

*Non-Resident Hunter Effort & Game Harvest Estimates
for the 2010-2011 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, Clifford P. Hutt, and Charles J. Woodard
Human Dimensions & Conservation Law Enforcement Laboratory
Forest & Wildlife Research Center
Mississippi State University
Mississippi State, MS 39762-9690**

February 2012

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Suggested Citation:

Hunt, K. M., C. P. Hutt, and C. J. Woodard. 2012. Non-Resident Hunter Effort & Game Harvest Estimates for the 2010-11 Mississippi Hunting Season. Human Dimensions & Conservation Law Enforcement Laboratory Technical Document #HDCLEL-152. Forest & Wildlife Research Center, Mississippi State, MS. 44pp.

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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 2010-11 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 140, 141, 133, 134, and 144) purchased during the 2010-2011 license year. A random sample of 2,000 license holders was selected to participate in this study from the 36,245 non-resident licenses processed from July 1, 2009 – June 30, 2010.

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 2,000 questionnaires were mailed to nonresident hunters. There were a total of 879 useable questionnaires returned by hunters. Useable questionnaires included those who indicated they hunted at least one species one or more days during the 2010-11 season (n=819), and those who indicated they “DID NOT HUNT” on their returned survey (n=60). 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 one individuals indicated their refusal to participate and two individuals were reported as being deceased. When non-deliverables (n=124) were excluded from consideration, an effective response rate of 46.9 % was obtained.

Statewide expansions were calculated based on the 35,938 non-resident hunting licenses sold and accounted for by June 30, 2010. There were 35,938 individuals licensed to hunt small game and 25,236 of these license holders also were eligible to pursue big game (deer and turkey) in Mississippi during the 2010-2011 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 28-32 summarize non-resident demographic characteristics.

ACKNOWLEDGMENTS

This compilation would not have been possible without the efforts and cooperation of many people. Many present and former MDWFP personnel from all divisions provided direct or indirect assistance. MDWFP personnel deserving special recognition are: Ben Sessums and the print shop crew for producing survey instruments, Curtis Thornhill and his staff for providing license information, and Randy Spencer & Dave Godwin for serving as liaisons between MDWFP and Mississippi State University.

Thanks also go to Charlie Shearer, Clark Shearer, and Candyce Johnson of the Human Dimensions & Conservation Law Enforcement Laboratory in the Forest & Wildlife Research Center at Mississippi State University for data processing and construction of data tables.

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TABLE 1. EXPANDED STATEWIDE COVERAGE OF THE 2010-11 MISSISSIPPI NONRESIDENT MAIL SURVEY OF GAME HARVEST BASED ON 35,938 SMALL GAME LICENSE HOLDERS AND 25,236 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	76,524	6.40	20.04	96.7	11,882	3.24	3,818	10.6
QUAIL	4,025	1.76	13.86	71.4	2,282	7.86	290	0.8
WOODCOCK	207	0.33	2.50	50.0	622	7.50	83	0.2
RABBIT	10,665	1.64	6.43	87.5	6,045	4.03	1,660	4.6
SQUIRREL	38,552	3.03	13.27	98.6	11,896	4.38	2,905	8.1
RACCOON	3,361	1.05	5.40	80.0	3,195	5.13	622	1.7
TOTAL DUCK	138,523	2.97	20.77	93.1	37,971	6.98	5,436	15.1
MALLARD	66,025	1.39	9.69	79.4				
WOOD DUCK	15,023	0.34	2.36	48.9				
OTHER DUCKS	57,476	1.25	8.72	77.1				
GEESE	4,399	0.65	3.04	87.0	4,440	4.65	954	2.7
RED FOX	0	0.00	0.00	0.0	415	10.00	41	0.1
GRAY FOX	166	0.13	1.00	75.0	665	5.33	166	0.5
BOBCAT	373	0.06	0.82	72.7	4,289	12.88	456	1.3
COYOTE	1,079	0.07	1.19	76.2	7,656	13.07	871	2.4
TOTAL DEER	34,614	0.09	1.75	74.8	311,693	16.64	19,802	78.5
BUCK	14,087	0.04	0.71	49.2				
DOE	20,527	0.05	1.04	56.7				
ARCHERY DEER	5,152	0.09	1.09	59.0	42,392	10.33	4,709	18.7
BUCK	1,529	0.03	0.32	23.9				
DOE	3,622	0.06	0.77	47.0				
PRIMITIVE DEER	6,198	0.08	0.85	61.0	51,931	8.46	7,325	29.0
BUCK	2,093	0.02	0.29	25.8				
DOE	4,105	0.06	0.56	44.5				
GUN DEER	23,264	0.08	1.37	72.8	289,510	17.00	17,025	67.5
BUCK	10,465	0.04	0.61	46.1				
DOE	12,799	0.04	0.75	49.4				
TOTAL TURKEY	2,697	0.08	0.71	46.8	24,333	7.09	3,783	15.0
SPRING 2011	2,576	0.08	0.73	47.7	17,237	7.27	3,542	14.0
FALL 2010	121	0.03	0.43	28.6	1,330	5.50	282	1.1
HOG	4,648	0.18	2.33	83.3	20,092	12.92	1,992	5.5

(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 2010-11 HUNTING SEASON.

SPECIES	TOTAL HARVEST	STANDARD ERROR		95% CONFIDENCE INTERVAL	
		SE	AS % OF TOTAL (A)	LOWER LIMIT	UPPER LIMIT
DOVE	76,524	12,821	16.8	50,882	102,166
QUAIL	4,025	2,016	50.1	0	8,058
WOODCOCK	207	207	100.0	0	622
RABBIT	10,665	2,494	23.4	5,678	15,653
SQUIRREL	38,552	5,758	14.9	27,036	50,069
RACCOON	3,361	1,917	57.0	0	7,195
TOTAL DUCKS	138,523	14,279	10.3	109,965	167,081
MALLARD	66,025	7,783	11.8	50,459	81,590
WOOD DUCK	15,023	2,288	15.2	10,446	19,599
OTHER DUCKS	57,476	6,485	11.3	44,506	70,446
GEESE	4,399	1,141	25.9	2,117	6,681
RED FOX	0	0	-	0	0
GRAY FOX	166	102	61.2	0	369
BOBCAT	373	137	36.7	99	648
COYOTE	1,079	279	25.9	521	1,637
TOTAL DEER	34,614	1,709	4.9	31,196	38,032
BUCK	14,087	846	6.0	12,396	15,778
DOE	20,527	1,238	6.0	18,050	23,004
ARCHERY DEER	5,152	795	15.4	3,561	6,743
BUCK	1,529	355	23.2	819	2,240
DOE	3,622	565	15.6	2,491	4,753
PRIMITIVE DEER	6,198	598	9.6	5,003	7,394
BUCK	2,093	306	14.6	1,481	2,705
DOE	4,105	462	11.2	3,182	5,029
GUN DEER	23,264	1,266	5.4	20,733	25,795
BUCK	10,465	705	6.7	9,055	11,874
DOE	12,799	900	7.0	11,000	14,598
TOTAL TURKEY	2,697	437	16.2	1,822	3,571
SPRING 2011	2,576	429	16.7	1,718	3,434
FALL 2010	121	90	74.5	0	301
HOG	4,648	1,071	23.0	2,505	6,790

