

**MISSISSIPPI MAIL SURVEY OF GAME
HARVEST AND HUNTER EFFORT FOR 1993-94**

by

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INTRODUCTION

The purpose of the game harvest survey is to establish yearly indices of harvest and hunter effort for each game species. These indices provide trend data which allows staff to monitor changes in harvest and effort through time. When interpreting these data, it is important to consider habitat changes, species abundance, the current socio-economic climate of the state as well as changes in management strategies.

The Mississippi Department of Wildlife Fisheries and Parks (MDWFP) uses a mail survey to obtain trend data on total harvest, average daily kill, average seasonal harvest, and total man-days hunted for each game species. The estimates obtained for each of these categories contain serious sampling, response and nonresponse biases, therefore the accuracy of these estimates is unknown. Filion (1980) provided a good review of these biases and their effect on the estimates. Recognizing that these biases exist and assuming all biases remain constant, the estimates obtained from the survey provide adequate indices for monitoring trends in hunter harvest and effort.

The primary objective of the mail survey for the 1993-94 hunting season was to obtain a reliable set of statewide indices for each game species in Mississippi. The secondary objective was to provide district indices for these species. The survey is also used as a tool to monitor hunter attitudes and perceptions on specific issues. The results of the survey are used to help guide future management decisions.

METHODS

The sampling frame for the survey consisted of resident holders of a Type 00 - Sportsman, Type 01 - All Game Hunting and Fishing, or Type 05 - Small Game Hunting and Fishing licenses purchased during the 1993-94 license year.

A 5.78 percent sample of these hunting license buyers was selected from the 147,843 licenses processed from July 1, 1993 - January 31, 1994. An approximate random sample was achieved by selecting license sales stubs whose license number ended in predetermined but randomly selected sets of terminal digits between 000 and 999. A different set of digits was selected for each of Types 01, and 05 licenses. An optical scanning device (S6000 Burroughs Document Processor) was used to mechanically make the stub selections. Sampling was discontinued at the end of January to expedite mailing the survey immediately after the close of the February hunting season.

An initial sample of 8,544 of Type 01 and 05 license holders was selected. Since approximately 0.7% percent of the selected license stubs lacked complete names and/or addresses, the 5.78 percent sample of stubs resulted in a 5.3 percent sample or 7,910 usable licenses. Names and addresses were keypunched for each usable stub sampled.

A sample of Sportsman license holders comparable to the other types was achieved as follows. For each of the past 12 years (80/81 - 92/93) the total sales of Types 01 and 05 were divided into the total sales of these types for July - January of each year. Based on an

average of 13 years, 90.46 percent of the predicted sales had been accounted for by the end of January of each year. Therefore the 5.3 percent sample of license holders in January would be about a 4.77 percent ($0.9046 \times 0.0477 \times 100$) sample of total expected through June 1994.

Because of the computerized and renewable aspects of Sportsman's licenses (Type 00), virtually all 93-94 Sportsman's license holders are accounted for by the end of January. Sales were 48,542 by February 1994. To achieve a sample of Sportsman license holders comparable to Types 01, and 05 a computer generated random sample of 2,372 hunters. Both stub and Sportsman's license samples were combined into a single computer file for mailing purposes.

The initial mailing consisting of the questionnaire (Figure 1), a cover letter (Figure 2) and a No. 9 postage-paid business reply envelope was mailed in a No. 10 window envelope on March 9, 1994 to the 10,270 sampled hunters. Three weeks after the initial mailing reminder post cards (Figure 3) were mailed to 7,075 sampled hunters who had not returned their questionnaire. The final mailing composed of the identical questionnaire, cover letter (Figure 4) and business reply envelope was mailed three weeks after the reminder post card mailing to the 6,077 nonrespondents. First mailing questionnaires were given identification numbers from 100,001 to 110,270 while the final mailing was given a 200,000 numbering sequence to differentiate responses between mailings. Questionnaires returned five weeks after the final mailing were not considered in the analyses.

Questionnaire design and mailing procedures were outlined by Steffen (1981). Procedures for editing and data entry of returned questionnaires were also identical to Steffen

(1981).

Estimates and their standard errors for each species were calculated for the following indices; 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 afield per hunter and the average daily kill. These indices were calculated both on a statewide and district (Figure 5) basis.

The 1993-94 survey obtained information about two different or license years. Turkey harvest indices were partially calculated from hunters who hunted during the spring 1993 turkey season which was the 92/93 license year. Indices for other species were determined for the 1993-94 season alone. Because of prior irregularities in the license sales structure, only surveys beginning with the 1982-83 season had well defined sampling frames with a known number of license buyers (Steffen 1981, 1983 a,b), therefore spring 1993 turkey indices were calculated based on the respondents who also purchased a big game license during the previous July 1, 1992 - June 30, 1993 fiscal year (Question 11 on survey).

Estimates and standard errors of total turkey and man-days of effort were calculated as a linear combination of the spring 1993 estimates plus the fall 1993 estimates. The computer programs were altered to reflect these changes. All other calculations follow Steffen 1981.

RESULTS

Based on all three mailings, 1,045 (10.2 %) of the 10,270 questionnaires were returned as non-deliverable by the post office. Therefore 9,225 individuals were assumed to have been contacted to participate in the survey. Of these 5,307 (57.5%) returned their questionnaires for possible analysis and 3,918 (42.5%) were nonresponses.

Statewide expansions were calculated based on the 220,602 total hunting licenses sold and accounted for by the end of June 1994. There existed 220,602 individuals licensed to hunt small game and 170,831 (Types 00 +01) of these license holders also were eligible to pursue big game (deer and turkey) during the 1992-93 hunting seasons. The spring 1993 turkey hunting estimates were based on the 217,231 big game license holders accounted for in the 1992-93 license sales totals.

Based on the 5,307 usable responses, 90.9 ± 0.6 (SE) percent of all resident license holders actually participated in a hunting activity during the 1993-94 hunting season. Therefore an estimated $198,101 \pm 909$ (SE) licenses actually utilized their license for hunting purposes.

The expanded statewide summaries of total harvest, average daily kill, average seasonal kill, the percent of hunters and the 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 errors and 95 percent confidence limits) for all game species surveyed.

Tables 3-8 summarize small game hunting on a statewide and district basis.

Waterfowl hunting is summarized in Tables 9-11. Tables 12-15 summarize fox (red and gray), bobcat and coyote hunting. Statewide and district summaries of deer (buck and doe data from the archery, primitive weapon and gun seasons) and turkey hunting are provided in Tables 16-24. Statewide totals will not necessarily equal the sum of the district totals. All figures were calculated independently and were the best statistical estimates available.

Table 25 summarizes the responses to the opinion questions in Part B.

DISCUSSION

A major change was made in this year's survey by delineating the newly established districts rather than the previous regions. This change was made in order to begin capturing information for district management purposes.

For management purposes, it should be reemphasized that the hunting data provided are only indices to harvest and effort, for use in conjunction with past (and future) mail surveys to determine trends. The current survey was conducted similarly to all past surveys and is therefore useful for comparison purposes.

Response and nonresponse biases continue to exist with the survey as previously noted by Steffen (1981). Therefore discretion must be used when considering these data as absolute estimates. Assuming the biases remain consistent over time, the best uses of these data are as indices for trend determinations.

As previously recommended, the annual survey should be continued with a sample of 3,000-5,000 sportsmen. Periodically (e.g., every 5 years) a survey of 11,000 - 12,000

hunters should be conducted to provide more precise estimates on a district basis. The next large sample survey should be conducted after the 1998-99 hunting seasons. To avoid changes in biases, attention to the consistency of survey methodology should be continued in future surveys.

This survey could not have been accomplished without the conscientious efforts of many MDWFP personnel from all divisions. Special thanks goes to Shannon Matijevich for scanning, data entry and anything else that needed to be done. Appreciation is extended to C. Blakeney, D. Kincaid, P. McDaniel, S. Norwood, and C. Thornhill for technical expertise and D. Brazil, B. Ellison, D. Smith, R. Spencer, and J. Tindall for help with mailings.

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TABLE 1. EXPANDED STATEWIDE SUMMARY OF THE 1993-94 MISSISSIPPI MAIL SURVEY OF GAME HARVEST BASED ON 220,602 SMALL GAME LICENSE HOLDERS AND 170,831 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 LICENSEES (A)
- DOVE	1,910,221	6.08	22.55	93.4	309,912	3.69	84,716	38.4
+ QUAIL*	194,622	2.18	13.42	84.2	87,633	6.17	14,507	6.6
- WOODCOCK	7,815	0.54	3.42	76.4	13,564	6.52	2,288	1.0
- RABBIT	488,342	1.38	8.73	88.4	335,726	6.16	55,951	25.4
- SQUIRREL	1,214,953	2.30	13.24	91.8	507,881	5.63	91,782	41.6
- RACCOON	118,594	0.56	7.87	90.9	188,861	13.42	15,048	6.8
- ALL DUCKS	223,014	1.67	11.40	86.7	126,613	6.77	19,412	8.8
- MALLARD	119,217	0.89	6.07	65.7				
- WOOD DUCK	68,143	0.51	3.47	60.2				
- OTHER DUCKS	36,337	0.28	1.86	33.6				
- GEESE	4,240	0.40	1.89	57.4	10,109	4.86	2,245	1.0
- RED FOX	1,372	0.08	0.92	75.0	13,153	10.90	1,496	0.7
- GRAY FOX	1,496	0.07	1.06	73.5	12,734	10.93	1,413	0.6
- BOBCAT	7,565	0.27	1.29	91.4	18,132	4.33	5,778	2.6
- COYOTE	39,365	0.21	2.57	86.6	114,892	9.95	15,255	6.9
- TOTAL DEER	262,409	0.093	1.89	66.1	2,611,749	19.06	139,102	81.4
- BUCK	178,083	0.063	1.28	58.4				
- DOE	84,324	0.030	0.61	36.1				
- ARCHERY DEER	32,971	0.066	0.80	42.9	453,434	11.33	41,432	24.3
+ BUCK	15,310	0.031	0.37	26.2				
+ DOE	17,661	0.035	0.43	30.9				
- PRIMITIVE DEER	31,292	0.116	0.67	46.0	245,703	5.44	46,602	27.3
- BUCK	12,221	0.045	0.26	22.4				
- DOE	19,071	0.071	0.41	32.9				
- GUN DEER	198,133	0.097	1.48	64.2	1,885,094	14.36	133,562	78.2
- BUCK	150,552	0.073	1.13	57.3				
- DOE	47,586	0.024	0.36	25.6				
- TOTAL TURKEY	37,967	0.049	0.93	53.5	341,239	18.51	41,472	17.8
- SPRING 1993	36,983	0.105	0.93	54.1	334,856	8.58	39,775	18.3
- FALL 1993	984	0.138	0.58	48.0	6,384	4.09	1,696	1.0

