

MISSISSIPPI MAIL SURVEY OF GAME

HARVEST AND HUNTER EFFORT FOR 1987-88

by

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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 1987-88 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 5,532 sportsmen to be mailed a survey questionnaire was selected from the 1987-88 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 1987-88 fiscal year.

A 2.7 percent sample of hunting license buyers was selected from the 204,892 hunting license sales stubs (Types 01, 02, and 05) processed by the end of January, 1988. An approximate random sample was achieved by selecting stubs whose license numbers ended in predetermined but randomly selected sets of terminal digits between 000 and 999 (27 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 36 percent of the selected license stubs lacked complete names and addresses for mailing purposes, the 2.7 percent sample of stubs resulted in a 1.74 percent sample of usable licenses (3,539). Names and addresses were manually keypunched for each usable stub sampled.

Based on a 7 year average (80/81 - 86/87), 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 1.74 percent sample of license holders based on the January figure would be about a 1.6 percent ($0.912 \times 0.0174 \times 100$) sample of the expected June sales.

Because of the computerized and renewable aspects of Sportsman's licenses (Type 00), virtually all 87-88 Sportsman's license holders were accounted for by the end of January (28,556 Sportsman's license holders). To achieve a sample of Sportsman license holders comparable to the other types, a computer generated random sample of 457 (1.6%) 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 8, 1988 to the sampled hunters. About three weeks after the initial mailing reminder post cards (Figure 3) were mailed to 2,619 sampled hunters who had not returned their questionnaire. 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 to the 2,259 nonrespondents. First mailing questionnaires were given identification numbers from 100,001 to 103,996 while the final mailing was given a 200,000 numbering sequence to differentiate responses between mailings. Questionnaires returned four weeks after the final mailing were not considered in the analyses.

Questionnaire design and mailing procedures were outlined by Steffen

(1981). Procedures for editing and data entry of returned questionnaires were also identical to Steffen (1981).

Estimates (and their standard errors) for each species were calculated for the following indices; total kill, average seasonal kill per hunter, proportion of licensed hunters, total licensed hunters, proportion of hunters who were successful, total man-days spent hunting, average days afield per hunter and the average daily kill. These indices were calculated both on a statewide and regional (Figure 5) basis.

The 1987-88 survey, like the previous surveys, obtained information about two different hunting seasons or license years (i.e., spring 1987 turkey hunters hunted during the 1986-87 license year while hunters of the other surveyed species hunted during the 1987-88 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 1987 turkey hunting indices were calculated based on the total number of resident big game hunters during 1986-87 and on the respondents who also purchased a big game license during the previous July 1, 1986 - June 30, 1987 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 1987 estimates plus the fall 1987 estimates. The computer programs were altered to reflect these changes. All other calculations follow Steffen (1981).

RESULTS

Based on all three mailings, 496 (12.4%) of the 3,996 questionnaires

were returned as non-deliverable by the post office. Therefore 3,500 individuals were assumed to have been contacted to participate in the survey. Of these, 1,830 (52.3%) returned their questionnaires for possible analysis and 1,670 (47.1%) were nonresponses. Based on those questionnaires returned, 1,791 were answered and usable to some extent, 31 were returned after the acceptance deadline (4 weeks after the final mailing) and only 8 were considered completely useless.

Statewide expansions were calculated based on the 256,680 total hunting licenses sold and accounted for by the end of June 1988. There existed 256,680 individuals licensed to hunt small game and 231,598 (Types 00 + 01) of these license holders also were eligible to pursue big game (deer and turkey) during the 1987-88 hunting seasons. The spring, 1987 turkey hunting estimates were based on the 229,138 big game license holders accounted for in the 1986-87 license sales totals.

Based on the 1,791 usable responses, 95.8 ± 0.5 (SE) percent of all resident license holders actually participated in a hunting activity during the 1987-88 hunting season. Therefore an estimated $245,899 \pm 1,224$ (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 - 24. Statewide totals will not necessarily equal the sum of the regional totals. All figures were calculated independently and were the best statistical estimates available.

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.

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 1987-88 MISSISSIPPI MAIL SURVEY OF GAME HARVEST BASED ON 256,680 SMALL GAME LICENSE HOLDERS AND 231,598 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	3,019,850	6.73	25.94	93.8	445,836	3.84	116,950	45.6
QUAIL	604,346	2.81	14.19	81.0	225,762	5.39	42,949	16.7
WOODCOCK	24,086	1.40	3.86	86.0	17,141	2.88	6,239	2.4
RABBIT	369,259	1.56	9.80	90.0	621,899	6.35	99,683	38.8
SQUIRREL	2,276,703	2.39	14.01	92.9	939,880	5.82	163,091	63.5
RACCOON	194,833	0.78	6.71	87.1	229,492	8.35	29,165	11.4
ALL DUCKS	346,402	1.73	12.05	86.9	196,953	7.04	28,875	11.2
MALLARD	180,938	0.90	6.26	64.8				
WOOD DUCK	95,475	0.47	3.31	61.8				
OTHER DUCKS	72,736	0.36	2.53	40.2				
GEESE	1,161	0.09	0.62	38.5	13,502	7.75	1,886	0.7
RED FOX	3,918	0.05	0.71	52.6	79,840	16.15	5,514	2.1
GRAY FOX	4,353	0.04	0.67	53.3	79,046	15.06	6,529	2.5
BOBCAT	5,949	0.19	0.87	70.2	27,065	4.43	6,820	2.7
COYOTE	42,079	0.18	1.60	80.1	173,842	8.30	26,263	10.2
TOTAL DEER	265,217	0.071	1.33	57.3	3,603,325	18.15	200,067	86.4
BUCK	210,154	0.057	1.05	53.4				
DOE	55,030	0.015	0.28	18.7				
ARCHERY DEER	24,662	0.044	0.48	29.2	497,908	10.04	51,084	22.1
BUCK	10,609	0.019	0.21	16.5				
DOE	14,053	0.025	0.28	21.6				
PRIMITIVE DEER	32,120	0.095	0.51	37.4	319,508	5.33	61,686	26.6
BUCK	13,096	0.038	0.21	17.9				
DOE	19,024	0.057	0.30	26.2				
GUN DEER	208,217	0.073	1.06	54.8	2,763,333	14.19	196,349	84.8
BUCK	186,358	0.066	0.95	52.2				
DOE	21,846	0.008	0.11	8.9				
TOTAL TURKEY	60,206	0.068	0.93	52.9	554,738	13.64	65,722	24.1
SPRING 1987	59,241	0.106	0.94	53.3	545,910	8.77	63,516	27.0
FALL 1987	965	0.109	0.44	43.8	8,828	4.27	2,206	1.0

(A) DEER AND TURKEY PERCENTAGES BASED ON BIG GAME LICENSE HOLDERS; ALL OTHERS BASED ON SMALL GAME LICENSE HOLDERS.

