

**MISSISSIPPI MAIL SURVEY OF GAME  
HARVEST AND HUNTER EFFORT FOR 1998-99**

by

**Catherine C. Shropshire**

**Federal Aid Project No. W-48-46**

**Job VI-I**

**Mississippi Department of Wildlife, Fisheries and Parks**

**P. O. Box 451**

**Jackson, Mississippi 39205**

**1999**

## TABLE OF CONTENTS

	Page
TABLE OF CONTENTS .....	2
LIST OF TABLES .....	3
LIST OF FIGURES .....	6
INTRODUCTION .....	7
METHODS .....	8
RESULTS .....	10
DISCUSSION .....	11
ACKNOWLEDGMENTS .....	14
REFERENCES CITED .....	15
TABLES .....	16
FIGURES .....	43

## LIST OF TABLES

Table	Page
1. Expanded statewide summary of the 1998-99 Mississippi mail survey of game harvest based on 206,721 small game license holders and 199,721 big game license holders .....	16
2. Expanded statewide estimates of total harvest (and the variability of the estimates) for all game species in Mississippi during the 1998-99 hunting season .....	17
3. Expanded statewide and district summaries of <b>DOVE</b> hunting in Mississippi during the 1998-99 hunting season .....	18
4. Expanded statewide and district summaries of <b>QUAIL</b> hunting in Mississippi during the 1998-99 hunting season .....	19
5. Expanded statewide and district summaries of <b>WOODCOCK</b> hunting in Mississippi during the 1998-99 hunting season .....	20
6. Expanded statewide and district summaries of <b>RABBIT</b> hunting in Mississippi during the 1998-99 hunting season .....	21
7. Expanded statewide and district summaries of <b>SQUIRREL</b> hunting in Mississippi during the 1998-99 hunting season .....	22
8. Expanded statewide and district summaries of <b>RACCOON</b> hunting in Mississippi during the 1998-99 hunting season .....	23
9. Expanded statewide and district summaries of <b>ALL DUCK</b> hunting in Mississippi during the 1998-99 hunting season .....	24
10. Expanded statewide and district summaries of <b>MALLARD, WOOD DUCK</b> and <b>OTHER DUCK</b> hunting in Mississippi during the 1998-99 hunting season .....	25

Table	Page
11. Expanded statewide and district summaries of <b>GOOSE</b> hunting in Mississippi during the 1998-99 hunting season .....	26
12. Expanded statewide and district summaries of <b>RED FOX</b> hunting in Mississippi during the 1998-99 hunting season .....	27
13. Expanded statewide and district summaries of <b>GRAY FOX</b> hunting in Mississippi during the 1998-99 hunting season .....	28
14. Expanded statewide and district summaries of <b>BOBCAT</b> hunting in Mississippi during the 1998-99 hunting season .....	29
15. Expanded statewide and district summaries of <b>COYOTE</b> hunting in Mississippi during the 1998-99 hunting season .....	30
16. Expanded statewide and district summaries of <b>ARCHERY DEER</b> hunting in Mississippi during the 1998-99 hunting season .....	31
17. Expanded statewide and district summaries of <b>ARCHERY BUCK</b> and <b>DOE</b> hunting in Mississippi during the 1998-99 hunting season .....	32
18. Expanded statewide and district summaries of <b>PRIMITIVE WEAPON DEER</b> hunting in Mississippi during the 1998-99 hunting season .....	33
19. Expanded statewide and district summaries of <b>PRIMITIVE WEAPON BUCK</b> and <b>DOE</b> hunting in Mississippi during the 1998-99 hunting season .....	34
20. Expanded statewide and district summaries of <b>REGULAR GUN DEER</b> hunting in Mississippi during the 1998-99 hunting season .....	35
21. Expanded statewide and district summaries of <b>REGULAR GUN BUCK</b> and <b>DOE</b> hunting in Mississippi during the 1998-99 hunting season .....	36
22. Expanded statewide and district summaries of <b>SPRING TURKEY</b> hunting in Mississippi during the 1998 hunting season .....	37
23. Expanded statewide and district summaries of <b>FALL TURKEY</b> hunting in Mississippi during the 1998 hunting season .....	38

Table	Page
24. Expanded statewide summaries of <b>ALL DEER, BUCK</b> and <b>DOE</b> hunting (combining all harvest methods) during the 1998-99 hunting season and <b>ALL TURKEY</b> hunting (combining spring and fall data) during the 1998 calendar year .....	39
25. Summary of responses to opinion questions .....	40

LIST OF FIGURES

Figure	Page
1. Questionnaire used for the 1998-99 mail survey of game harvest and hunter effort in Mississippi .....	43
2. Cover letter mailed with the initial mailing of the 1998-99 survey of game harvest and hunter effort in Mississippi .....	47
3. Post card used as the first reminder mailing to nonrespondents during the 1998-99 survey of game harvest and hunter effort in Mississippi .....	48
4. Cover letter mailed with the second (and final) reminder mailing to non-respondents during the 1998-99 survey of game harvest and hunter effort in Mississippi .....	49
5. District partitions utilized for district hunted most .....	50

## 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 allow 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 1998-99 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 03 - Small Game Hunting and Fishing licenses purchased during the 1998-99 license year. A 6.00 percent random sample of these hunting license buyers was selected from the 197,564 licenses processed from July 1, 1998 - February 4, 1999.

An initial sample of 5,240 Type 00, 6,267 Type 01 and 346 Type 03 license holders was selected. All Types were combined into a single computer file for mailing purposes. Incorrect zip codes and bad addresses were deleted from the file, resulting in 11,853 names on the file.

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 29, 1999 to the 11,853 sampled hunters. Three weeks after the initial mailing reminder post cards (Figure 3) were mailed to 7,882 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 7,461 nonrespondents. First mailing questionnaires were given identification numbers from 100,001 to



111,853 while the final mailing was given a 200,000 numbering sequence to differentiate responses between mailings. Questionnaires returned after July 12 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 1998-99 survey obtained information about two different license years. Turkey harvest indices were partially calculated from hunters who hunted during the spring 1998 turkey season which was the 97/98 license year. Indices for other species were determined for the 1998-99 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 1998 turkey indices were calculated based on the respondents who also purchased a big game license during the previous July 1, 1997 - June 30, 1998 fiscal year.

Estimates and standard errors of total turkey and man-days of effort were calculated as a linear combination of the spring 1998 estimates plus the fall 1998 estimates. The computer programs were altered to reflect these changes. All other calculations follow Steffen 1981.

## RESULTS

Based on all three mailings, 1,518 (12.8%) of the 11,853 questionnaires were returned as non-deliverable by the post office. Therefore 10,335 individuals were assumed to have been contacted to participate in the survey. Of these 4,847 (46.9%) returned their questionnaires for possible analysis and 5,488 (53.1%) were nonresponses.

Statewide expansions were calculated based on the 206,721 total hunting licenses sold and accounted for by the July 6, 1999. There existed 206,721 individuals licensed to hunt small game and 199,825 (Types 00 +01) of these license holders also were eligible to pursue big game (deer and turkey) during the 1998-99 hunting seasons. The spring, 1998 turkey hunting estimates were based on the 200,069 big game license holders accounted for in the 1997-98 license sales totals.

Based on the 4,759 usable responses,  $91.4 \pm 0.51$  (SE) percent of all resident license holders actually participated in a hunting activity during the 1998-99 hunting season. Therefore an estimated  $188,943 \pm 840$  (SE) license buyers 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

For comparison purposes, it should be noted that not all districts had the same doe opportunity on private lands during the deer season. In District 1 doe hunting was closed from December 16 - January 20 in Alcorn, Itawamba, Lee, Pontotoc, Prentiss, Tippah, Tishomingo, and Union counties. In District 4 doe hunting was closed from December 16 - January 20 in Covington, Scott and Smith counties. All of District 6 which includes the counties of Forrest, George, Greene, Hancock, Harrison, Jackson, Lamar, Pearl River, Perry, and Stone was closed to doe harvest from December 24 - January 20. Other districts were open for doe hunting during all deer seasons.

Harvests showed a decrease for most small game species. Deer harvest declined as expected possibly due to several factors. Warm weather conditions prevailed throughout much of the season, while the December ice storm may have contributed to some decline in hunting

activity. The percentage of bucks harvested increased, possibly reflecting the increased number of four-point bucks in the population. Doe harvest declined perhaps reflecting a reluctance to hunt does coupled with the changing activity patterns as does responded to hunting pressures. Turkey harvest for spring and fall of 1998 showed a slight increase from last year. Spring harvest was up by nearly 5%.

Over 48% of hunters opposed legalizing hunting over bait while 32.6% of hunters supported this measure. Just over 36% of hunters approved of a tagging system for deer and 35% disapproved while 20% of hunters neither approved nor disapproved. Significantly, 41.7% of hunters did not support paying an additional \$10 to implement a tagging program. Only 6.9% of hunters approved of using deer pens for hunting purposes. Over 52% of respondents believed that the quality of deer where they hunted had improved over the last two years.

Tagging of turkeys was supported by 30.7% of hunters with 20.8% supporting paying an additional \$10 to implement this program.

Nearly half of respondents (47.4%) took a youth under the age of 16 hunting.

Management practices on the wildlife management areas was supported by 67.7% of respondents. Over 61% of hunters approved of an earlier opening for quail season with an equivalent earlier closing date.

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 2003-2004 hunting seasons. To avoid changes in biases, attention to the consistency of survey methodology should be continued in future surveys.

ACKNOWLEDGEMENTS

This survey could not have been accomplished without the conscientious efforts of many MDWFP personnel from all divisions. Appreciation is extended to J. Gambel, B. Sessums, C. Thomas and C. Thornhill for technical expertise and S. Adcock, M. Berry, B. Ellison, R. Norell, R. Spencer, and J. Tindall for help with mailing preparation. Special thanks is due to Dene Smith for data entry, mailing preparation and record maintenance.