(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 THE VARIABILITY OF THE ESTIMATES) FOR ALL GAME SPECIES IN MISSISSIPPI DURING THE 1993-94 HUNTING SEASON.

SPECIES	TOTAL HARVEST	STANDARD ERROR		95% CONFIDENCE INTERVAL	
		SE	AS % OF TOTAL(A)	LOWER LIMIT	UPPER LIMIT
DOVE	1,910,221	61,398	3.2	1,787,425	2,033,017
QUAIL	194,622	18,398	9.5	157,826	231,418
WOODCOCK	7,815	1,518	19.4	4,779	10,851
RABBIT	488,342	24,742	5.1	438,858	537,826
SQUIRREL	1,214,953	43,639	3.6	1,127,675	1,302,231
RACCOON	118,594	12,044	10.2	94,506	142,682
ALL DUCKS	223,014	17,141	7.7	188,732	257,296
MALLARD	119,217	10,928	9.2	97,361	141,073
WOOD DUCK	68,143	5,823	8.5	56,497	79,789
OTHER DUCKS	36,337	4,278	11.8	27,781	44,893
GEESE	4,240	1,078	25.4	2,084	6,396
RED FOX	1,372	278	20.3	816	1,928
GRAY FOX	1,496	419	28.0	658	2,334
BOBCAT	7,565	935	12.4	5,695	9,435
COYOTE	39,365	4,660	11.8	30,045	48,685
TOTAL DEER	262,409	5,115	1.9	252,179	272,639
BUCK	178,083	3,638	2.0	170,807	185,359
DOE	84,324	2,338	2.8	79,848	89,000
ARCHERY DEER	32,971	1,678	5.1	29,615	36,327
BUCK	15,310	959	6.3	13,392	17,228
DOE	17,661	1,002	5.7	15,657	19,665
PRIMITIVE DEER	31,292	1,326	4.2	28,640	33,944
BUCK	12,221	717	5.9	10,787	13,655
DOE	19,071	939	4.9	17,193	20,949
GUN DEER	198,133	4,027	2.0	190,079	206,187
BUCK	150,552	3,195	2.1	144,162	156,942
DOE	47,586	1,636	3.4	44,314	50,858
TOTAL TURKEY	37,967	1,845	4.9	34,277	41,657
SPRING 1993	36,983	1,832	5.0	33,319	40,647
FALL 1993	984	211	21.4	562	1,406

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

TABLE 3. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF DOVE HUNTING IN MISSISSIPPI DURING THE 1993-94 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	431,066 (30,202) 5,266	6.39 (0.31) 441	23.18 (1.24) 1,444	95.3 (1.0) 444	65,348 (4,668) 5,246	3.52 (0.19) 441	18,600 (845) 1,997	22.2 (0.9) 1,997
2	ESTIMATE (SE) N	359,431 (31,879) 5,266	5.71 (0.52) 344	24.73 (1.78) 347	92.2 (1.4) 347	62,741 (6,555) 5,246	4.34 (0.38) 344	14,538 (754) 1,997	17.4 (0.8) 1,997
3	ESTIMATE (SE) N	353,776 (32,713) 5,266	6.98 (0.31) 319	26.38 (1.98) 320	93.4 (1.4) 320	50,840 (4,023) 5,246	3.78 (0.22) 318	13,405 (728) 1,997	16.0 (0.8) 1,997
4	ESTIMATE (SE) N	360,939 (23,597) 5,266	6.27 (0.30) 410	20.61 (0.84) 418	94.7 (1.1) 418	56,223 (3,715) 5,246	3.26 (0.15) 410	17,511 (822) 1,997	20.9 (0.8) 1,997
5	ESTIMATE (SE) N	168,158 (18,128) 5,266	4.95 (0.46) 214	18.68 (1.57) 216	91.2 (1.6) 216	34,020 (3,525) 5,246	3.78 (0.30) 214	9,049 (603) 1,997	10.8 (0.7) 1,997
6	ESTIMATE (SE) N	220,099 (21,692) 5,266	5.91 (0.35) 249	20.85 (1.61) 252	92.5 (1.7) 252	37,173 (2,993) 5,246	3.55 (0.18) 248	10,557 (649) 1,997	12.6 (0.7) 1,997
STATEWIDE	ESTIMATE (SE) N	1,910,221 (61,398) 5,307	6.08 (0.17) 2,012	22.55 (0.61) 2,038	93.4 (0.6) 2,038	309,912 (9,885) 5,281	3.69 (0.10) 2,012	84,718 (1,473) 5,307	38.4 (0.7) 5,307
									PERCENT OF TOTAL LICENSEES

TABLE 4. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF QUAIL HUNTING IN MISSISSIPPI DURING THE 1993-94 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	68,227 (10,943) 5,293	2.00 (0.19) 111	14.49 (1.90) 113	80.5 (3.7) 113	33,416 (5,060) 5,288	7.22 (0.86) 111	4,710 (438) 335	33.7 (2.6) 335
2	ESTIMATE (SE) N	58,974 (11,084) 5,293	2.67 (0.31) 82	17.05 (2.63) 83	86.7 (3.7) 83	22,068 (3,585) 5,288	6.45 (0.78) 82	3,459 (377) 335	24.8 (2.4) 335
3	ESTIMATE (SE) N	6,127 (2,274) 5,293	1.50 (0.53) 26	5.65 (1.82) 26	84.6 (7.2) 26	4,088 (1,209) 5,288	3.77 (0.85) 26	1,084 (212) 335	7.8 (1.5) 335
4	ESTIMATE (SE) N	25,799 (7,746) 5,293	3.03 (0.54) 36	16.29 (4.18) 38	89.5 (5.0) 38	8,010 (1,890) 5,288	5.33 (0.91) 36	1,584 (256) 335	11.3 (1.7) 335
5	ESTIMATE (SE) N	10,545 (2,966) 5,293	2.28 (0.46) 24	10.54 (2.09) 24	83.3 (7.8) 24	4,631 (1,325) 5,288	4.63 (0.95) 24	1,000 (204) 335	7.2 (1.4) 335
6	ESTIMATE (SE) N	21,423 (5,189) 5,293	1.65 (0.31) 51	10.08 (2.02) 51	86.3 (4.9) 51	12,974 (2,833) 5,288	6.10 (1.04) 51	2,126 (266) 335	15.2 (2.0) 335
STATEWIDE	ESTIMATE (SE) N	194,622 (18,398) 5,307	2.18 (0.14) 341	13.42 (1.06) 349	84.2 (2.0) 349	87,633 (7,345) 5,299	6.17 (0.40) 341	14,507 (751) 5,307	6.6 (0.3) 5,307
									PERCENT OF TOTAL LICENSEES

TABLE 5. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF WOODCOCK HUNTING IN MISSISSIPPI DURING THE 1993-94 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	250 (156) 5,303	0.43 (0.27) 8	0.75 (0.41) 8	37.5 (18.3) 8	583 (235) 5,300	1.75 (0.37) 8	333 (118) 51	15.7 (5.1) 51
2	ESTIMATE (SE) N	1,706 (626) 5,303	0.40 (0.16) 9	3.73 (0.82) 11	100.0 (0.0) 11	3,538 (1,533) 5,300	9.44 (3.20) 9	458 (128) 51	21.6 (5.8) 51
3	ESTIMATE (SE) N	166 (166) 5,303	0.10 (0.16) 3	1.33 (1.33) 3	33.3 (33.3) 3	1,665 (1,504) 5,300	13.33 (11.35) 3	125 (72) 51	5.9 (3.3) 51
4	ESTIMATE (SE) N	874 (497) 5,303	0.84 (0.19) 4	5.25 (1.65) 4	100.0 (0.0) 4	1,041 (675) 5,300	6.25 (2.98) 4	166 (83) 51	7.8 (3.8) 51
5	ESTIMATE (SE) N	1,206 (692) 5,303	1.45 (0.48) 8	3.62 (1.75) 8	75.0 (16.4) 8	832 (338) 5,300	2.50 (0.52) 8	333 (118) 51	15.7 (5.1) 51
6	ESTIMATE (SE) N	3,285 (1,052) 5,303	0.56 (0.14) 16	4.65 (1.00) 17	82.4 (9.5) 17	5,827 (2,083) 5,300	8.75 (2.31) 16	707 (171) 51	33.3 (6.7) 51
STATEWIDE	ESTIMATE (SE) N	7,815 (1,518) 5,307	0.54 (0.11) 50	3.42 (0.48) 55	76.4 (5.8) 55	13,564 (3,141) 5,302	6.52 (1.21) 50	2,288 (1307) 5,307	1.0 (0.1) 5,307