TABLE 2. EXPANDED STATEWIDE ESTIMATES OF TOTAL HARVEST (AND THE VARIABILITY OF THE ESTIMATES) FOR ALL GAME SPECIES IN MISSISSIPPI DURING THE 1987-88 HUNTING SEASON.

SPECIES	TOTAL HARVEST	SE	STANDARD ERROR	95% CONFIDENCE INTERVAL	
			AS % OF TOTAL (A)	LOWER LIMIT	UPPER LIMIT
DOVE	3,019,550	144,185	4.8	2,731,480	3,308,220
QUAIL	604,346	75,220	12.4	453,906	754,786
WOODCOCK	24,086	6,626	27.5	10,834	37,338
RABBIT	969,259	68,855	7.1	831,549	1,106,969
SQUIRREL	2,276,703	91,101	4.0	2,094,501	2,458,905
RACCOON	194,833	28,362	14.6	138,109	251,557
ALL DUCKS	346,402	42,394	12.2	261,614	431,190
MALLARD	180,938	26,847	14.8	127,244	234,632
WOOD DUCK	95,475	11,821	12.4	71,833	119,117
OTHER DUCKS	72,736	12,669	17.4	47,398	98,074
GEESE	1,161	542	46.7	77	2,245
RED FOX	3,918	1,111	28.4	1,696	6,140
GRAY FOX	4,353	1,062	24.4	2,229	6,477
BOBCAT	5,949	1,106	18.6	3,737	8,161
COYOTE	42,079	4,828	11.5	32,423	51,735
TOTAL DEER	265,217	9,283	3.5	246,651	283,783
BUCK	210,154	7,420	3.5	195,314	224,994
DOE	55,030	3,663	6.7	47,704	62,356
ARCHERY DEER	24,662	2,651	10.7	19,360	29,964
BUCK	10,609	1,415	13.3	7,779	13,439
DOE	14,053	1,720	12.2	10,613	17,493
PRIMITIVE DEER	32,120	2,691	8.4	26,738	37,502
BUCK	13,096	1,546	11.8	10,004	16,188
DOE	19,024	1,791	9.4	15,442	22,606
GUN DEER	208,217	7,156	3.4	193,905	222,529
BUCK	166,358	6,601	3.5	173,156	199,560
DOE	21,546	2,075	9.5	17,696	25,996
TOTAL TURKEY	60,206	4,398	7.3	51,410	69,002
SPRING 1987	59,241	4,383	7.4	50,475	68,007
FALL 1987	965	364	37.7	237	1,693

(A) $\chi = 100(\text{SE}/\text{TOTAL HARVEST})$

TABLE 3. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF DOVE HUNTING IN MISSISSIPPI DURING THE 1987-88 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	AVERAGE		
										ESTIMATE (SE)	N	
1	ESTIMATE (SE)	609,158 (73,236)	6.59 (0.45)	27.77 (2.55)	94.7 (1.6)	91,316 (10,203)	4.16 (0.33)	21,957 (1,712)	18.9 (1.4)	ESTIMATE (SE)	1,460,078 (99,469)	
	N	1,755	149	150	151	1,754	150	799	799	N	391	
2	ESTIMATE (SE)	1,460,078 (99,469)	6.92 (0.23)	25.15 (1.51)	93.5 (1.2)	208,681 (12,565)	3.61 (0.15)	58,416 (2,565)	50.2 (1.8)	ESTIMATE (SE)	161,613 (35,544)	
	N	1,755	397	399	399	1,754	395	799	799	N	44	
3	ESTIMATE (SE)	161,613 (35,544)	6.58 (0.92)	25.11 (4.11)	93.2 (3.6)	24,735 (4,743)	3.82 (0.47)	6,410 (954)	5.5 (0.8)	ESTIMATE (SE)	630,219 (77,915)	
	N	1,755	44	44	44	1,754	44	799	799	N	160	
4	ESTIMATE (SE)	630,219 (77,915)	6.45 (0.44)	26.76 (2.64)	93.3 (1.9)	98,048 (10,257)	4.14 (0.30)	23,745 (1,772)	20.4 (1.4)	ESTIMATE (SE)	160,443 (43,312)	
	N	1,755	160	161	162	1,754	162	799	799	N	40	
5	ESTIMATE (SE)	160,443 (43,312)	6.94 (0.80)	27.43 (6.11)	92.5 (4.2)	23,122 (4,823)	3.95 (0.55)	5,827 (911)	5.0 (0.8)	ESTIMATE (SE)	3,019,350 (144,185)	
	N	1,755	40	40	40	1,754	40	799	799	N	790	
PERCENT OF TOTAL LICENSEES												
STATEWIDE	ESTIMATE (SE)	3,019,350 (144,185)	6.73 (0.18)	25.94 (1.04)	93.8 (0.9)	445,836 (18,252)	3.94 (0.12)	116,950 (3,040)	45.6 (1.2)	STATEWIDE	1,762	
	N	1,762	790	799	803	1,760	797	1,769	1,769	N		

TABLE 4. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF QUAIL HUNTING IN MISSISSIPPI DURING THE 1987-88 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS		PER CENT HUNTERS PER REGION
							AVERAGE SEASONAL HARVEST	TOTAL HUNTERS	
1	ESTIMATE (SE)	56,199 (23,355)	3.44 (0.87)	11.59 (4.66)	78.1 (7.4)	15,823 (4,154)	3.38 (0.67)	4,667 (518)	11.1 (1.9)
	N	1,757	32	32	1,752	1,752	32	287	287
2	ESTIMATE (SE)	391,229 (65,015)	2.89 (0.31)	17.39 (2.57)	81.3 (3.1)	143,723 (20,761)	6.58 (0.80)	22,605 (1,734)	54.0 (2.9)
	N	1,757	148	154	155	1,752	149	287	287
3	ESTIMATE (SE)	16,800 (7,646)	1.37 (0.31)	6.39 (2.56)	77.8 (10.1)	12,160 (5,922)	4.88 (2.13)	2,625 (116)	6.3 (1.4)
	N	1,757	17	18	18	1,752	17	287	287
4	ESTIMATE (SE)	80,934 (24,792)	2.56 (0.34)	10.26 (2.85)	75.9 (5.9)	33,843 (7,450)	4.20 (0.74)	8,167 (1,074)	19.5 (2.3)
	N	1,757	53	54	54	1,752	55	287	287
5	ESTIMATE (SE)	47,771 (17,128)	2.87 (0.48)	12.58 (3.66)	88.5 (6.4)	16,702 (4,768)	4.38 (0.93)	3,792 (738)	9.1 (1.7)
	N	1,757	26	26	26	1,752	26	287	287
PER CENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE (SE)	604,346 (75,220)	2.81 (0.22)	14.19 (1.60)	81.0 (2.3)	225,762 (23,322)	5.39 (0.48)	42,949 (2,279)	16.7 (0.9)
	N	1,766	284	293	294	1,760	287	1,769	1,769