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

TABLE 3. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF DOVE HUNTING IN MISSISSIPPI DURING THE 2010-11 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	4,800 1,620.55 861	7.67 1.03 10	11.50 1.49 10	100.0 0.0 10	628 208.21 859	1.50 0.17 10	417 131.30 87	11.5 3.43 87
2	ESTIMATE (SE) N	17,865 4,631.34 861	8.92 1.07 24	17.83 2.97 24	95.8 4.17 24	2,008 476.04 859	2.00 0.26 24	1,002 201.73 87	27.6 4.82 87
3	ESTIMATE (SE) N	29,301 10,135.32 861	8.73 1.16 23	28.08 8.14 25	100.0 0.0 25	3,305 1,014.86 859	3.43 0.80 23	1,044 205.77 87	28.7 4.88 87
4	ESTIMATE (SE) N	6,303 2,240.72 861	9.44 1.27 11	13.73 2.75 11	100.0 0.0 11	669 220.33 859	1.45 0.21 11	459 137.63 87	12.6 3.58 87
5	ESTIMATE (SE) N	5,426 2,005.71 861	3.94 1.10 12	10.83 2.64 12	91.7 8.33 12	1,381 535.65 859	2.75 0.75 12	501 143.66 87	13.8 3.72 87
6	ESTIMATE (SE) N	7,889 4,185.49 861	7.56 0.74 5	37.80 12.1260 5	100.0 0.0 5	1,046 562.05 859	5.00 1.67 5	209 93.12 87	5.7 2.51 87
STATEWIDE		76,524 12,821.04 866	6.40 1.17 88	20.04 2.73 92	96.7 1.86 92	11,882 2,415.46 862	3.24 0.57 88	3,818 376.52 866	10.6 1.05 866

TABLE 4. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF QUAIL HUNTING IN MISSISSIPPI DURING THE 2010-11 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	0.00	0.00	0.0	42	1.00	42	20.0
	(SE)	0.0	.	.	.	41.59	.	41.60	20.0
	N	864	1	1	1	864	1	5	5
2	ESTIMATE	208	5.00	5.00	100.0	42	1.00	42	20.0
	(SE)	207.97	.	.	.	41.59	0	41.60	20.0
	N	864	1	1	1	864	1	5	5
3	ESTIMATE	0	.	.	.	0	.	0	0.0
	(SE)	0.0	.	.	.	0.0	.	0.0	0.0
	N	864	.	.	.	864	.	5	5
4	ESTIMATE	499	6.00	12.00	41.59	100	2.00	42	20.0
	(SE)	499.14	.	.	41.60	0.0	.	41.60	20.0
	N	864	1	1	1	864	1	5	5
5	ESTIMATE	0	0.00	0.0	0.0	416	10.00	42	20.0
	(SE)	0.0	.	.	.	415.95	.	41.60	20.0
	N	864	1	1	1	864	1	5	5
6	ESTIMATE	832	20.00	20.00	100.0	100	1.00	42	20.0
	(SE)	831.90	.	.	.	0.0	.	41.60	20.0
	N	864	1	1	1	864	1	5	5
	ESTIMATE	4,025	1.76	13.86	71.4	2,282	7.86	291	0.2
	(SE)	2,016.37	0.92	4.94	18.44	1,527.63	4.69	109.41	0.0
STATEWIDE	N	866	7	7	7	866	7	866	866

TABLE 5. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF WOODCOCK HUNTING IN MISSISSIPPI DURING THE 2010-11 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
	(SE)	0.0	.	.	.	0.0	.	0.0	0.0
2	N	866	.	.	.	866	.	2	2
	ESTIMATE	0	.	.	.	0	.	0	0.0
(SE)	0.0	.	.	.	.	0.0	.	0.0	0.0
	N	866	.	.	.	866	.	2	2
3	ESTIMATE	0	.	.	.	0	.	0	0.0
	(SE)	0.0	.	.	.	0.0	.	0.0	0.0
N	866	.	.	.	.	866	.	2	2
	ESTIMATE	0	.	.	.	0	.	0	0.0
(SE)	0.0	.	.	.	.	0.0	.	0.0	0.0
	N	866	.	.	.	866	.	2	2
4	ESTIMATE	0	.	.	.	0	.	0	0.0
	(SE)	0.0	.	.	.	0.0	.	0.0	0.0
N	866	.	.	.	.	866	.	2	2
	ESTIMATE	208	.33	2.50	50.0	622.48	7.50	83	100.0
(SE)	207.49	.44	2.50	50.0	463.76	2.50	58.65	0.0	0.0
	N	866	2	2	2	866	2	2	2
6	ESTIMATE	0	.	.	.	0	.	0	0.0
	(SE)	0.0	.	.	.	0.0	.	0.0	0.0
N	866	.	.	.	.	866	.	2	2
	ESTIMATE	207.49	.33	2.50	50.0	622.48	7.50	83.00	.2
(SE)	207.49	.44	2.50	50.0	463.76	2.50	58.65	0.0	0.0
	N	866	2	2	2	866	2	866	875

TABLE 6. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF RABBIT HUNTING IN MISSISSIPPI DURING THE 2010-11 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)	956 591.40	1.05 0.83	5.75 2.43	100.0 0.00	917 615.13	5.50 2.84	166 82.95	10.3 4.92
	N	865	4	4	4	862	4	39	39
2	ESTIMATE (SE)	1,039 844.08	2.78 1.20	8.33 5.84	100.0 0.00	375 246.46	3.00 1.15	125 71.88	7.7 4.32
	N	865	3	3	3	862	3	39	39
3	ESTIMATE (SE)	789 576.90	3.80 0.24	9.50 2.50	100.0 0.00	209 150.24	2.50 .50	83 58.72	5.1 3.58
	N	865	2	2	2	862	2	39	39
4	ESTIMATE (SE)	956 600.10	1.08 0.76	7.67 2.33	100.0 0.00	500 358.45	6.00 1.00	125 71.88	7.7 4.32
	N	865	2	3	3	862	2	39	39
5	ESTIMATE (SE)	3,947 1,458.28	1.36 0.33	5.00 1.50	78.9 9.61	2,752 891.73	3.67 .85	789 179.20	48.7 8.11
	N	865	18	19	19	862	18	39	39
6	ESTIMATE (SE)	2,950 1,564.95	2.19 0.38	8.88 3.76	87.5 12.50	1,292 697.89	4.43 1.85	332 117.04	20.5 6.55
	N	865	7	8	8	862	7	39	39
STATEWIDE	ESTIMATE (SE)	10,665 2,493.70	1.64 0.27	6.43 1.14	87.50 5.30	6,045 1,357.27	4.03 0.63	1,660 256.48	4.6 0.71
	N	866	36	40	40	862	36	866	866