TABLE 6. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF RABBIT HUNTING IN MISSISSIPPI DURING THE 1993-94 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	84,375 (9,485) 5,250	1.20 (0.09) 225	8.68 (0.80) 231	85.7 (2.3) 231	65,119 (7,604) 5,217	6.84 (0.66) 225	9,706 (624) 1,289	17.9 (1.1) 1,289
2	ESTIMATE (SE) N	74,280 (11,222) 5,250	1.40 (0.12) 178	9.77 (1.29) 181	86.2 (2.6) 181	53,195 (7,371) 5,217	7.07 (0.83) 178	7,606 (566) 1,289	14.0 (1.0) 1,289
3	ESTIMATE (SE) N	83,409 (13,236) 5,250	2.02 (0.25) 185	10.56 (1.50) 188	88.3 (2.4) 188	39,780 (5,388) 5,217	5.08 (0.58) 185	7,900 (556) 1,289	14.6 (1.0) 1,289
4	ESTIMATE (SE) N	95,174 (10,465) 5,250	1.37 (0.11) 273	8.12 (0.76) 279	90.7 (1.7) 279	68,925 (7,174) 5,217	5.97 (0.51) 273	11,723 (683) 1,289	21.6 (1.1) 1,289
5	ESTIMATE (SE) N	58,743 (7,386) 5,250	1.41 (0.12) 165	8.18 (0.83) 171	91.8 (2.1) 171	39,748 (4,839) 5,217	5.70 (0.54) 165	7,185 (541) 1,289	13.3 (0.9) 1,289
6	ESTIMATE (SE) N	77,190 (9,657) 5,250	1.14 (0.08) 230	7.69 (0.83) 239	87.0 (2.2) 239	62,540 (6,809) 5,217	6.43 (0.57) 230	10,043 (635) 1,289	18.5 (1.1) 1,289
STATEWIDE		488,342 (24,742) 5,307	1.38 (0.05) 1,299	8.73 (0.39) 1,346	88.4 (0.9) 1,346	335,726 (15,660) 5,260	6.18 (0.25) 1,299	55,851 (1,318) 5,307	25.4 (0.6) 5,307
									PERCENT OF TOTAL LICENSEES

TABLE 7. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF SQUIRREL HUNTING IN MISSISSIPPI DURING THE 1993-94 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	174,906 (16,478) 5,209	2.02 (0.13) 345	11.63 (0.92) 355	90.4 (1.6) 355	83,083 (7,155) 5,167	5.64 (0.39) 345	15,034 (770) 2,110	16.8 (0.8) 2,110
2	ESTIMATE (SE) N	140,518 (12,712) 5,209	2.08 (0.15) 291	11.32 (0.80) 293	88.7 (1.9) 293	67,841 (5,740) 5,167	5.46 (0.34) 291	12,409 (704) 2,110	13.9 (0.8) 2,110
3	ESTIMATE (SE) N	185,028 (16,872) 5,209	2.71 (0.20) 294	14.61 (1.05) 288	92.0 (1.6) 288	68,226 (7,050) 5,167	5.44 (0.47) 294	12,663 (711) 2,110	14.2 (0.8) 2,110
4	ESTIMATE (SE) N	252,068 (21,060) 5,209	2.33 (0.16) 441	13.23 (0.93) 450	94.0 (1.1) 450	102,082 (8,608) 5,167	5.42 (0.39) 441	19,058 (858) 2,110	21.3 (0.8) 2,110
5	ESTIMATE (SE) N	186,976 (20,515) 5,209	2.55 (0.21) 314	13.88 (1.33) 318	93.7 (1.4) 318	72,239 (6,941) 5,167	5.39 (0.43) 314	13,467 (732) 2,110	15.1 (0.8) 2,110
6	ESTIMATE (SE) N	254,736 (24,363) 5,209	2.33 (0.14) 383	15.23 (1.26) 395	91.6 (1.4) 395	103,107 (11,176) 5,167	6.31 (0.61) 383	16,728 (809) 2,110	18.7 (0.8) 2,110
STATEWIDE	ESTIMATE (SE) N	1,214,853 (43,639) 5,307	2.30 (0.07) 2,145	13.24 (0.42) 2,208	91.8 (0.8) 2,208	507,881 (18,406) 5,244	5.63 (0.18) 2,145	91,782 (1,483) 5,307	41.6 (0.7) 5,307

TABLE 8. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF RACCOON HUNTING IN MISSISSIPPI DURING THE 1993-94 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	14,818 (3,483) 5,285	0.37 (0.07) 51	6.45 (1.26) 55	90.9 (3.9) 55	37,870 (10,690) 5,266	17.73 (4.39) 51	2,298 (308) 340	16.2 (2.0) 340
2	ESTIMATE (SE) N	19,911 (4,944) 5,285	0.64 (0.15) 49	9.17 (1.91) 52	92.3 (3.7) 52	28,905 (8,571) 5,266	14.08 (3.70) 49	2,171 (300) 340	15.3 (2.0) 340
3	ESTIMATE (SE) N	21,864 (6,173) 5,285	0.86 (0.14) 53	9.27 (2.36) 56	91.1 (3.8) 56	22,622 (5,794) 5,266	10.19 (2.23) 53	2,338 (311) 340	16.5 (2.0) 340
4	ESTIMATE (SE) N	20,495 (4,575) 5,285	0.52 (0.06) 71	6.64 (1.28) 74	89.2 (3.6) 74	30,916 (7,118) 5,266	10.39 (2.07) 71	3,089 (357) 340	21.8 (2.2) 340
5	ESTIMATE (SE) N	13,566 (3,279) 5,285	0.69 (0.12) 46	6.77 (1.33) 48	93.8 (3.5) 48	19,354 (4,888) 5,266	10.04 (2.09) 46	2,004 (288) 340	14.1 (1.9) 340
6	ESTIMATE (SE) N	23,584 (6,205) 5,285	0.51 (0.13) 51	10.27 (2.55) 55	92.7 (3.5) 55	43,526 (13,519) 5,266	20.37 (5.71) 51	2,296 (308) 340	16.2 (2.0) 340
STATEWIDE	ESTIMATE (SE) N	118,594 (12,044) 5,307	0.56 (0.05) 337	7.87 (0.69) 362	90.9 (1.5) 362	188,861 (21,904) 5,282	13.42 (1.39) 337	15,048 (764) 5,307	6.8 (0.3) 5,307

TABLE 9. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF ALL DUCK HUNTING IN MISSISSIPPI DURING THE 1993-94 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	20,259 (5,146) 5,292	1.46 (0.23) 50	9.00 (1.95) 54	83.3 (5.1) 54	13,043 (2,363) 5,277	6.24 (0.72) 50	2,250 (305) 454	11.9 (1.5) 454
2	ESTIMATE (SE) N	63,321 (10,072) 5,292	1.68 (0.13) 99	14.89 (1.87) 102	92.2 (2.7) 102	36,328 (4,767) 5,277	8.78 (0.75) 99	4,250 (417) 454	22.5 (2.0) 454
3	ESTIMATE (SE) N	73,576 (10,503) 5,292	1.90 (0.12) 118	14.47 (1.62) 122	91.8 (2.5) 122	37,749 (4,637) 5,277	7.65 (0.63) 118	5,084 (455) 454	26.9 (2.1) 454
4	ESTIMATE (SE) N	13,048 (2,830) 5,292	1.40 (0.16) 44	6.80 (1.10) 46	80.4 (5.9) 46	8,612 (1,555) 5,277	4.68 (0.48) 44	1,917 (281) 454	10.1 (1.4) 454
5	ESTIMATE (SE) N	29,389 (6,078) 5,292	1.86 (0.15) 60	11.02 (1.84) 64	82.8 (4.8) 64	14,464 (2,457) 5,277	5.77 (0.65) 60	2,667 (331) 454	14.1 (1.6) 454
6	ESTIMATE (SE) N	19,342 (4,062) 5,292	1.27 (0.13) 66	7.03 (1.21) 66	78.8 (5.1) 66	15,259 (2,706) 5,277	5.53 (0.72) 66	2,750 (336) 454	14.5 (1.7) 454

STATEWIDE	ESTIMATE (SE) N	223,014 (37,141) 5,305	1.67 (0.06) 448	11.40 (0.72) 467	86.7 (1.6) 467	126,613 (17,948) 5,288	6.77 (0.30) 448	19,412 (858) 5,307	8.8 (0.4) 5,307

									PERCENT OF TOTAL LICENSEES

TABLE 10. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF MALLARD, WOOD DUCK, AND OTHER DUCK HUNTING IN MISSISSIPPI DURING THE 1993-94 HUNTING SEASON.

