

MISSISSIPPI MAIL SURVEY OF GAME

HARVEST AND HUNTER EFFORT FOR 1985-86

by

David E. Steffen

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Mississippi Department of Wildlife Conservation

P. O. Box 451

Jackson, Mississippi 39205

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INTRODUCTION

The importance of game harvest surveys is to provide indices which will monitor changes in kill and hunter effort among seasons to determine trends. Changes in harvest regulations, habitat conditions, game population numbers and the socio-economic environment may be reflected in and monitored by changes in hunting (kill and effort) indices.

Mail surveys to obtain game harvest data result in parameter estimates (e.g. total harvest, average daily kill, average seasonal harvest, total man-days hunting) which contain serious sampling, response and nonresponse biases. As a result, the accuracy of these estimates is unknown. Filion (1980) provided a good review of these biases and their effect on the estimates.

Although there are public relation benefits from obtaining accurate figures pertaining to hunter harvest and effort, management practices require only indices of kill and effort. Parameter estimates obtained from mail surveys may not be accurate, but assuming all biases remain constant the estimates will provide good indices for trend determination. Further, Wright (1978) noted that until the wildlife profession can develop more accurate methods of estimating population numbers, measures of absolute harvest are relatively meaningless and indices to harvest should be adequate. For consumer purposes, these data (however inaccurate) are often the best available.

Therefore the primary objective of the mail survey for the 1985-86 hunting season was to provide a reliable set of statewide hunting indices for each game species in Mississippi. No attempt was made to identify

potential biases and correct for their effect. For dissemination to the public these indices were to also serve as harvest and effort estimators. Secondary objectives were to obtain these indices on a regional basis and to evaluate hunter attitudes and responses on specific issues.

METHODS

An initial sample of 9,156 sportsmen to be mailed a survey questionnaire was selected from the 1985-86 file of licenses sold. The sampling frame was restricted to only resident holders of Sportsman's (Type 00), All Game Hunting and Fishing (Type 01), Small Game Hunting (Type 02) and Small Game Hunting and Fishing (Type 05) licenses who made their purchase during the 1985-86 fiscal year.

A 7 percent sample of hunting license buyers was selected from the 205,950 hunting license sales stubs (Types 01, 02, and 05) processed by the end of January, 1986. An approximate random sample was achieved by selecting stubs whose license numbers ended in predetermined but randomly selected sets of terminal digits between 00 and 99 (7 sets of digits were selected for each license type). An optical scanning device (S6000 Burroughs Document Processor) was used to mechanically make the stub selections. Discontinuing sampling at the end of January expedited the survey mailing as soon as possible after the close of the hunting season in February.

Since approximately 43 percent of the selected license stubs lacked complete names and addresses for mailing purposes, the 7 percent sample of stubs resulted in a 4.01 percent sample of usable licenses (8,249). Names and addresses were manually keypunched for each usable stub sampled.

Based on a 4 year average (80/81 - 83/84), the hunting license (Types 01, 02, 05) sales through the end of January accounted for about 91.2 percent of the year-end (June) sales of these license types. Therefore a 4.01 percent sample of license holders based on the January figure would be about a 3.657 percent ($0.912 \times 0.0401 \times 100$) sample of the expected June sales.

Because of the computerized and renewable aspects of Sportsman's licenses (Type 00), virtually all 85-86 Sportsman's license holders were accounted for by the end of January (24,788 Sportsman's license holders). To achieve a sample of Sportsman license holders comparable to the other types, a computer generated random sample of 907 (3.657%) hunters was selected. 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 27, 1986 to the sampled hunters. About three weeks after the initial mailing (April 22, 1986), reminder post cards (Figure 3) were mailed to 6,053 sampled hunters who had not returned their questionnaires by April 21, 1986. The final mailing composed of an identical questionnaire, cover letter (Figure 4) and business reply envelope was mailed about three weeks after the reminder post card mailing (May 14, 1986) to the 5,269 nonrespondents as of May 12, 1986. First mailing questionnaires were given identification numbers from 100,001 to 109,156 while the final mailing was given a 200,000 numbering sequence to differentiate responses between mailings.

Questionnaires returned four weeks after the final mailing (after June 17, 1986) 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 regional (as shown by the questionnaire, Figure 1) basis.

The 1985-86 survey, like the previous surveys, obtained information about two different hunting seasons or license years (i.e., spring 1985 turkey hunters hunted during the 1984-85 license year while hunters of the other surveyed species hunted during the 1985-86 fiscal year). 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, 1983a, b). Therefore spring 1985 turkey hunting indices were calculated based on the total number of resident big game hunters during 1984-85 and on the respondents who also purchased a big game license during the previous July 1, 1984 - June 30, 1985 fiscal year (Questionnaire Part B, question #1).

Estimates and standard errors of total turkey harvest and man-days of effort were calculated as a linear combination of the spring 1985 estimates plus the fall 1985 estimates. The computer programs were

altered to reflect these changes. All other calculations follow Steffen (1981).

RESULTS

Based on all three mailings, 840 (9.2%) of the 9,156 questionnaires were returned as non-deliverable by the post office. Therefore 8,316 individuals were assumed to have been contacted to participate in the survey. Of these, 4,782 (57.5%) returned their questionnaires for possible analysis and 3,534 (42.5%) were nonresponses. Based on those questionnaires returned 4,666 were answered and usable to some extent, 88 were returned after the acceptance deadline (4 weeks after the final mailing) and only 28 were considered completely useless.

Statewide expansions were calculated based on the 253,846 total hunting licenses sold and accounted for by the end of June 1986. The total sales for each resident hunting license type were as follows: Type 00 = 24,808, Type 01 = 202,546, Type 02 = 13,768 and Type 05 = 12,724. Therefore there existed 253,846 individuals licensed to hunt small game and 227,354 (Types 00 + 01) of these license holders also were eligible to pursue big game (deer and turkey) during the 1985-86 hunting seasons. The spring, 1985 turkey hunting estimates were based on the 233,105 big game license holders accounted for in the 1984-85 license sales totals.

Based on the 4,666 usable responses, 93.7 0.4 (SE) percent of all resident license holders actually participated in a hunting activity during the 1985-86 hunting season. Therefore an estimated 237,854 914 (SE) licensees actually utilized their license for hunting purposes.

The expanded statewide summaries of total harvest, average daily kill,

average seasonal kill, the percent of hunters successful, total man-days, average seasonal days hunting, total hunters and the percent of total licensees 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 estimates (standard errors and 95 percent confidence limits) for all game species surveyed.

Tables 3 - 8 summarize small game hunting on a statewide and regional basis. Waterfowl hunting is summarized in Tables 9 - 11. Tables 12 - 15 summarize fox (red and gray), bobcat and coyote hunting. Statewide and regional summaries of deer (buck and doe data from the archery, primitive weapon and gun seasons) and turkey hunting are provided in Tables 16 - 23. Statewide totals will not necessarily equal the sum of the regional totals. All figures were calculated independently and were the best statistical estimates available.

The analysis of the hunter attitude and opinion questions (Part B of the questionnaire) has been completed. Results will be released as separate reports or will be available upon request from the Mississippi Department of Wildlife Conservation.

DISCUSSION AND RECOMMENDATIONS

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.

Since the 1985-86 survey was conducted with an expanded sample of sportsmen (> 9,000), regional harvest and effort estimates were relatively precise. Precision was also improved for those species of lesser hunting importance (e.g., woodcock, bobcat).