TABLE 5. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF WOODDOCK HUNTING IN MISSISSIPPI DURING THE 1987-88 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	SEASONAL DAYS HUNTING	TOTAL HUNTERS	AVERAGE PERCENT HUNTERS PER REGION	
									1	2
1	ESTIMATE (SE) N	6,675 (2,877) 1,769	2.19 (0.22) 9	5.11 (1.49) 9	100.0 (0.0) 9	3,051 (1,353) 1,767	2.33 (0.73) 9	1,306 (434) 43	20.9 (6.3) 43	
2	ESTIMATE (SE) N	3,192 (1,083) 1,769	0.62 (0.22) 13	1.47 (0.34) 15	80.0 (10.7) 15	4,939 (1,935) 1,767	2.62 (0.76) 13	2,176 (560) 43	34.9 (7.4) 43	
3	ESTIMATE (SE) N	1,161 (918) 1,769	2.00 (1.00) 2	4.00 (2.00) 2	100.0 (C.0) 2	581 (611) 1,767	2.00 (0.00) 2	290 (205) 43	4.7 (3.2) 43	
4	ESTIMATE (SE) N	3,337 (1,722) 1,769	0.61 (0.28) 8	2.88 (1.16) 8	62.5 (18.3) 8	5,520 (2,357) 1,767	4.75 (1.22) 8	1,161 (410) 43	18.6 (6.0) 43	
5	ESTIMATE (SE) N	9,722 (5,558) 1,769	3.19 (0.96) 9	7.44 (3.67) 9	100.0 (C.0) 9	3,051 (1,222) 1,767	2.33 (0.55) 9	1,306 (434) 43	20.9 (6.3) 43	
										PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE) N	24,056 (6,626) 1,769	1.40 (0.33) 41	3.86 (0.90) 43	86.0 (5.3) 43	17,141 (3,560) 1,767	2.88 (0.40) 41	6,239 (960) 1,769	2.4 (0.4) 1,769	

TABLE 6. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF BABYI HUNTING IN MISSISSIPPI DURING THE 1987-88 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS		PER REGION
							HUNTERS	HUNTERS	
1	ESTIMATE (SE)	246,632 (42,446)	2.39 (0.30)	14.64 (2.15)	92.1 (2.5)	103,474 (16,236)	6.11 (0.79)	16,758 (1,520)	17.2 (1.5)
	N	1,737	114	114	114	1,729	114	661	661
	ESTIMATE (SE)	354,505 (48,195)	1.57 (0.14)	10.30 (1.25)	89.8 (2.0)	236,787 (27,363)	6.93 (0.68)	24,901 (2,108)	35.9 (1.9)
2	N	1,737	227	233	235	1,729	230	661	661
	ESTIMATE (SE)	70,359 (14,411)	1.56 (0.26)	6.90 (1.16)	85.5 (4.3)	43,498 (8,934)	4.31 (0.73)	10,161 (1,199)	10.4 (1.2)
	N	1,737	68	69	69	1,729	68	661	661
3	ESTIMATE (SE)	195,059 (23,523)	1.25 (0.12)	7.59 (0.74)	94.3 (1.8)	152,316 (18,195)	6.00 (0.57)	25,918 (1,853)	26.6 (1.7)
	N	1,737	170	174	174	1,729	171	661	661
	ESTIMATE (SE)	84,230 (16,243)	1.15 (0.16)	8.77 (1.32)	86.2 (4.3)	72,001 (14,267)	7.58 (1.19)	9,572 (1,165)	9.8 (1.2)
4	N	1,737	64	65	65	1,729	64	661	661
	ESTIMATE (SE)	969,259 (68,855)	1.56 (0.09)	9.80 (0.63)	90.0 (1.1)	621,899 (38,553)	6.35 (0.35)	99,683 (2,975)	38.8 (1.2)
	N	1,760	664	678	681	1,750	668	1,769	1,769
PERCENT CF TOTAL LICENSEES									
STATEWIDE	ESTIMATE (SE)	969,259 (68,855)	1.56 (0.09)	9.80 (0.63)	90.0 (1.1)	621,899 (38,553)	6.35 (0.35)	99,683 (2,975)	38.8 (1.2)
	N	1,760	664	678	681	1,750	668	1,769	1,769

TABLE 7. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF SQUIRREL HUNTING IN MISSISSIPPI DURING THE 1987-88 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	SEASONAL DAYS HUNTING	TOTAL HUNTERS	AVERAGE PER HUNTER	PERCENT HUNTERS PER REGION
1	ESTIMATE (SE)	266,054 (31,562)	2.45 (0.18)	11.84 (1.06)	92.1 (2.2)	108,226 (12,273)	4.81 (0.40)	22,378 (1,740)	13.9 (1.0)	
	N	1,725	150	151	151	1,710	150	1,087	1,087	
2	ESTIMATE (SE)	961,694 (71,926)	2.43 (0.13)	15.14 (0.94)	93.7 (1.2)	396,578 (27,851)	6.26 (0.35)	64,170 (2,671)	39.8 (1.5)	
	N	1,725	418	427	430	1,710	422	1,087	1,087	
3	ESTIMATE (SE)	277,214 (37,716)	2.68 (0.30)	15.02 (1.58)	92.7 (2.3)	102,822 (14,970)	5.57 (0.65)	18,377 (1,591)	11.4 (1.0)	
	N	1,725	123	124	124	1,710	123	1,087	1,087	
4	ESTIMATE (SE)	576,154 (48,680)	2.23 (0.14)	13.83 (0.89)	93.2 (1.5)	243,171 (20,939)	5.93 (0.39)	41,644 (2,274)	25.9 (1.3)	
	N	1,725	273	280	280	1,710	273	1,087	1,087	
5	ESTIMATE (SE)	194,333 (28,061)	2.24 (0.22)	13.33 (1.42)	90.8 (2.9)	86,461 (12,146)	5.94 (0.60)	14,523 (1,425)	9.0 (0.9)	
	N	1,725	97	98	98	1,710	97	1,087	1,087	
STATEWIDE	ESTIMATE (SE)	2,276,703 (91,101)	2.39 (0.08)	14.01 (0.50)	92.9 (0.8)	939,880 (36,496)	5.82 (0.20)	163,091 (2,938)	63.5 (1.1)	
	N	1,759	1,089	1,114	1,118	1,738	1,093	1,769	1,769	

