.16				44.31	(SE)	
10.0	23	1.00	22	100.0	2.00	2.00	44	ESTIMATE	ω
10	10	5	1,470	5	5	5	1,470	z	
16.67	49.47	1.59	261.02	20.00	5.31	1.71	778.47	(SE)	
50.0	111	4.20	465	80.0	11.60	2.76	1,285	ESTIMATE	2
10	10		1,470	1			1,470	z	
0.00	0.00		0.00				0.00	(SE)	
0.0	0		0		1	1	0	ESTIMATE	-
HUNTERS PER DISTRICT	TOTAL HUNTERS DIST		TOTAL MANDAYS	PERCENT SUCCESSFUL HUNTERS	AVERAGE SEASONAL HARVEST	AVERAGE DAILY KILL	TOTAL HARVEST	STATISTIC	DISTRICT
PERCENT		AVERAGE							

TABLE 4. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF QUAIL HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON.

STATEWIDE DISTRICT TOTAL STATISTIC HARVEST **ESTIMATE** ESTIMATE **ESTIMATE** ESTIMATE **ESTIMATE** ESTIMATE 22 22.07 1,470 1,470 1,470 1,470 1,470 0.00 0.00 0.00 22 AVERAGE DAILY KILL AVERAGE SEASONAL HARVEST 0.00 1.00 PERCENT SUCCESSFUL HUNTERS TOTAL MANDAYS 66.20 1,470 1,470 1,470 1,470 1,470 0.00 0.00 0.00 67 AVERAGE SEASONAL DAYS HUNTING HUNTERS TOTAL 22.07 PERCENT HUNTERS PER DISTRICT

TABLE 5. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF WOODCOCK HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON.

STATEWIDE ESTIMATE DISTRICT STATISTIC HARVEST **ESTIMATE ESTIMATE ESTIMATE ESTIMATE ESTIMATE ESTIMATE** (SE) (SE) (SE) 3,431.68 3,308.97 TOTAL 10,371 806.92 318.68 379.19 277.26 1,476 3,698 1,462 1,462 1,462 1,462 1,462 602 579 379 AVERAGE DAILY KILL 3.33 0.70 0.52 0.39 0.18 0.35 0.24 1.00 1.86 AVERAGE SEASONAL HARVEST 4.37 1.67 4.50 3.28 2.18 7.02 1.00 5.00 0.66 8.67 2.21 3.40 38 PERCENT SUCCESSFUL HUNTERS 100.0 16.67 20.00 100.0 81.6 83.3 0.00 4.39 6.37 80.0 TOTAL MANDAYS 2,013.26 1,672.06 362.26 8,546 233.90 422.93 964.45 1,460 5,086 1,460 49.87 1,460 1,460 1,460 580 312 759 67 AVERAGE SEASONAL DAYS HUNTING 6.16 2.54 5.20 2.73 4.67 1.79 1.26 HUNTERS TOTAL 176.53 135.58 1,476 54.47 1,479 38.56 49.75 31.49 847 134 112 45 59 67 HUNTERS PER DISTRICT PERCENT 1,476 0.54 2.38 6.29 3.97 10.2 3.66 64.4 2.89 3.4 5.1 59

TABLE 6. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF RABBIT HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON

STATEWIDE ESTIMATE 6 DISTRICT TOTAL STATISTIC HARVEST ESTIMATE ESTIMATE **ESTIMATE ESTIMATE ESTIMATE** ESTIMATE (SE) (SE) (SE) (SE) 12,072.12 11,534.54 3,417.65 47,656 71,074 879.05 661.86 1,455 4,969 1,455 1,455 1,880 1,455 8,931 1,455 1,455 AVERAGE DAILY KILL 0.74 0.77 0.37 3.45 0.51 3.99 2.80 2.77 0.41 1.71 160 AVERAGE SEASONAL HARVEST 21.08 12.00 3.58 4.71 8.13 PERCENT SUCCESSFUL HUNTERS 14.29 100.0 1.39 98.0 85.7 7.14 1.41 MANDAYS 2,435.52 TOTAL 1,870.59 1,369.17 11,081 410.97 302.82 19,052 409.59 1,465 1,449 112.35 1,461 1,449 1,449 1,449 3,079 1,449 1,449 1,259 674 AVERAGE SEASONAL DAYS HUNTING 1.13 5.08 TOTAL HUNTERS 217.09 271.41 2,261 59.10 83.38 83.38 31.65 157 156 314 HUNTERS PER DISTRICT PERCENT 1,476 2.30 2.30 1.66 156

TABLE 7. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF SQUIRREL HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON

STATEWIDE ESTIMATE 2 DISTRICT TOTAL STATISTIC HARVEST **ESTIMATE ESTIMATE ESTIMATE** ESTIMATE ESTIMATE **ESTIMATE** (SE) (SE) (SE) 1,719.39 1,444.58 410.36 645.03 5,318 1,469 2,616 1,469 1,469 1,469 1,242 1,469 0.00 687 AVERAGE DAILY KILL 0.11 0.690.541.03 AVERAGE SEASONAL HARVEST 3.09 2.07 2.67 4.77 7.80 2.93 PERCENT SUCCESSFUL HUNTERS MANDAYS 2,188.11 1,441.26 1,468.52 TOTAL 467.01 229.25 590.01 1,476 1,469 1,469 2,505 1,469 1,286 1,469 1,469 333 0.00 665 AVERAGE SEASONAL DAYS HUNTING TOTAL HUNTERS 44.30 HUNTERS PER DISTRICT PERCENT 9.73 0.00 38.5 7.22 0.0 26 26 26

TABLE 8. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF RACCOON HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON

STATEWIDE ESTIMATE 6 S S 0 DISTRICT STATISTIC **ESTIMATE** ESTIMATE **ESTIMATE ESTIMATE ESTIMATE ESTIMATE** (SE) (SE) (SE) (SE) (SE) (SE) TOTAL HARVEST 9,919.58 2,241.73 2,309.71 6,339.00 6,494.20 90,602 32,368 37,573 945.07 3,507 1,458 5,138 1,458 1,458 1,458 22.34 22 AVERAGE DAILY KILL 0.15 3.02 0.27 0.25 1.00 2.27 0.60 1.71 2.33 2.23 0.68148 53 57 AVERAGE SEASONAL HARVEST 24.85 24.89 2.21 PERCENT SUCCESSFUL HUNTERS 100.0 100.0 96.2 TOTAL MANDAYS 3,594.04 2,129.32 1,177.69 2,553.34 12,621 441.46 35,791 16,128 668.99 1,476 1,117 1,458 2,882 1,458 1,458 1,458 22.34 1,458 22 AVERAGE SEASONAL DAYS HUNTING 10.66 148 TOTAL HUNTERS 254.71 159.70 165.38 1,467 3,266 22.34 1,184 1,274 58.98 44.63 83.21 313 136 136 136 136 23 PERCENT HUNTERS DISTRICT 2.62 0.74 4.20 39.0 4.25 10.3 1.90 1.45 136 136 0.7 136 136 136 136 2.9

TABLE 9. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF ALL DUCK HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON

TABLE 10. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF MALLARD HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON.

MALLARDS

2.99 148	11.82 148	0.09 148	4,856.36 1,476	(SE) N	
84.5	1.11	1.08	42,984	ESTIMATE	STATEWIDE
4	4	4	1,458	Z	
0.00	0.00	0.00	134.03	(SE)	
0.0	0.00	0.00	134	ESTIMATE	6
14	14	14	1,458	Z	
13.29	2.24	0.10	872.65	(SE)	
64.3	6.64	0.72	2,078	ESTIMATE	5
1	1	1	1,458	Z	
1	1		0.00	(SE)	
0.0	0.00	0.00	0	ESTIMATE	4
53	53	53	1,458	z	
4.39	2.10	0.16	3,216.28	(SE)	
88.7	12.59	1.18	16,084	ESTIMATE	3
57	57	57	1,458	Z	
3.41	1.82	0.13	3,370.66	(SE)	
93.0	14.11	1.11	19,189	ESTIMATE	2
7	7	7	1,458	Z	
20.20	1.92	0.32	376.17	(SE)	
57.1	4.29	0.60	670	ESTIMATE	1
PERCENT SUCCESSFUL HUNTERS	AVERAGE SEASONAL HARVEST	AVERAGE DAILY KILL	TOTAL HARVEST	STATISTIC	DISTRICT

TABLE 11. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF WOOD DUCK HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON. WOOD DUCKS

148	148	148	1,476	z	
4.12	0.29	0.03	1,261.71	(SE)	STATEWIDE
48.0	2.28	0.21	8,716	ESTIMATE	
4	4	4	1,458	Z	
28.87	2.36	0.26	240.53	(SE)	
50.0	3.50	0.28	313	ESTIMATE	6
14	14	14	1,458	Z	
12.53	0.70	0.05	316.73	(SE)	
71.4	2.21	0.24	894	ESTIMATE	5
1	1	1	1,458	Z	
1	1	1	0.00	(SE)	
0.0	0.00	0.00	0	ESTIMATE	4
53	53	53	1,458	Z	
6.92	0.55	0.04	754.38	(SE)	
47.2	2.42	0.23	2,993	ESTIMATE	3
57	57	57	1,458	Z	
6.56	0.44	0.03	638.99	(SE)	
40.4	1.90	0.15	2,457	ESTIMATE	2
7	7	7	1,458	Z	
18.44	1.46	0.22	349.23	(SE)	
71.4	4.71	0.66	737	ESTIMATE	1
PERCENT SUCCESSFUL HUNTERS	AVERAGE SEASONAL HARVEST	AVERAGE DAILY KILL	TOTAL HARVEST	STATISTIC	DISTRICT

TABLE 12. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF OTHER DUCK HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON.

OTHER DUCKS

STATEWIDE	O.	O)	ω 4	2 1	DISTRICT
ESTIMATE (SE)	N ESTIMATE (SE) N	(SE) N ESTIMATE (SE)	(SE) N ESTIMATE (SE) N ESTIMATE	ESTIMATE (SE) N ESTIMATE	STATISTIC
38,902 5,178.84 1,476	1,458 3,060 2,225.19 1,458	22.34 1,458 2,167 1,227.30	3,157.35 1,458 13,291 2,999.35 1,458 22	559 293.55 1,458 15,927	TOTAL HARVEST
0.10 0.10 148	14 2.74 0.84 4	0.75 0.18	0.15 57 0.93 0.15 53 1.00	0.50 0.22 7 0.96	AVERAGE DAILY KILL
10.75 1.29 148	14 34.25 20.89	- 1 6.93 3.59	1.91 57 9.89 2.09 53 1.00	3.57 1.41 7 12.19	AVERAGE SEASONAL HARVEST
3.7 3.69 148	14 50.0 28.87 4	- 1 50.0 13.87	5.45 57 77.4 5.80 53 100.0	57.1 20.20 7 79.0	PERCENT SUCCESSFUL HUNTERS