TABLE 7. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF SQUIRREL HUNTING IN MISSISSIPPI DURING THE 2010-11 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	707 378.40 864	0.85 0.50 3	4.25 0.95 4	100.0 0.00 4	669 587.91 860	5.33 4.33 3	166 83.05 68	5.9 2.88 68
2	ESTIMATE (SE) N	1,830 1,314.63 864	4.40 0.24 3	14.67 7.69 3	100.0 0.00 3	418 306.93 860	3.33 1.86 3	125 71.96 68	4.4 2.51 68
3	ESTIMATE (SE) N	582 321.77 864	2.33 0.30 4	3.50 0.96 4	100.0 0.00 4	1,754 673.66 860	1.50 .29 4	166 83.05 68	5.9 2.88 68
4	ESTIMATE (SE) N	2,454 1,355.64 864	3.11 1.38 5	11.8 4.29 5	100.0 0.00 5	794 406.64 860	3.80 1.07 5	208 92.79 68	7.4 3.19 68
5	ESTIMATE (SE) N	28,285 5,083.45 864	3.12 0.40 43	15.11 1.62 45	100.0 0.00 45	8,943 1,936.41 860	4.98 .79 43	1,872 271.82 68	66.2 5.78 68
6	ESTIMATE (SE) N	3,328 1,681.63 864	3.16 0.22 6	11.43 4.16 7	85.7 14.29 7	794 455.32 860	3.17 1.40 6	291 109.67 68	10.3 3.71 68
ESTIMATE		38,552	3.03	13.27	98.6	11,896	4.38	2,905	8.1
(SE)		5,758.13	0.33	1.28	0.01	2,121.63	.59	333.07	0.93
N		866	65	70	70	861	65	866	866

TABLE 8. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF RACCOON HUNTING IN MISSISSIPPI DURING THE 2010-11 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	83	2.00	42	7.1
	(SE)	0.0	.	.	.	83.09	.	41.55	7.1
2	N	865	1	1	1	865	1	14	14
	ESTIMATE	42	1.00	1.00	100.0	42	1.00	42	7.1
3	(SE)	41.55	.	.	.	41.55	.	41.55	7.1
	N	865	1	1	1	865	1	14	14
4	ESTIMATE	2,576	2.48	20.67	100.0	1,039	8.33	125	21.4
	(SE)	1,898.45	0.15	11.61	0.00	780.25	4.91	71.88	11.38
5	N	865	3	3	3	865	3	14	14
	ESTIMATE	125	0.43	3.00	100.0	291	7.00	42	7.1
6	(SE)	124.64	.	.	.	290.83	.	41.55	7.14
	N	865	1	1	1	865	1	14	14
7	ESTIMATE	374	0.35	1.29	71.4	1080	3.71	291	50.0
	(SE)	180.76	.23	0.42	18.44	577.85	1.52	109.54	13.87
8	N	865	7	7	7	865	7	14	14
	ESTIMATE	83	0.20	2.00	100.0	416	10.00	42	7.1
9	(SE)	83.09	.	.	.	415.47	.	41.55	7.14
	N	865	1	1	1	865	1	14	14
STATEWIDE	ESTIMATE	3,361	1.05	5.40	80.00	3,195	5.13	623	1.7
	(SE)	1,917.00	.42	2.85	10.69	1,122.00	1.28	159.42	0.44
STATEWIDE	N	866	15	15	15	866	15	866	866

TABLE 9. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF ALL DUCK HUNTING IN MISSISSIPPI DURING THE 2010-11 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	5,906 3,012.82 858	2.14 0.46 9	15.67 6.44 9	88.9 11.11 9	2,765 1,415.62 858	7.33 3.03 9	377 125.07 123	7.3 2.36 123
2	ESTIMATE (SE) N	51,184 9,422.21 858	3.23 0.32 52	20.87 2.99 52	94.2 3.27 52	14,074 2,758.58 858	6.46 .93 52	2,178 292.92 123	42.3 4.47 123
3	ESTIMATE (SE) N	45,237 8,035.03 858	3.12 0.31 45	21.67 2.53 45	93.3 3.76 45	13,110 2,438.30 858	6.96 0.82 45	1,885 273.67 123	36.6 4.36 123
4	ESTIMATE (SE) N	796 650.05 858	2.00 . . . 1	4.00 . . . 1	100.0 . . . 1	84 83.77 858	2.00 . . . 1	42 41.89 123	0.8 0.81 123
5	ESTIMATE (SE) N	9,173 3,880.51 858	1.84 0.74 14	15.64 5.35 14	92.86 7.14 14	4,984 2,309.44 858	8.50 3.35 14	586 155.53 123	11.4 2.88 123
6	ESTIMATE (SE) N	1,047 966.91 858	1.79 00.22 2	12.50 10.50 2	100.00 0.0 2	586 509.47 858	7.00 5.00 2	84 59.20 123	1.63 1.15 123
STATEWIDE	ESTIMATE (SE) N	138,523 14,278.88 866	2.97 0.22 131	20.77 1.76 131	93.1 2.22 131	37,971 4,576.98 866	6.98 0.63 131	5,436 437.83 866	15.1 1.22 866

TABLE 10. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF MALLARD HUNTING IN MISSISSIPPI DURING THE 2010-11 HUNTING SEASON.

MALLARDS

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS
1	ESTIMATE	1,215	0.44	3.22	66.7
	(SE)	860.97	0.14	2.14	16.67
2	N	858	9	9	9
	ESTIMATE	26,974	1.66	10.75	84.6
3	(SE)	5,630.75	0.19	1.89	5.05
	N	858	52	52	52
4	ESTIMATE	20,650	1.41	9.80	86.7
	(SE)	3,934.14	0.18	1.34	5.13
5	N	858	45	45	45
	ESTIMATE	293	1.00	2.00	100.0
6	(SE)	225.47	.	.	.
	N	858	1	1	1
STATEWIDE	ESTIMATE	3,351	0.67	5.71	42.9
	(SE)	1,892.25	0.36	2.95	13.73
STATEWIDE	N	858	14	14	14
	ESTIMATE	126	0.21	1.50	50.0
STATEWIDE	(SE)	125.66	0.06	1.50	50.00
	N	858	2	2	2
STATEWIDE	ESTIMATE	66,025	1.39	9.69	79.4
	(SE)	7,782.63	0.13	1.04	3.55
STATEWIDE	N	866	131	131	131

TABLE 11. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF WOOD DUCK HUNTING IN MISSISSIPPI DURING THE 2010-11 HUNTING SEASON.

WOOD DUCKS

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS
1	ESTIMATE	1,759	0.64	4.67	55.6
	(SE)	1,014.49	0.16	2.33	17.57
2	N	858	9	9	9
	ESTIMATE	4,231	0.23	1.48	46.2
3	(SE)	1,042.81	0.04	0.29	6.98
	N	858	52	52	52
4	ESTIMATE	2,932	0.20	1.38	37.8
	(SE)	775.38	0.05	0.32	7.31
5	N	858	45	45	45
	ESTIMATE	84	1.00	2.00	100.0
6	(SE)	83.77	.	.	.
	N	858	1	1	1
STATEWIDE	ESTIMATE	3,518	0.71	6.00	78.6
	(SE)	1,323.84	0.28	1.66	11.38
STATEWIDE	N	858	14	14	14
	ESTIMATE	84	0.14	1.00	50.0
STATEWIDE	(SE)	83.77	0.24	1.00	50.00
	N	858	2	2	2
STATEWIDE	ESTIMATE	15,023	0.34	2.36	48.9
	(SE)	2,288.16	0.05	0.35	4.38
STATEWIDE	N	866	131	131	131

TABLE 12. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF OTHER DUCK HUNTING IN MISSISSIPPI DURING THE 2010-11 HUNTING SEASON.