### REFERENCES CITED

- Filion, F.L. 1980 Human surveys in wildlife management. Pages 441-453 in S.D. Schemnitz, ed. Wildlife techniques manual. 4th ed. rev. The Wildl. Soc., Washington, D.C. 686 pp.
- Steffen, D.E. 1981. Mississippi mail survey of game harvest and hunter effort for 1980-81. Miss. Dept. Wildl. Cons., Fed. Aid Proj. No. W-48-28, Job VI-a. 87 pp.
- Steffen, D.E. 1983a. Mississippi mail survey of game harvest and hunter effort for 1982-83. Miss. Dept. Wildl. Cons., Fed. Aid Proj. No. W-48-28, VI-1. 40 pp.
- Steffen, D.E. 1983b. Trends in Mississippi game harvest and hunter effort: a summary of mail survey information. Miss. Dept. Wildl. Cons. 29 pp.

TABLE 1. EXPANDED STATEWIDE SUMMARY OF THE 1998-99 MISSISSIPPI MAIL SURVEY OF GAME HARVEST BASED ON 206,721 SMALL GAME LICENSE HOLDERS AND 199,825 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
DOVE	1,492,879	6.33	19.95	92.2	232,731	3.13	75,262	36.4
QUAIL	140,233	2.10	12.91	82.8	65,193	6.16	10,987	5.3
WOODCOCK	4,736	0.84	3.52	80.6	5,736	4.40	1,433	0.7
RABBIT	384,813	1.36	8.80	87.8	279,297	6.55	44,254	21.4
SQUIRREL	901,099	2.19	12.05	90.3	400,384	5.46	75,392	36.5
RACCOON	127,424	0.60	11.06	94.0	185,940	17.38	11,726	5.7
ALL DUCKS	552,797	1.90	18.73	90.1	289,680	9.93	30,226	14.6
MALLARD	274,742	0.93	9.27	74.7				
WOOD DUCK	104,079	0.36	3.51	55.7				
OTHER DUCKS	173,494	0.59	5.83	57.5				
GEESE	21,072	0.77	3.88	75.2	26,950	5.38	5,515	2.7
RED FOX	1,217	0.04	0.97	62.1	25,574	24.50	1,346	0.7
GRAY FOX	1,998	0.07	1.77	65.4	24,046	26.33	1,173	0.6
BOBCAT	9,817	0.22	1.46	89.7	34,505	6.41	6,775	3.3
COYOTE	36,076	0.13	2.75	84.1	234,802	23.32	13,289	6.4
TOTAL DEER	276,361	0.088	1.71	64.5	2,940,096	18.54	161,650	80.9
BUCK	142,027	0.045	0.88	49.1				
DOE	133,565	0.043	0.83	43.2				
ARCHERY DEER	32,334	0.053	0.67	39.7	545,841	11.86	48,633	24.3
BUCK	10,347	0.017	0.21	17.4				
DOE	21,978	0.036	0.45	31.9				
PRIMITIVE DEER	19,339	0.085	0.45	34.2	207,211	5.00	43,899	22.0
BUCK	8,243	0.036	0.19	16.9				
DOE	11,089	0.048	0.25	21.5				
GUN DEER	223,809	0.097	1.44	62.8	2,177,107	14.22	156,357	78.2
BUCK	123,134	0.052	0.79	47.6				
DOE	100,086	0.044	0.64	37.8				
TOTAL TURKEY	32,809	0.156	2.97	46.1	341,482		45,626	19.4
SPRING 1998	32,017	0.090	0.74	46.1	332,601	8.02	43,384	21.7
FALL 1998	791	0.086	0.36	32.0	8,881	4.04	2,242	1.1

(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 1998-99 HUNTING SEASON.

SPECIES	TOTAL HARVEST	STANDARD ERROR		95% CONFIDENCE INTERVAL	
		SE	AS % OF TOTAL (A)	LOWER LIMIT	UPPER LIMIT
DOVE	1,492,879	51,786	3.5	1,389,307	1,596,451
QUAIL	140,233	20,787	14.8	98,659	181,807
WOODCOCK	4,736	1,308	27.6	2,120	7,352
RABBIT	384,813	27,366	7.1	330,081	439,545
SQUIRREL	901,099	33,731	3.7	833,637	968,561
RACCOON	127,424	17,722	13.9	91,980	162,868
ALL DUCKS	552,797	35,918	6.5	480,961	624,633
MALLARD	274,742	19,086	6.9	236,570	312,914
WOOD DUCK	104,079	10,997	10.6	82,085	126,073
OTHER DUCKS	173,494	14,564	8.4	144,366	202,622
GEESE	21,072	4,789	22.7	11,494	30,650
RED FOX	1,217	476	39.1	265	2,169
GRAY FOX	1,998	1,112	55.7	-226	4,222
BOBCAT	9,817	1,942	19.8	5,933	13,701
COYOTE	36,076	6,197	17.2	23,682	48,470
TOTAL DEER	276,361	5,688	2.1	264,985	287,737
BUCK	142,027	3,320	2.3	135,387	148,667
DOE	133,565	3,492	2.6	126,581	140,549
ARCHERY DEER	32,334	1,738	5.4	28,858	35,810
BUCK	10,347	804	7.8	8,739	11,955
DOE	21,978	1,262	5.7	19,454	24,502
PRIMITIVE DEER	19,339	1,131	5.8	17,077	21,601
BUCK	8,243	653	7.9	6,937	9,549
DOE	11,089	787	7.1	9,515	12,663
GUN DEER	223,809	4,681	2.1	214,447	233,171
BUCK	123,134	2,934	2.4	117,266	129,002
DOE	100,086	2,866	2.9	94,354	105,818
TOTAL TURKEY	32,809	1,756	5.4	29,297	36,321
SPRING 1998	32,017	1,744	5.4	28,529	35,505
FALL 1998	791	206	26.0	379	1,203

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

TABLE 3. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF DOVE HUNTING IN MISSISSIPPI DURING THE 1998-99 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE			TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
							SEASONAL DAYS HUNTING	SEASONAL HUNTING	SEASONAL HUNTING		
1	ESTIMATE	275,613	5.94	17.51	90.5	45,835	2.92	15,952	21.5	1,690	21.5
	(SE)	(20,712)	(0.27)	(0.97)	(1.6)	(3,128)	(0.13)	(803)	(1.0)		
	N	4,702	353	358	358	4,695	357	1,690	1,690		
2	ESTIMATE	173,264	5.78	18.33	91.2	29,544	3.18	9,466	12.8	1,690	12.8
	(SE)	(18,461)	(0.49)	(1.53)	(1.9)	(2,745)	(0.20)	(629)	(0.8)		
	N	4,702	211	215	215	4,695	211	1,690	1,690		
3	ESTIMATE	384,074	6.45	23.30	93.1	59,705	3.63	16,522	22.3	1,690	22.3
	(SE)	(30,512)	(0.29)	(1.45)	(1.3)	(4,492)	(0.21)	(816)	(1.0)		
	N	4,702	372	375	375	4,695	374	1,690	1,690		
4	ESTIMATE	343,099	6.60	19.13	94.1	52,176	2.90	18,012	24.3	1,690	24.3
	(SE)	(25,311)	(0.29)	(1.08)	(1.2)	(3,474)	(0.14)	(849)	(1.0)		
	N	4,702	407	408	408	4,695	409	1,690	1,690		
5	ESTIMATE	130,091	6.94	21.76	92.6	17,700	2.98	6,004	8.1	1,690	8.1
	(SE)	(16,135)	(0.44)	(1.98)	(2.2)	(1,908)	(0.20)	(506)	(0.7)		
	N	4,702	134	136	136	4,695	135	1,690	1,690		
6	ESTIMATE	167,593	6.59	20.83	90.7	25,361	3.16	8,108	10.9	1,690	10.9
	(SE)	(20,869)	(0.54)	(2.11)	(2.2)	(2,566)	(0.22)	(584)	(0.8)		
	N	4,702	181	183	183	4,695	182	1,690	1,690		
STATEWIDE											PERCENT OF TOTAL LICENSEES
	ESTIMATE	1,492,879	6.33	19.95	92.2	232,731	3.13	75,262	36.4		
	(SE)	(51,786)	(0.15)	(0.58)	(0.6)	(7,115)	(0.07)	(1,442)	(0.7)		
	N	4,745	1,693	1,718	1,718	4,729	1,702	4,760	4,760		

TABLE 4. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF QUAIL HUNTING IN MISSISSIPPI DURING THE 1998-99 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	59,853	2.18	15.80	85.1	26,662	7.29	3,828	35.9
	(SE)	(16,714)	(0.46)	(4.10)	(3.8)	(4,520)	(0.96)	(404)	(3.1)
	N	4,749	84	87	87	4,745	84	245	245
2	ESTIMATE	24,420	1.63	11.22	90.0	14,638	6.86	2,175	20.4
	(SE)	(4,750)	(0.36)	(1.52)	(4.3)	(3,799)	(1.50)	(306)	(2.6)
	N	4,749	49	50	50	4,745	49	245	245
3	ESTIMATE	8,706	1.65	9.09	72.7	5,271	5.50	957	9.0
	(SE)	(3,402)	(0.83)	(3.05)	(9.7)	(2,421)	(2.29)	(204)	(1.8)
	N	4,749	22	22	22	4,745	22	245	245
4	ESTIMATE	9,576	2.02	8.46	69.2	4,749	4.19	1,131	10.6
	(SE)	(2,617)	(0.58)	(1.65)	(9.2)	(1,456)	(1.01)	(221)	(2.0)
	N	4,749	26	26	26	4,745	26	245	245
5	ESTIMATE	9,185	2.54	10.05	85.7	3,616	3.95	914	8.6
	(SE)	(2,975)	(0.66)	(2.47)	(7.8)	(1,139)	(0.92)	(199)	(1.8)
	N	4,749	21	21	21	4,745	21	245	245
6	ESTIMATE	24,768	2.87	16.26	77.1	8,713	5.71	1,610	15.1
	(SE)	(10,223)	(0.68)	(6.21)	(7.2)	(2,479)	(1.33)	(264)	(2.3)
	N	4,749	34	35	35	4,745	35	245	245
STATEWIDE	ESTIMATE	140,233	2.10	12.91	82.8	65,193	6.16	10,987	5.3
	(SE)	(20,787)	(0.26)	(1.74)	(2.4)	(7,088)	(0.55)	(672)	(0.3)
	N	4,757	243	250	250	4,750	243	4,760	4,760
PERCENT OF TOTAL LICENSEES									