MALLARDS						
DISTRICT(1)	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	
1	ESTIMATE (SE) N	10,168 (2,794) 5,294	0.74 (0.14) 50	4.52 (1.09) 54	64.8 (6.6) 54	
2	ESTIMATE (SE) N	41,379 (7,271) 5,294	1.10 (0.11) 99	9.74 (1.43) 102	84.3 (3.6) 102	
3	ESTIMATE (SE) N	46,129 (6,910) 5,294	1.17 (0.09) 118	9.07 (1.09) 122	85.2 (3.2) 122	
4	ESTIMATE (SE) N	3,917 (1,228) 5,294	0.44 (0.11) 44	2.04 (0.57) 46	47.8 (7.4) 46	
5	ESTIMATE (SE) N	11,668 (3,018) 5,294	0.74 (0.12) 60	4.38 (1.00) 64	50.0 (6.3) 64	
6	ESTIMATE (SE) N	3,042 (990) 5,284	0.20 (0.06) 66	1.11 (0.34) 68	27.3 (5.5) 68	
STATEWIDE	ESTIMATE (SE) N	119,217 (10,928) 5,307	0.89 (0.05) 448	6.07 (0.48) 467	65.7 (2.2) 467	

TABLE 10. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF MALLARD, WOOD DUCK, AND OTHER DUCK HUNTING IN MISSISSIPPI DURING THE 1993-94 HUNTING SEASON.

DISTRICT (1)	STATISTIC	MALLARDS					WOOD DUCKS					OTHER DUCKS				
		AVERAGE DAILY KILL	TOTAL HARVEST	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL	TOTAL HARVEST	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL	TOTAL HARVEST	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	
1	ESTIMATE (SE) N	0.74 (0.14) 50	10,168 (2,794) 5,294	4.52 (1.05) 54	64.8 (6.6) 54	7,377 (1,903) 5,293	0.53 (0.09) 50	3.28 (0.73) 54	61.1 (6.7) 54	2,708 (898) 5,293	0.20 (0.05) 50	1.20 (0.37) 54	38.9 (6.7) 54			
		1.10 (0.11) 99	41,379 (6,910) 5,294	9.74 (1.43) 102	84.3 (3.6) 102	9,878 (1,782) 5,293	0.26 (0.04) 99	2.32 (0.35) 102	53.9 (5.0) 102	12,045 (2,617) 5,293	0.32 (0.06) 99	2.83 (0.55) 102	48.0 (5.0) 102			
3	ESTIMATE (SE) N	1.17 (0.08) 118	46,129 (6,910) 5,294	9.07 (1.06) 122	85.2 (3.2) 122	14,628 (2,736) 5,293	0.38 (0.06) 118	2.88 (0.47) 122	51.8 (4.5) 122	12,785 (2,736) 5,293	0.34 (0.06) 118	2.52 (0.42) 122	40.2 (4.5) 122			
		0.44 (0.11) 44	3,917 (5,228) 5,294	2.04 (0.57) 46	47.8 (7.4) 46	7,419 (5,717) 5,293	0.76 (0.11) 44	3.87 (0.70) 46	71.7 (6.7) 46	1,709 (570) 5,293	0.20 (0.05) 44	0.89 (0.27) 46	26.1 (6.5) 46			
5	ESTIMATE (SE) N	0.74 (0.12) 60	11,688 (3,018) 5,294	4.38 (1.00) 64	50.0 (6.3) 64	13,545 (2,893) 5,293	0.83 (0.11) 60	5.08 (0.79) 64	71.9 (5.7) 64	4,168 (1,370) 5,293	0.28 (0.06) 60	1.58 (0.48) 64	21.9 (5.2) 64			
		0.20 (0.06) 66	3,042 (1,980) 5,294	1.11 (0.34) 66	27.3 (5.5) 66	13,670 (3,109) 5,293	0.90 (0.13) 66	4.97 (0.86) 66	95.2 (5.9) 66	2,826 (1,114) 5,293	0.17 (0.06) 66	0.95 (0.39) 66	15.2 (4.4) 66			
STATEWIDE	ESTIMATE (SE) N	0.89 (0.05) 448	119,217 (10,828) 5,307	6.07 (0.48) 487	65.7 (2.2) 487	68,143 (5,823) 5,306	0.51 (0.03) 448	3.47 (0.26) 487	60.2 (2.3) 487	36,337 (4,278) 5,306	0.28 (0.03) 448	1.86 (0.20) 487	33.6 (2.2) 487			

TABLE 11. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF GOOSE HUNTING IN MISSISSIPPI DURING THE 1993-94 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	0 (0) 5,301	0.00 (0.00) 3	0.00 (0.00) 3	0.0 (0.0) 3	250 (177) 5,299	2.00 (1.00) 3	125 (72) 48	6.3 (3.5) 48
2	ESTIMATE (SE) N	1,988 (783) 5,301	0.36 (0.11) 21	2.18 (0.73) 22	68.2 (10.2) 22	5,578 (1,898) 5,299	6.38 (1.71) 21	916 (195) 48	45.8 (7.3) 48
3	ESTIMATE (SE) N	1,373 (627) 5,301	0.69 (0.32) 13	2.54 (0.96) 13	61.5 (14.0) 13	1,988 (796) 5,288	3.69 (1.10) 13	541 (150) 48	27.1 (6.5) 48
4	ESTIMATE (SE) N	250 (156) 5,301	0.30 (0.15) 5	1.00 (0.52) 6	50.0 (22.4) 6	416 (204) 5,299	2.00 (0.45) 5	250 (102) 48	12.5 (4.8) 48
5	ESTIMATE (SE) N	125 (125) 5,301	0.38 (0.56) 2	1.50 (1.50) 2	50.0 (50.0) 2	333 (263) 5,299	4.00 (2.00) 2	83 (59) 48	4.2 (2.6) 48
6	ESTIMATE (SE) N	375 (336) 5,301	0.28 (0.43) 2	4.50 (3.50) 2	100.0 (0.0) 2	1,332 (1,177) 5,299	16.00 (12.00) 2	83 (59) 48	4.2 (2.9) 48

STATEWIDE	ESTIMATE (SE) N	4,240 (1,078) 5,301	0.40 (0.10) 50	1.89 (0.41) 54	57.4 (6.8) 54	10,108 (2,398) 5,303	4.86 (0.94) 50	2,245 (304) 5,307	1.0 (0.1) 5,307

								PERCENT OF TOTAL LICENSEES	

TABLE 12. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF RED FOX HUNTING IN MISSISSIPPI DURING THE 1993-94 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	208 (110) 5,305	0.06 (0.05) 6	0.83 (0.31) 6	66.7 (21.1) 6	3,746 (2,786) 5,300	15.00 (10.21) 6	250 (102) 34	17.6 (6.6) 34
2	ESTIMATE (SE) N	166 (83) 5,305	0.04 (0.04) 5	0.67 (0.21) 6	66.7 (21.1) 6	3,455 (2,428) 5,300	16.60 (10.06) 5	250 (102) 34	17.6 (6.6) 34
3	ESTIMATE (SE) N	125 (83) 5,305	1.50 (0.50) 2	1.50 (0.50) 2	100.0 (0.0) 2	83 (59) 5,300	1.00 (0.00) 2	83 (59) 34	5.9 (4.1) 34
4	ESTIMATE (SE) N	333 (144) 5,305	0.09 (0.05) 7	1.00 (0.27) 8	75.0 (16.4) 8	2,872 (1,535) 5,300	9.86 (4.53) 7	333 (118) 34	23.5 (7.4) 34
5	ESTIMATE (SE) N	166 (83) 5,305	1.00 (0.00) 2	1.00 (0.00) 4	100.0 (0.0) 4	83 (59) 5,300	1.00 (0.00) 2	166 (83) 34	11.8 (5.6) 34
6	ESTIMATE (SE) N	291 (138) 5,305	0.08 (0.08) 7	0.88 (0.30) 8	62.5 (18.8) 8	2,914 (2,041) 5,300	10.00 (6.37) 7	333 (118) 34	23.5 (7.4) 34
STATEWIDE	ESTIMATE (SE) N	1,372 (278) 5,307	0.08 (0.03) 29	0.92 (0.11) 36	75.0 (7.3) 36	13,453 (4,525) 5,300	10.90 (3.21) 29	1,496 (248) 5,307	0.7 (0.1) 5,307

TABLE 13. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF GRAY FOX HUNTING IN MISSISSIPPI DURING THE 1993-94 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	83 (59) 5,305	0.03 (0.04) 4	0.50 (0.29) 4	50.0 (28.9) 4	3,038 (2,714) 5,300	18.25 (15.60) 4	166 (83) 32	12.5 (5.9) 32
2	ESTIMATE (SE) N	208 (138) 5,305	0.04 (0.04) 4	1.00 (0.55) 5	60.0 (24.5) 5	4,204 (2,566) 5,300	25.25 (10.21) 4	208 (93) 32	15.6 (6.5) 32
3	ESTIMATE (SE) N	42 (42) 5,305	1.00 () 1	1.00 () 1	100.0 () 1	42 (42) 5,300	1.00 () 1	42 (42) 32	3.1 (3.1) 32
4	ESTIMATE (SE) N	291 (110) 5,305	0.17 (0.13) 7	0.88 (0.13) 8	87.5 (12.8) 8	1,498 (1,031) 5,300	5.14 (3.20) 7	333 (118) 32	25.0 (7.8) 32
5	ESTIMATE (SE) N	208 (110) 5,305	0.43 (0.24) 3	1.25 (0.25) 4	100.0 (0.0) 4	291 (216) 5,300	2.33 (1.33) 3	166 (83) 32	12.5 (5.9) 32
6	ESTIMATE (SE) N	582 (353) 5,305	0.06 (0.05) 8	1.40 (0.76) 10	60.0 (16.3) 10	3,413 (2,087) 5,300	10.25 (5.47) 8	416 (131) 32	31.3 (8.3) 32