As previously recommended by Steffen (1981), the annual survey should be continued with a sample of 3,000 - 4,000 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 regional basis. The next large sample survey should be conducted after the 1990-91 hunting seasons. To avoid changes in biases, attention to the consistency of survey methodology should be continued in future surveys.

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TABLE 1. EXPANDED STATEWIDE SUMMARY OF THE 1985-86 MISSISSIPPI MAIL SURVEY OF GAME HARVEST BASED ON 253,846 SMALL GAME LICENSE HOLDERS AND 227,354 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	2,538,405	5.72	23.00	93.1	439,252	4.00	110,602	43.6
QUAIL	708,449	2.56	17.42	84.7	275,086	6.88	40,748	16.1
WOODCOCK	22,958	0.80	3.93	87.7	25,739	4.97	5,767	2.3
RABBIT	1,077,563	1.61	11.08	90.4	652,794	6.86	97,654	38.5
SQUIRREL	2,268,034	2.47	15.12	93.2	897,312	6.06	150,480	59.3
RACCOON	188,996	0.78	9.10	90.1	224,075	11.71	20,945	8.3
ALL DUCKS	409,673	1.65	11.88	83.0	236,886	7.05	34,818	13.7
MALLARD	189,241	0.76	5.48	57.5				
WOOD DUCK	118,698	0.46	3.44	58.7				
OTHER DUCKS	106,028	0.44	3.07	32.1				
GEESE	2,775	0.16	0.96	45.3	14,650	5.49	2,938	1.2
RED FOX	3,591	0.11	1.08	69.4	24,789	10.09	3,373	1.3
GRAY FOX	1,850	0.06	0.79	63.6	22,626	12.21	2,394	0.9
BOBCAT	7,346	0.28	1.29	84.0	14,716	4.25	5,767	2.3
COYOTE	36,800	0.21	1.89	82.1	103,010	7.51	19,476	7.7
TOTAL DEER	234,955	0.078	1.26	53.5	2,899,327	15.69	187,257	82.4
BUCK	183,164	0.061	0.98	49.1				
DOE	51,882	0.017	0.28	19.3				
ARCHERY DEER	18,120	0.051	0.47	30.1	333,348	8.95	38,696	17.0
BUCK	8,567	0.024	0.22	16.7				
DOE	9,553	0.027	0.25	19.7				
PRIMITIVE DEER	29,016	0.119	0.60	42.2	232,494	4.96	48,863	21.5
BUCK	13,704	0.056	0.28	23.6				
DOE	15,313	0.063	0.31	25.9				
GUN DEER	187,943	0.077	1.03	51.3	2,320,690	12.84	183,367	80.7
BUCK	160,990	0.066	0.88	48.0				
DOE	26,956	0.011	0.15	12.0				
TOTAL TURKEY	52,989	0.117	1.00	54.2	433,284	8.45	52,876	22.7
SPRING 1985	52,989	0.117	1.00	54.2	433,284	8.45	52,876	22.7
FALL 1985	0	*	*	-	0	*	0	0.0

(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 1985-86 HUNTING SEASON.

SPECIES	TOTAL HARVEST	SE	STANDARD ERROR	25% CONFIDENCE INTERVAL	
			AS % OF TOTAL(A)	LOWER LIMIT	UPPER LIMIT
DOVE	2,538,405	77,291	3.0	2,383,823	2,692,987
QUAIL	708,449	50,055	7.1	608,339	808,559
WOODCOCK	22,958	3,291	14.3	16,376	29,540
RABBIT	1,077,563	48,562	4.5	980,439	1,174,687
SQUIRREL	2,268,034	61,884	2.7	2,144,266	2,391,802
RACCOON	188,996	22,923	12.1	143,150	234,842
ALL DUCKS	409,673	28,786	7.0	352,101	467,245
MALLARD	189,241	15,957	8.4	157,327	221,155
WOOD DUCK	118,698	8,946	7.5	100,806	136,590
OTHER DUCKS	106,028	11,155	10.5	83,718	128,338
GEESE	2,775	786	28.3	1,203	4,347
RED FOX	3,591	728	20.3	2,135	5,047
GRAY FOX	1,850	399	21.6	1,052	2,648
BOBCAT	7,346	957	13.0	5,432	9,260
COYOTE	36,800	3,913	10.6	28,974	44,626
TOTAL DEER	234,955	5,524	2.4	223,907	246,003
BUCK	183,164	4,406	2.4	174,352	191,976
DOE	51,882	2,182	4.2	47,518	56,246
ARCHERY DEER	18,120	1,391	7.7	15,338	20,902
BUCK	8,567	851	9.9	6,865	10,269
DOE	9,553	838	8.8	7,877	11,229
PRIMITIVE DEER	29,016	1,588	5.5	25,840	32,192
BUCK	13,704	955	7.0	11,794	15,614
DOE	15,313	1,032	6.7	13,249	17,377
GUN DEER	187,943	4,417	2.4	179,109	196,777
BUCK	160,990	3,885	2.4	153,220	168,760
DOE	26,956	1,435	5.3	24,086	29,826
TOTAL TURKEY	52,989	2,594	4.9	47,801	58,177
SPRING 1985	52,989	2,594	4.9	47,801	58,177
FALL 1985	0	0	-	0	0

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

TABLE 3. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF DOVE HUNTING IN MISSISSIPPI DURING THE 1985-86 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION								
1	ESTIMATE (SE)	611,064 (45,764)	6.08 (0.23)	26.38 (1.55)	94.6 (1.1)	99,987 (6,756)	4.32 (0.21)	23,341 (1,078)	21.3 (0.9)								
	N	4,624	420	422	425	4,613	421	2,000	2,000								
2	ESTIMATE (SE)	1,050,079 (48,600)	5.62 (0.22)	22.22 (0.77)	94.2 (0.8)	186,106 (9,721)	3.95 (0.17)	47,339 (1,453)	43.2 (1.1)								
	N	4,624	855	861	863	4,613	857	2,000	2,000								
3	ESTIMATE (SE)	106,336 (14,530)	5.41 (0.46)	15.02 (1.59)	88.4 (2.8)	19,095 (2,095)	2.75 (0.18)	7,068 (614)	6.5 (0.5)								
	N	4,624	126	129	129	4,613	126	2,000	2,000								
4	ESTIMATE (SE)	634,889 (44,351)	5.70 (0.23)	24.72 (1.35)	93.4 (1.2)	110,222 (6,840)	4.32 (0.19)	25,697 (1,125)	23.5 (0.9)								
	N	4,624	463	467	468	4,613	464	2,000	2,000								
5	ESTIMATE (SE)	121,049 (18,201)	5.44 (0.50)	19.69 (2.33)	86.6 (3.2)	22,287 (2,891)	3.62 (0.33)	6,137 (573)	5.6 (0.5)								
	N	4,624	112	112	112	4,613	112	2,000	2,000								
PERCENT OF TOTAL LICENSEES																	
STATEWIDE	ESTIMATE (SE)	2,538,405 (77,291)	5.72 (0.13)	23.00 (0.59)	93.1 (0.6)	439,252 (13,001)	4.00 (0.10)	110,602 (1,843)	43.6 (0.7)								
	N	4,656	2,002	2,023	2,029	4,640	2,007	4,666	4,666								