1,476	1,476	29	1,476	29	29	29	1,476	z	
0.36	117.69	1.31	1,535.01	4.79	0.86	0.74	763.27	(SE)	STATEWIDE
2.0	640	11.00	7,039	93.1	3.62	0.33	2,846	ESTIMATE	
26	26		1,467			1	1,467	z	
0.00	0.00		0.00	1	1		0.00	(SE)	
0.0	0	ı	0	ı	ı	1	0	ESTIMATE	6
26	26	1	1,467	ı	1	1	1,467	Z	
0.00	0.00	1	0.00	1	ı		0.00	(SE)	
0.0	0	ı	0	ı	ı	1	0	ESTIMATE	5
26	26	ı	1,467	1	1	1	1,467	Z	
0.00	0.00	1	0.00	1			0.00	(SE)	
0.0	0	1	0	1	1		0	ESTIMATE	4
26	26	~	1,467	&	~	8	1,467	z	
9.23	62.64	2.01	596.04	12.5	2.33	0.28	470.65	(SE)	
30.8	178	7.88	1,399	87.5	4.13	0.52	799	ESTIMATE	3
26	26	16	1,467	16	16	16	1,467	z	
9.73	88.35	1.50	1,350.02	0.00	0.94	0.06	554.49	(SE)	
61.5	356	14.13	5,018	100.0	3.69	0.26	1,621	ESTIMATE	2
26	26	2	1,467	2	2	2	1,467	z	
5.3	31.39	0.00	31.39	50.0	0.50	0.50	22.20	(SE)	
7.7	45	1.00	44	50.0	0.50	0.50	22	ESTIMATE	1
PERCENT HUNTERS TOTAL PER HUNTERS DISTRICT	TOTAL HUNTERS	AVERAGE SEASONAL DAYS HUNTING	TOTAL MANDAYS	PERCENT SUCCESSFUL HUNTERS	AVERAGE SEASONAL HARVEST	AVERAGE DAILY KILL	TOTAL HARVEST	STATISTIC	DISTRICT

TABLE 13. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF GOOSE HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON.

1,476	1,476	1	1,475	2	2	1	1,476	z	
0.07	31.20	0	264.97	50.00	0.50	0.00	22.07	(SE)	STATEWIDE
0.1	44	12.00	265	50.0	0.50	0	22	ESTIMATE	
	1		1,469				1,469	Z	
	0.00	ı	0.00	1	1	1	0.00	(SE)	
0.0	0		0		1	1	0	ESTIMATE	6
	1	1	1,469	1	1	ı	1,469	z	
	0.00	1	0.00		1	1	0.00	(SE)	
0.0	0	ı	0	1	1	1	0	ESTIMATE	5
	1	1	1,469	1	_	1	1,469	Z	
	22.17	ı	266.05	1	1	1	0.00	(SE)	
100.0	23	12.00	266	0.0	0.00	0.00	0	ESTIMATE	4
	1	1	1,469		1		1,469	Z	
	0.00	1	0.00				0.00	(SE)	
0.0	0	1	0		1		0	ESTIMATE	3
	1	1	1,469		1		1,469	Z	
	0.00	1	0.00				0.00	(SE)	
0.0	0	1	0				0	ESTIMATE	2
	1	1	1,469		1	1	1,469	Z	
	0.00	1	0.00		1		0.00	(SE)	
0.0	0	ı	0	1	1	ı	0	ESTIMATE	1
PERCENT HUNTERS PER DISTRICT	PERCENT HUNTERS TOTAL HUNTERS DISTRICT	AVERAGE SEASONAL DAYS HUNTING	TOTAL MANDAYS	PERCENT SUCCESSFUL HUNTERS	AVERAGE SEASONAL HARVEST	AVERAGE DAILY KILL	TOTAL HARVEST	STATISTIC	DISTRICT

TABLE 14. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF RED FOX HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON.

1,476	1,476	1	1,476	1	1	1	1,476	z	
0.07	22.07	0	264.79	0	0	0.00	0.00	(SE)	STATEWIDE
0.1	22	12.00	265	0.0	0.00	0.00	0	ESTIMATE	
1	1		1,470	1	1	ı	1,470	Z	
ı	0.00	ı	0.00	1	1		0.00	(SE)	
0.0	0	1	0	1			0	ESTIMATE	6
1	1		1,470	1			1,470	z	
	0.00	1	0.00	1			0.00	(SE)	
0.0	0	1	0	1			0	ESTIMATE	5
1	1	_	1,470	1	1	1	1,470	Z	
1	22.16	1	265.87	1			0.00	(SE)	
100.0	23	12.00	266	0.0	0.00	0.00	0	ESTIMATE	4
1	1	1	1,470	1			1,470	z	
1	0.00		0.00	1			0.00	(SE)	
0.0	0	1	0	1			0	ESTIMATE	ω
1	1	1	1,470	1			1,470	Z	
1	0.00	1	0.00	1			0.00	(SE)	
0.0	0	1	0	1			0	ESTIMATE	2
1	1	1	1,470	1			1,470	Z	
ı	0.00	1	0.00	1			0.00	(SE)	
0.0	0		0	1			0	ESTIMATE	1
PERCENT HUNTERS TOTAL PER HUNTERS DISTRICT	TOTAL HUNTERS	AVERAGE SEASONAL DAYS HUNTING	TOTAL	PERCENT SUCCESSFUL HUNTERS	AVERAGE SEASONAL HARVEST	AVERAGE DAILY KILL	TOTAL HARVEST	STATISTIC	DISTRICT

TABLE 15. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF GRAY FOX HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON.

1,476	1,476	12	1,474	14	14	12	1,476	Z	
0.25	82.20	4.91	1,600.47	9.71	0.18	0.04	120.35	(SE)	
0.9	309	13.17	3,492	85.7	1.14	0.09	442	ESTIMATE	STATEWIDE
12	12		1,467				1,468	z	
0.00	0.00		0.00	1	1	ı	0.00	(SE)	
0.0	0	1	0	1	1	ı	0	ESTIMATE	6
12	12	~	1,467	9	9	~	1,468	z	
13.1	66.38	7.18	1,519.34	11.11	0.24	0.05	112.79	(SE)	
75.0	200	15.00	2,664	88.9	1.33	0.09	355	ESTIMATE	5
12	12	2	1,467	2	2	2	1,468	Z	
11.24	31.37	4.00	517.66	50.00	0.50	0.02	22.19	(SE)	
16.7	45	16.00	710	50.0	0.50	0.03	22	ESTIMATE	4
12	12	1	1,467	1	1	1	1,468	Z	
8.33	22.19		111.01	1	ı		22.19	(SE)	
8.3	23	5.00	1111	100.0	1.00	0.20	22	ESTIMATE	3
12	12		1,467	1	1		1,468	z	
0.00	0.00		0.00	1			0.00	(SE)	
0.0	0		0	1			0	ESTIMATE	2
12	12		1,467	1			1,468	Z	
0.00	0.00	1	0.00	ı	ı	ı	0.00	(SE)	
0.0	0	1	0	ı	1	1	0	ESTIMATE	1
PERCENT HUNTERS TOTAL PER HUNTERS DISTRICT	TOTAL HUNTERS	AVERAGE SEASONAL DAYS HUNTING	TOTAL MANDAYS	PERCENT SUCCESSFUL HUNTERS	AVERAGE SEASONAL HARVEST	AVERAGE DAILY KILL	TOTAL HARVEST	STATISTIC	DISTRICT

TABLE 16. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF BOBCAT HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON.