STATEWIDE	ESTIMATE (SE) N	1,496 (419) 5,307	0.07 (0.03) 28	1.06 (0.24) 34	73.5 (7.7) 34	12,734 (4,410) 5,301	10.93 (3.23) 28	1,413 (242) 5,307	0.6 (0.1) 5,307

TABLE 14. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF BOBCAT HUNTING IN MISSISSIPPI DURING THE 1993-94 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	708 (191) 5,298	0.16 (0.09) 11	1.00 (0.13) 11	87.5 (8.5) 16	2,388 (1,420) 5,265	5.18 (2.79) 11	666 (166) 130	12.3 (2.9) 130
2	ESTIMATE (SE) N	999 (228) 5,298	0.34 (0.09) 19	1.05 (0.10) 22	90.9 (6.3) 22	2,346 (1,866) 5,265	2.95 (0.88) 19	916 (195) 130	16.9 (3.3) 130
3	ESTIMATE (SE) N	1,124 (508) 5,298	0.30 (0.17) 13	1.50 (0.60) 18	77.8 (10.1) 18	1,257 (660) 5,265	2.31 (1.07) 13	749 (176) 130	13.8 (3.0) 130
4	ESTIMATE (SE) N	1,374 (303) 5,298	0.27 (0.12) 18	1.32 (0.13) 25	96.0 (4.0) 25	3,520 (1,800) 5,265	4.67 (2.18) 18	1,041 (208) 130	19.2 (3.5) 130
5	ESTIMATE (SE) N	1,624 (355) 5,298	0.20 (0.07) 23	1.30 (0.16) 30	96.7 (3.3) 30	5,740 (2,124) 5,265	5.96 (1.86) 23	1,249 (227) 130	23.1 (3.7) 130
6	ESTIMATE (SE) N	915 (242) 5,298	0.22 (0.17) 13	1.16 (0.16) 19	89.5 (7.2) 19	2,682 (2,022) 5,265	4.92 (3.59) 13	791 (181) 130	14.6 (3.1) 130
STATEWIDE	ESTIMATE (SE) N	7,565 (935) 5,307	0.27 (0.06) 100	1.29 (0.12) 139	91.4 (2.4) 139	18,132 (3,872) 5,268	4.33 (0.82) 100	5,778 (484) 5,307	2.6 (0.2) 5,307

TABLE 15. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF COYOTE HUNTING IN MISSISSIPPI DURING THE 1993-94 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	8,514 (1,870) 5,286	0.18 (0.05) 52	3.08 (0.57) 66	84.8 (4.4) 66	30,055 (9,752) 5,204	13.63 (4.04) 52	2,754 (337) 346	19.1 (2.1) 346
2	ESTIMATE (SE) N	8,597 (1,933) 5,286	0.34 (0.07) 54	2.82 (0.55) 73	82.2 (4.5) 73	18,567 (4,444) 5,204	8.11 (1.62) 54	3,047 (354) 346	21.1 (2.2) 346
3	ESTIMATE (SE) N	8,681 (3,559) 5,286	0.38 (0.14) 36	4.33 (1.68) 48	93.8 (3.5) 48	8,139 (2,371) 5,204	5.33 (1.28) 36	2,003 (288) 346	13.8 (1.8) 346
4	ESTIMATE (SE) N	5,551 (901) 5,286	0.21 (0.06) 52	1.77 (0.21) 74	89.2 (3.6) 74	18,567 (5,570) 5,204	8.42 (2.27) 52	3,088 (357) 346	21.4 (2.2) 346
5	ESTIMATE (SE) N	3,297 (853) 5,286	0.19 (0.04) 33	1.98 (0.41) 40	87.5 (5.3) 40	12,929 (4,282) 5,204	9.24 (2.65) 33	1,669 (263) 346	11.6 (1.7) 346
6	ESTIMATE (SE) N	2,963 (605) 5,286	0.09 (0.06) 37	1.56 (0.23) 45	80.0 (6.0) 45	25,435 (15,748) 5,204	16.22 (9.82) 37	1,878 (278) 346	13.0 (1.8) 346

STATEWIDE	ESTIMATE (SE) N	39,365 (4,660) 5,307	0.21 (0.04) 273	2.57 (0.38) 367	86.6 (1.8) 367	114,892 (20,374) 5,213	9.95 (1.67) 273	15,255 (1,768) 5,307	6.9 (0.3) 5,307

								PERCENT OF TOTAL LICENSEES	

TABLE 16. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF ARCHERY DEER HUNTING IN MISSISSIPPI DURING THE 1993-94 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	3,829 (536) 5,042	0.054 (0.006) 173	0.63 (0.08) 180	36.7 (3.6) 180	64,659 (6,126) 5,004	10.95 (0.64) 173	6,089 (446) 1,188	15.2 (1.0) 1,188
2	ESTIMATE (SE) N	5,421 (810) 5,042	0.078 (0.008) 174	0.88 (0.11) 182	46.2 (3.7) 182	58,685 (5,872) 5,004	9.88 (0.66) 174	6,156 (488) 1,188	15.3 (1.0) 1,188
3	ESTIMATE (SE) N	4,201 (649) 5,042	0.073 (0.009) 151	0.80 (0.11) 155	41.3 (4.0) 155	55,203 (5,579) 5,004	10.71 (0.68) 151	5,252 (415) 1,188	13.0 (1.0) 1,188
4	ESTIMATE (SE) N	6,878 (732) 5,042	0.060 (0.005) 264	0.74 (0.07) 273	42.1 (3.0) 273	105,523 (8,426) 5,004	11.71 (0.62) 264	9,250 (545) 1,188	23.0 (1.2) 1,188
5	ESTIMATE (SE) N	7,996 (867) 5,042	0.083 (0.007) 226	1.03 (0.09) 230	50.9 (3.3) 230	93,336 (7,442) 5,004	12.10 (0.56) 226	7,783 (502) 1,188	19.4 (1.1) 1,188
6	ESTIMATE (SE) N	3,388 (527) 5,042	0.046 (0.006) 162	0.60 (0.08) 168	33.9 (3.7) 168	68,892 (7,812) 5,004	12.46 (1.04) 162	5,692 (432) 1,188	14.1 (1.0) 1,188

STATEWIDE	ESTIMATE (SE) N	32,971 (1,878) 5,088	0.068 (0.003) 1,179	0.80 (0.04) 1,234	42.9 (1.4) 1,234	453,434 (16,075) 5,033	11.33 (0.28) 1,179	41,432 (1,027) 5,088	24.3 (0.6) 5,088

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

TABLE 17. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF ARCHERY BUCK AND DISTRICT BUCKS DURING THE 1993-94 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	RANGE DAILY KILL	PERCENT SUCCESSFUL HUNTERS
1	ESTIMATE (SE) N	1,796 (315) 5,042	0.026 (0.004) 173	0.29 (0.05) 180	22.2 (3.1) 180	1.33 (1.04) 180	27.2 (3.3) 180
2	ESTIMATE (SE) N	2,507 (438) 5,042	0.037 (0.005) 174	0.41 (0.06) 182	26.9 (3.3) 182	1.47 (1.07) 182	34.1 (3.5) 182
3	ESTIMATE (SE) N	1,660 (350) 5,042	0.028 (0.006) 151	0.32 (0.06) 155	20.0 (3.2) 155	1.48 (1.06) 155	33.5 (3.8) 155
4	ESTIMATE (SE) N	3,354 (435) 5,042	0.030 (0.003) 264	0.36 (0.04) 273	27.1 (2.7) 273	1.38 (1.04) 273	28.2 (2.7) 273
5	ESTIMATE (SE) N	3,829 (505) 5,042	0.040 (0.005) 226	0.49 (0.06) 230	32.2 (3.1) 230	1.53 (1.05) 230	37.4 (3.2) 230
6	ESTIMATE (SE) N	1,626 (298) 5,042	0.022 (0.004) 162	0.28 (0.05) 168	22.0 (3.2) 168	1.31 (1.05) 168	22.6 (3.2) 168
STATEWIDE	ESTIMATE (SE) N	15,310 (958) 5,088	0.031 (0.002) 1,179	0.37 (0.02) 1,234	26.2 (1.3) 1,234	1.43 (1.02) 1,234	30.9 (1.3) 1,234

TABLE 18. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF PRIMITIVE WEAPON DEER HUNTING IN MISSISSIPPI DURING THE 1993-94 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	4,034 (498) 5,040	0.103 (0.011) 195	0.60 (0.06) 200	41.0 (3.5) 200	37,328 (3,192) 4,993	5.59 (0.27) 195	6,779 (470) 1,340	14.9 (1.0) 1,340
2	ESTIMATE (SE) N	4,881 (559) 5,040	0.121 (0.013) 204	0.67 (0.06) 214	44.9 (3.4) 214	35,925 (3,009) 4,993	5.15 (0.25) 204	7,254 (485) 1,340	16.0 (1.0) 1,340
3	ESTIMATE (SE) N	5,118 (557) 5,040	0.138 (0.012) 193	0.76 (0.06) 200	53.5 (3.5) 200	34,898 (2,890) 4,993	5.28 (0.23) 193	6,779 (470) 1,340	14.9 (1.0) 1,340
4	ESTIMATE (SE) N	5,627 (574) 5,040	0.117 (0.010) 252	0.63 (0.05) 263	45.2 (3.1) 263	44,170 (3,241) 4,993	5.12 (0.21) 252	8,914 (535) 1,340	19.6 (1.1) 1,340
5	ESTIMATE (SE) N	7,152 (680) 5,040	0.133 (0.010) 270	0.76 (0.06) 276	49.6 (3.0) 276	51,287 (3,659) 4,993	5.55 (0.22) 270	9,355 (548) 1,340	20.6 (1.1) 1,340
6	ESTIMATE (SE) N	3,491 (438) 5,040	0.088 (0.010) 179	0.55 (0.06) 187	39.6 (3.6) 187	35,754 (3,248) 4,993	5.84 (0.31) 179	6,338 (455) 1,340	14.0 (0.9) 1,340
STATEWIDE	ESTIMATE (SE) N	31,292 (1,326) 5,088	0.116 (0.004) 1,331	0.67 (0.02) 1,388	46.0 (1.3) 1,388	245,703 (7,368) 5,031	5.44 (0.10) 1,331	46,602 (1,067) 5,088	27.3 (0.6) 5,088

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

TABLE 19. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF PRIMITIVE WEAPON BUCK AND DOE HUNTING IN MISSISSIPPI DURING THE 1983-94 HUNTING SEASON.