<u>OTHER DUCKS</u>					
DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS
1	ESTIMATE	2,932	1.06	7.78	66.7
	(SE)	1,530.89	0.46	3.32	16.67
2	N	858	9	9	9
	ESTIMATE	19,980	1.34	8.63	86.5
3	(SE)	3,689.96	0.17	1.18	4.78
	N	858	52	52	52
4	ESTIMATE	21,655	1.51	10.49	82.2
	(SE)	4,303.40	0.20	1.62	5.76
5	N	858	45	45	45
	ESTIMATE	419	0.0	0.0	0.0
6	(SE)	418.86	.	.	.
	N	858	1	1	1
STATEWIDE	ESTIMATE	2,304	0.46	3.93	50.0
	(SE)	1,032.96	0.19	1.47	13.87
STATEWIDE	N	858	14	14	14
	ESTIMATE	838	1.43	10.00	50.0
STATEWIDE	(SE)	837.72	0.41	10.00	50.00
	N	858	2	2	2
STATEWIDE	ESTIMATE	57,476	1.25	8.72	77.1
	(SE)	6,485.00	0.12	0.86	3.69
STATEWIDE	N	866	131	131	131

TABLE 13. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF GOOSE HUNTING IN MISSISSIPPI DURING THE 2010-11 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
	ESTIMATE	0	0.0	0.0	0.0	83	2.00	42	5.0
1	(SE)	0.0	.	.	.	83.29	.	41.64	5.00
	N	863	1	1	1	863	1	20	20
2	ESTIMATE	1,041	0.88	2.88	87.5	1,083	3.25	333	40.0
	(SE)	449.30	0.17	.91	12.50	495.15	1.01	117.31	11.24
	N	863	8	8	8	863	8	20	20
3	ESTIMATE	2,124	0.72	4.56	100.0	2,374	6.33	375	45.0
	(SE)	931.70	0.39	1.73	0.0	1,069.83	2.05	124.35	11.41
	N	863	9	9	9	863	9	20	20
4	ESTIMATE	0	.	.	.	0	.	0	0.0
	(SE)	0.0	.	.	.	0.0	.	0.0	0.0
	N	863	.	.	.	863	.	20	20
5	ESTIMATE	83	.18	1.00	50.0	458	5.50	83	10.0
	(SE)	83.29	.33	1.00	50.00	418.46	4.50	58.86	6.88
	N	863	2	2	2	863	2	20	20
6	ESTIMATE	0	.	.	.	0	.	0	0.0
	(SE)	0.0	.	.	.	0.0	.	0.0	0.0
	N	863	.	.	.	863	.	20	20
	ESTIMATE	4,399	0.65	3.04	87.0	4,440	4.65	955	2.7
	(SE)	1,140.95	0.21	.79	7.18	1,276.97	0.95	196.47	0.55
STATEWIDE	N	866	23	23	23	866	23	866	866

TABLE 14. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF RED FOX HUNTING IN MISSISSIPPI DURING THE 2010-11 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
	(SE)	0.0	.	.	.	0.0	.	.	.
2	N	866	.	.	.	866	.	1	1
	ESTIMATE	0	.	.	.	0	.	0	0.0
(SE)	0.0	.	.	.	.	0.0	.	.	.
	N	866	.	.	.	866	.	1	1
3	ESTIMATE	0	.	.	.	0	.	0	0.0
	(SE)	0.0	.	.	.	0.0	.	.	.
4	N	866	.	.	.	866	.	1	1
	ESTIMATE	0	.	.	.	0	.	0	0.0
(SE)	0.0	.	.	.	.	0.0	.	.	.
	N	866	.	.	.	866	.	1	1
5	ESTIMATE	0	0.0	0.0	0.0	415	10.00	42	100.0
	(SE)	0.0	.	.	.	414.99	.	41.50	.
6	N	866	1	1	1	866	1	1	1
	ESTIMATE	0	.	.	.	0	.	0	0.0
(SE)	0.0	.	.	.	.	0.0	.	.	.
	N	866	.	.	.	866	.	1	1
STATEWIDE	ESTIMATE	0	0.0	0.0	0.0	415	10.00	41.50	0.1
	(SE)	0.0	.	.	.	414.99	.	41.50	0.12
STATEWIDE	N	866	1	1	1	866	1	866	866

TABLE 15. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF GRAY FOX HUNTING IN MISSISSIPPI DURING THE 2010-11 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
	(SE)	0.0	.	.	.	0.0	.	0.0	0.0
2	ESTIMATE	42	0.20	1.00	100.0	208	5.00	42	0.3
	(SE)	41.55	.	.	.	207.73	.	41.55	0.33
3	ESTIMATE	865	1	1	1	865	1	3	3
	(SE)	0	.	.	.	0	.	0	0.0
4	ESTIMATE	865	.	.	.	865	.	3	3
	(SE)	0	.	.	.	0	.	0	0.0
5	ESTIMATE	42	.09	.50	50.0	457	5.50	83.09	66.7
	(SE)	41.55	.17	.50	50.00	417.49	4.50	58.72	33.33
6	ESTIMATE	865	2	2	2	865	2	3	3
	(SE)	0	.	.	.	0	.	0	0.0
STATEWIDE	ESTIMATE	166.00	0.13	1.00	75.0	665	5.33	166	0.5
	(SE)	101.55	0.12	0.41	25.00	466.08	2.60	82.85	0.23
		866	3	4	4	865	3	866	866

TABLE 16. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF BOBCAT IN MISSISSIPPI DURING THE 2010-11 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	.	42	0.0
	(SE)	0.0	.	.	.	0.0	.	41.60	0.0
2	N	864	.	.	.	862	.	9	9
	ESTIMATE	42	0	1.00	100.0	0	.	42	11.1
	(SE)	41.59	0	.	.	0.0	.	41.60	11.11
	N	864	0	1	1	862	.	9	9
3	ESTIMATE	42	1.00	1.00	100.0	42	1.00	42	11.1
	(SE)	41.59	0	.	.	41.69	0	41.60	11.11
	N	864	1	1	1	862	1	9	9
	ESTIMATE	0	.	.	.	0	.	0	0.0
	(SE)	0.0	.	.	.	0.0	.	0.0	0.0
	N	864	.	.	.	862	.	9	9
5	ESTIMATE	205	0.12	.86	71.4	1,751	7.00	291	77.8
	(SE)	117.41	0.11	0.26	18.4	1,241.66	4.45	109.67	14.70
	N	864	6	7	7	862	6	9	9
	ESTIMATE	0	.	.	.	0	.	0	0.0
	(SE)	0.0	.	.	.	0.0	.	0.0	0.0
	N	864	.	.	.	862	.	9	9
ESTIMATE		374	0.06	0.82	72.7	4,289	12.88	457	1.3
(SE)		137.13	0.05	0.18	14.08	2,787.88	7.52	136.84	0.38
STATEWIDE		866	8	11	11	863	8	866	866