TABLE 8. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF RACCOON HUNTING IN MISSISSIPPI DURING THE 1987-88 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) N	37,251 (12,222) 1,764	1.11 (0.21) 30	8.00 (2.25) 32	87.5 (5.9) 32	31,317 (8,523) 1,754	7.13 (1.47) 30	4,654 (615) 197	16.2 (2.6) 197
	ESTIMATE (SE) N	91,817 (21,463) 1,764	0.68 (0.13) 67	8.64 (1.77) 73	86.5 (4.0) 74	121,901 (22,017) 1,754	12.25 (1.66) 68	10,762 (1,225) 197	37.6 (3.5) 197
	ESTIMATE (SE) N	16,297 (8,999) 1,764	1.72 (0.71) 23	4.87 (2.55) 23	87.0 (7.2) 23	9,512 (2,478) 1,754	2.83 (0.46) 23	3,345 (693) 197	11.7 (2.3) 197
3	ESTIMATE (SE) N	39,724 (10,779) 1,764	0.74 (0.15) 51	5.15 (1.22) 53	92.5 (3.7) 53	51,365 (14,266) 1,754	6.88 (1.67) 51	7,708 (1,043) 197	26.9 (3.2) 197
	ESTIMATE (SE) N	9,458 (3,940) 1,764	0.53 (0.11) 14	4.33 (1.47) 15	73.3 (11.5) 15	15,366 (7,105) 1,754	7.50 (2.94) 14	2,181 (561) 197	7.6 (1.9) 197
	STATEWIDE ESTIMATE (SE) N	194,633 (28,362) 1,768	0.78 (0.09) 187	6.71 (0.87) 200	87.1 (2.4) 201	229,492 (28,211) 1,756	8.35 (0.85) 138	29,165 (1,937) 1,769	11.4 (0.8) 1,769
PERCENT OF TOTAL LICENSEES									

TABLE 9. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF ALL-DUCK HUNTING IN MISSISSIPPI DURING THE 1987-88 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	PERCENT OF TOTAL LICENSEES	
									AVERAGE SEASONAL HARVEST	TOTAL MANDAYS
1	ESTIMATE (SE) N	190,069 (37,116) 1,761	2.22 (0.23) 75	17.16 (2.76) 76	89.5 (3.5) 76	65,950 (13,318) 1,756	7.84 (0.84) 75	11,071 (1,243) 192	39.6 (3.5) 192	
2	ESTIMATE (SE) N	93,431 (16,755) 1,761	1.28 (0.12) 52	11.23 (1.40) 57	91.2 (3.8) 57	67,532 (12,386) 1,756	8.88 (1.10) 52	8,303 (1,082) 192	29.7 (3.3) 192	
3	ESTIMATE (SE) N	16,471 (5,758) 1,761	1.51 (0.32) 13	8.69 (1.94) 13	85.7 (9.7) 14	12,425 (4,513) 1,756	6.07 (1.56) 14	2,039 (543) 192	7.3 (1.9) 192	
4	ESTIMATE (SE) N	23,321 (7,142) 1,761	1.12 (0.15) 33	4.85 (1.25) 33	75.8 (7.6) 33	20,903 (5,262) 1,756	4.33 (0.80) 33	4,807 (829) 192	17.2 (2.7) 192	
5	ESTIMATE (SE) N	10,932 (5,195) 1,761	1.74 (0.39) 12	6.25 (2.47) 12	91.7 (8.3) 12	6,285 (2,265) 1,756	3.58 (0.81) 12	1,748 (503) 192	6.3 (1.8) 192	
STATEWIDE	ESTIMATE (SE) N	346,402 (42,394) 1,768	1.73 (0.13) 191	12.05 (1.24) 198	86.9 (2.4) 199	196,953 (19,303) 1,762	7.04 (0.50) 192	28,875 (1,929) 1,769	11.2 (0.5) 1,769	

TABLE 10. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF DALLARD, WOOD-DUCKS, AND OTHER-DUCK HUNTING IN MISSISSIPPI
DURING THE 1987-88 HUNTING SEASON.

REGION(1)	STATISTIC	BALLARDS					WOOD-DUCKS					OTHER-DUCKS				
		TOTAL HARVEST	AVERAGE DAILY KILL	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL	PERCENT SUCCESSFUL HUNTERS
1	ESTIMATE (SE) N	116,686 (24,750) 1,762	1.36 (0.14) 75	10.56 (4.4) 76	80.3 (5.092) 1,762	0.28 (0.05) 75	2.20 (0.39) 76	59.2 (5.7) 1,761	48,975 (11,724) 1,761	6.57 (0.10) 75	4,442 (0.94) 76	0.57 (0.04) 52	0.17 (0.04) 52	13,701 (3,315) 1,761	1.65 (0.34) 57	0.16 (0.10) 13
2	ESTIMATE (SE) N	42,266 (8,902) 1,762	0.58 (0.09) 52	5.07 (4.0) 57	71.9 (7.506) 1,762	0.52 (0.07) 52	4.51 (0.69) 57	70.2 (6.1) 57	13,701 (3,315) 1,761	0.17 (0.04) 52	1,655 (0.57)	0.17 (0.10) 13	0.17 (0.04) 52	1,761 (1.761)	1.65 (0.34) 57	0.16 (0.10) 13
3	ESTIMATE (SE) N	9,469 (3,963) 1,762	0.76 (0.27) 16	4.64 (1.56) 14	64.3 (3,498) 14	0.66 (0.14) 14	4.00 (1.39) 14	56.0 (11.9) 14	1,749 (898) 1,761	0.16 (0.10) 13	0.92 (0.42)	0.16 (0.10) 13	0.16 (0.10) 13	1,761 (1.761)	0.92 (0.42) 13	0.16 (0.10) 13
4	ESTIMATE (SE) N	4,225 (1,788) 1,762	0.20 (0.06) 33	0.68 (0.14) 33	30.3 (8.1) 33	0.76 (0.10) 33	3.30 (0.89) 33	63.6 (8.5) 33	3,207 (1,760) 1,761	0.15 (0.08) 33	0.67 (0.35) 33	0.28 (0.24) 12	0.28 (0.24) 12	3,207 (1,760) 1,761	0.15 (0.08) 33	0.28 (0.24) 12
5	ESTIMATE (SE) N	1,402 (1,736) 1,762	0.26 (0.13) 12	0.92 (0.18) 12	41.7 (14.9) 12	7.575 (4,709) 12	1.21 (0.47) 12	4.35 (2.49) 12	58.3 (14.9) 12	1,749 (1,446) 1,761	0.28 (0.24) 12	1.00 (0.63) 12	0.28 (0.24) 12	1,749 (1,446) 1,761	0.28 (0.24) 12	0.28 (0.24) 12
STATEWIDE	ESTIMATE (SE) N	190,938 (26,837) 1,769	0.90 (0.10) 192	6.26 (0.83) 199	64.8 (3.4) 199	0.67 (0.04) 192	3.31 (0.35) 199	61.8 (3.5) 199	72,716 (12,665) 1,759	0.36 (0.05) 191	2.55 (0.61) 191	0.36 (0.05) 191	0.36 (0.05) 191	72,716 (12,665) 1,759	0.36 (0.05) 191	0.36 (0.05) 191