DISTRICT	STATISTIC	BUCKS				DOES			
		TOTAL HARVEST	AVERAGE DAILY KILL (SE) N	AVERAGE SEASONAL HARVEST (SE) N	PERCENT SUCCESSFUL HUNTERS (SE) N	TOTAL HARVEST	AVERAGE DAILY KILL (SE) N	AVERAGE SEASONAL HARVEST (SE) N	PERCENT SUCCESSFUL HUNTERS (SE) N
1	ESTIMATE (SE) N	1 593 (255) 5,040	0.042 (0.006) 195	0.24 (0.03) 200	21.0 (2.9) 200	2 440 (354) 5,040	0.060 (0.008) 195	0.36 (0.05) 200	29.5 (3.2) 200
2	ESTIMATE (SE) N	2 305 (324) 5,040	0.056 (0.008) 204	0.32 (0.04) 214	27.1 (3.0) 214	2 576 (354) 5,040	0.065 (0.008) 204	0.36 (0.04) 214	29.0 (3.1) 214
3	ESTIMATE (SE) N	1 932 (288) 5,040	0.051 (0.007) 193	0.29 (0.04) 200	25.0 (3.1) 200	3 186 (413) 5,040	0.087 (0.010) 193	0.47 (0.05) 200	37.0 (3.4) 200
4	ESTIMATE (SE) N	2 135 (307) 5,040	0.044 (0.006) 252	0.24 (0.03) 263	20.9 (2.5) 263	3 491 (405) 5,040	0.073 (0.007) 252	0.39 (0.04) 263	31.9 (2.8) 263
5	ESTIMATE (SE) N	2 813 (371) 5,040	0.053 (0.006) 270	0.30 (0.04) 276	23.9 (2.6) 276	4 339 (458) 5,040	0.080 (0.007) 270	0.46 (0.04) 276	36.6 (2.9) 276
6	ESTIMATE (SE) N	1 017 (203) 5,040	0.026 (0.005) 179	0.16 (0.03) 187	14.4 (2.6) 187	2 474 (346) 5,040	0.062 (0.008) 179	0.39 (0.05) 187	31.6 (3.4) 187
STATEWIDE	ESTIMATE (SE) N	12 221 (717) 5,088	0.045 (0.003) 1,331	0.26 (0.01) 1,388	22.4 (1.1) 1,388	19 071 (939) 5,088	0.071 (0.003) 1,331	0.41 (0.02) 1,388	32.8 (1.3) 1,388

TABLE 20. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF REGULAR GUN DEER HUNTING IN MISSISSIPPI DURING THE 1993-94 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	31,428 (2,152) 4,892	0.091 (0.005) 587	1.45 (0.08) 619	60.4 (2.0) 619	323,882 (16,424) 4,679	15.11 (0.50) 587	21,611 (812) 3,783	16.4 (0.6) 3,783
2	ESTIMATE (SE) N	32,720 (1,884) 4,892	0.101 (0.004) 606	1.45 (0.06) 647	62.6 (1.9) 647	300,333 (14,721) 4,679	13.57 (0.42) 606	22,589 (827) 3,783	17.1 (0.6) 3,783
3	ESTIMATE (SE) N	29,298 (1,826) 4,892	0.122 (0.005) 467	1.72 (0.08) 489	72.6 (2.0) 489	232,095 (12,956) 4,679	13.61 (0.47) 467	17,073 (733) 3,783	12.9 (0.5) 3,783
4	ESTIMATE (SE) N	40,787 (1,892) 4,892	0.088 (0.003) 778	1.38 (0.05) 836	65.9 (1.6) 836	427,570 (18,099) 4,679	15.05 (0.40) 778	29,188 (919) 3,783	22.1 (0.7) 3,783
5	ESTIMATE (SE) N	40,019 (2,138) 4,892	0.114 (0.005) 625	1.76 (0.07) 652	71.2 (1.8) 652	344,510 (16,572) 4,679	15.10 (0.46) 625	22,764 (830) 3,783	17.2 (0.6) 3,783
6	ESTIMATE (SE) N	18,648 (1,393) 4,892	0.066 (0.004) 505	0.99 (0.06) 538	48.7 (2.2) 540	253,490 (13,632) 4,679	13.72 (0.46) 506	18,853 (765) 3,783	14.3 (0.6) 3,783
STATEWIDE	ESTIMATE (SE) N	198,133 (4,027) 5,087	0.097 (0.002) 3,681	1.48 (0.03) 3,977	64.2 (0.8) 3,978	1,885,084 (28,149) 4,792	14.36 (0.18) 3,682	133,562 (1,989) 5,088	78.2 (0.6) 5,088

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

TABLE 21. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF REGULAR GUN BUCK AND DOE HUNTING IN MISSISSIPPI DURING THE 1983-94 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 (SE) N	24,265	0.070	1.12	55.1	7,159	0.021	0.33	23.6
		(1,651) 4,893	(0.004) 0.587	(0.06) 619	(2.0) 618	(728) 4,892	(0.002) 0.587	(0.03) 619	(1.7) 618
2	ESTIMATE (SE) N	26,115	0.080	1.16	57.8	6,600	0.021	0.29	22.3
		(1,527) 4,893	(0.004) 0.606	(0.05) 647	(1.9) 647	(611) 4,892	(0.002) 0.606	(0.02) 647	(1.6) 647
3	ESTIMATE (SE) N	20,913	0.088	1.22	62.8	8,381	0.034	0.49	35.8
		(1,362) 4,893	(0.004) 0.467	(0.06) 489	(2.2) 489	(719) 4,892	(0.002) 0.467	(0.04) 489	(2.2) 489
4	ESTIMATE (SE) N	31,457	0.068	1.08	58.3	9,324	0.020	0.32	23.0
		(1,588) 4,893	(0.003) 0.778	(0.04) 836	(1.7) 836	(769) 4,892	(0.002) 0.778	(0.02) 836	(1.5) 836
5	ESTIMATE (SE) N	28,210	0.080	1.24	61.7	11,803	0.034	0.52	35.7
		(1,593) 4,893	(0.004) 0.625	(0.05) 652	(1.9) 652	(923) 4,892	(0.002) 0.625	(0.04) 652	(1.9) 652
6	ESTIMATE (SE) N	15,467	0.054	0.82	44.8	3,213	0.012	0.17	13.5
		(1,171) 4,893	(0.004) 0.506	(0.05) 540	(2.1) 540	(422) 4,892	(0.002) 0.506	(0.02) 539	(1.5) 539
STATEWIDE	ESTIMATE (SE) N	150,552 (3,195) 5,088	0.073 (0.001) 3,682	1.13 (0.02) 3,978	57.3 (0.8) 3,978	47,586 (1,636) 5,087	0.024 (0.001) 3,681	0.36 (0.01) 3,977	25.6 (0.7) 3,977

TABLE 22. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF SPRING TURKEY HUNTING IN MISSISSIPPI DURING THE 1993-94 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	3 832 (590) 4,705	0.113 (0.012) 92	0.89 (0.10) 93	58.1 (5.1) 93	33 520 (4 526) 4,692	7.87 (0.69) 92	4 294 (441) 828	11.2 (1.1) 828
2	ESTIMATE (SE) N	1 754 (374) 4,705	0.081 (0.011) 65	0.58 (0.10) 66	39.4 (6.1) 66	21 066 (3 628) 4,692	7.00 (0.85) 65	3 047 (372) 828	8.0 (0.9) 828
3	ESTIMATE (SE) N	3 694 (570) 4,705	0.118 (0.013) 91	0.86 (0.10) 93	52.7 (5.2) 93	30 372 (4 277) 4,692	7.21 (0.69) 91	4 294 (441) 828	11.2 (1.1) 828
4	ESTIMATE (SE) N	10 296 (982) 4,705	0.098 (0.007) 233	0.95 (0.07) 234	56.0 (3.3) 234	104 402 (9 123) 4,692	9.68 (0.58) 233	10 804 (688) 828	28.3 (1.6) 828
5	ESTIMATE (SE) N	9 650 (984) 4,705	0.112 (0.008) 204	1.00 (0.08) 208	54.8 (3.5) 208	83 337 (7 348) 4,692	8.82 (0.49) 204	9 603 (651) 828	25.1 (1.5) 828
6	ESTIMATE (SE) N	6 048 (835) 4,705	0.105 (0.010) 130	0.98 (0.11) 134	54.5 (4.3) 134	52 363 (6 289) 4,692	8.70 (0.73) 130	6 187 (527) 828	16.2 (1.3) 828
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STATEWIDE	ESTIMATE (SE) N	36 883 (1 832) 4,746	0.105 (0.004) 849	0.93 (0.04) 869	54.1 (1.7) 869	334 856 (14 695) 4,726	8.58 (0.27) 849	39 775 (1 220) 4,746	18.3 (0.6) 4,746