TABLE 4. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF QUAIL HUNTING IN MISSISSIPPI DURING THE 1985-86 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	PERCENT OF TOTAL LICENSEES	
										N	(SE)
1	ESTIMATE (SE) N	102,918 (20,107) 4,637	3.61 (0.29) 90	20.66 (3.44) 91	87.9 (3.4) 91	28,242 (4,752) 4,629	5.72 (0.76) 90	5,034 (520) 722	12.7 (1.2) 722		
2	ESTIMATE (SE) N	397,822 (37,850) 4,637	2.45 (0.15) 375	19.22 (1.57) 378	86.0 (1.8) 378	162,376 (13,840) 4,629	7.90 (0.55) 375	20,684 (1,020) 722	52.4 (1.9) 722		
3	ESTIMATE (SE) N	22,938 (7,452) 4,637	2.76 (0.62) 36	11.64 (3.30) 36	80.6 (6.7) 36	8,335 (2,112) 4,629	4.22 (0.82) 36	1,970 (327) 722	5.0 (0.8) 722		
4	ESTIMATE (SE) N	129,031 (23,644) 4,637	2.51 (0.34) 147	15.61 (2.58) 151	80.8 (3.2) 151	50,780 (7,536) 4,629	6.30 (0.79) 147	8,317 (664) 722	21.1 (1.5) 722		
5	ESTIMATE (SE) N	38,266 (9,539) 4,637	2.27 (0.35) 64	10.92 (2.38) 64	81.3 (4.9) 64	16,890 (3,761) 4,629	4.81 (0.89) 64	3,502 (435) 722	8.9 (1.1) 722		
- 18 -											
STATEWIDE	ESTIMATE (SE) N	708,449 (50,055) 4,662	2.56 (0.12) 731	17.42 (1.09) 745	84.7 (1.3) 746	275,086 (17,011) 4,649	6.88 (0.36) 732	40,748 (1,364) 4,666	16.1 (0.5) 4,666		

TABLE 5. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF WOODCOCK HUNTING IN MISSISSIPPI DURING THE 1985-86 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	PERCENT OF TOTAL LICENSEES								
										ESTIMATE (SE)	N	ESTIMATE (SE)	N	ESTIMATE (SE)	N	ESTIMATE (SE)	N	ESTIMATE (SE)
1	ESTIMATE (SE)	4,357 (1,470)	1.52 (0.47)	4.21 (1.07)	100.0 (0.0)	2,619 (1,014)	2.82 (0.88)	1,035 (237)	18.8 (3.9)									
2	ESTIMATE (SE)	7,080 (1,753)	0.77 (0.12)	3.51 (0.66)	83.8 (6.1)	9,058 (2,660)	4.74 (1.16)	2,015 (330)	36.6 (4.8)									
3	ESTIMATE (SE)	2,396 (1,331)	1.07 (0.24)	7.33 (3.03)	83.3 (16.7)	1,473 (1,109)	5.40 (3.66)	327 (133)	5.9 (2.4)									
4	ESTIMATE (SE)	6,263 (1,695)	0.83 (0.21)	4.58 (0.89)	87.5 (6.9)	6,493 (1,852)	5.41 (1.05)	1,307 (266)	23.8 (4.3)									
5	ESTIMATE (SE)	2,287 (983)	0.39 (0.15)	2.80 (1.00)	80.0 (10.7)	5,620 (2,539)	7.92 (2.94)	817 (211)	14.9 (3.6)									
PERCENT OF TOTAL LICENSEES														PERCENT OF TOTAL LICENSEES				
STATEWIDE	ESTIMATE (SE)	22,958 (3,291)	0.80 (0.10)	3.93 (0.43)	87.7 (3.2)	25,739 (4,382)	4.97 (0.68)	5,767 (554)	2.3 (0.2)									
	N	4,666	95	106	106	4,655	95	4,666	4,666									

TABLE 6. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF RABBIT HUNTING IN MISSISSIPPI DURING THE 1985-86 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									HUNTERS	PER REGION
1	ESTIMATE (SE)	238,110 (23,417)	2.11 (0.16)	13.81 (1.13)	93.6 (1.4)	110,921 (11,017)	6.51 (0.54)	17,535 (953)	18.7 (0.9)	
	N	4,549	302	309	312	4,513	303	1,689	1,689	
2	ESTIMATE (SE)	330,742 (30,892)	1.54 (0.12)	10.32 (0.88)	88.7 (1.3)	205,642 (15,009)	6.56 (0.40)	31,953 (1,247)	34.0 (1.2)	
	N	4,549	557	574	574	4,513	557	1,689	1,689	
3	ESTIMATE (SE)	80,802 (10,950)	1.66 (0.17)	9.11 (1.01)	92.5 (2.1)	49,104 (6,271)	5.56 (0.56)	8,907 (692)	9.5 (0.7)	
	N	4,549	156	159	159	4,513	157	1,689	1,689	
4	ESTIMATE (SE)	233,590 (18,465)	1.32 (0.09)	9.47 (0.62)	91.6 (1.3)	173,918 (14,590)	7.19 (0.51)	24,605 (1,112)	26.2 (1.1)	
	N	4,549	429	440	441	4,513	430	1,689	1,689	
5	ESTIMATE (SE)	155,020 (23,099)	1.73 (0.16)	14.17 (1.87)	88.8 (2.2)	89,996 (10,381)	8.21 (0.75)	11,022 (766)	11.7 (0.8)	
	N	4,549	194	196	197	4,513	195	1,689	1,689	
										PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE)	1,077,563 (48,562)	1.61 (0.06)	11.08 (0.46)	90.4 (0.7)	652,794 (25,707)	6.86 (0.26)	97,654 (1,808)	38.5 (0.7)	
	N	4,650	1,717	1,779	1,785	4,594	1,723	4,666	4,666	

TABLE 7. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF SQUIRREL HUNTING IN MISSISSIPPI DURING THE 1985-86 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS
1	ESTIMATE (SE) N	388,570 (27,550) 4,507	2.98 (0.15) 417	16.16 (0.87) 427	95.1 (1.0) 430	129,204 (9,175) 4,452	5.42 (0.29) 418	24,264 (1,109) 2,630	16.5 (0.7) 2,630	
2	ESTIMATE (SE) N	729,152 (38,661) 4,507	2.27 (0.08) 943	13.39 (0.60) 966	91.8 (0.9) 968	317,821 (15,256) 4,452	5.89 (0.23) 946	54,524 (1,549) 2,630	37.0 (0.9) 2,630	
3	ESTIMATE (SE) N	303,692 (29,733) 4,507	2.81 (0.18) 315	16.75 (1.03) 322	97.5 (0.9) 322	105,997 (9,191) 4,452	5.88 (0.40) 316	18,100 (971) 2,630	12.3 (0.6) 2,630	
4	ESTIMATE (SE) N	579,165 (39,543) 4,507	2.37 (0.10) 625	15.92 (0.82) 646	93.1 (1.0) 648	233,262 (13,370) 4,452	6.52 (0.29) 627	36,424 (1,322) 2,630	24.7 (0.8) 2,630	
5	ESTIMATE (SE) N	226,192 (22,819) 4,507	2.44 (0.19) 243	16.26 (1.30) 247	90.7 (1.8) 248	93,168 (8,563) 4,452	6.67 (0.45) 245	14,065 (863) 2,630	9.5 (0.6) 2,630	
PERCENT OF TOTAL LICENSEES										
STATEWIDE	ESTIMATE (SE) N	2,268,034 (61,884) 4,639	2.47 (0.05) 2,649	15.12 (0.37) 2,740	93.2 (0.5) 2,749	897,312 (23,002) 4,560	6.06 (0.14) 2,660	150,480 (1,826) 4,666	59.3 (0.7) 4,666	