TABLE 11. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF GOOSE HUNTING IN MISSISSIPPI DURING THE 1987-88 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 HUNTERS	
										AVERAGE	SEASONAL
1	ESTIMATE (SE) N	290 (290) 1,769	0.06 (0.03) 2	0.67 (0.67) 3	33.3 (33.3) 3	4,646 (3,672) 1,768	16.00 (8.00) 2	435 (251) 13	23.1 (12.2) 13		
2	ESTIMATE (SE) N	725 (435) 1,769	0.09 (0.06) 7	0.71 (0.36) 7	42.9 (20.2) 7	7,695 (3,868) 1,768	7.57 (2.72) 7	1,016 (383) 13	53.8 (14.4) 13		
3	ESTIMATE (SE) N	0 (0) 1,769	(.) .	(.) .	(.) .	0 (0) 1,768	(.) .	0 (0) 13	0.0 (0.0) 13		
4	ESTIMATE (SE) N	145 (145) 1,769	0.13 (0.17) 3	0.33 (0.33) 3	33.3 (33.3) 3	1,161 (795) 1,768	2.67 (1.20) 3	435 (251) 13	23.1 (12.2) 13		
5	ESTIMATE (SE) N	0 (0) 1,769	(.) .	(.) .	(.) .	0 (0) 1,768	(.) .	0 (0) 13	0.0 (0.0) 13		
										PERCENT OF TOTAL LICENSEES	
STATEWIDE	ESTIMATE (SE) N	1,161 (542) 1,769	0.09 (0.04) 12	0.62 (0.24) 13	38.5 (14.0) 13	13,502 (5,387) 1,768	7.75 (2.24) 12	1,886 (521) 1,769	0.7 (0.2) 1,769		

TABLE 12. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF BEA-FOX HUNTING IN MISSISSIPPI DURING THE 1987-88 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	PERCENT SUCCESSFUL HUNTERS			TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
				AVERAGE SEASONAL HARVEST	PERCENT HUNTERS	TOTAL MANDAYS				
1	ESTIMATE (SE) N	291 (205) 1,767	0.02 (0.03) 3	0.67 (0.33) 3	66.7 (35.3) 3	15,424 (15,134) 3	35.33 (34.33) 3	436 (251) 36	8.3 (4.7) 36	
2	ESTIMATE (SE) N	1,162 (410) 1,767	0.07 (0.04) 14	0.50 (0.13) 16	50.0 (12.9) 16	15,279 (7,820) 1,764	7.50 (3.40) 14	2,326 (579) 36	44.4 (8.4) 36	
3	ESTIMATE (SE) N	145 (145) 1,767	0.08 (0.13) 3	0.33 (0.33) 3	33.3 (33.3) 3	1,746 (1,469) 1,764	4.00 (3.00) 3	436 (251) 36	8.3 (4.7) 36	
4	ESTIMATE (SE) N	2,324 (1,005) 1,767	0.08 (0.05) 11	1.45 (0.47) 11	91.8 (12.2) 11	28,520 (18,782) 1,764	17.82 (10.95) 11	1,598 (460) 36	30.6 (7.8) 36	
5	ESTIMATE (SE) N	0 (0) 1,767	0.00 (0.00) 2	0.00 (0.00) 3	0.0 (0.0) 3	13,096 (12,667) 1,764	45.00 (42.00) 2	436 (251) 36	8.3 (4.7) 36	
PERCENT OF TOTAL LICENSEES										
STATEWIDE	ESTIMATE (SE) N	3,918 (1,111) 1,769	0.05 (0.02) 34	0.71 (0.17) 38	52.6 (8.2) 38	79,840 (28,909) 1,765	16.15 (5.24) 34	5,514 (885) 1,769	2.1 (0.3) 1,769	

TABLE 13. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF GRAY FOX HUNTING IN MISSISSIPPI DURING THE 1987-88 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 HUNTERS	
										AVERAGE	SEASONAL
1	ESTIMATE (SE)	291 (205) N	0.01 (0.02) 2	0.67 (0.33) 3	66.7 (33.3) 3	15,331 (15,185) 1,758	52.50 (51.50) 2	436 (252) 42	7.1 (4.0) 42		
2	ESTIMATE (SE)	2,035 (580) N	0.11 (0.06) 18	0.67 (0.13) 21	61.9 (10.9) 21	15,185 (7,956) 1,758	5.78 (2.78) 18	3,052 (662) 42	50.0 (7.8) 42		
3	ESTIMATE (SE)	145 (145) N	0.08 (0.11) 3	0.25 (0.25) 4	25.0 (25.0) 4	1,898 (1,496) 1,758	4.33 (2.85) 3	581 (290) 42	9.5 (4.6) 42		
4	ESTIMATE (SE)	1,453 (822) N	0.05 (0.03) 8	1.25 (0.59) 8	62.5 (18.3) 8	29,785 (18,962) 1,758	25.50 (14.64) 8	1,163 (410) 42	19.0 (6.1) 42		
5	ESTIMATE (SE)	436 (252) N	0.01 (0.02) 3	0.50 (0.22) 6	50.0 (22.4) 6	13,287 (12,711) 1,758	30.33 (28.34) 3	872 (356) 42	14.3 (5.5) 42		
PERCENT OF TOTAL LICENSEES											
STATEWIDE	ESTIMATE (SE)	4,353 (1,062) N	0.04 (0.02) 36	0.67 (0.13) 45	53.3 (7.5) 45	79,046 (28,629) 1,760	15.06 (4.92) 36	6,529 (961) 1,769	2.5 (0.4) 1,769		

TABLE 14. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF BOBCAT HUNTING IN MISSISSIPPI DURING THE 1987-88 HUNTING SEASON.