TABLE 5. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF WOODCOCK HUNTING IN MISSISSIPPI DURING THE 1998-99 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	1,434	2.13	4.71	100.0	652	2.50	304	21.9
	(SE) N	(749) 4,757	(0.22) 6	(1.84) 7	(0.0) 7	(322) 4,756	(0.76) 6	(115) 32	(7.4) 32
2	ESTIMATE	217	1.67	5.00	100.0	130	3.00	43	3.1
	(SE) N	(217) 4,757	(.) 1	(.) 1	(.) 1	(130) 4,756	(.) 1	(43) 32	(3.1) 32
3	ESTIMATE	348	0.80	1.33	66.7	435	1.67	261	18.8
	(SE) N	(184) 4,757	(0.25) 6	(0.49) 6	(21.1) 6	(194) 4,756	(0.33) 6	(106) 32	(7.0) 32
4	ESTIMATE	391	1.29	1.80	60.0	522	2.00	261	18.8
	(SE) N	(278) 4,757	(0.89) 5	(1.11) 5	(24.5) 5	(261) 4,756	(0.63) 6	(106) 32	(7.0) 32
5	ESTIMATE	130	0.75	3.00	100.0	174	4.00	43	3.1
	(SE) N	(130) 4,757	(.) 1	(.) 1	(.) 1	(174) 4,756	(.) 1	(43) 32	(3.1) 32
6	ESTIMATE	2,216	0.57	5.10	90.0	3,781	9.67	478	34.4
	(SE) N	(990) 4,757	(0.25) 9	(1.70) 10	(10.0) 10	(1,567) 4,756	(2.53) 9	(144) 32	(8.5) 32
STATEWIDE	ESTIMATE (SE) N	4,736 (1,308) 4,758	0.84 (0.23) 30	3.52 (0.75) 31	80.6 (7.2) 31	5,736 (1,646) 4,757	4.40 (0.99) 30	1,433 (249) 4,760	0.7 (0.1) 4,760
									PERCENT OF TOTAL LICENSEES

TABLE 6. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF RABBIT HUNTING IN MISSISSIPPI DURING THE 1998-99 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE		TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
							SEASONAL DAYS HUNTING	SEASONAL HUNTERS		
1	ESTIMATE	70,824	1.00	7.91	84.3	68,789	7.81	9,150	21.3	
	(SE) N	(9,219) 4,708	(0.12) 195	(0.88) 204	(2.6) 204	(8,342) 4,691	(0.78) 200	(619) 981	(1.3) 981	
2	ESTIMATE	49,748	1.57	9.85	89.6	33,403	6.53	5,122	11.9	
	(SE) N	(12,670) 4,708	(0.36) 114	(2.35) 115	(2.9) 115	(5,972) 4,691	(1.01) 116	(468) 981	(1.0) 981	
3	ESTIMATE	59,320	1.70	9.45	84.6	35,298	5.64	6,304	14.7	
	(SE) N	(8,786) 4,708	(0.18) 141	(1.17) 143	(3.0) 143	(4,834) 4,691	(0.62) 142	(517) 981	(1.1) 981	
4	ESTIMATE	104,722	1.30	9.39	90.2	79,586	7.28	11,163	26.0	
	(SE) N	(16,501) 4,708	(0.19) 247	(1.37) 254	(1.9) 254	(9,796) 4,691	(0.78) 248	(680) 981	(1.4) 981	
5	ESTIMATE	53,217	2.04	11.43	93.4	25,251	5.62	4,772	11.1	
	(SE) N	(12,027) 4,708	(0.31) 101	(2.35) 106	(2.4) 106	(4,104) 4,691	(0.73) 102	(452) 981	(1.0) 981	
6	ESTIMATE	39,166	1.17	6.15	86.9	33,095	5.29	6,435	15.0	
	(SE) N	(6,314) 4,708	(0.14) 141	(0.86) 145	(2.8) 145	(4,455) 4,691	(0.56) 142	(523) 981	(1.1) 981	
STATEWIDE	ESTIMATE	384,813	1.36	8.80	87.8	279,297	6.55	44,254	21.4	
	(SE) N	(27,366) 4,744	(0.09) 963	(0.58) 1,003	(1.0) 1,003	(15,757) 4,714	(0.32) 973	(1,229) 4,760	(0.6) 4,760	
PERCENT OF TOTAL LICENSEES										

TABLE 7. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF SQUIRREL HUNTING IN MISSISSIPPI DURING THE 1998-99 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	97,769 (9,583) 4,677	1.60 (0.12) 260	8.22 (0.64) 269	89.6 (1.9) 269	61,303 (6,218) 4,640	5.21 (0.43) 264	12,020 (706) 1,671	16.3 (0.9) 1,671
2	ESTIMATE (SE) N	63,338 (7,765) 4,677	2.05 (0.19) 154	9.01 (0.86) 159	85.5 (2.8) 159	29,761 (3,578) 4,640	4.31 (0.39) 155	7,045 (547) 1,671	9.6 (0.7) 1,671
3	ESTIMATE (SE) N	133,261 (13,637) 4,677	2.58 (0.19) 223	13.28 (1.05) 227	93.4 (1.7) 227	52,972 (5,602) 4,640	5.31 (0.44) 224	10,039 (649) 1,671	13.6 (0.8) 1,671
4	ESTIMATE (SE) N	271,252 (20,280) 4,677	2.03 (0.14) 482	12.37 (0.76) 496	90.7 (1.3) 496	128,042 (10,904) 4,640	5.95 (0.44) 483	21,971 (930) 1,671	29.9 (1.1) 1,671
5	ESTIMATE (SE) N	120,886 (14,221) 4,677	2.25 (0.17) 201	13.02 (1.26) 210	90.0 (2.1) 210	53,061 (6,740) 4,640	5.84 (0.63) 204	9,466 (631) 1,671	12.9 (0.8) 1,671
6	ESTIMATE (SE) N	194,168 (17,593) 4,677	2.71 (0.16) 284	15.04 (1.07) 292	91.8 (1.6) 292	71,105 (6,300) 4,640	5.58 (0.38) 286	13,033 (733) 1,671	17.7 (0.9) 1,671
STATEWIDE	ESTIMATE (SE) N	901,099 (33,731) 4,738	2.19 (0.07) 1,649	12.05 (0.39) 1,714	90.3 (0.7) 1,714	400,384 (16,051) 4,686	5.46 (0.19) 1,662	75,392 (1,442) 4,760	36.5 (0.7) 4,760
									PERCENT OF TOTAL LICENSEES

TABLE 8. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF RACCOON HUNTING IN MISSISSIPPI DURING THE 1998-99 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	22,843 (7,300) 4,751	0.43 (0.12) 35	14.19 (3.95) 37	97.3 (2.7) 37	46,821 (17,709) 4,733	29.78 (10.26) 36	1,652 (267) 265	14.3 (2.2) 265
2	ESTIMATE (SE) N	16,839 (7,411) 4,751	0.63 (0.11) 20	18.43 (7.22) 21	95.2 (4.8) 21	23,585 (13,572) 4,733	27.00 (14.69) 20	913 (199) 265	7.9 (1.7) 265
3	ESTIMATE (SE) N	39,334 (12,353) 4,751	1.17 (0.32) 42	19.23 (5.41) 47	95.7 (3.0) 47	29,569 (8,210) 4,733	16.12 (3.77) 42	2,043 (297) 265	17.7 (2.4) 265
4	ESTIMATE (SE) N	17,796 (3,538) 4,751	0.44 (0.10) 74	5.05 (0.84) 81	96.3 (2.1) 81	36,819 (10,656) 4,733	11.39 (3.04) 74	3,565 (390) 265	30.9 (2.8) 265
5	ESTIMATE (SE) N	9,311 (4,788) 4,751	0.78 (0.20) 23	8.56 (4.14) 25	80.0 (8.2) 25	10,613 (4,737) 4,733	10.57 (4.26) 23	1,087 (217) 265	9.4 (1.8) 265
6	ESTIMATE (SE) N	19,145 (4,231) 4,751	0.54 (0.10) 48	8.80 (1.51) 50	92.0 (3.9) 50	29,875 (7,048) 4,733	14.25 (2.70) 48	2,261 (312) 265	19.6 (2.4) 265
STATEWIDE	ESTIMATE (SE) N	127,424 (17,722) 4,755	0.60 (0.08) 245	11.06 (1.39) 265	94.0 (1.5) 265	185,940 (28,403) 4,735	17.38 (2.43) 245	11,726 (693) 4,760	5.7 (0.3) 4,760