TABLE 8. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF RACCOON HUNTING IN MISSISSIPPI DURING THE 1985-86 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE DAYS HUNTING	TOTAL HUNTERS	AVERAGE PERCENT HUNTERS PER REGION	
									SE	N
1	ESTIMATE (SE) N	48,206 (14,390) 4,634	1.23 (0.25) 66	12.57 (3.47) 70	88.7 (3.8) 71	36,924 (8,955) 4,613	10.01 (2.12) 67	3,886 (458) 357	19.9 (2.1) 357	
2	ESTIMATE (SE) N	85,455 (16,578) 4,634	0.86 (0.14) 116	12.58 (2.18) 124	89.6 (2.7) 125	91,622 (14,908) 4,613	14.35 (1.94) 116	6,841 (604) 357	35.0 (2.5) 357	
3	ESTIMATE (SE) N	12,325 (3,165) 4,634	0.97 (0.14) 36	5.92 (1.20) 38	92.1 (4.4) 38	12,106 (3,072) 4,613	6.11 (1.19) 36	2,135 (340) 357	10.9 (1.7) 357	
4	ESTIMATE (SE) N	28,266 (5,481) 4,634	0.40 (0.13) 92	5.27 (0.88) 98	89.8 (3.1) 98	69,721 (22,750) 4,613	13.77 (4.29) 92	5,418 (539) 357	27.7 (2.4) 357	
5	ESTIMATE (SE) N	6,354 (2,516) 4,634	0.85 (0.26) 21	4.96 (1.75) 23	91.3 (6.0) 23	7,264 (2,578) 4,613	6.29 (1.80) 21	1,259 (262) 357	6.4 (1.3) 357	
										PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE) N	188,996 (22,923) 4,6662	0.78 (0.11) 348	9.10 (1.01) 381	90.1 (1.5) 383	224,075 (28,800) 4,630	11.71 (1.38) 349	20,945 (1,023) 4,666	8.3 (0.4) 4,666	

TABLE 9. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF ALL-BUCK HUNTING IN MISSISSIPPI DURING THE 1985-86 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION														
									ESTIMATE (SE)	N	ESTIMATE (SE)	N	ESTIMATE (SE)	N	ESTIMATE (SE)	N	ESTIMATE (SE)	N	ESTIMATE (SE)	N	STATEWIDE ESTIMATE (SE)	N	
1	ESTIMATE (SE)	212,415 (23,489)	2.11 (0.10)	18.37 (1.62)	90.6 (2.0)	94,856 (8,827)	8.38 (0.53)	11,655 (780)	34.7 (1.9)														
	N	4,632	205	211	212	4,619	206	613															
2	ESTIMATE (SE)	95,685 (12,055)	1.22 (0.09)	8.31 (0.89)	79.1 (2.8)	77,160 (7,541)	6.82 (0.48)	11,546 (777)	34.4 (1.9)														
	N	4,632	205	210	211	4,619	206	613															
3	ESTIMATE (SE)	38,088 (8,622)	2.07 (0.21)	14.18 (2.52)	83.7 (5.3)	18,466 (3,575)	6.86 (0.91)	2,681 (381)	8.0 (1.1)														
	N	4,632	49	49	49	4,619	49	613															
4	ESTIMATE (SE)	31,840 (5,774)	1.07 (0.09)	5.75 (0.88)	73.3 (4.4)	27,698 (4,154)	5.20 (0.58)	5,636 (549)	16.8 (1.5)														
	N	4,632	96	101	101	4,619	97	613															
5	ESTIMATE (SE)	17,975 (5,314)	1.46 (0.20)	9.37 (2.31)	82.9 (6.5)	14,069 (3,682)	7.31 (1.49)	2,025 (332)	6.0 (1.0)														
	N	4,632	33	35	35	4,619	35	613															
														PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE (SE)	409,673 (28,786)	1.65 (0.06)	11.88 (0.71)	83.0 (1.5)	236,886 (13,060)	7.05 (0.28)	36,888 (1,279)	13.7 (0.5)														
	N	4,659	609	633	635	4,640	614	613															

TABLE 10. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF MALLARD-WOOD-DUCK-AND-OTHER-DUCK HUNTING IN MISSISSIPPI
DURING THE 1985-86 HUNTING SEASON.

		MALLARDS						WOOD-DUCKS						OTHER-DUCKS					
REGION(1)	STATISTIC	TOTAL HARVEST		PERCENT SUCCESSFUL HUNTERS		AVERAGE DAILY KILL		TOTAL HARVEST		PERCENT SUCCESSFUL HUNTERS		AVERAGE DAILY KILL		TOTAL HARVEST		PERCENT SUCCESSFUL HUNTERS		AVERAGE DAILY KILL	
		AVERAGE DAILY KILL	SEASONAL HARVEST	AVERAGE DAILY KILL	SEASONAL HARVEST	AVERAGE DAILY KILL	SEASONAL HARVEST	AVERAGE DAILY KILL	SEASONAL HARVEST	AVERAGE DAILY KILL	SEASONAL HARVEST	AVERAGE DAILY KILL	SEASONAL HARVEST	AVERAGE DAILY KILL	SEASONAL HARVEST	AVERAGE DAILY KILL	SEASONAL HARVEST	AVERAGE DAILY KILL	SEASONAL HARVEST
1	ESTIMATE (SE) N	125·162 (14·453) 4,633	1·26 (0·08) 206	10·77 (1·01) 212	81·6 (2·7) 212	35·395 (4·962) 4,633	0·32 (0·03) 206	3·05 (0·38) 212	56·2 (3·4) 212	56·228 (6·043) 4,632	0·56 (0·06) 205	6·86 (0·62) 211	46·2 (3·4) 212	56·228 (6·043) 4,632	0·56 (0·06) 205	6·86 (0·62) 211	56·228 (6·043) 4,632	0·56 (0·06) 205	6·86 (0·62) 211
2	ESTIMATE (SE) N	34·409 (4·619) 4,633	0·44 (0·04) 205	2·99 (0·35) 210	53·1 (3·4) 211	37·806 (5·166) 4,633	0·49 (0·05) 205	3·29 (0·39) 210	60·7 (3·4) 211	23·456 (5·700) 4,632	0·29 (0·06) 205	2·04 (0·48) 210	27·0 (3·1) 211	23·456 (5·700) 4,632	0·29 (0·06) 205	2·04 (0·48) 210	23·456 (5·700) 4,632	0·29 (0·06) 205	2·04 (0·48) 210
3	ESTIMATE (SE) N	19·779 (5·011) 4,633	1·07 (0·15) 49	7·37 (1·56) 49	63·3 (7·0) 49	7·999 (2·305) 4,633	0·43 (0·09) 49	2·98 (0·75) 49	51·0 (7·2) 49	10·303 (2·766) 4,632	0·56 (0·1) 49	3·84 (0·88) 49	38·8 (7·0) 49	10·303 (2·766) 4,632	0·56 (0·1) 49	3·84 (0·88) 49	10·303 (2·766) 4,632	0·56 (0·1) 49	3·84 (0·88) 49
4	ESTIMATE (SE) N	3·397 (0·115) 4,633	0·11 (0·03) 96	0·61 (0·15) 101	23·8 (4·3) 101	22·903 (3·793) 4,633	0·76 (0·07) 96	4·14 (0·15) 101	63·4 (4·8) 101	5·535 (2·620) 4,632	0·20 (0·08) 96	1·00 (0·47) 101	10·9 (3·1) 101	5·535 (2·620) 4,632	0·20 (0·08) 96	1·00 (0·47) 101	5·535 (2·620) 4,632	0·20 (0·08) 96	1·00 (0·47) 101
5	ESTIMATE (SE) N	2·485 (0·940) 4,633	0·21 (0·04) 33	1·40 (0·44) 35	34·3 (6·1) 35	7·123 (1·917) 4,633	0·58 (0·12) 33	3·71 (0·79) 35	65·7 (8·1) 35	8·166 (3·721) 4,632	0·67 (0·33) 35	4·26 (1·83) 35	34·3 (8·1) 35	8·166 (3·721) 4,632	0·67 (0·33) 35	4·26 (1·83) 35	8·166 (3·721) 4,632	0·67 (0·33) 35	4·26 (1·83) 35
STATEWIDE	ESTIMATE (SE) N	189·241 (15·957) 4,660	0·76 (0·05) 610	5·48 (0·42) 634	57·5 (2·0) 635	118·698 (8·946) 4,660	0·46 (0·02) 610	3·44 (0·23) 634	58·7 (2·0) 635	106·028 (11·155) 4,659	0·44 (0·04) 609	3·07 (0·30) 633	32·1 (1·9) 635	106·028 (11·155) 4,659	0·44 (0·04) 609	3·07 (0·30) 633	106·028 (11·155) 4,659	0·44 (0·04) 609	3·07 (0·30) 633