REGION	STATISTIC	AVERAGE DAILY KILL			PERCENT SUCCESSFUL HUNTERS			TOTAL MANDAYS			AVERAGE SEASONAL DAYS HUNTING			TOTAL HUNTERS			PERCENT HUNTERS PER REGION	
		TOTAL HARVEST	AVERAGE SEASONAL HARVEST	(SE)	HUNTERS	(SE)	(SE)	MANDAYS	(SE)	(SE)	(SE)	(SE)	(SE)	(SE)	(SE)	(SE)	(SE)	(SE)
1	ESTIMATE (SE) N	726 (324) 1,767	0.67 (0.28) 5	0.83 (0.17) 6	83.3 (16.7) 6	874 (412) 1,762	1.20 (0.20) 5	872 (355) 45	13.3 (5.1) 45	----- PERCENT OF TOTAL LICENSEES-----								
	ESTIMATE (SE) N	1,598 (561) 1,767	0.22 (0.09) 13	0.79 (0.19) 14	64.3 (13.3) 14	6,555 (2,520) 1,762	3.46 (1.02) 13	2,036 (562) 45	31.1 (7.0) 45									
2	ESTIMATE (SE) N	1,017 (481) 1,767	0.09 (0.06) 6	1.00 (0.31) 7	71.4 (18.4) 7	8,012 (5,404) 1,762	9.17 (5.39) 6	1,017 (384) 45	15.6 (5.5) 45	----- PERCENT OF TOTAL LICENSEES-----								
	ESTIMATE (SE) N	2,324 (739) 1,767	0.19 (0.13) 15	0.94 (0.20) 17	76.6 (11.4) 17	10,926 (6,722) 1,762	5.00 (2.89) 15	2,469 (596) 45	37.8 (7.3) 45									
3	ESTIMATE (SE) N	0 (0) 1,767	0.00 (.) 1	0.00 (.) 1	0.0 (.) 1	437 (437) 1,762	3.00 (.) 1	145 (145) 45	2.2 (2.2) 45	----- PERCENT OF TOTAL LICENSEES-----								
	ESTIMATE (SE) N	5,949 (1,106) 1,769	0.19 (0.07) 42	0.87 (0.10) 47	70.2 (6.7) 47	27,065 (9,001) 1,764	4.43 (1.32) 47	6,820 (982) 1,769	2.7 (0.4) 1,769									

TABLE 15. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF COYOTE HUNTING IN MISSISSIPPI DURING THE 1987-88 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	PERCENT SUCCESSFUL HUNTERS		TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PER CENT HUNTERS PER REGION
				AVERAGE SEASONAL HARVEST	PERCENT HUNTERS				
1	ESTIMATE (SE) N	6,143 (1,349) 1,755	0.09 (0.05) 25	1.45 (0.18) 29	93.1 (4.8) 29	56,377 (29,232) 1,721	15.12 (7.39) 25	4,241 (781) 167	17.4 (2.9) 167
2	ESTIMATE (SE) N	18,721 (3,621) 1,755	0.26 (0.06) 58	1.80 (0.28) 71	78.9 (4.9) 71	53,543 (13,575) 1,721	6.19 (1.36) 58	10,384 (1,255) 167	42.5 (3.6) 167
3	ESTIMATE (SE) N	3,603 (1,385) 1,755	0.19 (0.13) 11	1.63 (0.45) 16	81.3 (10.1) 16	7,905 (4,791) 1,721	4.82 (2.66) 11	2,360 (583) 167	9.6 (2.3) 167
4	ESTIMATE (SE) N	8,775 (2,509) 1,755	0.25 (0.07) 28	1.71 (0.40) 35	71.4 (7.7) 35	31,171 (11,585) 1,721	7.46 (2.55) 28	5,119 (857) 167	21.0 (3.2) 167
5	ESTIMATE (SE) N	2,194 (601) 1,755	0.09 (0.08) 11	0.94 (0.11) 16	87.5 (8.5) 16	16,555 (13,052) 1,721	10.09 (7.71) 11	2,340 (583) 167	9.6 (2.3) 167
----- PERCENT OF TOTAL LICENSEES -----									
STATEWIDE	ESTIMATE (SE) N	42,079 (4,828) 1,769	0.18 (0.04) 141	1.60 (0.15) 181	80.1 (3.0) 161	173,842 (37,265) 1,729	8.30 (1.65) 141	26,263 (1,650) 1,739	10.2 (0.7) 1,739

TABLE 16. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF ARCHERY DEER HUNTING IN MISSISSIPPI DURING THE 1987-88 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASGNL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	PERCENT HUNTERS	
									AVERAGE SEASGNL HARVEST	SUCCESFUL HUNTERS
1	ESTIMATE (SE) N	3,322 (1,014) 1,673	0.042 (0.012) 56	0.41 (0.12) 58	24.1 (5.7) 58	60,495 (13,48) 1,663	9.97 (1.07) 58	8,024 (1,036) 363	16.0 (1.9) 363	
2	ESTIMATE (SE) N	7,891 (1,621) 1,673	0.041 (0.007) 121	0.46 (0.09) 125	24.0 (3.8) 125	168,372 (19,350) 1,663	9.99 (0.75) 121	17,294 (1,488) 363	34.4 (2.5) 363	
3	ESTIMATE (SE) N	3,461 (925) 1,673	0.046 (0.011) 55	0.45 (0.10) 56	32.1 (6.3) 56	72,139 (12,852) 1,663	9.42 (1.13) 55	7,748 (1,018) 363	15.4 (1.9) 363	
4	ESTIMATE (SE) N	8,168 (1,560) 1,673	0.050 (0.009) 96	0.58 (0.10) 101	35.6 (4.8) 101	140,658 (18,623) 1,663	10.52 (0.93) 96	14,112 (1,354) 363	26.1 (2.4) 363	
5	ESTIMATE (SE) N	1,384 (517) 1,673	0.040 (0.010) 22	0.45 (0.14) 22	36.4 (10.5) 22	34,956 (9,701) 1,663	11.41 (2.09) 22	3,044 (645) 363	6.1 (1.3) 363	
PERCENT OF TOTAL LICENSEES(A)										
STATEWIDE	ESTIMATE (SE) N	24,662 (2,651) 1,681	0.044 (0.004) 357	0.48 (0.05) 370	26.2 (2.4) 370	497,908 (32,326) 1,668	10.04 (0.45) 357	51,084 (2,342) 1,682	22.1 (1.0) 1,682	