TABLE 9. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF ALL DUCK HUNTING IN MISSISSIPPI DURING THE 1998-99 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	40,022	1.59	15.49	88.1	25,331	9.63	2,660	9.0
	(SE)	(8,531)	(0.19)	(2.65)	(4.2)	(4,351)	(1.11)	(338)	(1.1)
	N	4,721	58	59	59	4,717	60	676	676
2	ESTIMATE	144,805	2.02	23.13	90.9	71,916	11.56	6,324	21.4
	(SE)	(22,729)	(0.21)	(3.10)	(2.4)	(7,921)	(0.84)	(517)	(1.6)
	N	4,721	140	143	143	4,717	142	676	676
3	ESTIMATE	263,163	2.04	20.87	94.1	128,143	10.33	12,996	44.1
	(SE)	(24,314)	(0.11)	(1.52)	(1.4)	(10,254)	(0.57)	(729)	(1.9)
	N	4,721	274	288	288	4,717	283	676	676
4	ESTIMATE	44,882	1.67	13.14	87.2	28,705	8.62	3,445	11.7
	(SE)	(7,488)	(0.15)	(1.63)	(3.8)	(4,877)	(1.09)	(384)	(1.2)
	N	4,721	75	78	78	4,717	76	676	676
5	ESTIMATE	28,944	1.79	13.49	81.6	16,873	7.55	2,224	7.5
	(SE)	(6,775)	(0.16)	(2.53)	(5.6)	(3,457)	(1.15)	(310)	(1.0)
	N	4,721	49	49	49	4,717	51	676	676
6	ESTIMATE	13,268	1.00	7.58	77.5	13,454	7.49	1,832	6.2
	(SE)	(3,616)	(0.14)	(1.71)	(6.7)	(3,116)	(1.30)	(281)	(0.9)
	N	4,721	40	40	40	4,717	41	676	676
STATEWIDE	ESTIMATE	552,797	1.90	18.73	90.1	289,680	9.93	30,226	14.6
	(SE)	(35,918)	(0.08)	(1.02)	(1.1)	(14,898)	(0.37)	(1,059)	(0.5)
	N	4,741	652	677	677	4,732	668	4,760	4,760
									PERCENT OF TOTAL LICENSEES



TABLE 10. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF MALLARD, WOOD DUCK, AND OTHER DUCK HUNTING IN MISSISSIPPI DURING THE 1998-99 HUNTING SEASON.

DISTRICT(1)	STATISTIC	MALLARDS						WOOD DUCKS						OTHER DUCKS					
		TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS		
1	ESTIMATE	20,261	0.81	7.72	73.3	9,756	0.39	3.78	55.9	9,971	0.39	3.80	51.7	9,971	0.39	3.80	51.7		
	(SE)	(4,616)	(0.11)	(1.47)	(5.8)	(2,274)	(0.07)	(0.74)	(6.5)	(2,851)	(0.09)	(0.98)	(6.5)	(2,851)	(0.09)	(0.98)	(6.5)		
	N	4,724	59	60	60	4,725	58	59	59	4,727	59	60	60	4,727	59	60	60		
2	ESTIMATE	82,793	1.15	13.23	81.1	24,982	0.35	3.97	50.7	36,910	0.52	5.90	58.7	36,910	0.52	5.90	58.7		
	(SE)	(12,751)	(0.11)	(1.73)	(3.3)	(9,305)	(0.12)	(1.45)	(4.2)	(5,949)	(0.07)	(0.80)	(4.1)	(5,949)	(0.07)	(0.80)	(4.1)		
	N	4,724	140	143	143	4,725	141	144	144	4,727	140	143	143	4,727	140	143	143		
3	ESTIMATE	132,417	1.03	10.51	85.1	31,719	0.25	2.51	50.5	98,791	0.76	7.82	68.5	98,791	0.76	7.82	68.5		
	(SE)	(12,403)	(0.06)	(0.78)	(2.1)	(3,377)	(0.02)	(0.23)	(2.9)	(12,372)	(0.08)	(0.87)	(2.7)	(12,372)	(0.08)	(0.87)	(2.7)		
	N	4,724	274	288	288	4,725	275	289	289	4,727	275	289	289	4,727	275	289	289		
4	ESTIMATE	16,104	0.54	4.66	62.0	18,200	0.67	5.33	70.5	10,539	0.37	3.05	45.6	10,539	0.37	3.05	45.6		
	(SE)	(3,271)	(0.10)	(0.80)	(5.5)	(3,364)	(0.08)	(0.79)	(5.2)	(2,510)	(0.08)	(0.65)	(5.6)	(2,510)	(0.08)	(0.65)	(5.6)		
	N	4,724	76	79	79	4,725	75	78	78	4,727	76	79	79	4,727	76	79	79		
5	ESTIMATE	12,559	0.76	5.74	58.0	9,188	0.57	4.29	61.2	7,172	0.44	3.28	40.0	7,172	0.44	3.28	40.0		
	(SE)	(3,386)	(0.10)	(1.33)	(7.1)	(1,949)	(0.09)	(0.68)	(7.0)	(2,274)	(0.09)	(0.94)	(7.0)	(2,274)	(0.09)	(0.94)	(7.0)		
	N	4,724	50	50	50	4,725	49	49	49	4,727	50	50	50	4,727	50	50	50		
6	ESTIMATE	525	0.04	0.30	20.0	7,963	0.59	4.33	69.0	4,767	0.36	2.60	26.2	4,767	0.36	2.60	26.2		
	(SE)	(196)	(0.01)	(0.10)	(6.4)	(2,186)	(0.11)	(1.00)	(7.2)	(2,145)	(0.12)	(1.11)	(6.9)	(2,145)	(0.12)	(1.11)	(6.9)		
	N	4,724	40	40	40	4,725	41	42	42	4,727	41	42	42	4,727	41	42	42		
STATEWIDE	ESTIMATE	274,742	0.93	9.27	74.7	104,079	0.36	3.51	55.7	173,494	0.59	5.83	57.5	173,494	0.59	5.83	57.5		
	(SE)	(19,086)	(0.05)	(0.55)	(1.7)	(10,997)	(0.03)	(0.35)	(1.9)	(14,564)	(0.04)	(0.44)	(1.9)	(14,564)	(0.04)	(0.44)	(1.9)		
	N	4,744	655	680	680	4,745	655	681	681	4,747	657	683	683	4,747	657	683	683		

TABLE 11. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF GOOSE HUNTING IN MISSISSIPPI DURING THE 1998-99 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	696 (313) 4,754	0.15 (0.08) 11	1.33 (0.48) 12	66.7 (14.2) 12	4,442 (2,048) 4,747	9.27 (3.40) 11	522 (150) 123	9.8 (2.7) 123
2	ESTIMATE (SE) N	8,653 (2,710) 4,754	0.70 (0.16) 42	4.63 (1.28) 43	76.7 (6.5) 43	12,368 (3,173) 4,747	6.76 (1.41) 42	1,869 (284) 123	35.0 (4.3) 123
3	ESTIMATE (SE) N	8,653 (3,843) 4,754	1.33 (0.66) 37	4.98 (2.09) 40	75.0 (6.9) 40	6,445 (1,693) 4,747	3.89 (0.82) 38	1,782 (277) 123	33.3 (4.3) 123
4	ESTIMATE (SE) N	1,957 (826) 4,754	0.85 (0.41) 14	2.81 (0.99) 16	62.5 (12.5) 16	2,308 (980) 4,747	3.79 (1.30) 14	695 (174) 123	13.0 (3.0) 123
5	ESTIMATE (SE) N	391 (208) 4,754	0.64 (0.38) 5	1.50 (0.56) 6	83.3 (16.7) 6	479 (242) 4,747	2.20 (0.58) 5	261 (106) 123	4.9 (2.0) 123
6	ESTIMATE (SE) N	478 (292) 4,754	0.61 (0.36) 4	2.75 (1.11) 4	100.0 (0.0) 4	784 (489) 4,747	4.50 (1.94) 4	217 (97) 123	4.1 (1.8) 123
STATEWIDE	ESTIMATE (SE) N	21,072 (4,789) 4,758	0.77 (0.18) 115	3.88 (0.82) 125	75.2 (3.9) 125	26,950 (4,277) 4,748	5.38 (0.70) 115	5,515 (483) 4,760	2.7 (0.2) 4,760
									PERCENT OF TOTAL LICENSEES

TABLE 12. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF RED FOX HUNTING IN MISSISSIPPI DURING THE 1998-99 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	609 (443) 4,756	3.25 (2.25) 4	2.33 (1.54) 6	83.3 (16.7) 6	174 (87) 4,752	1.00 (0.00) 4	261 (106) 29	20.7 (7.7) 29
2	ESTIMATE (SE) N	174 (106) 4,756	0.27 (0.31) 2	1.33 (0.33) 3	100.0 (0.0) 3	479 (437) 4,752	5.50 (4.50) 2	130 (75) 29	10.3 (5.8) 29
3	ESTIMATE (SE) N	43 (43) 4,756	1.00 (.) 1	1.00 (.) 1	100.0 (.) 1	44 (44) 4,752	1.00 (.) 1	43 (43) 29	3.4 (3.4) 29
4	ESTIMATE (SE) N	217 (97) 4,756	0.01 (0.01) 10	0.45 (0.16) 11	45.5 (15.7) 11	19,141 (13,367) 4,752	40.00 (26.43) 11	521 (150) 29	41.4 (9.3) 29
5	ESTIMATE (SE) N	0 (0) 4,756	(.) (.) (.)	(.) (.) (.)	(.) (.) (.)	0 (0) 4,752	(.) (.) (.)	0 (0) 29	0.0 (0.0) 29
6	ESTIMATE (SE) N	130 (75) 4,756	0.02 (0.03) 5	0.50 (0.22) 6	50.0 (22.4) 6	3,567 (2,513) 4,752	16.40 (9.98) 5	304 (115) 29	24.1 (8.1) 29
STATEWIDE	ESTIMATE (SE) N	1,217 (476) 4,758	0.04 (0.03) 24	0.97 (0.34) 29	62.1 (9.2) 29	25,574 (13,776) 4,753	24.50 (12.48) 24	1,346 (241) 4,760	0.7 (0.1) 4,760