TABLE 17. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF COYOTE HUNTING DURING THE 2010-11 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
	(SE)	0.0	.	.	.	0.0	.	0.0	0.0
2	N	862	.	.	.	857	.	17	17
	ESTIMATE	125	0.13	0.67	66.7	335.48	4.00	125	17.6
	(SE)	72.13	0.09	0.33	33.33	244	1.00	72.13	9.53
	N	862	2	3	3	857	2	17	17
3	ESTIMATE	0	.	.	.	0	.	0	0.0
	(SE)	0.0	.	.	.	0.0	.	0.0	0.0
4	N	862	.	.	.	857	.	17	17
	ESTIMATE	334	0.20	2.00	100.0	210	5.00	167	23.5
	(SE)	176.62	0	0.41	0.0	209.67	.	83.24	10.61
	N	862	1	4	4	857	1	17	17
5	ESTIMATE	250	0.06	0.86	71.4	3,606	14.33	292	41.2
	(SE)	117.68	0.05	0.26	18.44	2,240.54	7.37	109.92	12.30
6	N	862	6	7	7	857	6	17	17
	ESTIMATE	167	0.29	1.33	66.7	587	4.67	125	17.6
	(SE)	117.85	0.06	0.67	33.33	365.24	1.33	72.13	9.53
	N	862	3	3	3	857	3	17	17
STATEWIDE	ESTIMATE	1,079	0.07	1.19	76.2	7,656	13.07	872	2.4
	(SE)	279.22	0.04	0.19	9.5	3,415.24	4.86	187.96	0.52
	N	866	14	21	21	859	14	866	866

TABLE 18. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF ARCHERY DEER HUNTING IN MISSISSIPPI DURING THE 2010-11 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	291	0.11	1.40	60.0	2,5741	12.20	208	5.2
	(SE)	215.88	0.09	0.93	24.50	1,340.14	3.67	92.66	2.26
2	ESTIMATE	607	5	5	5	598	5	97	97
	(SE)	125	0.08	0.60	40.0	1,6881	8.00	208	5.2
3	ESTIMATE	92.90	0.03	0.40	24.50	856.59	2.17	92.66	2.26
	(SE)	607	5	5	5	598	5	97	97
4	ESTIMATE	374	0.13	1.50	1.00	2,532.04	12.00	250	6.19
	(SE)	170.88	0.04	0.34	0.0	1,477.64	5.05	101.42	2.46
5	ESTIMATE	607	5	6	6	598	5	97	97
	(SE)	416	0.17	1.25	75.0	2,1941	7.43	333	8.25
6	ESTIMATE	185.31	0.07	0.37	16.37	1,074.72	2.52	116.91	2.81
	(SE)	607	7	8	8	598	7	97	97
STATEWIDE	ESTIMATE	2,869	0.10	1.08	57.8	26,5021	10.83	2,661	66.0
	(SE)	659.42	0.02	0.21	6.22	3,964.90	.90	314.84	4.84
STATEWIDE	ESTIMATE	607	58	64	64	598	58	97	97
	(SE)	333	0.06	0.89	44.4	3,461	10.25	374	9.3
STATEWIDE	ESTIMATE	176.02	0.03	0.39	17.57	1,430.27	2.38	123.90	2.96
	(SE)	607	8	9	9	598	8	97	97
STATEWIDE	ESTIMATE	5,152	0.09	1.09	59.0	42,392	10.33	4,709	18.7
	(SE)	795.35	0.02	0.14	4.57	4,846.17	0.70	392.96	1.56
STATEWIDE	ESTIMATE	627	99	117	117	609	99	627	627
	(SE)								

TABLE 19. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF ARCHERY BUCK AND DOE HUNTING IN MISSISSIPPI DURING THE 2010-11 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	125	0.05	0.60	40.0	166	0.07	0.80	40.0
	(SE)	92.90	0.04	0.40	24.50	131.41	0.05	0.58	24.50
2	N	607	5	5	5	607	5	5	5
	ESTIMATE	42	0.03	0.20	20.0	83	0.05	.40	40.0
3	(SE)	41.57	0.02	0.20	20.00	58.75	0.02	.24	24.50
	N	607	5	5	5	607	5	5	5
4	ESTIMATE	125	0.05	0.50	50.0	250	0.08	1.00	50.0
	(SE)	71.89	0.04	0.22	22.36	155.36	0.04	0.52	22.36
5	N	607	5	6	6	607	5	6	6
	ESTIMATE	0	0.0	0.0	0.0	416	0.17	1.25	75.0
6	(SE)	0.0	0.0	0.0	0.0	185.31	0.07	0.37	16.37
	N	607	7	8	8	607	7	8	8
STATEWIDE	ESTIMATE	1,039	0.04	0.39	25.0	1,829	0.06	0.69	43.8
	(SE)	332.80	0.01	0.12	5.46	413.61	0.01	0.13	6.25
STATEWIDE	N	607	58	64	64	607	58	64	64
	ESTIMATE	83	0.01	0.22	22.2	250	0.05	0.67	44.4
STATEWIDE	(SE)	58.75	0.01	0.15	14.70	131.19	0.03	0.29	17.57
	N	607	8	9	9	607	8	9	9
STATEWIDE	ESTIMATE	1,530	0.03	0.32	23.9	3,622	0.06	0.77	47.0
	(SE)	355.06	0.01	0.07	3.96	565.49	0.01	0.10	4.63
STATEWIDE	N	627	99	117	117	627	99	117	117

TABLE 20. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF PRIMITIVE WEAPON DEER HUNTING IN MISSISSIPPI DURING THE 2010-11 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	AVERAGE SEASONAL SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL HUNTING DAYS	TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
1	ESTIMATE (SE) N	85 59.83 596	0.06 0.06 4	0.40 0.24 5	40.0 24.50 5	745 407.83 576	4.25 1.11 4	212 94.36 151	3.3 1.46 152
2	ESTIMATE (SE) N	254 119.41 596	0.13 0.04 6	1.00 0.26 6	83.3 16.67 6	2,103 1,112.80 576	8.00 2.97 6	254 103.28 151	4.0 1.60 151
3	ESTIMATE (SE) N	381 163.38 596	0.10 0.04 14	.56 0.20 16	43.8 12.81 16	2,935 884.88 576	4.79 .72 14	677 167.22 151	10.6 2.51 151
4	ESTIMATE (SE) N	550 201.98 596	0.22 0.07 10	1.18 0.26 11	72.7 14.08 11	2,234 809.14 576	5.10 .97 10	466 139.25 151	7.29 2.12 151
5	ESTIMATE (SE) N	3,260 454.55 596	0.08 0.01 84	0.79 0.08 98	58.2 5.01 98	31,589 4,733.93 576	8.58 0.96 84	4,150 383.48 151	64.9 3.90 151
6	ESTIMATE (SE) N	381 139.68 596	0.05 0.01 13	0.60 0.16 15	53.3 13.33 15	5,871 1,875.26 576	10.31 2.54 13	635 162.05 151	9.9 2.44 151
ESTIMATE		6,198	0.08	0.85	61.0	51,931	8.46	7,325	29.0
(SE)		597.70	0.01	0.06	3.63	5,943.02	0.75	457.81	1.81
N		627	143	182	182	588	143	627	627