STATEWIDE ESTIMATE 0 DISTRICT TOTAL STATISTIC HARVEST **ESTIMATE ESTIMATE** ESTIMATE **ESTIMATE ESTIMATE ESTIMATE** 110.93 114.90 1,468 1,468 1,468 70.14 1,468 82.97 1,468 111 817 377 133 89 AVERAGE DAILY KILL 0.14 0.07 0.00 0.50AVERAGE SEASONAL HARVEST 0.88 1.33 2.50 2.50 PERCENT SUCCESSFUL HUNTERS 24.50 TOTAL 1,361.80 1,228.34 539.79 222.47 157.25 1,464 2,469 1,464 22.25 1,464 1,464 1,464 690 22 223 AVERAGE SEASONAL DAYS HUNTING TOTAL HUNTERS PERCENT HUNTERS PER DISTRICT 15.8

TABLE 17. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF COYOTE HUNTING DURING THE 2004-05 HUNTING SEASON.

1,282	1,282	217	1,243	256	256	217	1,282	Z	
1.12	254.04	0.51	3,180.80	3.13	0.06	<0.01	346.17	(SE)	
20.0	4,542	10.02	39,815	50.8	0.73	0.06	3,335	ESTIMATE	STATEWIDE
219	219	5	1,229	6	6	5	1,245	z	
1.11	44.66	3.20	518.92	21.08	0.40	0.03	65.79	(SE)	
2.7	110	10.80	999	66.7	1.17	0.09	128	ESTIMATE	6
219	219	142	1,229	155	155	142	1,245	z	
3.08	212.90	0.63	2,767.47	4.03	0.09	0.01	313.59	(SE)	
70.8	2,832	10.69	28,092	49.0	0.77	0.07	2,192	ESTIMATE	5
219	219	20	1,229	20	20	20	1,245	Z	
1.95	81.07	2.14	1,121.28	9.93	0.13	0.01	51.60	(SE)	
9.1	366	9.90	3,664	25.0	0.30	0.03	110	ESTIMATE	4
219	219	14	1,229	14	14	14	1,245	z	
1.66	68.00	1.15	503.71	13.7	0.17	0.02	54.71	(SE)	
6.4	256	6.00	1,555	42.9	0.50	0.08	128	ESTIMATE	3
219	219	15	1,229	16	16	15	1,245	Z	
1.76	72.63	2.19	1,081.63	12.91	0.18	0.01	68.18	(SE)	
7.3	293	12.73	3,535	50.0	0.63	0.04	183	ESTIMATE	2
219	219	7	1,229	8	8	7	1,245	z	
1.27	51.53	1.07	257.31	16.37	0.19	0.05	36.49	(SE)	
3.65	147	4.57	592	25.0	0.50	0.09	73	ESTIMATE	1
PERCENT HUNTERS PER DISTRICT	PERCENT HUNTERS TOTAL PER HUNTERS DISTRICT	AVERAGE SEASONAL DAYS HUNTING	TOTAL MANDAYS	PERCENT SUCCESSFUL HUNTERS	AVERAGE SEASONAL HARVEST	AVERAGE DAILY KILL	TOTAL HARVEST	STATISTIC	DISTRICT

TABLE 18. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF ARCHERY DEER HUNTING IN MISSSISSIPPI DURING THE 2004-05 HUNTING SEASON.

TABLE 19. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF ARCHERY BUCK AND DOE HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON.

BUCKS

DOES

		STATEWIDE			6			Ο ι			4			ω			2			-	DISTRICT
Z	(SE)	ESTIMATE	Z	(SE)	ESTIMATE	z	(SE)	ESTIMATE	z	(SE)	ESTIMATE	Z	(SE)	ESTIMATE	Z	(SE)	ESTIMATE	Z	(SE)	ESTIMATE	DISTRICT STATISTIC
1,282	124.94	763	1,245	18.27	18	1,245	99.32	438	1,245	40.84	55	1,245	25.82	37	1,245	31.62	55	1,245	25.82	37	TOTAL HARVEST
217	< 0.01	0.02	5	0.02	0.02	142	< 0.01	0.01	20	0.01	0.02	14	0.02	0.02	15	0.01	0.02	7	0.04	0.06	AVERAGE DAILY KILL
256	0.03	0.17	6	0.17	0.17	155	0.03	0.16	20	0.11	0.15	14	0.10	0.14	16	0.10	0.19	~	0.16	0.25	AVERAGE SEASONAL HARVEST
256	2.25	15.2	6	16.67	16.7	155	2.76	13.6	20	0.07	10.0	14	9.71	14.3	16	10.08	18.8	&	16.37	25.0	PERCENT SUCCESSFUL HUNTERS
1,282	308.73	2,572	1,245	57.71	110	1,245	282.30	1,754	1,245	31.62	55	1,245	48.28	91	1,245	54.71	128	1,245	25.82	37	TOTAL HAR VEST
217	0.01	0.05	5	0.03	0.07	142	0.01	0.06	20	0.01	0.02	14	0.02	0.06	15	0.01	0.03	7	0.03	0.03	AVERAGE DAILY KILL
256	0.06	0.57	6	0.37	1.00	155	0.09	0.62	20	0.08	0.15	14	0.17	0.36	16	0.16	0.44	8	0.16	0.25	AVERAGE SEASONAL HARVEST
256	3.09	41.8	6	21.08	66.7	155	3.99	43.2	20	0.08	15.0	14	12.53	28.6	16	12.50	37.5	&	16.37	25.0	PERCENT SUCCESSFUL HUNTERS

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TABLE 20. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF PRIMATIVE WEAPON DEER HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON.