TABLE 13. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF GRAY FOX HUNTING IN MISSISSIPPI DURING THE 1998-99 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	1,347 (1,095) 4,758	0.65 (0.83) 4	5.17 (3.98) 6	83.3 (16.7) 6	2,001 (1,749) 4,753	11.50 (9.53) 4	261 (106) 26	23.1 (8.4) 26
2	ESTIMATE (SE) N	87 (61) 4,758	1.00 (.) 1	1.00 (0.00) 2	100.0 (0.0) 2	43 (43) 4,753	1.00 (.) 1	87 (61) 26	7.7 (5.3) 26
3	ESTIMATE (SE) N	130 (97) 4,758	1.00 (.) 1	1.50 (0.50) 2	100.0 (0.0) 2	87 (87) 4,753	2.00 (.) 1	87 (61) 26	7.7 (5.3) 26
4	ESTIMATE (SE) N	87 (61) 4,758	0.01 (0.01) 7	0.29 (0.18) 7	28.6 (18.4) 7	15,918 (13,174) 4,753	52.29 (41.58) 7	304 (115) 26	26.9 (8.9) 26
5	ESTIMATE (SE) N	87 (61) 4,758	0.50 (0.25) 2	1.00 (0.00) 2	100.0 (0.0) 2	174 (138) 4,753	2.00 (1.00) 2	87 (61) 26	7.7 (5.3) 26
6	ESTIMATE (SE) N	261 (137) 4,758	0.05 (0.05) 5	1.00 (0.37) 6	66.7 (21.1) 6	3,653 (2,516) 4,753	16.80 (9.84) 5	304 (115) 26	26.9 (8.9) 26
STATEWIDE	ESTIMATE (SE) N	1,998 (1,112) 4,759	0.07 (0.06) 22	1.77 (0.94) 26	65.4 (9.5) 26	24,046 (13,695) 4,754	26.33 (14.20) 21	1,173 (225) 4,760	0.6 (0.1) 4,760

TABLE 14. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF BOBCAT HUNTING IN MISSISSIPPI DURING THE 1998-99 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE		TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
							SEASONAL DAYS HUNTING	SEASONAL HUNTING		
1	ESTIMATE	1,044	0.21	1.09	95.5	4,464	5.67	957	14.7	
	(SE) N	(238) 4,753	(0.13) 18	(0.09) 22	(4.5) 22	(2,861) 4,723	(3.48) 18	(204) 150	(2.9) 150	
2	ESTIMATE	1,479	0.71	1.48	87.0	1,226	1.65	1,000	15.3	
	(SE) N	(398) 4,753	(0.18) 17	(0.26) 23	(7.2) 23	(366) 4,723	(0.30) 17	(208) 150	(3.0) 150	
3	ESTIMATE	3,349	0.42	2.48	96.8	7,266	6.38	1,348	20.7	
	(SE) N	(1,812) 4,753	(0.20) 26	(1.29) 31	(3.2) 31	(2,351) 4,723	(1.68) 26	(241) 150	(3.3) 150	
4	ESTIMATE	1,914	0.08	1.07	82.9	17,595	12.18	1,783	27.3	
	(SE) N	(368) 4,753	(0.06) 33	(0.12) 41	(5.9) 41	(13,289) 4,723	(9.09) 33	(277) 150	(3.7) 150	
5	ESTIMATE	957	0.33	1.38	93.8	1,707	3.55	696	10.7	
	(SE) N	(301) 4,753	(0.13) 11	(0.27) 16	(6.3) 16	(803) 4,723	(1.34) 11	(174) 150	(2.5) 150	
6	ESTIMATE	826	0.35	1.19	81.3	2,013	3.29	739	11.3	
	(SE) N	(250) 4,753	(0.13) 14	(0.21) 16	(10.1) 16	(755) 4,723	(0.90) 14	(179) 150	(2.6) 150	
STATEWIDE	ESTIMATE (SE) N	9,817 (1,942) 4,759	0.22 (0.10) 124	1.46 (0.27) 155	89.7 (2.5) 155	34,505 (13,827) 4,727	6.41 (2.52) 123	6,775 (534) 4,760	3.3 (0.3) 4,760	
									PERCENT OF TOTAL LICENSEES	

TABLE 15. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF COYOTE HUNTING IN MISSISSIPPI DURING THE 1998-99 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	7,103 (1,187) 4,744	0.11 (0.04) 52	2.40 (0.28) 68	86.8 (4.1) 68	51,769 (23,387) 4,676	22.52 (9.78) 52	2,961 (356) 294	23.1 (2.5) 294
2	ESTIMATE (SE) N	3,399 (795) 4,744	0.39 (0.11) 25	2.11 (0.36) 37	89.2 (5.2) 37	5,393 (1,551) 4,676	4.88 (1.03) 25	1,611 (264) 294	12.6 (1.9) 294
3	ESTIMATE (SE) N	14,467 (5,869) 4,744	0.19 (0.12) 40	6.15 (2.37) 54	90.7 (4.0) 54	66,269 (28,354) 4,676	37.48 (15.10) 40	2,351 (318) 294	18.4 (2.3) 294
4	ESTIMATE (SE) N	5,142 (1,047) 4,744	0.06 (0.03) 55	1.74 (0.29) 68	76.5 (5.2) 68	79,443 (31,263) 4,676	30.98 (11.60) 58	3,091 (364) 294	24.1 (2.5) 294
5	ESTIMATE (SE) N	1,874 (502) 4,744	0.07 (0.05) 21	1.54 (0.30) 28	82.1 (7.4) 28	19,275 (16,181) 4,676	20.76 (17.25) 21	1,219 (230) 294	9.5 (1.7) 294
6	ESTIMATE (SE) N	3,094 (874) 4,744	0.21 (0.08) 26	2.03 (0.47) 35	80.0 (6.9) 35	9,903 (3,285) 4,676	8.62 (2.35) 26	1,567 (260) 294	12.2 (1.9) 294
STATEWIDE	ESTIMATE (SE) N	36,076 (6,197) 4,756	0.13 (0.04) 226	2.75 (0.45) 302	84.1 (2.1) 302	234,802 (150,921) 4,682	23.32 (4.84) 228	13,289 (735) 4,760	6.4 (0.4) 4,760

TABLE 16. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF ARCHERY DEER HUNTING IN MISSISSIPPI DURING THE 1998-99 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	4,483 (661) 4,591	0.043 (0.006) 174	0.55 (0.07) 187	34.2 (3.5) 187	89,670 (8,589) 4,526	11.67 (0.71) 174	8,130 (582) 1,083	17.3 (1.1) 1,083
2	ESTIMATE (SE) N	4,309 (626) 4,591	0.060 (0.007) 133	0.71 (0.08) 139	44.6 (4.2) 139	71,126 (7,947) 4,526	12.11 (0.88) 133	6,043 (505) 1,083	12.8 (1.0) 1,083
3	ESTIMATE (SE) N	5,397 (729) 4,591	0.060 (0.007) 174	0.67 (0.08) 185	42.2 (3.6) 185	85,299 (8,050) 4,526	11.10 (0.65) 174	8,043 (579) 1,083	17.1 (1.1) 1,083
4	ESTIMATE (SE) N	8,923 (965) 4,591	0.058 (0.005) 248	0.75 (0.07) 272	42.6 (3.0) 272	136,999 (10,875) 4,526	12.41 (0.62) 250	11,913 (698) 1,083	25.3 (1.3) 1,083
5	ESTIMATE (SE) N	4,483 (684) 4,591	0.051 (0.006) 160	0.62 (0.08) 167	34.1 (3.7) 167	78,676 (8,390) 4,526	11.14 (0.82) 160	7,261 (552) 1,083	15.4 (1.1) 1,083
6	ESTIMATE (SE) N	3,830 (640) 4,591	0.043 (0.006) 120	0.69 (0.10) 128	37.5 (4.3) 128	74,526 (10,264) 4,526	13.84 (1.46) 122	5,696 (491) 1,083	12.1 (1.0) 1,083
STATEWIDE	ESTIMATE (SE) N	32,334 (1,738) 4,635	0.053 (0.002) 1,044	0.67 (0.03) 1,122	39.7 (1.5) 1,122	545,841 (21,143) 4,564	11.86 (0.33) 1,051	48,633 (1,259) 4,643	24.3 (0.6) 4,643
									PERCENT OF TOTAL LICENSEES (A)

TABLE 17. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF ARCHERY BUCK AND DOE HUNTING IN MISSISSIPPI DURING THE 1998-99 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	1,697	0.017	0.21	15.0	2,785	0.027	0.34	26.2
	(SE) N	(386) 4,591	(0.004) 174	(0.05) 187	(2.6) 187	(424) 4,592	(0.004) 174	(0.05) 187	(3.2) 187
2	ESTIMATE	1,436	0.020	0.24	22.3	2,872	0.040	0.47	35.3
	(SE) N	(264) 4,591	(0.003) 133	(0.04) 139	(3.5) 139	(454) 4,592	(0.005) 133	(0.06) 139	(4.1) 139
3	ESTIMATE	1,393	0.016	0.17	15.1	4,003	0.045	0.50	34.6
	(SE) N	(281) 4,591	(0.003) 174	(0.03) 185	(2.6) 185	(578) 4,592	(0.005) 174	(0.06) 185	(3.5) 185
4	ESTIMATE	2,655	0.018	0.22	17.6	6,266	0.040	0.53	35.7
	(SE) N	(413) 4,591	(0.003) 248	(0.03) 272	(2.3) 272	(709) 4,592	(0.004) 248	(0.05) 272	(2.9) 272
5	ESTIMATE	3,264	0.013	0.17	14.4	3,264	0.037	0.45	30.5
	(SE) N	(511) 4,591	(0.003) 160	(0.03) 167	(2.7) 167	(511) 4,592	(0.005) 160	(0.06) 167	(3.6) 167
6	ESTIMATE	1,480	0.017	0.27	20.3	2,350	0.027	0.42	27.9
	(SE) N	(325) 4,591	(0.004) 120	(0.05) 128	(3.6) 128	(434) 4,592	(0.005) 120	(0.07) 129	(4.0) 129
STATEWIDE	ESTIMATE	10,347	0.017	0.21	17.4	21,978	0.036	0.45	31.9
	(SE) N	(804) 4,635	(0.001) 1,044	(0.02) 1,122	(1.1) 1,122	(1,262) 4,637	(0.002) 1,045	(0.02) 1,124	(1.4) 1,124