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

TABLE 23. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF FALL TURKEY HUNTING IN MISSISSIPPI DURING THE 1993 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 (SE) N	102 (76) 5,037	0.054 (0.038) 18	0.17 (0.12) 18	11.1 (7.6) 18	1,900 (521) 5,034	3.11 (0.45) 18	610 (144) 52	34.6 (6.7) 52
3	ESTIMATE (SE) N	271 (96) 5,037	0.119 (0.041) 19	0.40 (0.11) 20	40.0 (11.2) 20	2,002 (617) 5,034	3.11 (0.66) 19	678 (151) 52	38.5 (6.8) 52
5	ESTIMATE (SE) N	136 (107) 5,037	0.019 (0.022) 12	0.29 (0.22) 14	14.3 (9.7) 14	1,765 (778) 5,034	4.33 (1.51) 12	475 (127) 52	26.9 (6.2) 52

STATEWIDE	ESTIMATE (SE) N	984 (211) 5,035	0.138 (0.028) 46	0.58 (0.10) 50	48.0 (7.1) 50	6,384 (1,339) 5,031	4.09 (0.62) 46	1,898 (239) 5,035	1.0 (0.1) 5,035

								PERCENT OF TOTAL LICENSEES (B)	

(A) FALL TURKEY HUNTING WAS LEGAL ONLY IN DISTRICTS 1 AND 3.
 (B) CALCULATED AS A PERCENT OF BIG GAME LICENSE HOLDERS ONLY.

TABLE 24 EXPANDED STATEWIDE SUMMARIES OF ALL DEER, BUCK, AND DOE HUNTING IN MISSISSIPPI DURING THE 1993-94 HUNTING SEASON AND ALL TURKEY HUNTING (COMBINING SPRING AND FALL DATA) DURING THE 1993 CALENDAR YEAR IN MISSISSIPPI.

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	262,409	0.093	1.89	66.1	2,611,749	19.06	139,102	81.4
	(SE) N	(5,115) 5,087	(0.002) 3,827	(0.03) 4,142	(0.7) 4,143	(40,786) 4,773	(0.26) 3,828	(831) 5,088	(0.5) 5,088
BUCK	ESTIMATE	178,083	0.063	1.28	58.4				
	(SE) N	(2,638) 5,088	(0.001) 3,828	(0.02) 4,143	(0.8) 4,143				
DOE	ESTIMATE	84,324	0.030	0.61	38.1				
	(SE) N	(2,338) 5,087	(0.001) 3,827	(0.02) 4,142	(0.7) 4,142				
TURKEY	ESTIMATE	37,967	0.049	0.93	53.5	341,239	18.51	41,472	17.8
	(SE) N	(1,845) 901	(0.012) 901	(0.04) 918	(1.6) 918	(14,756)	(4.55) 901	(1,243) 5,158	(0.5) 5,158

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

1. Which of the following birds do you usually hunt?

- 56.7% Dove
- 1.1% Woodcock
- .1% Rail
- 1.7% Geese
- 15.6% Duck
- 35.6% None

How many days do you usually hunt each of the following birds?

Dove

- 5.0% 1 day
- 12.5% 2 days
- 9.4% 3 days
- 6.9% 4 days
- 6.6% 5 days
- 2.8% 6 days
- 1.5% 7 days
- .9% 8 days
- .1% 9 days
- 3.1% 10 days
- .1% 11 days
- .4% 12 days
- .3% 14 days
- .5% 15 days
- .3% 20 days
- .1% 25 days
- .1% 30 days
- 49.1% 0 days

Woodcock

- .1% 1 day
- .1% 2 days
- .1% 4 days
- .1% 5 days
- .1% 10 days
- .1% 15 days
- 99.1% 0 days

Geese

.1% 1 day
.4% 2 days
.2% 3 days
.1% 4 days
.1% 5 days
.1% 10 days
98.6% 0 days

Duck

.8% 1 day
2.1% 2 days
1.4% 3 days
1.2% 4 days
1.6% 5 days
1.0% 6 days
.5% 7 days
.5% 8 days
1.6% 10 days
.4% 12 days
.1% 13 days
.1% 14 days
.6% 15 days
.1% 17 days
.5% 20 days
.1% 25 days
.1% 30 days
87.1% 0 days

2. Which season do you prefer to have the most days to hunt dove?
44.8% First season
8.0% Second season
2.6% Third season
7.0% Don't know
32.7% Don't hunt dove
3. Which dove season option do you prefer?
39.4% A statewide season (current option)
12.9% Two zone option with opening day in the north zone
Labor Day weekend and opening day in the south zone
Sept 24. (Use Hwy 84 as the dividing line for zones.)
10.9% Don't know
32.7% Don't hunt doves

4. How important do you think the following activities are?

Developing wildlife watching areas

- 41.0% Very important
- 24.9% Moderately important
- 18.8% Neutral
- 4.1% Moderately unimportant
- 3.0% Very unimportant
- 7.0% Don't know

Increasing wildlife education programs

- 70.8% Very important
- 19.1% Moderately important
- 5.5% Neutral
- .8% Moderately unimportant
- .7% Very unimportant
- 2.5% Don't know

Increasing research efforts for nongame and endangered species

- 41.9% Very important
- 25.1% Moderately important
- 17.0% Neutral
- 5.5% Moderately unimportant
- 4.0% Very unimportant
- 5.0% Don't know

5. How many deer did you harvest on Public land?

Bucks	Does
89.7% 0	94.8% 0
6.0% 1	3.6% 1
2.6% 2	1.0% 2
.9% 3	.4% 3
.3% 4	.1% 4
.3% 5	

6. How many deer did you harvest on Private land?

Bucks	Does
56.9% 0	74.0% 0
19.4% 1	15.7% 1
11.8% 2	6.2% 2
5.5% 3	3.3% 3
2.8% 4	.5% 4
2.9% 5	.2% 5
.3% 6	
.1% 7	
.1% 8	
.1% 10	

7. Hunting effort on wildlife management areas is declining on some areas. Please check the TWO responses that you believe explain this decline.

- 11.8% Not one in my area
- 45.1% Too dangerous
- 17.0% No designated stands
- 14.5% Don't like management techniques used
- 22.8% Joined club
- 17.0% Illegal hunting
- 19.8% Don't know
- 14.7% No response

8. Which duck season option would you prefer?

- 3.3% 3 Zones: No splits
- 2.0% 3 Splits: No zones
- 2.7% 2 Zones: Split in each zone
- 12.0% No Zones: Split season (current option)
- 10.6% Don't know
- 64.8% Don't duck hunt

9. Which deer bag limit would you prefer?

- 18.0% 5 Bucks and 5 Does
- 34.2% 5 Bucks and 3 Does (Current option)
- 11.9% 4 Bucks and 4 Does
- 23.1% 3 Bucks and 5 Does
- 9.2% Don't know

10. Did you buy a license to hunt deer or turkey in the 1992-93 (last year) hunting season?

90.5% Yes

9.0% No



1993-94 Mississippi Hunter Questionnaire

100028

A. Please fill in the blocks below for each game species you hunted during the 1993-94 hunting season (even if you were unsuccessful). If you hunted more than one kind of game on a particular day, count a day for each type of game you hunted. Report only game taken by you. Your answers will be kept confidential. Please answer the questions in part B., whether you hunted or not.

Species	Total Kill		Total Days Hunted	District Hunted Most
	Bucks	Does		
1 Dove				
2 Quail				
3 Woodcock				
4 Rabbit				
5 Squirrel				
6 Raccoon				
7 Deer (archery)				
8 Deer (prim. weap.)				
9 Deer (gun)				
10 Turkey (spring '93)				
11 Turkey (fall '93)				
12 Ducks	Mallard	Wood	Other	
13 Geese				
14 Red Fox				
15 Gray Fox				
16 Bobcat				
17 Coyote				

Determine district HUNTED MOST from map.