264 264 3,362 69.7 228.85 2.83 264 264 1183 3.8 57.56 1.18 264 264 264 269.35 1.18	6.91 0.37	2,507.72	2.83	0.01	0.01	312.24		
	6.91		000	0.04	0.01	313	(SE)	
		32,526	58.5	0.75	0.10	3,992	ESTIMATE	STATEWIDE
	9	1,225	10	10	9	1,245	z	
	1.35	405.85	16.33	0.27	0.03	57.71	(SE)	
	6.22	1,040	40.0	0.60	0.07	110	ESTIMATE	6
	170	1,225	184	184	170	1,245	Z	
	0.51	2,329.58	3.65	0.06	0.01	252.15	(SE)	
	7.54	23,802	57.6	0.73	0.09	2,466	ESTIMATE	5
	23	1,225	25	25	23	1,245	Z	
	0.95	711.33	10.13	0.14	0.02	81.41	(SE)	
	6.70	2,859	44.0	0.56	0.08	256	ESTIMATE	4
	18	1,225	20	20	18	1,245	z	
	0.87	496.59	11.41	0.18	0.04	85.41	(SE)	
	5.22	1,745	55.0	0.70	0.13	256	ESTIMATE	သ
	20	1,225	20	20	20	1,245	z	
	0.80	520.74	11.41	0.21	0.03	92.91	(SE)	
	5.25	1,950	55.0	0.70	0.13	256	ESTIMATE	2
	4	1,225	5	5	4	1,245	z	
	0.48	142.45	24.50	0.37	0.09	44.72	(SE)	
	3.75	279	60.0	0.80	0.13	73	ESTIMATE	1
PERCENT HUNTERS TOTAL PER HUNTERS DISTRICT	AVERAGE SEASONAL DAYS HUNTING	TOTAL	PERCENT SUCCESSFUL HUNTERS	AVERAGE SEASONAL HARVEST	AVERAGE DAILY KILL	TOTAL HARVEST	DISTRICT STATISTIC	DISTRICT

TABLE 21. EXPANDED STATEWIDE AND DISTRICT OF PRIMATIVE WEAPON BUCK AND DOE HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON.

BUCKS

DOES

301	301	256	1,282	301	301	256	1,282	z	
	0.04	0.01	225.85	20.54	0.03	<0.01	175.90	(SE)	STATEWIDE
	0.46	0.06	2,466	25.6	0.29	0.04	1,526	ESTIMATE	
	10	9	1,245	10	10	9	1,245	z	
13.33	0.13	0.02	25.82	16.33	0.16	0.02	36.49	(SE)	
	0.20	0.02	37	40.0	0.40	0.05	73	ESTIMATE	6
	184	170	1,245	184	184	170	1,245	Z	
	0.04	0.01	180.43	3.20	0.04	0.01	143.70	(SE)	
	0.45	0.06	1,516	25.0	0.28	0.04	950	ESTIMATE	51
	25	23	1,245	25	25	23	1,245	z	
	0.12	0.02	63.10	7.48	0.08	0.01	36.49	(SE)	
36.0	0.40	0.06	183	16.0	0.16	0.02	73	ESTIMATE	4
	20	18	1,245	20	20	18	1,245	z	
10.51	0.17	0.04	68.26	9.93	0.13	0.02	51.60	(SE)	
	0.40	0.08	146	25.0	0.30	0.05	110	ESTIMATE	ω
	20	20	1,245	20	20	20	1,245	Z	
10.94	0.13	0.02	57.64	9.93	0.13	0.02	51.60	(SE)	
	0.40	0.08	146	25.0	0.30	0.06	110	ESTIMATE	2
	5	4	1,245	5	5	4	1,245	Z	
	0.40	< 0.01	36.54	24.50	0.25	0.09	25.82	(SE)	
20.0	0.40	0.00	37	40.0	0.40	0.13	37	ESTIMATE	1
PERCENT SUCCESSFUL HUNTERS	AVERAGE SEASONAL HARVEST	AVERAGE DAILY KILL	TOTAL HARVEST	PERCENT SUCCESSFUL HUNTERS	AVERAGE SEASONAL HARVEST	AVERAGE DAILY KILL	TOTAL HARVEST	DISTRICT STATISTIC	DISTRICT

TABLE 22. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF REGULAR GUN DEER HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON.

STATEWIDE			6			5			4			ω			2			1	DISTRICT
(SE)	RSTIMATE	(SE)	ESTIMATE	Z	(SE)	ESTIMATE	STATISTIC												
754.47 1,282	1,165	157.47	664	1,165	656.05	10,718	1,165	348.96	2,187	1,165	245.83	1,425	1,165	280.25	1,777	1,165	176.53	761	TOTAL
<0.01 769	0 09	0.01	0.07	412	< 0.01	0.08	85	0.01	0.10	76	0.01	0.10	74	0.02	0.13	43	0.03	0.13	AVERAGE DAILY KILL
0.04 913	1 20	0.15	0.85	456	0.06	1.20	93	0.15	1.20	82	0.12	0.89	79	0.13	1.15	46	0.16	0.85	AVERAGE SEASONAL HARVEST
1.58 913	64.5	7.92	57.5	456	2.23	65.4	93	5.15	58.1	82	5.54	53.7	79	5.46	63.3	46	7.45	50.0	PERCENT SUCCESSFUL HUNTERS
6,392 1,138	1,095	1,704.17	8,599	1,095	6,429.02	125,788	1,095	2,615.20	18,694	1,095	1,868.10	13,563	1,095	1,885.52	13,397	1,095	1,123.85	5,587	TOTAL
0.33 769	12 08	1.30	11.50	412	0.49	14.70	85	0.99	10.59	76	0.71	8.59	74	0.74	8.72	43	0.85	6.26	AVERAGE SEASONAL DAYS HUNTING
3 287.71 9 1,282	796	121.39	781	796	325.36	8,903	796	180.68	1,816	796	170.52	1,601	796	167.61	1,543	796	129.83	899	TOTAL HUNTERS
1.27 1,282	796	0.78																	PERCENT HUNTERS PER DISTRICT

TABLE 23. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF REGULAR GUN BUCK AND DOE HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON.