TABLE 18. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF PRIMITIVE WEAPON DEER HUNTING IN MISSISSIPPI DURING THE 1998-99 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	2,390 (427) 4,598	0.067 (0.011) 141	0.36 (0.06) 152	27.0 (3.6) 152	32,308 (3,294) 4,546	5.21 (0.31) 141	6,589 (526) 987	15.4 (1.1) 987
2	ESTIMATE (SE) N	3,477 (540) 4,598	0.092 (0.013) 137	0.55 (0.07) 146	39.7 (4.1) 146	34,989 (3,824) 4,546	5.73 (0.41) 139	6,415 (519) 987	15.0 (1.1) 987
3	ESTIMATE (SE) N	3,607 (487) 4,598	0.090 (0.010) 171	0.46 (0.05) 179	37.4 (3.6) 179	38,022 (3,534) 4,546	5.03 (0.28) 172	7,802 (570) 987	18.2 (1.2) 987
4	ESTIMATE (SE) N	3,694 (483) 4,598	0.078 (0.010) 207	0.38 (0.04) 222	31.1 (3.1) 222	44,352 (3,836) 4,546	4.80 (0.26) 210	9,840 (637) 987	23.0 (1.3) 987
5	ESTIMATE (SE) N	3,911 (504) 4,598	0.112 (0.013) 149	0.56 (0.06) 161	42.2 (3.9) 161	30,506 (3,000) 4,546	4.63 (0.26) 150	7,022 (542) 987	16.4 (1.2) 987
6	ESTIMATE (SE) N	1,738 (352) 4,598	0.073 (0.013) 109	0.35 (0.06) 115	26.1 (4.1) 115	22,637 (2,545) 4,546	4.64 (0.29) 111	5,115 (465) 987	12.0 (1.0) 987
STATEWIDE	ESTIMATE (SE) N	19,339 (1,131) 4,629	0.085 (0.005) 939	0.45 (0.02) 1,006	34.2 (1.5) 1,006	207,211 (7,841) 4,572	5.00 (0.12) 949	43,899 (1,214) 4,643	22.0 (0.6) 4,643
PERCENT OF TOTAL LICENSEES(A)									

TABLE 19. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF PRIMITIVE WEAPON BUCK AND DOE HUNTING IN MISSISSIPPI DURING THE 1998-99 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	956	0.027	0.14	11.2	1,434	0.039	0.22	19.1	
	(SE) N	(245) 4,599	(0.007) 141	(0.04) 152	(2.6) 152	(284) 4,600	(0.007) 141	(0.04) 152	(3.2) 152	
2	ESTIMATE	1,521	0.041	0.24	20.5	1,955	0.050	0.31	24.0	
	(SE) N	(297) 4,599	(0.007) 137	(0.04) 146	(3.4) 146	(360) 4,600	(0.009) 137	(0.05) 146	(3.5) 146	
3	ESTIMATE	1,390	0.034	0.18	16.2	2,215	0.057	0.28	23.5	
	(SE) N	(274) 4,599	(0.006) 171	(0.03) 179	(2.8) 179	(365) 4,600	(0.009) 171	(0.04) 179	(3.2) 179	
4	ESTIMATE	1,477	0.030	0.15	14.4	2,215	0.048	0.23	20.3	
	(SE) N	(267) 4,599	(0.006) 207	(0.03) 222	(2.4) 222	(343) 4,600	(0.007) 207	(0.03) 222	(2.7) 222	
5	ESTIMATE	1,781	0.056	0.25	23.0	2,129	0.055	0.30	25.9	
	(SE) N	(303) 4,599	(0.009) 149	(0.04) 161	(3.3) 161	(343) 4,600	(0.009) 150	(0.04) 162	(3.5) 162	
6	ESTIMATE	782	0.029	0.16	13.8	956	0.043	0.19	15.5	
	(SE) N	(203) 4,599	(0.007) 110	(0.04) 116	(3.2) 116	(245) 4,600	(0.010) 109	(0.05) 116	(3.4) 116	
STATEWIDE	ESTIMATE	8,243	0.036	0.19	16.9	11,089	0.048	0.25	21.5	
	(SE) N	(653) 4,630	(0.003) 940	(0.01) 1,007	(1.2) 1,007	(787) 4,631	(0.003) 940	(0.02) 1,008	(1.3) 1,008	

TABLE 20. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF REGULAR GUN DEER HUNTING IN MISSISSIPPI DURING THE 1998-99 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING
1	ESTIMATE	32,409	0.078	1.20	54.4	378,703	14.37
	(SE) N	(2,090) 4,427	(0.004) 548	(0.06) 596	(2.0) 596	(20,517) 4,207	(0.53) 555
2	ESTIMATE	28,301	0.098	1.36	63.3	281,712	13.73
	(SE) N	(1,884) 4,427	(0.005) 425	(0.07) 460	(2.3) 460	(17,052) 4,207	(0.55) 432
3	ESTIMATE	39,676	0.112	1.60	67.9	347,639	14.08
	(SE) N	(2,417) 4,427	(0.005) 517	(0.07) 551	(2.0) 551	(18,344) 4,207	(0.47) 520
4	ESTIMATE	59,266	0.099	1.50	64.2	558,484	14.37
	(SE) N	(3,034) 4,427	(0.004) 804	(0.06) 874	(1.6) 874	(22,927) 4,207	(0.38) 818
5	ESTIMATE	39,089	0.122	1.78	72.1	318,096	14.59
	(SE) N	(2,424) 4,427	(0.006) 454	(0.08) 487	(2.0) 487	(17,404) 4,207	(0.47) 459
6	ESTIMATE	24,736	0.074	1.22	56.6	296,199	15.10
	(SE) N	(1,807) 4,427	(0.004) 410	(0.07) 449	(2.3) 449	(17,726) 4,207	(0.57) 413
STATEWIDE	ESTIMATE (SE) N	223,809 (4,681) 4,574	0.097 (0.002) 3,260	1.44 (0.03) 3,564	62.8 (0.8) 3,564	2,177,107 (34,943) 4,317	14.22 (0.19) 3,307

TABLE 21. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF REGULAR GUN BUCK AND DOE HUNTING IN MISSISSIPPI DURING THE 1998-99 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	18,314	0.044	0.68	41.9	14,029	0.034	0.52	31.4
	(SE) N	(1,267) 4,430	(0.003) 549	(0.04) 597	(2.0) 597	(1,203) 4,444	(0.003) 550	(0.04) 598	(1.9) 598
2	ESTIMATE	15,923	0.055	0.77	47.5	12,320	0.043	0.59	35.5
	(SE) N	(1,187) 4,430	(0.004) 426	(0.05) 461	(2.3) 461	(1,067) 4,444	(0.003) 427	(0.04) 462	(2.2) 462
3	ESTIMATE	21,291	0.059	0.86	51.4	18,301	0.052	0.74	44.3
	(SE) N	(1,491) 4,430	(0.003) 518	(0.05) 552	(2.1) 552	(1,311) 4,444	(0.003) 518	(0.04) 553	(2.1) 553
4	ESTIMATE	31,620	0.053	0.80	47.4	27,519	0.046	0.69	40.0
	(SE) N	(1,778) 4,430	(0.003) 804	(0.04) 874	(1.7) 874	(1,747) 4,444	(0.003) 811	(0.04) 882	(1.7) 882
5	ESTIMATE	19,035	0.058	0.87	52.6	19,965	0.063	0.91	50.0
	(SE) N	(1,309) 4,430	(0.003) 454	(0.05) 487	(2.3) 487	(1,513) 4,444	(0.004) 455	(0.06) 488	(2.3) 488
6	ESTIMATE	16,554	0.048	0.82	47.9	8,139	0.026	0.40	26.2
	(SE) N	(1,270) 4,430	(0.003) 410	(0.05) 449	(2.4) 449	(858) 4,444	(0.003) 410	(0.04) 451	(2.1) 451
STATEWIDE	ESTIMATE (SE) N	123,134 (2,934) 4,578	0.052 (0.001) 3,263	0.79 (0.02) 3,568	47.6 (0.8) 3,568	100,086 (2,866) 4,596	0.044 (0.001) 3,275	0.64 (0.02) 3,586	37.8 (0.8) 3,586

TABLE 22. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF SPRING TURKEY HUNTING IN MISSISSIPPI DURING THE 1998-99 HUNTING SEASON.