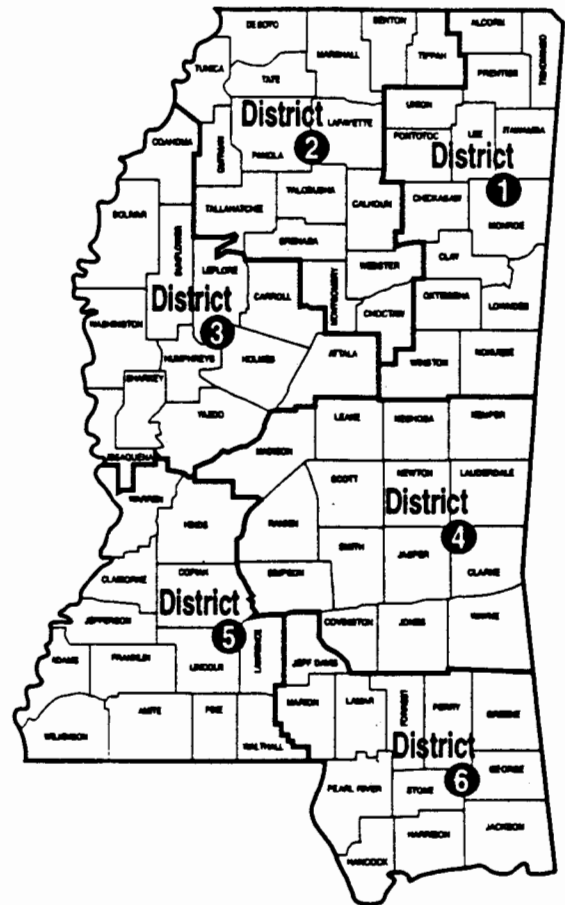


Fig. 1 Questionnaire used for the 1993-94 mail survey of game harvest and hunter effort in Mississippi

Please answer the following questions:

1. Which of the following birds do you usually hunt? (check all that apply)

- Number of days _____
- Dove
- Woodcock
- Rail
- Geese
- Ducks
- None

2. Which season do you prefer to have the most days to hunt dove?

- First season
- Second season
- Third season
- Don't know
- Don't dove hunt

3. Which dove hunting season option do you prefer?

- A statewide season (current option)
- Two zone option with opening day in the north zone Labor Day weekend (Sept. 3) and opening day in the south zone Sept. 24. (Use Hwy 84 as the dividing line for zones).
- Don't know
- Don't dove hunt

4. How important do you think the following activities are?

- Developing wildlife watching areas
- Very important
- Moderately important
- Neutral
- Moderately unimportant
- Very unimportant
- Don't know

Increasing wildlife education programs

- Very important
- Moderately important
- Neutral
- Moderately unimportant
- Very unimportant
- Don't know

Increasing research efforts for nongame and endangered species

- Very important
- Moderately important
- Neutral
- Moderately unimportant
- Very unimportant
- Don't know

5. How many deer did you harvest on PUBLIC land? (if none, put zeros) _____ Bucks _____ Does

6. How many deer did you harvest on PRIVATE land? (if none, put zeros) _____ Bucks _____ Does

7. Hunting effort on wildlife management areas is declining on some areas. Please check the TWO responses that you believe explain this decline.

- Not one in my area
- Too dangerous
- No designated stands
- Don't like management techniques used
- Joined club
- Illegal hunting
- Don't know
- Other _____

8. Which duck season option would you prefer? (Regardless of choice, season cannot extend beyond January 20.)

- 3 Zones: No split season
- 3 Splits: No zones
- 2 Zones: Split in each zone
- No Zones: Split season (current option)
- Don't know
- Don't duck hunt

9. Which deer bag limit would you prefer?

- 5 Bucks and 5 does
- 5 Bucks and 3 does (current option)
- 4 Bucks and 4 does
- 3 Bucks and 5 does
- Don't know

10. Did you buy a license to hunt deer or turkey in the 1992-93 (last year) hunting seasons?

- Yes No

11. Your age: _____ years



**MISSISSIPPI
DEPARTMENT OF WILDLIFE, FISHERIES AND PARKS**

**SAM POLLES, Ph.D.
Executive Director**

Dear Sportsman:

The Department of Wildlife, Fisheries and Parks is conducting a study to obtain reasonable estimates of game harvest, hunter effort and hunter opinions. Information supplied by you and other selected hunters will assist us in managing our game resources for the greatest public benefit.

For meaningful results, information is needed from everyone receiving a questionnaire since only a limited number of sportsmen can be contacted. Please complete the enclosed questionnaire as accurately as possible (even if you did not hunt) and return it in the addressed, stamped envelope.

Your answers will be kept confidential. The questionnaire has an identification number for mailing purposes only. This allows us to check your name off the mailing list when your questionnaire is returned. Your name will never be placed on the questionnaire or used in association with any of the information you provide. A prompt reply will be sincerely appreciated.

Yours for better conservation,

Sam Polles, Ph.D.
Executive Director

SP:ccs

Enclosure Fig. 2 Cover letter mailed with the initial mailing of the 1993-94 survey of game harvest and hunter effort in Mississippi

Survey Section
DEPARTMENT OF WILDLIFE, FISHERIES & PARKS -
P.O. Box 451
Jackson, Mississippi 39205



PRESORTED
FIRST CLASS MAIL
U.S. POSTAGE PAID
PERMIT NO. 141

Dear Sportsman:

Recently we mailed you a questionnaire on your hunting experiences. If you have not yet answered the questionnaire, will you please do so today? If you have already returned the questionnaire, disregard this notice and we thank you very much for your cooperation.

Your response is important. It is the only way we have of estimating the harvest, efforts and opinions of hunters for management purposes.

Sincerely,

A handwritten signature in cursive script that reads "Sam Peller".



**MISSISSIPPI
DEPARTMENT OF WILDLIFE, FISHERIES AND PARKS**

**SAM POLLES, Ph.D
Executive Director**

Dear Sportsman:

About six weeks ago I wrote to you seeking information about your hunting activities during the past season. As of today we have not received your completed questionnaire.

Our research unit has undertaken this project because of the belief that citizen participation should be taken into account in the formation of efforts which will provide the best hunting opportunities for Mississippi Sportsmen.

I am writing to you again because of the significance each questionnaire has to the usefulness of this project. Your name was drawn through a scientific sampling process. In order for the results of the survey to be as complete as possible it is essential that each person in the sample return his questionnaire. Even if you had little success or if you did not hunt at all, your answers are important to us. Please return the survey in the enclosed addressed, stamped envelope so that your response can be included in the results.

Sincerely for better conservation,

A handwritten signature in cursive script that reads "Sam Polles".

Sam Polles, Ph.D.
Executive Director

SP:ccs Fig. 4 Cover letter mailed with the second reminder mailing to nonrespondents during the 1993-94 survey of game harvest and hunter effort in Mississippi

Enclosure

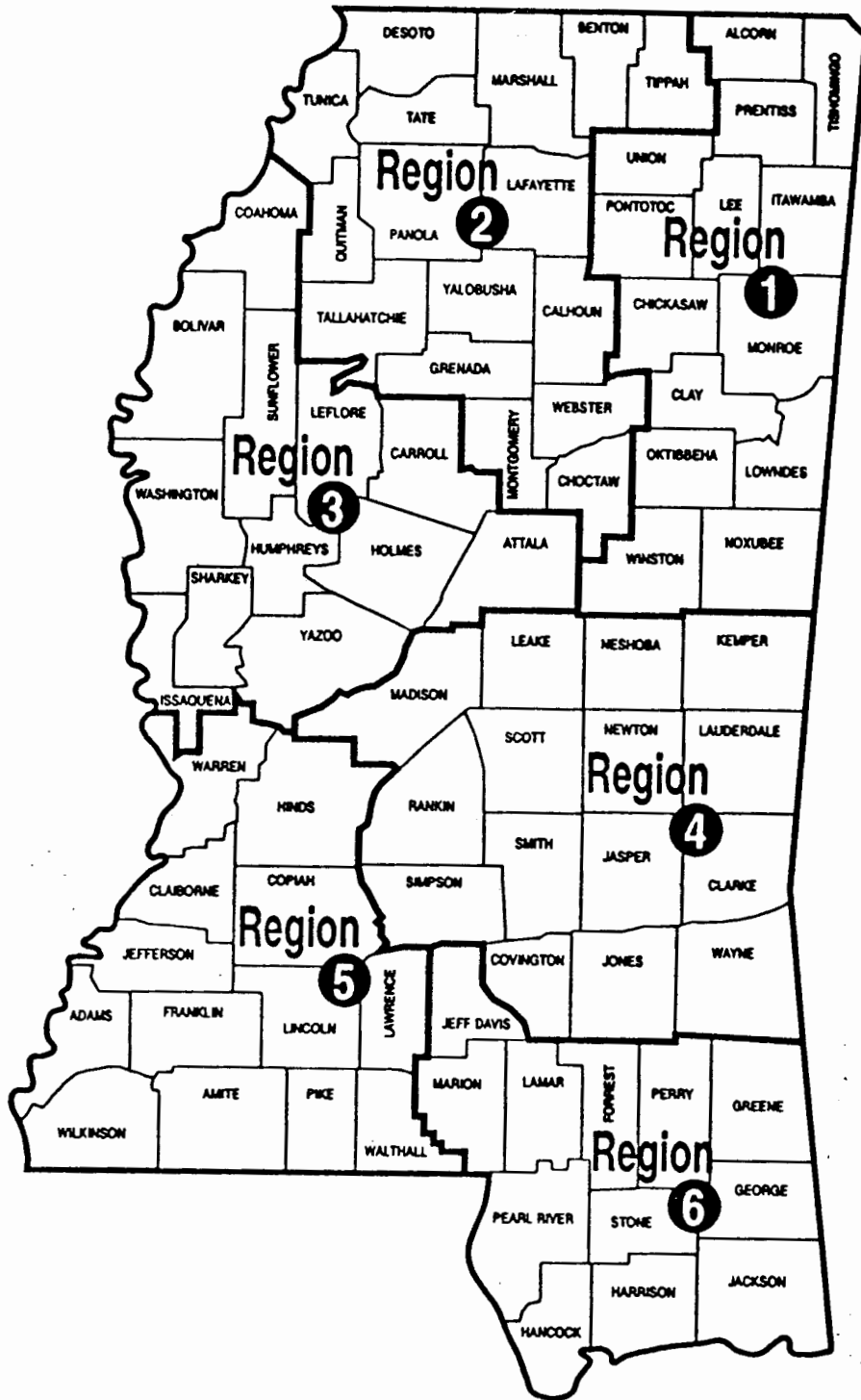


Fig. 5 District partitions for district hunted most