BUCKS

DOES

STATEWIDE	6		ω 4	2 1	DISTRICT
ESTIMATE (SE)	N ESTIMATE (SE)	(SE) N ESTIMATE	(SE) N ESTIMATE (SE) N ESTIMATE	ESTIMATE (SE) N ESTIMATE	STATISTIC
10,609 481.18 1,282	1,165 488 124.24 1,165	186.25 1,165 5,935	171.13 1,165 742 152.24 1,165 957	449 111.42 1,165 996	TOTAL
0.05 <0.01 769	412 0.05 0.01 36	0.01 0.04 0.04	0.01 74 0.05 0.01 76	0.07 0.02 43 0.08	AVERAGE DAILY KILL
0.66 0.03 913	456 0.63 0.13 40	0.09 93 0.67	0.09 79 0.46 0.08 82 0.53	0.50 0.10 46 0.65	AVERAGE SEASONAL HARVEST
0.48 0.02 913	456 45.0 7.97 40	5.02 93 48.5 2.34	5.66 79 35.4 5.31 82 36.6	39.1 7.28 46 49.4	PERCENT SUCCESSFUL HUNTERS
8,782 462.77 1,282	1,165 176 64.57 1,165	206.32 1,165 4,783	161.80 1,165 683 161.00 1,165	312 91.15 1,165 781	TOTAL HARVEST
0.04 <0.01 769	412 0.02 0.01 36	0.01 85 0.03	0.01 74 0.05 0.01 76	0.05 0.02 43 0.05	AVERAGE DAILY KILL
0.54 0.03 913	456 0.23 0.08 40	0.09 93 0.54	0.09 79 0.43 0.09 82 0.68	0.35 0.09 46 0.51	AVERAGE SEASONAL HARVEST
0.38 0.02 913	456 20.0 6.41 40	5.20 93 38.4 2.28	5.37 79 28.1 4.99 82 46.2	28.3 6.71 46 34.2	PERCENT SUCCESSFUL HUNTERS

TABLE 24. EXPANDED STATEWIDE AD DISTRICT SUMMARIES OF SPRING TURKEY HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON.

1,282	1,282	208	1,265	225	225	208	1,282	Z	
1.06	241.73	0.34	1,911.39	3.28	0.06	0.01	277.19	(SE)	
17.6	3,992	6.02	22,510	40.4	0.62	0.09	2,466	ESTIMATE	STATEWIDE
206	206	10	1,258	10	10	10	1,263	z	
1.50	56.74	1.39	464.69	15.28	0.46	0.06	93.50	(SE)	
4.9	181	7.00	1,266	30.0	0.90	0.13	162	ESTIMATE	6
206	206	112	1,258	115	115	112	1,263	z	
3.47	184.19	0.54	1,661.35	4.55	0.08	0.01	197.62	(SE)	
55.8	2,071	6.85	13,867	38.3	0.59	0.08	1,225	ESTIMATE	5
206	206	30	1,258	30	30	30	1,263	z	
2.40	97.49	0.62	630.54	9.10	0.17	0.03	109.16	(SE)	
14.0	541	5.50	2,983	40.0	0.63	0.12	342	ESTIMATE	4
200	206	12	1,258	12	12	12	1,263	Z	
1.64	62.11	0.95	355.54	11.24	0.11	0.03	25.46	(SE)	
5.8	217	4.75	1,031	16.7	0.17	0.04	36	ESTIMATE	သ
200	206	26	1,258	28	28	26	1,263	z	
2.39	94.26	0.50	430.83	9.40	0.15	0.04	89.75	(SE)	
13.	505	4.00	1,880	39.3	0.54	0.13	270	ESTIMATE	2
20	206	11	1,258	111	11	11	1,263	z	
1.57	59.49	1.25	398.82	15.75	0.30	0.03	74.14	(SE)	
5 1.2	199	5.36	1,067	54.6	0.82	0.15	162	ESTIMATE	1
PERCENT HUNTERS PER DISTRICT	TOTAL	AVERAGE SEASONAL DAYS HUNTING	TOTAL MANDAYS	PERCENT SUCCESSFUL HUNTERS	AVERAGE SEASONAL HARVEST	AVERAGE DAILY KILL	TOTAL HARVEST	STATISTIC	DISTRICT

TABLE 25. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF FALL TURKEY HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON.

STATEWIDE	· ·	v	ω	DISTRICT (A)
ESTIMATE (SE) N	(SE)	(SE) N	ESTIMATE	STATISTIC
106 56.05 1,282	39.72 1,280	0.00 1,280	0	TOTAL HARVEST
0.06 0.04 12	0.02	0.00	0.00	AVERAGE DAILY KILL
0.46 0.22 13	0.26	0 38 1 -	0.00	AVERAGE SEASONAL HARVEST
30.8 13.32	16.37	- 1 25 0	0.0	PECENT SUCCESSFUL HUNTERS
1,207 466.02 1,281	442.97 1,279	71.13 1,279 889	71	TOTAL
5.67 1.52 44	2.51	714	4.00	AVERAGE SEASONAL DAYS HUNTING
231 63.67 1,282	50.12	17.77 11	18	PERCENT HUNTERS TOTAL HUNTERS DISTRICT
231 1.0 63.67 .28 1,282 1,282	14.1	9.09 11 72.7	9.1	PERCENT HUNTERS PER DISTRICT