TABLE 11. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF GOOSE HUNTING IN MISSISSIPPI DURING THE 1985-86 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST			TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
				SEASONAL HARVEST	SUCCESSFUL HUNTERS	PERCENT HUNTERS				
1	ESTIMATE (SE) N	817 (331) 4,659	0.22 (0.11) 14	1.00 (0.32) 15	53.3 (13.3) 15	2,998 (1,003) 4,657	3.93 (0.82) 14	817 (211) 48	31.3 (6.8) 48	
2	ESTIMATE (SE) N	1,744 (702) 4,659	0.17 (0.07) 23	1.28 (0.46) 25	52.0 (10.2) 25	8,394 (2,143) 4,657	6.70 (1.01) 23	1,362 (272) 48	52.1 (7.3) 48	
3	ESTIMATE (SE) N	0 (0) 4,659	0.00 (0.00) 2	0.00 (0.00) 2	0.0 (0.0) 2	818 (609) 4,657	7.50 (2.50) 2	109 (77) 48	4.2 (2.9) 48	
4	ESTIMATE (SE) N	0 (0) 4,659	0.00 (0.00) 4	0.00 (0.00) 4	0.0 (0.0) 4	709 (553) 4,657	3.25 (2.25) 4	218 (109) 48	8.3 (4.0) 48	
5	ESTIMATE (SE) N	0 (0) 4,659	0.00 (0.0) 1	0.00 (0.0) 1	0.0 (0.0) 1	1,036 (983) 4,657	9.50 (8.50) 2	109 (77) 48	4.2 (2.9) 48	
PERCENT OF TOTAL LICENSEES										
STATEWIDE	ESTIMATE (SE) N	2,775 (786) 4,665	0.16 (0.05) 48	0.96 (0.24) 53	45.3 (6.9) 53	14,650 (2,711) 4,661	5.49 (0.66) 49	2,938 (398) 4,666	1.2 (0.2) 4,666	

TABLE 12. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF BEB-FOX HUNTING IN MISSISSIPPI DURING THE 1985-86 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									HUNTERS	HUNTERS
1	ESTIMATE (SE)	981 (449)	0.64 (0.12)	2.00 (0.67)	100.0 (0.0)	1,366 (710)	3.57 (1.38)	490 (163)	16.1 (5.0)	56
	N	4,659	7	9	9	4,646	7	56		56
2	ESTIMATE (SE)	708 (261)	0.03 (0.02)	0.72 (0.21)	52.6 (11.8)	12,567 (5,088)	17.69 (5.44)	1,035 (237)	33.9 (6.4)	56
	N	4,659	13	18	19	4,646	13	56		56
3	ESTIMATE (SE)	109 (77)	0.03 (0.03)	0.50 (0.29)	50.0 (28.9)	3,661 (2,839)	16.75 (11.47)	218 (109)	7.1 (3.5)	56
	N	4,659	4	4	4	4,646	4	56		56
4	ESTIMATE (SE)	981 (267)	0.12 (0.08)	0.95 (0.14)	78.9 (9.6)	5,955 (3,508)	7.27 (3.98)	1,035 (237)	33.9 (6.4)	56
	N	4,659	15	19	19	4,646	15	56		56
5	ESTIMATE (SE)	327 (189)	0.29 (0.32)	1.20 (0.49)	80.0 (20.0)	765 (573)	4.67 (2.73)	272 (122)	8.9 (3.8)	56
	N	4,659	3	5	5	4,646	3	56		56
PERCENT OF TOTAL LICENSEES										
STATEWIDE	ESTIMATE (SE)	3,591 (728)	0.11 (0.04)	1.08 (0.17)	69.4 (5.9)	24,789 (6,858)	10.09 (2.38)	3,373 (426)	1.3 (0.2)	56
	N	4,665	45	61	62	4,649	45	4,666	4,666	

TABLE 13. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF GRAY-FOOT HUNTING IN MISSISSIPPI DURING THE 1985-86 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE SEASONAL HARVEST						PERCENT SUCCESSFUL HUNTERS			TOTAL MANDAYS			AVERAGE SEASONAL DAYS HUNTING			TOTAL HUNTERS			PERCENT HUNTERS PER REGION		
			AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	TOTAL HARVEST	PERCENT SUCCESSFUL HUNTERS	AVERAGE SEASONAL HARVEST	TOTAL MANDAYS	PERCENT SUCCESSFUL HUNTERS	AVERAGE SEASONAL DAYS HUNTING	TOTAL MANDAYS	PERCENT SUCCESSFUL HUNTERS	AVERAGE SEASONAL DAYS HUNTING	TOTAL MANDAYS	PERCENT SUCCESSFUL HUNTERS	AVERAGE SEASONAL DAYS HUNTING	TOTAL MANDAYS	PERCENT SUCCESSFUL HUNTERS	AVERAGE SEASONAL DAYS HUNTING	TOTAL MANDAYS	PERCENT SUCCESSFUL HUNTERS		
1	ESTIMATE (SE)	163 (122)	0.43 (0.41)	1.00 (0.58)	3	66.7 (33.3)	382 (250)	3	2.33 (0.88)	163 (94)	40	7.5 (4.0)	40	40	40	40	40	40	40	40	40		
	N	4,661	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
2	ESTIMATE (SE)	926 (313)	0.04 (0.02)	0.85 (0.22)	15	61.9 (10.9)	12,381 (5,070)	21	15.13 (4.98)	1,143 (249)	40	52.5 (8.0)	40	40	40	40	40	40	40	40	40		
	N	4,661	15	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21		
3	ESTIMATE (SE)	218 (109)	0.04 (0.05)	0.80 (0.20)	4	80.0 (20.0)	80,036 (3,820)	5	18.50 (17.17)	272 (122)	40	12.5 (5.3)	40	40	40	40	40	40	40	40	40		
	N	4,661	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
4	ESTIMATE (SE)	381 (163)	0.07 (0.06)	0.78 (0.22)	8	66.7 (16.7)	4,745 (3,350)	9	10.88 (7.10)	490 (163)	40	22.5 (6.0)	40	40	40	40	40	40	40	40	40		
	N	4,661	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9		
5	ESTIMATE (SE)	109 (77)	0.13 (0.12)	1.00 (0.00)	2	100.0 (0.0)	818 (766)	2	7.50 (6.50)	109 (77)	40	5.0 (3.5)	40	40	40	40	40	40	40	40	40		
	N	4,661	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
STATEWIDE	ESTIMATE (SE)	1,850 (399)	0.06 (0.02)	0.79 (0.12)	34	63.6 (7.3)	22,626 (7,218)	44	12.21 (3.34)	2,394 (359)	4,666	0.9 (0.1)	4,666	4,666	4,666	4,666	4,666	4,666	4,666	4,666	4,666		