TABLE 21. EXPANDED STATEWIDE AND DISTRICT OF PRIMITIVE WEAPON BUCK AND DOE HUNTING IN MISSISSIPPI DURING THE 2010-11 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	0	0.0	0.0	0.0	85	0.06	0.40	40.0
	(SE)	0.0	0.0	0.0	0.0	59.83	0.06	0.24	24.50
2	ESTIMATE	596	4	5	5	596	4	5	5
	(SE)	127	0.06	0.50	50.0	127	0.06	0.50	50.0
3	ESTIMATE	73.22	0.04	0.22	22.36	73.22	0.02	0.22	22.36
	(SE)	596	6	6	6	596	6	6	6
4	ESTIMATE	85	0.01	0.13	12.5	296	0.09	0.44	31.3
	(SE)	59.83	0.01	0.09	8.54	152.31	0.04	0.20	11.97
5	ESTIMATE	596	14	16	16	596	14	16	16
	(SE)	212	0.06	0.45	27.3	339	0.16	0.73	54.5
6	ESTIMATE	126.84	0.05	0.25	14.08	146.14	0.05	0.24	15.74
	(SE)	596	10	11	11	596	10	11	11
STATEWIDE	ESTIMATE	974	0.02	0.23	22.4	2,287	0.55	0.43	43.9
	(SE)	208.09	0.01	0.05	4.24	357.35	0.07	0.06	5.04
STATEWIDE	ESTIMATE	596	84	98	98	596	98	105	98
	(SE)	212	0.02	0.33	33.3	169	0.03	0.27	26.7
STATEWIDE	ESTIMATE	94.36	0.01	0.13	12.60	84.47	0.01	0.12	11.82
	(SE)	596	13	15	15	596	13	15	15
STATEWIDE	ESTIMATE	2,093	0.02	0.29	25.8	4,105	0.06	0.56	44.5
	(SE)	305.94	<0.0	0.04	3.25	461.75	0.01	0.05	3.69
STATEWIDE	ESTIMATE	627	143	182	182	627	143	182	182
	(SE)	627	143	182	182	627	143	182	182

TABLE 22. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF REGULAR GUN DEER HUNTING IN MISSISSIPPI DURING THE 2010-11 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	1,006	0.12	1.22	61.1	8,595	10.44	823	5.17
	(SE)	351.85	0.03	0.33	11.82	2,729.46	2.33	190.95	1.90
2	ESTIMATE	552	18	18	18	552	18	348	348
	(SE)	1,646	0.12	1.39	73.1	13,395	11.27	1,189	7.5
3	ESTIMATE	447.53	0.03	0.27	8.87	3,319.80	1.80	227.76	1.41
	(SE)	552	26	26	26	552	26	348	348
4	ESTIMATE	1,554	0.09	1.00	58.8	17,601	11.32	1,554	9.8
	(SE)	398.67	0.02	0.20	8.57	3,915.65	1.70	258.47	1.59
5	ESTIMATE	552	34	34	34	552	34	348	348
	(SE)	3,429	0.11	1.44	82.7	32,276	13.58	2,377	14.9
6	ESTIMATE	565.65	0.02	0.14	5.30	5,557.59	1.51	314.05	1.91
	(SE)	552	52	52	52	552	52	348	348
STATEWIDE	ESTIMATE	11,338	0.08	1.32	70.2	144,696	16.84	8,595	54.0
	(SE)	1,036	0.01	0.09	3.34	10,784.14	0.76	509.49	2.68
STATEWIDE	ESTIMATE	552	188	188	188	552	188	348	348
	(SE)	1,966	0.09	1.43	60.0	21,213	15.47	1,372	8.6
STATEWIDE	ESTIMATE	606.46	0.02	0.37	9.10	4,478.29	1.79	243.73	1.51
	(SE)	552	30	30	30	552	30	348	348
STATEWIDE	ESTIMATE	23,264	0.08	1.37	72.8	289,510	17.00	17,025	67.5
	(SE)	1,265.60	<0.01	0.06	2.17	12,539	0.57	472.55	1.87
STATEWIDE	ESTIMATE	631	423	423	423	627	423	627	627
	(SE)								

TABLE 23. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF REGULAR GUN BUCK AND DOE HUNTING IN MISSISSIPPI DURING THE 2010-11 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	183	0.02	0.22	22.2	883	0.10	1.00	61.1
	(SE)	91.19	<0.01	0.10	10.08	301.50	0.03	0.29	11.82
2	N	552	18	18	18	552	18	18	18
	ESTIMATE	914	0.07	0.77	61.5	731	0.05	0.62	38.5
3	(SE)	247.59	0.02	0.15	9.73	264.99	0.02	0.19	9.73
	N	552	26	26	26	552	26	26	26
4	ESTIMATE	640	0.04	0.41	38.2	914	0.05	0.59	41.2
	(SE)	180.99	0.01	0.10	8.46	286.77	0.01	0.16	8.57
5	N	552	34	34	34	552	34	34	34
	ESTIMATE	1,372	0.04	0.58	42.3	2,057	0.06	0.87	57.7
6	(SE)	311.60	0.01	0.11	6.92	397.16	0.01	0.12	6.92
	N	552	52	52	52	552	52	52	52
STATEWIDE	ESTIMATE	5,760	.04	0.67	46.3	5,578	0.04	0.65	48.4
	(SE)	629.48	<0.01	0.06	3.65	601.93	<0.01	0.06	3.65
STATEWIDE	N	552	188	188	188	552	188	188	188
	ESTIMATE	10,465	0.04	.61	46.1	12,799	0.04	0.75	49.4
STATEWIDE	(SE)	704.84	<0.01	0.04	2.43	899.55	<0.01	0.05	2.43
	N	627	423	423	423	627	423	423	423

TABLE 24. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF SPRING TURKEY HUNTING IN MISSISSIPPI DURING THE 2010-11 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
	ESTIMATE	206	0.14	.83	66.7	872	4.20	247	8.0
1	(SE)	108.51	0.05	.31	21.08	415.98	0.80	100.27	3.15
	N	614	5	6	6	608	5	75	75
2	ESTIMATE	123	0.11	0.60	20.0	1,121	5.40	206	6.7
	(SE)	123.30	0.11	0.60	20.00	578.30	1.57	91.60	2.90
	N	614	5	5	5	608	5	75	75
3	ESTIMATE	41.10	0.03	0.14	14.3	1,619	5.57	288	9.3
	(SE)	41.10	0.02	0.14	14.29	722.50	1.45	108.21	3.38
	N	614	7	7	7	608	7	75	75
4	ESTIMATE	329	0.09	0.67	50.0	3,902	7.83	493	16.0
	(SE)	141.87	0.02	0.22	15.08	1,449.45	1.94	141.10	4.26
	N	614	12	12	12	608	12	75	75
5	ESTIMATE	1,397	0.08	0.81	47.6	13,241	8.39	1,726	56.0
	(SE)	344.44	0.02	0.16	7.80	2,699.07	1.10	257.30	5.77
	N	614	38	42	42	608	38	75	75
6	ESTIMATE	82	0.0	0.67	33.3	498	6.00	123	4.0
	(SE)	82.20	0.0	0.67	33.3	371.00	2.00	71.07	2.28
	N	614	2	3	3	608	2	75	75
	ESTIMATE	2,576	0.08	0.73	47.7	17,237	7.27	3,542	14.0
	(SE)	429.08	0.01	0.10	5.36	2,473.23	0.74	350.35	1.39
STATEWIDE	N	627	77	88	88	855	77	627	627