(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 '04 AND SPRING '05) HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON

	214	1,264	232	232	214	1,282	Z	
0.35	0.	2,000.56	3.24	0.06	0.01	282.08	(SE)	
7	6.17	23,752	41.0	0.63	0.09	2,573	ESTIMATE	TURKEY
			1,020	1,020	854	1,282	z	
			1.56	0.03	< 0.01	641.79	(SE)	
			45.3	0.76	0.04	13,820	ESTIMATE	DOE
			1,020	1,020	854	1,282	z	
			1.57	0.03	< 0.01	545.51	(SE)	
			48.1	0.71	0.04	12,898	ESTIMATE	BUCK
	854	1,116	1,020	1,020	854	1,282	Z	
	0.47	9,245.67	1.47	0.05	< 0.01	961	(SE)	
	15.23	265,102	67.2	1.48	0.08	26,718	ESTIMATE	DEER
	HUNTING	MANDAYS	HUNTERS	HARVEST	KILL	HARVEST	STATISTIC	SPECIES
PERCENT OF TOTAL	AVERAGE SEASONAL		PERCENT	AVERAGE	AVERAGE			

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

STATEWIDE ESTIMATE DISTRICT TOTAL STATISTIC HARVEST **ESTIMATE ESTIMATE ESTIMATE ESTIMATE ESTIMATE** (SE) (SE) (SE) 633.49 829.42 378.35 1,463 1,558 96.93 1,463 1,463 22.26 1,463 1,463 200 AVERAGE DAILY KILL 0.04 0.14 0.07 0.03AVERAGE SEASONAL HARVEST 0.40 4.33 0.25 0.37 4 1.97 PERCENT SUCCESSFUL HUNTERS 25.00 18.30 MANDAYS 2,251.77 2,474.46 TOTAL 482.98 542.10 1,453 124.73 7,307 1,453 1,453 1,453 1,453 583 202 874 605 AVERAGE SEASONAL DAYS HUNTING 0.95TOTAL HUNTERS HUNTERS PER DISTRICT **PERCENT** 3.80

TABLE 27. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF HOG HUNTING IN MISSISSIPPI DURING THE 2004-05 HUNTING SEASON

Table 28. Percent of respondents by their age category (Q2)

Age Category	Frequency	Percent
18-20	12	0.9
21-25	52	3.7
26-30	68	4.9
31-35	120	8.6
36-40	163	11.6
41-45	191	13.6
46-50	218	15.6
51-55	190	13.6
56-60	177	12.6
61-65	99	7.1
66-70	61	4.4
>71	49	3.5
TOTAL	1,400	100.0

 $\begin{array}{l} n \; missing = 0 \\ Mean \; age \; of \; hunter = 47.7 \end{array}$

Table 29. Percent of respondents by their gender category (Q3)

Gender Category	Frequency	Percent
MALE	1,351	97.0
FEMALE	41	3.0
TOTAL	1,392	100.0

Table 30. Percent of respondents by their approximate annual household income category before taxes (Q4)

Income Category	Frequency	Percent
Under 10,000	23	1.8
10,000-19,000	43	3.3
20,000-29,000	49	3.8
30,000-39,000	98	7.6
40,000-49,000	120	9.3
50,000-59,000	126	9.8
60,000-69,000	114	8.9
70,000-79,000	116	9.0
80,000-89,000	77	6.0
90,000-99,000	80	6.2
100,000 and above	442	34.3
TOTAL	1,288	100.0

n missing = 112

Table 31. Percent of respondents by their highest completed level of education (Q5)

Education Category	Frequency	Percent
Elementary	20	1.5
High School	480	34.8
College	677	49.1
Graduate School	201	14.6
TOTAL	1,378	100.0

Table 32. Percent of respondents by their Spanish/Hispanic origin (Q6)

Response	Frequency	Percent	
No, not Spanish/Hispanic	1,214	98.9	
Yes, Mexican, American, Chicano	1	0.1	
Yes, other Spanish/Hispanic group	13	1.0	
TOTAL	1,228	100.0	

 $n\ missing = 172$

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

Response	Frequency	Percent
PUERTO RICAN	2	16.8
HONDURAS	1	8.3
SPANISH FRENCH INDIAN	2	16.7
WHITE/ NATIVE AMERICAN	1	8.3
SPAIN	2	16.7
NATIVE AMERICAN	1	8.3
ITALIAN	1	8.3
PORTUGUESE	1	8.3
ASIAN	1	8.3
TOTAL	12	100.0

Table 33. Percent of respondents by their race (Q7)

Race Category	Frequency	Percent
WHITE OR ANGLO	1,350	97.6
BLACK OR AFRICAN AMERICAN	23	1.7
NATIVE AMERICAN OR ALASKAN NATIVE	3	0.2
ASIAN OR PACIFIC ISLANDER	2	0.1
OTHER	5	0.4
TOTAL	1,383	100.0

n missing = 17

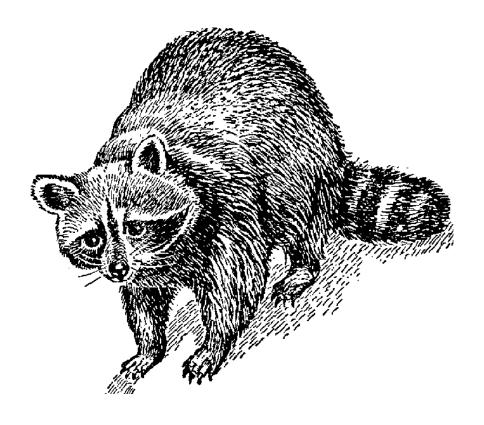
33a. If other race [See Table 33], respondents' specification of their race

Response	Frequency	Percent
BLACK/ NATIVE AMERICAN	1	20.0
1/4 CHEROKEE INDIAN 3/4 WHITE	1	20.0
1/2 HISPANIC 1/2 ANGLO	3	60.0
TOTAL	5	100.0