TABLE 14. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF BOBCAT HUNTING IN MISSISSIPPI DURING THE 1985-86 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									PERCENT HUNTERS	PER CENT PER REGION
1	ESTIMATE (SE) N	654 (204) 4,657	0.09 (0.08) 7	0.80 (0.14) 15	73.3 (11.8) 15	1,757 (1,147) 4,622	4.57 (2.63) 7	817 (211) 98	15.3 (3.7)	98
2	ESTIMATE (SE) N	2,616 (538) 4,657	0.22 (0.09) 25	1.30 (0.16) 37	84.2 (6.0) 38	7,414 (2,830) 4,622	5.40 (1.79) 25	2,071 (335) 98	38.8 (4.9)	98
3	ESTIMATE (SE) N	1,036 (381) 4,657	0.83 (0.16) 7	1.73 (0.38) 11	100.0 (0.1) 11	659 (320) 4,622	1.71 (0.57) 7	599 (181) 98	11.2 (3.2)	98
4	ESTIMATE (SE) N	1,962 (571) 4,657	0.40 (0.08) 19	1.44 (0.31) 25	80.0 (8.2) 25	3,844 (1,597) 4,622	3.68 (1.31) 19	1,362 (272) 98	25.5 (4.4)	98
5	ESTIMATE (SE) N	709 (322) 4,657	0.28 (0.22) 4	1.44 (0.47) 9	88.9 (11.1) 9	989 (781) 4,622	4.50 (3.18) 4	490 (163) 98	9.2 (2.9)	98
PERCENT OF TOTAL LICENSEES										-
STATEWIDE	ESTIMATE (SE) N	7,346 (957) 4,665	0.28 (0.06) 63	1.29 (0.11) 105	86.0 (5.6) 106	14,716 (3,543) 4,623	4.25 (0.88) 63	5,767 (554) 4,666	2.3 (0.2)	4,666

TABLE 15. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF EGRET HUNTING IN MISSISSIPPI DURING THE 1985-86 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									AVERAGE SEASONAL HARVEST	TOTAL MANDAYS
1	ESTIMATE (SE) N	8,317 (2,903) 4,639	0.50 (0.07) 42	2.50 (0.83) 60	88.3 (4.2) 60	7,929 (1,840) 4,546	3.38 (0.60) 42	3,281 (421) 334	18.0 (2.1) 334	
2	ESTIMATE (SE) N	14,829 (2,010) 4,639	0.24 (0.04) 109	1.82 (0.20) 148	80.0 (3.3) 150	41,880 (7,112) 4,546	6.76 (0.96) 111	8,257 (661) 334	45.2 (2.7) 334	
3	ESTIMATE (SE) N	4,815 (1,067) 4,639	0.56 (0.12) 27	2.00 (0.33) 44	93.2 (3.8) 44	5,193 (1,577) 4,546	3.44 (0.83) 27	2,406 (361) 334	13.2 (1.9) 334	
4	ESTIMATE (SE) N	5,144 (1,068) 4,639	0.08 (0.04) 46	1.49 (0.25) 63	77.8 (5.3) 63	36,296 (18,174) 4,546	14.13 (6.84) 46	3,445 (431) 334	18.9 (2.1) 334	
5	ESTIMATE (SE) N	1,623 (589) 4,639	0.14 (0.05) 12	1.63 (0.55) 16	68.8 (12.0) 16	8,934 (5,872) 4,546	13.33 (8.22) 12	875 (218) 334	4.8 (1.2) 334	
										PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE) N	36,800 (3,913) 4,663	0.21 (0.04) 244	1.89 (0.18) 355	82.1 (2.0) 357	103,010 (20,503) 4,554	7.51 (1.42) 246	19,476 (989) 4,666	7.7 (0.4) 4,666	

TABLE 16. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF ARCHERY DEER HUNTING IN MISSISSIPPI DURING THE 1985-86 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE (SE)	4,235 (656)	0.066 (0.008)	0.56 (0.07)	36.8 (4.0)	64,380 (6,734)	8.75 (0.56)	7,523 (617)	20.1 (1.5)
	N	4,348	140	144	144	4,326	14.0	715	715
2	ESTIMATE (SE)	4,549 (716)	0.043 (0.006)	0.38 (0.05)	23.8 (2.8)	101,642 (8,803)	8.67 (0.50)	12,120 (774)	32.4 (1.8)
	N	4,348	223	231	231	4,326	22.3	715	715
3	ESTIMATE (SE)	2,510 (483)	0.049 (0.008)	0.44 (0.07)	30.9 (4.4)	48,981 (5,990)	8.88 (0.67)	5,747 (541)	15.4 (1.4)
	N	4,348	105	110	110	4,326	10.5	715	715
4	ESTIMATE (SE)	5,124 (786)	0.058 (0.007)	0.58 (0.08)	35.5 (3.7)	80,777 (7,751)	9.43 (0.54)	8,881 (668)	23.8 (1.6)
	N	4,348	162	169	169	4,326	16.3	715	715
5	ESTIMATE (SE)	1,307 (401)	0.044 (0.012)	0.44 (0.12)	26.3 (5.9)	30,745 (5,094)	10.09 (1.04)	3,082 (399)	8.3 (1.0)
	N	4,348	56	57	57	4,326	5.8	715	715
PERCENT OF TOTAL LICENSEE (A)									
STATEWIDE	ESTIMATE (SE)	18,120 (1,391)	0.051 (0.003)	0.47 (0.03)	30.1 (1.7)	333,348 (15,047)	8.95 (0.26)	38,696 (1,291)	17.0 (0.6)
	N	4,379	710	742	742	4,350	713	4,383	4,383

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

TABLE 17. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF ARCHERY-BUCK-AND-DOE HUNTING IN MISSISSIPPI
DURING THE 1985-86 HUNTING SEASON.