TABLE 25. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF FALL TURKEY HUNTING IN MISSISSIPPI DURING THE 2010-11 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	0	.	.	.	0	.	0	0.0
	(SE)	0.0	.	.	.	0.0	.	0.0	0.0
	N	626	.	.	.	625	.	6	6
3	ESTIMATE	0	.	.	.	0	.	0	0.0
	(SE)	0.0	.	.	.	0.0	.	0.0	0.0
	N	626	.	.	.	625	.	6	6
5	ESTIMATE	121	0.03	0.50	33.3	1,211	6.00	241.88	100.0
	(SE)	90.09	0.02	0.34	21.08	693.55	2.41	98.35	0.0
	N	626	5	6	6	625	5	6	6
STATEWIDE	ESTIMATE	121	0.03	0.43	28.6	1,330	5.50	282	1.1
	(SE)	89.94	0.02	0.30	18.44	702.59	2.03	105.98	0.42
	N	627	6	7	7	626	6	627	627

(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 '10 AND SPRING '11) HUNTING IN MISSISSIPPI DURING THE 2010-11 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	34,614	0.09	1.75	74.8	311,694	16.64	19,802	78.5
	(SE)	1,709.17	0.01	0.08	1.96	16,986.65	0.80	414.59	1.64
BUCK	ESTIMATE	14,087	0.04	0.71	49.2	311,694	16.64	19,802	78.5
	(SE)	845.54	<0.01	0.04	2.26	16,986.65	0.80	414.59	1.64
DOE	ESTIMATE	20,527	0.06	1.04	56.7	311,694	16.64	19,802	78.5
	(SE)	1,238.38	<0.01	0.06	2.24	16,986.65	0.80	414.59	1.64
TURKEY	ESTIMATE	2,697	0.08	0.71	46.8	24,333	7.09	3,783	15.0
	(SE)	437.27	0.01	0.09	5.17	3,434.78	0.67	360.08	1.43
	N	627	82	94	94	615	87	627	627

(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 2010-11 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	42	1.00	42	2.3
	(SE)	0.0	.	.	.	42.13	.	41.74	2.33
2	ESTIMATE	861	1	1	1	853	1	43	42
	(SE)	42	0.25	.50	50.0	169	2.00	83	4.65
3	ESTIMATE	41.74	0.38	.50	50.00	133.18	1.00	59.00	3.25
	(SE)	861	2	2	2	853	2	43	43
4	ESTIMATE	42	0.14	0.50	50.0	295	3.50	83	4.7
	(SE)	41.74	0.12	0.50	50.00	210.54	.50	59.00	3.25
5	ESTIMATE	861	2	2	2	853	2	43	43
	(SE)	250	0.67	2.00	100.0	253	3.00	125	7.0
6	ESTIMATE	156.03	0.78	0.58	0.0	214.78	2.00	72.21	3.93
	(SE)	861	2	3	3	853	2	43	43
STATEWIDE	ESTIMATE	3,130	0.18	2.59	89.7	14,704	14.54	1,210	67.4
	(SE)	921.15	0.04	0.61	5.76	4,241.70	3.07	221.09	7.23
STATEWIDE	ESTIMATE	861	24	29	29	853	24	43	43
	(SE)	751	0.20	3.00	83.3	2,064	12.25	250	14.0
STATEWIDE	ESTIMATE	449.08	0.12	1.44	16.67	1,185.02	4.01	101.94	5.35
	(SE)	861	4	6	6	853	4	43	43
STATEWIDE	ESTIMATE	4,648	0.18	2.33	83.3	20,092	12.92	1,992	5.54
	(SE)	1,071.19	0.04	0.43	5.44	5,057.17	2.53	279.59	0.78
STATEWIDE	ESTIMATE	866	37	48	48	855	37	866	866
	(SE)								

Summary of Responses to Non-resident Demographic Questions for 2010-11

Table 28. Percent of respondents by how they rated hunting compared to their other outdoor recreation activities (such as fishing, camping, golfing, etc.) (Q2).

Response	Frequency	Percent
Most important outdoor activity	497	63.7
Second most important outdoor activity	207	26.5
Third most important outdoor activity	55	7.1
None of the above	21	2.7
TOTAL	780	100.00

n missing = 22

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

Age Category	Frequency	Percent
18-20	9	1.1
21-25	25	3.1
26-30	49	6.1
31-35	61	7.6
36-40	51	6.4
41-45	77	9.6
46-50	115	14.3
51-55	117	14.6
56-60	96	12.0
61-65	97	12.1
>65	105	13.1
TOTAL	802	100.0

n missing = 0

Mean age of hunter = 50.2

Table 30. Percent of respondents by their gender category (Q4)

Gender Category	Frequency	Percent
MALE	777	97.6
FEMALE	19	2.4
TOTAL	796	100.0

n missing = 6

Table 31. Percent of respondents by their approximate annual household income category before taxes (Q5)

Income Category	Frequency	Percent
Under 10,000	11	1.5
10,000-19,000	14	1.9
20,000-29,000	20	2.8
30,000-39,000	36	5.0
40,000-49,000	52	7.1
50,000-59,000	67	9.2
60,000-69,000	49	6.7
70,000-79,000	61	8.4
80,000-89,000	52	7.1
90,000-99,000	46	6.3
100,000 and above	320	44.0
TOTAL	728	100.0

n missing = 74

Table 32. Percent of respondents by their highest completed level of education (Q6)

Education Category	Frequency	Percent
Elementary	14	1.8
High School	235	29.3
College	416	51.9
Graduate School	137	17.1
TOTAL	802	100.0

n missing = 0

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

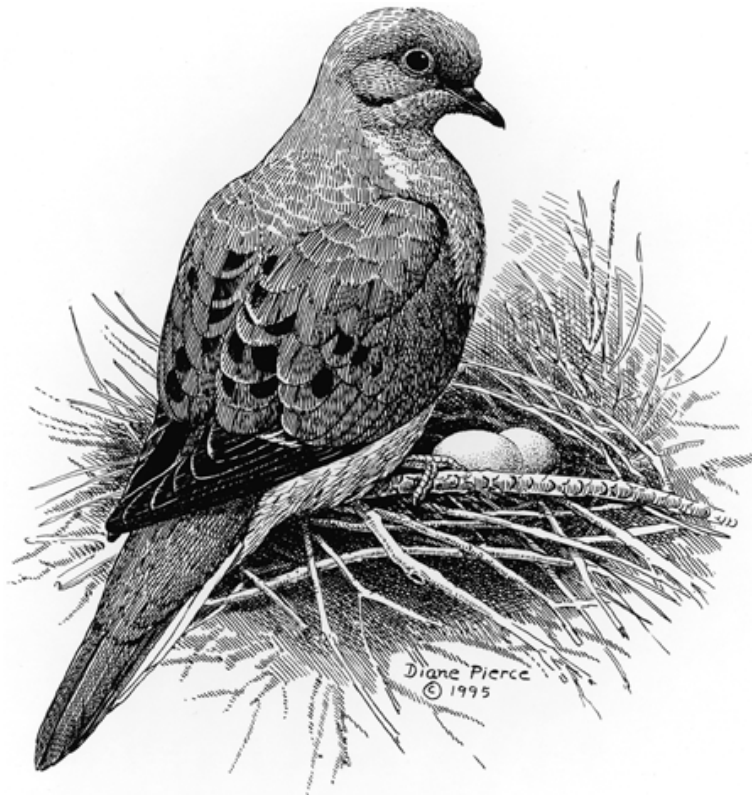
Race Category	Frequency	Percent
WHITE OR ANGLO	773	97.1
BLACK OR AFRICAN AMERICAN	12	1.5
LATINO OR HISPANIC	4	0.5
NATIVE AMERICAN OR ALASKAN NATIVE	3	0.4
ASIAN OR PACIFIC ISLANDER	1	0.1
OTHER	3	0.4
TOTAL	796	100.0

n missing = 6

Appendix A

Questionnaire: 2010-11 Survey of Mississippi Non-Resident Hunters

*2010-11 Survey
of
Mississippi 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