(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 1987-88 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	1,523 (535) 1,673	0.019 (0.006) 58	0.19 (0.06) 58	15.5 (4.8) 58	1,800 (569) 1,673	0.022 (0.007) 58
2	ESTIMATE (SE) N	2,907 (716) 1,673	0.017 (0.004) 121	0.17 (0.04) 125	14.4 (3.2) 125	4,984 (1,185) 1,673	0.024 (0.005) 121
3	ESTIMATE (SE) N	1,107 (391) 1,673	0.015 (0.005) 55	0.14 (0.05) 56	14.3 (4.7) 56	2,353 (717) 1,673	0.033 (0.009) 55
4	ESTIMATE (SE) N	4,430 (993) 1,673	0.028 (0.006) 96	0.32 (0.06) 101	21.8 (4.1) 101	3,738 (790) 1,673	0.023 (0.005) 96
5	ESTIMATE (SE) N	277 (196) 1,673	0.008 (0.005) 22	0.09 (0.06) 22	9.1 (6.3) 22	1,107 (637) 1,673	0.032 (0.010) 22
STATEWIDE	ESTIMATE (SE) N	10,609 (1,415) 1,681	0.319 (0.002) 357	0.21 (0.03) 370	16.5 (1.9) 370	14,053 (1,720) 1,681	0.025 (0.003) 357

TABLE 18. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF PRIMITIVE-WEAPON-DEER HUNTING IN MISSISSIPPI
DURING THE 1987-88 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	SEASONAL DAYS HUNTING	TOTAL HUNTERS	AVERAGE PERCENT HUNTERS PER REGION	
									AVERAGE DAILY KILL	PERCENT SUCCESSFUL HUNTERS
1	ESTIMATE (SE)	5,683 (1,109)	0.122 (0.018)	0.58 (0.09)	44.9 (6.0)	45,677 (6,428)	6,74 (0.37)	9,552 (1,126)	15.7 (1.7)	439 439
	N	1,671	69	69		1,658	69			
2	ESTIMATE (SE)	8,870 (1,327)	0.083 (0.011)	0.43 (0.05)	36.0 (3.9)	99,456 (9,361)	4.94 (0.25)	20,903 (1,623)	34.4 (2.3)	439 439
	N	1,671	144	150		1,658	144			
3	ESTIMATE (SE)	6,653 (1,305)	0.106 (0.017)	0.65 (0.10)	44.6 (5.8)	60,623 (8,281)	6.03 (0.44)	10,244 (1,165)	16.9 (1.8)	439 439
	N	1,671	72	74		1,658	72			
4	ESTIMATE (SE)	9,147 (1,360)	0.098 (0.016)	0.54 (0.09)	36.5 (4.4)	87,024 (9,592)	5.61 (0.34)	16,197 (1,445)	26.7 (2.1)	439 439
	N	1,671	111	116		1,658	111			
5	ESTIMATE (SE)	1,386 (518)	0.066 (0.022)	0.36 (0.12)	28.6 (8.7)	21,092 (4,522)	5.39 (0.57)	3,876 (727)	6.4 (1.2)	439 439
	N	1,671	28	28		1,658	28			
										PERCENT OF TOTAL LICENSEES (A)
STATEWIDE	ESTIMATE (SE)	32,120 (2,691)	0.095 (0.007)	0.51 (0.04)	37.4 (2.3)	319,508 (16,416)	5.33 (0.16)	61,686 (2,497)	26.6 (1.1)	431 1,692
	N	1,680	431	446		1,665	431			

(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 1957-82 HUNTING SEASON.

REGION	STATISTIC	BUCKS			DOES		
		AVERAGE TOTAL HARVEST	AVERAGE DAILY KILL	PERCENT SUCCESSFUL HUNTERS	AVERAGE SEASONAL HARVEST	TOTAL HARVEST	AVERAGE DAILY KILL
1	ESTIMATE (SE) N	2,356 (691) 1,671	0.052 (0.014) 69	0.25 (0.07) 69	20.3 (4.9) 69	3,326 (702) 1,671	0.070 (0.012) 69
2	ESTIMATE (SE) N	3,326 (729) 1,671	0.031 (0.007) 144	0.16 (0.03) 150	14.7 (2.9) 150	5,544 (951) 1,671	0.052 (0.008) 144
3	ESTIMATE (SE) N	2,633 (662) 1,671	0.041 (0.010) 72	0.26 (0.06) 74	23.0 (4.9) 74	4,919 (882) 1,671	0.065 (0.013) 72
4	ESTIMATE (SE) N	3,604 (936) 1,671	0.037 (0.010) 111	0.22 (0.05) 116	15.5 (3.4) 116	5,544 (1,065) 1,671	0.061 (0.010) 111
5	ESTIMATE (SE) N	832 (339) 1,671	0.040 (0.015) 28	0.21 (0.06) 28	21.4 (7.9) 28	554 (277) 1,671	0.026 (0.013) 28
STATEWIDE	ESTIMATE (SE) N	13,096 (1,546) 1,680	0.038 (0.004) 431	0.21 (0.02) 446	17.9 (1.8) 446	19,024 (1,791) 1,680	0.057 (0.005) 431

TABLE 20. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF REGULAR-GUN-DEER HUNTING IN MISSISSIPPI
DURING THE 1967-68 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	HUNTING
1	ESTIMATE (SE) N	30,208 (3,214) 1,633	0.088 (0.007) 177	1.17 (0.09) 182	61.5 (3.6) 182	339,775 (30,824) 1,580	13.10 (0.74) 177	25,717 (1,790) 1,383	13.2 (0.9) 1,383	
2	ESTIMATE (SE) N	77,436 (4,942) 1,633	0.071 (0.004) 520	1.01 (0.05) 542	53.8 (2.1) 543	1,071,654 (50,519) 1,580	14.01 (0.43) 522	77,011 (2,696) 1,383	39.4 (1.3) 1,383	
3	ESTIMATE (SE) N	35,881 (3,931) 1,633	0.099 (0.008) 177	1.41 (0.12) 179	62.6 (3.6) 179	368,651 (31,992) 1,580	14.21 (0.71) 177	25,293 (1,785) 1,383	12.9 (0.9) 1,383	
4	ESTIMATE (SE) N	49,496 (4,103) 1,633	0.064 (0.004) 339	0.97 (0.07) 360	51.7 (2.6) 360	724,550 (44,035) 1,580	14.54 (0.54) 340	51,294 (2,376) 1,383	26.2 (1.2) 1,383	
5	ESTIMATE (SE) N	14,891 (2,346) 1,633	0.056 (0.007) 168	0.92 (0.12) 114	48.2 (4.7) 114	254,318 (28,543) 1,580	16.06 (1.02) 108	16,109 (1,456) 1,383	8.2 (0.7) 1,383	
										PERCENT OF TOTAL LICENSEES (A)
STATEWIDE	ESTIMATE (SE) N	206,217 (7,156) 1,674	0.073 (0.002) 1,349	1.06 (0.03) 1,418	54.8 (1.3) 1,419	2,763,333 (60,526) 1,608	14.19 (0.27) 1,352	196,349 (2,029) 1,682	84.8 (0.9) 1,682	