REGION	STATISTIC	BUCKS			DOES		
		TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL
1	ESTIMATE (SE) N	1,307 (290) 4,348	0.020 (0.04) 140	0.17 (0.04) 144	15.3 (3.0) 144	2,928 (483) 4,348	0.046 (0.006) 140
2	ESTIMATE (SE) N	2,562 (475) 4,348	0.024 (0.004) 223	0.21 (0.04) 231	15.6 (2.4) 231	1,987 (376) 4,348	0.019 (0.003) 223
3	ESTIMATE (SE) N	1,255 (322) 4,348	0.026 (0.006) 105	0.22 (0.05) 110	18.2 (3.7) 110	1,255 (295) 4,348	0.024 (0.005) 105
4	ESTIMATE (SE) N	2,562 (486) 4,348	0.028 (0.005) 162	0.29 (0.05) 169	20.7 (3.1) 169	2,562 (457) 4,348	0.030 (0.005) 162
5	ESTIMATE (SE) N	627 (245) 4,348	0.021 (0.008) 56	0.21 (0.08) 57	14.0 (4.6) 57	680 (215) 4,348	0.023 (0.006) 56
STATEWIDE	ESTIMATE (SE) N	8,567 (851) 4,379	0.024 (0.002) 710	0.22 (0.02) 742	16.7 (1.6) 742	9,553 (838) 4,379	0.027 (0.002) 710

TABLE 18. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF PRIMITIVE-WEAPON-DEER HUNTING IN MISSISSIPPI
DURING THE 1985-86 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	PERCENT OF TOTAL LICENSEE(A)	
										ESTIMATE (SE)	N
1	ESTIMATE (SE)	6,596 (838)	0.143 (0.014)	0.75 (0.08)	50.0 (3.9)	44,373 (4,026)	5.16 (0.25)	8,789 (665)	18.6 (1.3)		905
2	ESTIMATE (SE)	6,387 (707)	0.094 (0.009)	0.44 (0.04)	33.5 (2.9)	65,637 (4,692)	4.73 (0.19)	14,438 (841)	30.5 (1.5)		905
3	ESTIMATE (SE)	5,130 (678)	0.129 (0.014)	0.60 (0.06)	42.3 (3.9)	38,992 (3,591)	4.74 (0.23)	8,527 (655)	18.0 (1.3)		905
4	ESTIMATE (SE)	8,009 (872)	0.129 (0.012)	0.70 (0.06)	48.6 (3.4)	58,514 (4,718)	5.31 (0.23)	11,457 (754)	24.2 (1.4)		905
5	ESTIMATE (SE)	2,251 (476)	0.111 (0.019)	0.55 (0.10)	41.0 (5.6)	20,050 (2,695)	4.94 (0.36)	4,133 (461)	8.7 (0.9)		905
<hr/>											
STATEWIDE	ESTIMATE (SE)	29,016 (1,588)	0.119 (0.005)	0.60 (0.03)	42.2 (1.6)	232,494 (8,497)	4.96 (0.10)	48,863 (1,411)	21.5		
		N	4,380	892	939	4,335	894	4,383	4,383		

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

TABLE 19. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF PRIMITIVE-WEAPON-BUCK-AND-DOE HUNTING IN MISSISSIPPI
DURING THE 1985-86 HUNTING SEASON.

REGION	STATISTIC	BUCKS			DOES		
		TOTAL HARVEST	AVERAGE DAILY KILL	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL	PERCENT SUCCESSFUL HUNTERS
1	ESTIMATE (SE) N	3,141 (483) 4,343	0.069 (0.009) 163	0.36 (0.05) 168	28.6 (3.5) 168	3,455 (526) 4,343	0.074 (0.010) 163
2	ESTIMATE (SE) N	3,141 (448) 4,343	0.047 (0.006) 263	0.22 (0.03) 275	19.3 (2.4) 275	3,246 (454) 4,343	0.047 (0.006) 263
3	ESTIMATE (SE) N	2,408 (430) 4,343	0.061 (0.010) 156	0.28 (0.05) 163	22.1 (3.3) 163	2,722 (410) 4,343	0.068 (0.009) 156
4	ESTIMATE (SE) N	3,926 (512) 4,343	0.064 (0.007) 208	0.34 (0.04) 218	29.8 (3.1) 218	4,083 (565) 4,343	0.064 (0.008) 208
5	ESTIMATE (SE) N	681 (203) 4,343	0.032 (0.009) 76	0.17 (0.05) 78	15.4 (4.1) 78	1,570 (354) 4,343	0.080 (0.015) 76
STATEWIDE	ESTIMATE (SE) N	13,704 (955) 4,360	0.056 (0.004) 892	0.28 (0.02) 939	23.6 (1.4) 939	15,313 (1,032) 4,380	0.063 (0.004) 892

TABLE 20. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF REGULAR-SUN-DEER HUNTING IN MISSISSIPPI
DURING THE 1985-86 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE (SE)	34,260 (2,228)	0.107 (0.005)	1.23 (0.06)	60.0 (2.0)	318,836 (17,097)	11.48 (0.38)	27,908 (1,148)	15.4 (0.6)
	N	4,214	493	517	517	4,036	493	3,380	3,380
2	ESTIMATE (SE)	63,609 (2,998)	0.071 (0.003)	0.94 (0.04)	47.2 (1.4)	849,198 (27,119)	12.67 (0.26)	67,432 (1,597)	37.1 (0.8)
	N	4,214	1,189	1,251	1,252	4,036	1,190	3,380	3,380
3	ESTIMATE (SE)	32,695 (2,242)	0.091 (0.005)	1.29 (0.07)	61.1 (2.3)	352,241 (19,130)	13.93 (0.43)	25,327 (1,100)	13.9 (0.6)
	N	4,214	448	470	470	4,036	449	3,380	3,380
4	ESTIMATE (SE)	44,672 (2,445)	0.070 (0.003)	0.98 (0.04)	49.9 (1.7)	594,523 (23,870)	13.36 (0.33)	45,761 (1,402)	25.2 (0.7)
	N	4,214	787	847	849	4,036	790	3,380	3,380
5	ESTIMATE (SE)	13,704 (1,399)	0.065 (0.005)	0.90 (0.08)	47.2 (3.0)	201,329 (14,667)	13.44 (0.57)	15,325 (877)	8.4 (0.5)
	N	4,214	264	281	282	4,036	266	3,380	3,380
PERCENT OF TOTAL LICENSEE(A)									
STATEWIDE	ESTIMATE (SE)	187,943 (4,417)	0.077 (0.002)	1.03 (0.02)	51.3 (0.8)	2,320,690 (33,871)	12.84 (0.16)	183,367 (1,357)	80.7 (0.6)
	N	4,367	3,287	3,519	3,524	4,142	3,294	4,383	4,383

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

TABLE 21. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF REGULAR-SUN-BUCK-AND-ROE HUNTING IN MISSISSIPPI
DURING THE 1985-86 HUNTING SEASON.

REGION	STATISTIC	BUCKS			ROES		
		TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL
1	ESTIMATE (SE) N	27,839 (1,868) 4,214	0.086 (0.004) 493	1.00 (0.05) 517	55.3 (2.2) 517	6,417 (719) 4,216	0.020 (0.002) 493
2	ESTIMATE (SE) N	56,761 (2,598) 4,214	0.061 (0.002) 1,189	0.81 (0.03) 1,251	44.7 (1.4) 1,252	8,844 (831) 4,216	0.010 (0.001) 1,189
3	ESTIMATE (SE) N	27,354 (1,921) 4,214	0.077 (0.004) 448	1.08 (0.06) 470	56.4 (2.3) 470	5,339 (658) 4,216	0.015 (0.002) 448
4	ESTIMATE (SE) N	39,978 (2,249) 4,214	0.063 (0.003) 787	0.87 (0.04) 847	47.2 (1.7) 849	6,746 (648) 4,216	0.007 (0.001) 788
5	ESTIMATE (SE) N	11,816 (1,249) 4,214	0.057 (0.005) 264	0.78 (0.07) 281	42.9 (3.0) 282	1,887 (490) 4,216	0.009 (0.002) 264
STATEWIDE	ESTIMATE (SE) N	160,990 (3,885) 4,368	0.066 (0.002) 3,287	0.88 (0.02) 3,520	48.0 (0.8) 3,524	26,956 (1,435) 4,369	0.011 (0.001) 3,288