Appendix A

Questionnaire: 2005 Survey of Mississippi Non-resident Hunters

2005 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

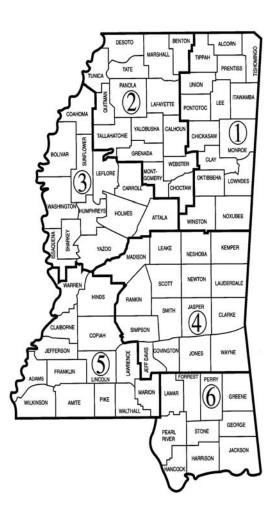
1.	Please fill in the blocks below for each game, furbearer, or predatory spe	cies you hunted during	the 2004-2005
hunt	ing	season (even if you	were unsuccessful).
If yo	ou hunted more than one species on a particular day, count a day for each	species you hunted.	Report only game,
furb	earer, or predatory species taken by you in Mississippi.		

	Total harvested	Days hunted	District
Species Sought	in Mississippi in	species in	Hunted
	2004-05 season	Mississippi in	Most
		2004-05 season	
Dove			
Quail			
Woodcock			
Rabbit			
Squirrel			
Raccoon			

	Bucks	Does	
Deer (Archery)			
Deer (Primitive Weapon)			
Deer (Gun)			
Turkey (Fall 2004)			
Turkey (Spring 2005)			

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

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



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?					
			YE	ARS		
3.	Are you?					
	1 2	MALE FEMALE				
4.	What is your approximate annual household income before taxes?					
	1 2 3 4 5 6	Under \$10,000 \$10,000 - \$19,999 \$20,000 - \$29,999 \$30,000 - \$39,999 \$40,000 - \$49,999 \$50,000 - \$59,999	7 8 9 10 11	\$60,000 - \$69,570,000 - \$79,580,000 - \$89,590,000 - \$99,5100,000 and A	999 999 999	
5.	What is your highest co	mpleted level of education		Please circle only	one number) 17 18 19 20 21 22+	
	elementary			college	graduate school	
6.	Are you of Spanish/His	spanic origin?				
	1 2 3	NO, NOT SPANISH/HISPANIC YES, MEXICAN, MEXICAN AMERICAN, CHICANO YES, OTHER SPANISH/HISPANIC GROUP (<i>Please specify:</i>)				
7.	What is your race?					
	1 2 3 4	WHITE OR ANGLO BLACK OR AFRICAN NATIVE AMERICAN ASIAN OR PACIFIC IS	OR	ALASKAN NA	TIVE	

5 OTHER (Please specify:_____)

8. Was this survey completed by the per	rson to whom it was addressed?
--	--------------------------------

1 YES

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 5/05

Appendix B

Survey correspondence with hunters for the 2005 Survey of Mississippi Non-resident Hunters

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

July 25, 2005

John Doe 123 Buck Drive Fawn, MS 30759

Dear John:

In conjunction with the Mississippi Department of Wildlife, Fisheries and Parks (MDWFP) we are conducting the annual harvest survey of licensed hunters in Mississippi. We conduct this study each year to determine the demographic characteristics of hunters and the amount of game they harvested in Mississippi during the previous hunting season. The information you provide helps managers evaluate how wildlife populations and hunter harvest are affected by various management programs and regulations.

The enclosed survey is designed to tell us about your game harvest in the 2004-2005 Mississippi hunting season (September 1, 2004 – May 1, 2005). 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. If you bought a license but did not hunt last year, please write "DID NOT HUNT" on the front cover and send it back to us. That will prevent you from receiving follow-up letters from us, and help us to complete the study.

You are one of a small number of license holders 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 time 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.

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) 325-3994.

Thank you in advance for your cooperation. We hope that your 2005-06 hunting season is a safe and successful one.

Sincerely,

Dr. Kevin M. Hunt

Assistant Professor & Director

Human Dimensions & Conservation Law Enforcement Laboratory

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

Johnny M. Hunter 1234 Duck Drive Starkville, MS 39759

Dear Johnny:

About three weeks ago, we sent you a survey of Mississippi 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. You and the others who have yet responded may represent a completely different portion of the hunting public than those who have sent in their questionnaires and have different hunting patterns and harvest rates. We ask for your help in making sure our results are representative of all hunters in Mississippi.

In case you misplaced your survey, we've enclosed another. The survey is designed to tell us about your general hunting activity and game harvest during the 2003-2004 hunting season. Results help MDWFP wildlife biologists better understand how harvest regulations affect wildlife populations so they can make improvements that benefit both hunters and wildlife. 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. If you did not hunt during the 2003-2004 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.

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 it is received. 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. Thank you in advance for your cooperation and good luck during the upcoming hunting season.

Sincerely,

Dr. Kevin M. Hunt

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Assistant Professor & Director

Human Dimensions & Conservation Law Enforcement Laboratory

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

November 7, 2005

Johnny M. Hunter 1234 Duck Drive Starkville, MS 39759

Dear Johnny:

About a month ago, I sent you a survey of Mississippi hunters. As of today, I have not yet received your completed questionnaire. With the tragic disasters of Hurricane Katrina & Rita, I know there are other issues far more significant that you may be facing at this time. For that reason, I am empathetic to your situation and hope that you will respond only if you can. Please forgive me if this survey mailing has offended you, but the business of the State and University must go on despite the obstacles we all must face.

In case you misplaced your survey, I've enclosed another. The survey is designed to tell us about your general hunting activity and game harvest during the 2004-2005 hunting season. Although the survey is completely voluntary, I hope that you will take the 5-10 minutes necessary to provide your input and be a part of the wildlife management process. If you did not hunt during the 2004-2005 hunting season please write **DID NOT HUNT** on the front of the questionnaire and mail it back to me so I can take your name off the mailing list.

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. Thank you in advance for your cooperation during this difficult time.

Sincerely,

Dr. Kevin M. Hunt

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Assistant Professor & Director

Human Dimensions & Conservation Law Enforcement Laboratory