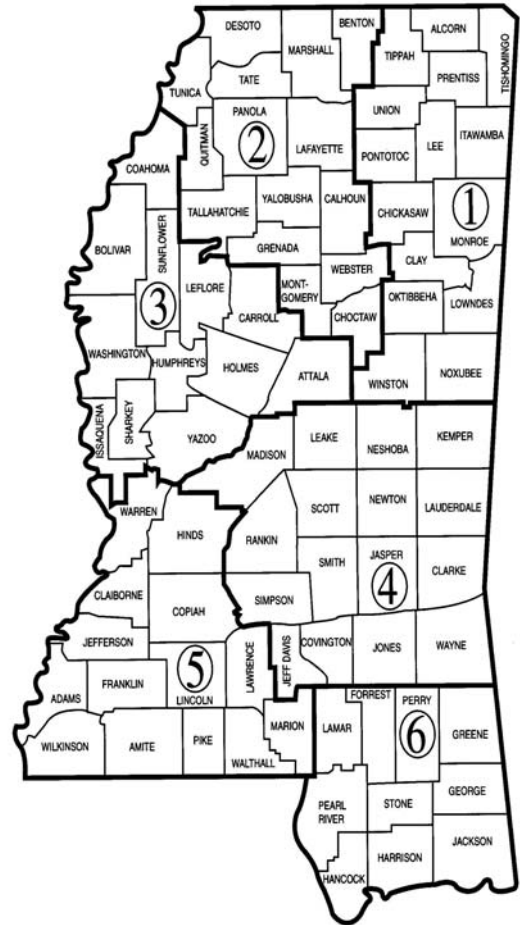
1. Please fill in the blocks below for each game, furbearer, or predatory species you hunted during the 2010-2011 hunting season (even if you were unsuccessful). If you hunted more than one species on a particular day, count a day for each species you hunted. Report only game, furbearer, or predatory species taken by you in Mississippi.

Species Sought	Total harvested in Mississippi in 2010-11 season	Days hunted species in Mississippi in 2010-11 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 2010)				
Turkey (Spring 2011)				

	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. Compared to your other outdoor recreation activities (such as fishing, camping, golfing, etc...) would you rate hunting as: *(Please circle only one answer)*

- 1 YOUR MOST IMPORTANT OUTDOOR ACTIVITY
- 2 YOUR SECOND MOST IMPORTANT OUTDOOR ACTIVITY
- 3 YOUR THIRD MOST IMPORTANT OUTDOOR ACTIVITY
- 4 NONE OF THE ABOVE

3. What is your age? _____ YEARS

4. Are you? 1 MALE
 2 FEMALE

5. 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

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

- | | | | | | | | | | | | | | | | | | | | | | |
|------------|----------|----------|----------|-------------|----------|----------|----------|----------|-----------|-----------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| <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 | | | | | | | | | |

7. Would you best describe yourself as:

- 1 WHITE OR ANGLO
- 2 BLACK OR AFRICAN AMERICAN
- 3 LATINO OR HISPANIC
- 4 NATIVE AMERICAN OR ALASKAN NATIVE
- 5 ASIAN OR PACIFIC ISLANDER
- 6 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
8/11

Appendix B

Survey correspondence with hunters for the 2010-11 Survey of Mississippi Non-Resident Hunters

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Human Dimensions & Conservation Law Enforcement Laboratory
Forest & Wildlife Research Center
Box 9690
Mississippi State, MS 39762-9690

September 27, 2011

John Doe
123 Buck Drive
Fawn, MS 30759

Dear John:

I am writing to ask for your help in a study of Mississippi hunters. Each year I conduct the enclosed annual hunter harvest and attitude survey for the Wildlife Bureau of the Mississippi Department of Wildlife, Fisheries and Parks (MDWFP). We conduct this study to determine the characteristics of hunters, and the amount of game harvested in Mississippi during the previous hunting season. The enclosed survey is designed to tell us about your game harvest in the 2010-2011 (July 1, 2010 – May 1, 2011) Mississippi hunting season.

You are one of a small number of license holders from the 2010-11 hunting season selected to participate in this study. It is important that you and no one else complete the questionnaire. Your response is vital to insuring the information we collect is representative of all Mississippi hunters, and we want to hear from you 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. For additional information regarding human participation in research, please feel free to contact the MSU Regulatory Compliance Office at (662) 325-3994. 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. We hope you enjoyed your summer and that your 2011-12 hunting season will be a safe and successful one.

Sincerely,

A handwritten signature in black ink that reads "Kevin M. Hunt". The signature is written in a cursive style with a large, stylized "K" and "H".

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

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Mississippi State
UNIVERSITY

Human Dimensions & Conservation Law Enforcement Laboratory
Forest & Wildlife Research Center
Box 9690
Mississippi State, MS 39762-9690

October 25, 2011

Willie T Thorne
PO Box 45
Tishomingo, MS 38873

Dear Willie:

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. However, the success and accuracy of our study depends on you and the others who have not yet responded. 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 2010-2011 hunting season. Study results will help MDWFP in wildlife management plans. Although the survey is completely voluntary, we hope that you will take the 10-15 minutes necessary to provide your input and be a part of the wildlife management process. If you did not hunt in the 2010-11 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 current hunting season.

Sincerely,

A handwritten signature in black ink that reads "Kevin M. Hunt".

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

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Mississippi State
UNIVERSITY

Human Dimensions & Conservation Law Enforcement Laboratory
Forest & Wildlife Research Center
Box 9690
Mississippi State, MS 39762-9690

November 15, 2011

John Doe
123 Buck Drive
Fawn, MS 30759

Dear John:

During the last two months, I have sent you two mailings involving a survey of Mississippi hunters. As of today, I have not yet received your completed questionnaire. If you have recently returned your survey, please accept my thanks.

The success and accuracy of our study depends on you and the others who have not yet responded. If for some reason you prefer not to respond, please let me know by returning the blank questionnaire in the enclosed business reply envelope. Or, if you did not hunt in the 2010-11 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 choose to respond, the survey should take you no longer than 10-15 minutes to complete. Your responses will be strictly confidential, and you will not be identified with your answers. The survey has an identification number for mailing purposes only. Your answers will be grouped with other respondents in a non-identifiable manner, and there is no way for anyone outside of my laboratory to determine your identity. I will destroy the name and address list at the end of the study.

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 current hunting season.

Sincerely,

A handwritten signature in black ink that reads "Kevin M. Hunt".

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