TABLE 22. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF SPRING-TURKEY HUNTING IN MISSISSIPPI DURING THE 1985 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION									
1	ESTIMATE	4,468 (780) 3,913	0.107 (0.012) 103	0.73 (0.11) 103	37.9 (4.8) 103	42,159 (6,037) 3,887	6.83 (0.72) 103	6,192 (599) 861	12.1 (1.1) 861									
2	ESTIMATE	10,663 (1,242) 3,913	0.103 (0.008) 193	0.90 (0.06) 199	48.7 (3.6) 199	97,632 (9,242) 3,887	8.44 (0.54) 193	11,849 (818) 861	23.1 (1.4) 861									
3	ESTIMATE	13,344 (1,381) 3,913	0.147 (0.009) 174	1.24 (0.09) 181	62.4 (3.6) 181	87,497 (8,446) 3,887	8.39 (0.52) 174	10,777 (782) 861	21.0 (1.4) 861									
4	ESTIMATE	19,897 (1,625) 3,913	0.120 (0.007) 299	1.06 (0.06) 312	60.9 (2.8) 312	157,782 (12,127) 3,887	8.77 (0.47) 300	18,636 (1,011) 861	36.4 (1.6) 861									
5	ESTIMATE	3,932 (737) 3,913	0.097 (0.010) 63	1.03 (0.15) 64	51.6 (6.3) 64	40,900 (6,402) 3,887	10.83 (1.03) 63	3,811 (472) 861	7.4 (0.9) 861									
STATEWIDE	ESTIMATE	52,989 (2,594) 3,946	0.117 (0.004) 858	1.00 (0.04) 892	54.2 (1.7) 893	433,284 (18,630) 3,915	8.45 (0.26) 861	52,876 (1,553) 3,950	22.7 (0.7) 3,950									

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

TABLE 23 • EXPANDED STATEWIDE SUMMARIES OF ALL DEER-BUCKS-AND DOE HUNTING IN MISSISSIPPI DURING THE 1985-86 HUNTING SEASON AND ALL TURKEY HUNTING (COMBINING SPRING AND FALL DATA) DURING THE 1985 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 (SE) N	234,955 (5,524) 4,367	0.078 (0.002) 3,353	1.26 (0.03) 3,594	53.5 (0.8) 3,599	2,899,327 (45,623) 4,133	15.69 (0.22) 3,360	187,257 (1,309) 4,383	82.4 (0.6) 4,383
BUCK	ESTIMATE (SE) N	183,164 (4,406) 4,368	0.061 (0.001) 3,353	0.98 (0.02) 3,595	49.1 (0.8) 3,599				
DOE	ESTIMATE (SE) N	51,882 (2,182) 4,369	0.017 (0.001) 3,354	0.28 (0.01) 3,596	19.3 (0.7) 3,598				
TURKEY	ESTIMATE (SE) N	52,989 (2,594) -	0.117 (0.004) 858	1.00 (0.04) 892	54.2 (1.7) 893	433,284 (18,630) -	8.45 (0.26) 861	52,876 (1,553) 3,950	22.7 (0.7) 3,950

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



1985-86 MISSISSIPPI HUNTER QUESTIONNAIRE

Region	Region	Region	Region
Region	Region	Region	Region
SEASON CLOSED			
Region	Region	Region	Region
Region	Region	Region	Region

B. Please answer the following questions.

1. The 1985-86 fall and winter hunting seasons have just been completed. Did you purchase a license to hunt deer and turkey during the previous 1984-85 hunting seasons (not the one just completed)?
 1 Yes
 2 No
2. How many bobcats did you see while deer hunting during the 1985-86 regular gun season?
 bobcat(s)
3. If you killed a bobcat during the 1985-86 hunting seasons, how many did you kill while:
 - a. deer hunting during regular gun season?
 bobcat(s)
 - b. hunting for other game?
 bobcat(s)
 - c. hunting specifically for bobcat?
 bobcat(s)
4. Did you hunt on a Mississippi Department of Wildlife Conservation Wildlife Management Area during the 1985-86 hunting seasons?
 1 Yes
 2 No
 3 Not sure
5. In order to hunt State Wildlife Management Areas, would you purchase a \$10 yearly permit if the money was used to benefit public hunting?
 1 Yes
 2 No
 3 Not sure

6. If the Department of Wildlife Conservation offered lifetime licenses to hunt and fish, would you purchase a:
 - a. Lifetime combination (all game hunting and fishing) license for \$500?
 1 Yes
 2 No
 3 Maybe
 - b. Lifetime all game hunting license for \$300?
 1 Yes
 2 No
 3 Maybe
7. Do you think the length of the current gun deer season is:
 - 1 Too long
 - 2 Too short
 - 3 Just right
8. If you hunted ducks or geese please answer the following questions:
 - a. In general, which statement best describes your feelings concerning the use of steel shot for waterfowl hunting?
 1 I am opposed to steel shot
 2 I am undecided about steel shot
 3 I favor steel shot
 - b. If a box of steel shot cost the same as a box of lead shot, which statement would best describe your feelings concerning the use of steel shot for waterfowl hunting?
 1 I would be opposed to steel shot
 2 I would be undecided about steel shot
 3 I would favor steel shot
 - c. Have you ever used steel shot to hunt waterfowl?
 1 Yes
 2 No
9. Your age: _____ yrs.

Fig. 1 Questionnaire used for the 1985-86 mail survey of game harvest and hunter effort in Mississippi.



MISSISSIPPI DEPARTMENT OF WILDLIFE CONSERVATION
P. O. Box 451 • Phone (601) 961-5300 • Jackson, MS 39205
Lon Strong, Executive Director

Dear Sportsman:

We need your help! The Department of Wildlife Conservation is surveying Mississippi hunters to obtain information concerning the 1985-86 hunting season and last spring's (1985) turkey season. You have been selected as a representative hunter to participate in the survey.

The purpose of this survey is to obtain reasonable estimates of game harvest, hunter effort and hunter opinions for the season just completed. 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 fill in the enclosed questionnaire as accurately as possible (even if you did not hunt) and return it in the self-addressed, postage-paid envelope.

Our records are often difficult to read and we apologize if your name or address has been misspelled. A prompt reply will be sincerely appreciated.

Survey Section
DEPARTMENT OF WILDLIFE CONSERVATION
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, effort and opinions of hunters in Mississippi for management purposes.

Sincerely,

Lon Strong
Executive Director

Fig. 3. Post card used as the first reminder mailing to nonrespondents during the 1985-86 survey of game harvest and hunter effort in Mississippi.



MISSISSIPPI DEPARTMENT OF WILDLIFE CONSERVATION

P. O. Box 451 • Phone (601) 961-5300 • Jackson, MS 39205

Lon Strong, Executive Director

Dear Sportsman:

The Department of Wildlife Conservation is striving to provide quality hunting for Mississippi sportsmen. While not wanting to impose, we are depending on you to help us evaluate hunting activity and success for the 1985-86 hunting season and last spring's (1985) turkey season.

Another copy of the questionnaire is enclosed which we hope you will complete and return as soon as possible in the enclosed self-addressed, postage-paid envelope. If you have already returned the questionnaire please disregard this notice.

Remember, you can be of assistance even if you did not hunt or were not successful in your efforts. Your cooperation is needed and will be sincerely appreciated.

Sincerely for better conservation,

A handwritten signature in black ink, appearing to read "Lon Strong".

Lon Strong
Executive Director

LS/cap

Enclosure

Fig. 4. Cover letter mailed with the second (and final) reminder mailing to nonrespondents during the 1985-68 survey of game harvest and hunter effort in Mississippi.