DISTRICT	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE		TOTAL HUNTERS	PERCENT HUNTERS PER DISTRICT
							SEASONAL DAYS HUNTING	SEASONAL HUNTING		
1	ESTIMATE	3,271	0.071	0.56	36.9	43,229	7.66	5,849	13.8	
	(SE) N	(571) 3,792	(0.009) 106	(0.08) 111	(4.6) 111	(5,709) 3,758	(0.70) 106	(547) 803	(1.2) 803	
2	ESTIMATE	1,794	0.074	0.57	38.3	24,490	7.80	3,214	7.6	
	(SE) N	(408) 3,792	(0.011) 59	(0.11) 60	(6.3) 60	(4,231) 3,758	(0.90) 59	(408) 803	(0.9) 803	
3	ESTIMATE	3,693	0.099	0.67	46.2	34,924	6.63	5,533	13.1	
	(SE) N	(589) 3,792	(0.012) 99	(0.09) 104	(4.9) 104	(4,798) 3,758	(0.63) 99	(532) 803	(1.2) 803	
4	ESTIMATE	8,336	0.092	0.67	41.9	89,760	7.30	12,541	29.6	
	(SE) N	(919) 3,792	(0.007) 230	(0.06) 236	(3.2) 236	(7,789) 3,758	(0.43) 231	(787) 803	(1.6) 803	
5	ESTIMATE	7,017	0.115	0.95	59.3	55,208	7.86	7,377	17.4	
	(SE) N	(855) 3,792	(0.009) 132	(0.09) 140	(4.2) 140	(6,189) 3,758	(0.57) 132	(612) 803	(1.3) 803	
6	ESTIMATE	6,912	0.084	0.89	49.0	76,982	10.55	7,798	18.4	
	(SE) N	(877) 3,792	(0.008) 137	(0.09) 147	(4.1) 147	(8,711) 3,758	(0.80) 137	(628) 803	(1.4) 803	
STATEWIDE										
ESTIMATE		32,017	0.090	0.74	46.1	332,601	8.02	43,384	21.7	
(SE) N		(1,744) 3,818	(0.004) 783	(0.03) 824	(1.7) 824	(15,217) 3,777	(0.26) 783	(1,334) 3,823	(0.7) 3,823	
PERCENT OF TOTAL LICENSEES (A)										

TABLE 23. EXPANDED STATEWIDE AND DISTRICT SUMMARIES OF FALL TURKEY HUNTING IN MISSISSIPPI DURING THE 1998 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	
										ESTIMATE (SE) N
2	ESTIMATE	44	0.031	0.09	9.1	1,409	2.91	484	25.6	
	(SE)	(44)	(0.029)	(0.09)	(9.1)	(490)	(0.53)	(146)	(6.7)	
	N	4,538	11	11	11	4,538	11	43	43	
3	ESTIMATE	352	0.125	0.47	41.2	2,818	3.76	749	39.5	
	(SE)	(139)	(0.047)	(0.15)	(12.3)	(813)	(0.61)	(181)	(7.5)	
	N	4,538	17	17	17	4,538	17	43	43	
5	ESTIMATE	308	0.104	0.47	40.0	2,950	4.47	661	34.9	
	(SE)	(132)	(0.045)	(0.17)	(13.1)	(1,193)	(1.44)	(170)	(7.4)	
	N	4,538	15	15	15	4,538	15	43	43	
-----										
STATEWIDE	ESTIMATE (SE) N	791 (206) 4,545	0.086 (0.024) 49	0.36 (0.08) 50	32.0 (6.7) 50	8,881 (1,897) 4,545	4.04 (0.66) 50	2,242 (312) 4,546	1.1 (0.2) 4,546	
								-----	PERCENT OF TOTAL LICENSEES (B)	-----

(A) FALL TURKEY HUNTING WAS LEGAL ONLY IN DISTRICTS 2, 3 and 5.  
 (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 1998-99 HUNTING SEASON AND ALL TURKEY HUNTING (COMBINING SPRING AND FALL DATA) DURING THE 1998 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	276,361	0.088	1.71	64.5	2,940,096	18.54	161,650	80.9
	(SE) N	(5,688) 4,569	(0.002) 3,360	(0.03) 3,682	(0.8) 3,683	(50,017) 4,298	(0.28) 3,411	(1,153) 4,643	(0.6) 4,643
BUCK	ESTIMATE	142,027	0.045	0.88	49.1				
	(SE) N	(3,320) 4,574	(0.001) 3,364	(0.02) 3,687	(0.8) 3,688				
DOE	ESTIMATE	133,565	0.043	0.83	43.2				
	(SE) N	(3,492) 4,590	(0.001) 3,374	(0.02) 3,703	(0.8) 3,704				
TURKEY	ESTIMATE	32,809	0.156	2.97	46.1	341,482	19.64	45,626	19.4
	(SE) N	(1,756) 856	(0.107) 856	(2.22) 898	(1.7) 898	(15,335)	(5.17) 859	(1,370) 4,675	(0.6) 4,675

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

TABLE 25. SUMMARY OF RESPONSES TO OPINION QUESTIONS

1. Do you believe that it should be legal to hunt deer over bait?

15.5	738	Strongly agree
17.1	813	Mildly agree
14.0	666	Neither agree nor disagree
11.3	540	Mildly disagree
36.8	1750	Strongly disagree
3.7	177	Don't know
1.6	74	No response

2. What do you think about feeding corn, deer pellets, etc. (Not food plots) to deer and/or turkey?

7.6	362	It should be allowed on lands which are not hunted
35.4	1685	It should only be allowed before and after hunting season on hunted lands
31.8	1515	It should be allowed regardless whether the land is hunted or not
14.5	690	It should not be allowed
8.0	379	Not sure
2.7	127	No response

3. How do you feel about a tagging system for all deer killed in Mississippi?

25.0	1189	Strongly approve
11.3	536	Mildly approve
20.4	972	Neither approve nor disapprove
10.7	508	Mildly disapprove
24.4	1162	Strongly disapprove
7.2	342	Don't know
1.0	49	No response

If you support a tagging system, would you be willing to pay an additional \$10 to implement this program?

14.9	708	Strongly agree
9.1	432	Mildly agree
10.4	496	Neither agree nor disagree
7.9	375	Mildly disagree
33.8	1609	Strongly disagree
7.0	335	Don't know
16.9	803	No response

4. How do you feel about a tagging system for all turkeys killed in Mississippi?

22.1	1053	Strongly approve
8.6	408	Mildly approve
24.4	1160	Neither approve nor disapprove
7.2	341	Mildly disapprove
18.6	885	Strongly disapprove
17.8	848	Don't know
1.3	63	No response



If you support a tagging system, would you be willing to pay an additional \$10 to implement this program?

13.8	655	Strongly agree
7.0	334	Mildly agree
14.0	665	Neither agree nor disagree
6.1	290	Mildly disagree
29.4	1399	Strongly disagree
12.0	572	Don't know
17.7	843	No response

5. Did you take a youth under the age of 16 hunting last year?

47.4	2255	Yes
51.5	2449	No
1.1	54	Don't know

6. Do you approve of the job the MDWFP is doing in managing wildlife management areas?

41.0	1951	Strongly approve
26.7	1269	Mildly approve
10.5	500	Neither approve nor disapprove
4.1	193	Mildly disapprove
4.3	205	Strongly disapprove
12.0	573	Don't know
1.4	67	No response

7. Research has shown that late season harvest of bobwhite quail may reduce overall quail populations by removing birds that would survive until breeding season. Given this information, would you support quail hunting season change with opening date approximately 2 -weeks earlier (first Saturday in November), and closing approximately 2 weeks earlier (Mid-February)?

47.1	2242	Strongly support
14.0	664	Mildly support
17.4	829	Neither support nor oppose
0.7	34	Mildly oppose
2.1	102	Strongly oppose
16.6	791	Don't know
2.0	96	No response

8. Have you turkey hunted within the past two years?

63.5	3022	No
35.5	1689	Yes
1.0	47	Don't know

If yes, do you understand the reasons and approve the rule prohibiting the harvest of jakes during the spring turkey season?

22.9	1089	Strongly approve
5.1	244	Mildly approve
2.3	110	Neither approve nor disapprove
1.4	66	Mildly disapprove
1.3	63	Strongly disapprove
1.3	64	Don't know
1.8	84	Don't understand
63.9	3038	No response

9. Do you support the use of deer pens (enclosures) for hunting purposes?

3.2	151	Strongly support
3.7	174	Mildly support
12.1	576	Neither support nor oppose
7.4	353	Mildly oppose
62.5	2973	Strongly oppose
9.5	450	Don't know
1.7	81	No response

10. In general do think the quality of deer where you hunt has improved over the last two years?

52.4	2494	Yes
27.7	1319	No
18.1	861	Don't know
1.8	84	No response

To enable us to meet federal aid reporting requirements and to better serve our user groups, please mark the appropriate response. This information is voluntary and will be used for statistical purposes only.

11. Average Age: 39 Years

12. Sex:

93.6	4452	Male
5.3	247	Female
1.2	58	No response

13. Race:

5.3	252	African American
92.4	4396	White
0.0	2	Hispanic
0.1	6	American Indian
0.0	1	Asian
0.3	15	Other
1.8	85	No response



# 1998-99 Mississippi Hunter Questionnaire

111951

A. Please fill in the blocks below for each game species you hunted during the 1998-99 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
1 Dove			
2 Quail			
3 Woodcock			
4 Rabbit			
5 Squirrel			
6 Raccoon			
Bucks Does			
7 Deer (archery)			
8 Deer (prim.weap.)			
9 Deer (gun)			
10 Turkey (Spring 98)			
11 Turkey (Fall 98)			
Mallard Wood Other			
12 Ducks			
13 Geese			
14 Red Fox			
15 Gray Fox			
16 Bobcat			
17 Coyote			

Determine DISTRICT HUNTED MOST from map.

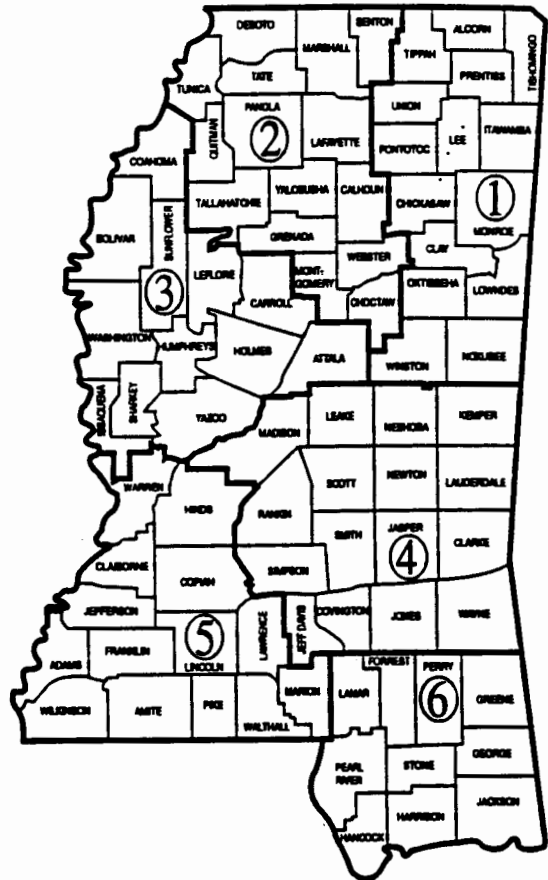


FIGURE 1. Questionnaire used for the 1998-99 mail survey of game harvest and hunter effort in Mississippi.

**B.1.** Do you believe that it should be legal to hunt deer over bait?

- Strongly agree
- Mildly agree
- Neither agree nor disagree
- Mildly disagree
- Strongly disagree
- Don't know

2. What do you think about feeding corn, deer pellets, etc. (Not food plots) to deer and/or turkey?

- It should be allowed on lands which are not hunted
- It should only be allowed before and after hunting season on hunted lands
- It should be allowed regardless whether the land is hunted or not
- It should not be allowed
- Not sure

3. How do you feel about a tagging system for all deer killed in Mississippi?

- Strongly approve
- Mildly approve
- Neither approve nor disapprove
- Mildly disapprove
- Strongly disapprove
- Don't know

If you support a tagging system, would you be willing to pay an additional \$10.00 to implement this program?

- Strongly agree
- Mildly agree
- Neither agree nor disagree
- Mildly disagree
- Strongly disagree
- Don't know

4. How do you feel about a tagging system for all turkeys killed in Mississippi?

- Strongly approve
- Mildly approve
- Neither approve nor disapprove
- Mildly disapprove
- Strongly disapprove
- Don't know

If you support a tagging system, would you be willing to pay an additional \$10.00 to implement this program?

- Strongly agree
- Mildly agree
- Neither agree nor disagree
- Mildly disagree
- Strongly disagree
- Don't know

5. Did you take a youth under the age of 16 hunting last year?

- Yes
- No

6. Do you approve of the job the MDWFP is doing in managing wildlife management areas?

- Strongly approve
- Mildly approve
- Neither approve nor disapprove
- Mildly disapprove
- Strongly disapprove
- Don't know

7. Research has shown that late season harvest of bobwhite quail may reduce overall quail populations by removing birds that would survive until breeding season. Given this information, would you support quail hunting season change with opening date approximately 2-weeks earlier (first Saturday in November), and closing approximately 2 weeks earlier (Mid-February)?

- Strongly support
- Mildly support
- Neither support nor oppose
- Mildly oppose
- Strongly oppose
- Don't know

8. Have you turkey hunted within the past two years?

- No
- Yes

**OVER**

If yes, do you understand the reasons and approve the rule prohibiting the harvest of jakes during the spring turkey season?

- Strongly approve
- Mildly approve
- Neither approve nor disapprove
- Mildly disapprove
- Strongly disapprove
- Don't know
- Don't Understand

9. Do you support the use of deer pens (enclosures) for hunting purposes?

- Strongly support
- Mildly support
- Neither support nor oppose
- Mildly oppose
- Strongly oppose
- Don't know

10. In general to you think the quality of deer where you hunt has improved over the last two years?

- Yes
- No
- Don't know

To enable us to meet federal aid reporting requirements and to better serve our user groups, please mark the appropriate response. This information is voluntary and will be used for statistical purposes only.

12. Age: \_\_\_\_\_ Years

13. Sex:  Male  Female

14. Race:  African American  White  Hispanic  
 American Indian  Asian  Other



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

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

106122

MARCH 25, 1999

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,

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

Sam Polles, Ph.D.  
Executive Director

SP:ccs

Enclosure

P.O. Box 451 • Jackson, Mississippi 39205-0451 • (601) 362-9212

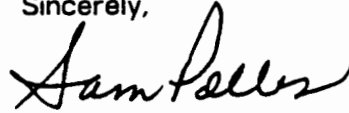
FIGURE 2 Cover letter mailed with the initial mailing of the 1998-99 survey of game harvest and hunter effort in Mississippi.

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.

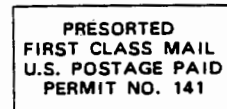
Your response is important. It is the only way we have of estimating the harvest, efforts and opinions of hunters for management purposes.

Sincerely,



Sam Polles, Ph.D.  
Executive Director

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



RETURN SERVICE REQUESTED

02



FIGURE 3 Post card used as the first reminder mailing to nonrespondents during the 1998-99 survey of game harvest and hunter effort in Mississippi.





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

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

200046

MAY 28, 1999

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,

Sam Polles, Ph.D.  
Executive Director

SP:ccs

Enclosure

P.O. Box 451 • Jackson, Mississippi 39205-0451 • (601) 362-9212

FIGURE 4 Cover letter mailed with the second (and final) reminder mailing to non-respondents during the 1998-99 survey of game harvest and hunter effort in Mississippi.

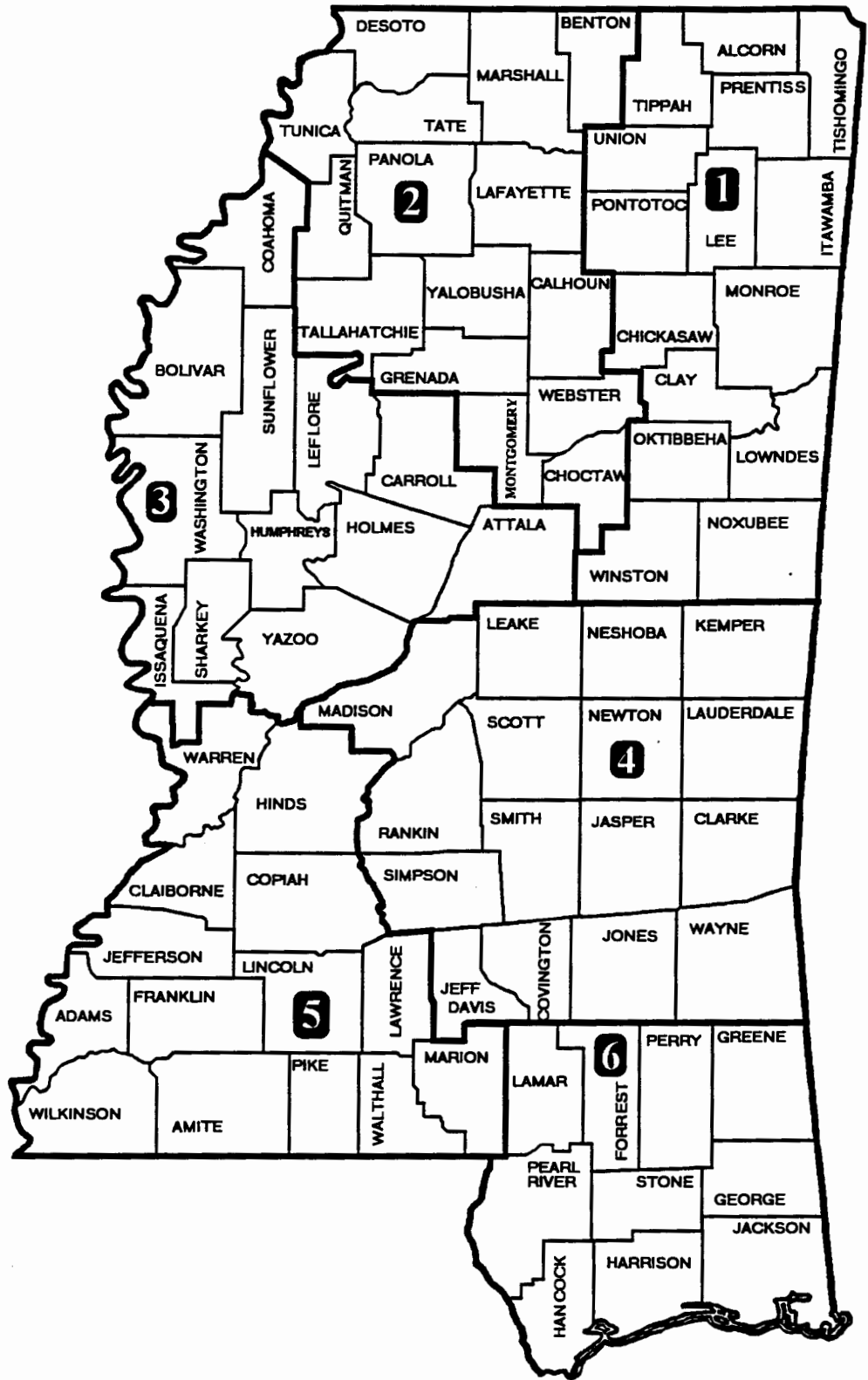


FIGURE 5 District partitions for district hunted most