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

TABLE 21. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF REGULAR GUN-BUCK-AND-DOE HUNTING IN MISSISSIPPI
DURING THE 1987-88 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	24,535 (2,739) 1,633	0.072 (0.007) 177	0.95 (0.08) 182	55.5 (3.7) 182	5,669 (1,178) 1,634	0.016 (0.003) 177
2	ESTIMATE (SE) N	70,061 (4,607) 1,633	0.064 (0.003) 520	0.91 (0.05) 542	51.0 (2.1) 543	7,370 (1,155) 1,634	0.006 (0.001) 521
3	ESTIMATE (SE) N	30,208 (3,379) 1,633	0.083 (0.007) 177	1.19 (0.10) 179	59.8 (3.7) 179	5,669 (1,195) 1,634	0.016 (0.003) 177
4	ESTIMATE (SE) N	46,235 (3,877) 1,633	0.061 (0.004) 339	0.91 (0.06) 360	50.3 (2.6) 360	3,260 (732) 1,634	0.004 (0.001) 339
5	ESTIMATE (SE) N	14,608 (2,290) 1,633	0.055 (0.007) 108	0.90 (0.12) 114	48.2 (4.7) 114	283 (200) 1,634	0.001 (0.001) 108
STATEWIDE	ESTIMATE (SE) N	186,356 (6,601) 1,674	0.066 (0.002) 1,349	0.95 (0.03) 1,418	52.2 (1.3) 1,419	21,546 (2,075) 1,575	0.008 (0.001) 1,350

TABLE 22. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF SPRING-TURKEY HUNTING IN MISSISSIPPI DURING THE 1987-88 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL HANDBASIS	SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									(SE)	N
1	ESTIMATE	3,363 (916)	0.076 (0.016)	0.68 (0.14)	48.4 (9.1)	44,474 (10,400)	9.23 (1.39)	4,950 (860)	8.0 (1.4)	389
	(SE)	1,470	30	31	31	1,466	30	389		
2	ESTIMATE	15,532 (2,474)	0.099 (0.011)	0.88 (0.12)	46.8 (4.5)	148,514 (17,663)	8.56 (0.66)	17,725 (1,618)	28.5 (2.3)	389
	(SE)	1,470	107	110	111	1,466	108	389		
3	ESTIMATE	12,009 (1,969)	0.115 (0.013)	1.07 (0.12)	64.3 (5.6)	104,522 (16,300)	9.30 (0.97)	11,178 (1,304)	18.0 (2.0)	389
	(SE)	1,470	70	70	70	1,466	70	389		
4	ESTIMATE	22,417 (2,850)	0.120 (0.009)	0.98 (0.10)	55.2 (4.2)	189,456 (20,920)	8.31 (0.64)	23,314 (1,632)	37.5 (2.5)	389
	(SE)	1,470	141	143	143	1,466	142	389		
5	ESTIMATE	4,804 (1,295)	0.085 (0.016)	0.97 (0.20)	54.8 (5.1)	56,355 (13,718)	11.32 (1.91)	4,950 (860)	8.0 (1.4)	389
	(SE)	1,470	31	31	31	1,466	31	389		
										PERCENT OF LICENSEES (A) TOTAL
STATEWIDE	ESTIMATE	59,241 (6,383)	0.106 (0.005)	0.94 (0.06)	52.3 (2.5)	545,910 (34,015)	8.77 (0.39)	63,516 (2,711)	27.0 (1.2)	
	(SE)	1,482	388	397	398	1,475	390	390	1,466	1,466

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

TABLE 23. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF FALL TURKEY HUNTING IN MISSISSIPPI DURING THE 1987 HUNTING SEASON.

REGION(A)	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PER CENT HUNTERS PER REGION
1	ESTIMATE (SE)	551 (275)	0.098 (0.045)	0.44 (0.18)	44.4 (17.6)	5,655 (2,292)	5.13 (1.09)	1,241 (413)	56.3 (12.8)
	N	1,680	8	9		1,679	8	16	16
3	ESTIMATE (SE)	414 (239)	0.130 (0.064)	0.43 (0.20)	42.9 (20.2)	3,173 (1,270)	3.29 (0.47)	965 (364)	43.8 (12.8)
	N	1,680	7	7		1,679	7	16	16
----- PERCENT OF TOTAL LICENSEES(B) -----									
STATEWIDE	ESTIMATE (SE)	965 (364)	0.109 (0.036)	0.44 (0.13)	43.8 (12.8)	8,828 (2,616)	4.27 (0.65)	2,206 (549)	1.0 (0.2)
	N	1,680	15	16		1,679	15	1,680	1,680

(A) FALL TURKEY HUNTING WAS LEGAL ONLY IN REGIONS 1 AND 3.

(B) CALCULATED AS A PERCENT OF 916 GAME LICENSE HOLDERS ONLY.

TABLE 24 • EXPANDED STATEWIDE SUMMARIES OF ALL DEER-BUCKS-AND-DOE HUNTING IN MISSISSIPPI DURING THE 1987-88 HUNTING SEASON AND ALL TURKEY HUNTING (COMBINING SPRING AND FALL DATA) DURING THE 1987 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 HUNTERS LICENSEES(A)	
									AVERAGE SEASONAL HARVEST	TOTAL MANDAYS
DEER	ESTIMATE	265,217 (9,283)	0.071 (0.002)	1.33 (0.04)	57.3 (1.3)	3,603,325 (87,854)	18.15 (0.40)	200,067 (1,937)	86.4 (0.8)	1,682
	(SE)	1,674	1,374	1,445	1,446	1,606	1,377	1,682		1,682
	N									
BUCK	ESTIMATE	210,154 (7,420)	0.057 (0.002)	1.05 (0.04)	53.4 (1.3)					
	(SE)	1,674	1,374	1,445	1,446					
	N									
DOE	ESTIMATE	55,030 (3,663)	0.015 (0.001)	0.28 (0.02)	18.7 (1.0)					
	(SE)	1,675	1,375	1,446	1,446					
	N									
TURKEY	ESTIMATE	60,206 (4,395)	0.068 (0.025)	0.93 (0.06)	52.9 (2.5)	554,738 (34,115)	13.64 (4.95)	65,722 (2,766)	24.1 (1.0)	1,713
	(SE)	•	•	409	410	•	•	1,713		1,713
	N									

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

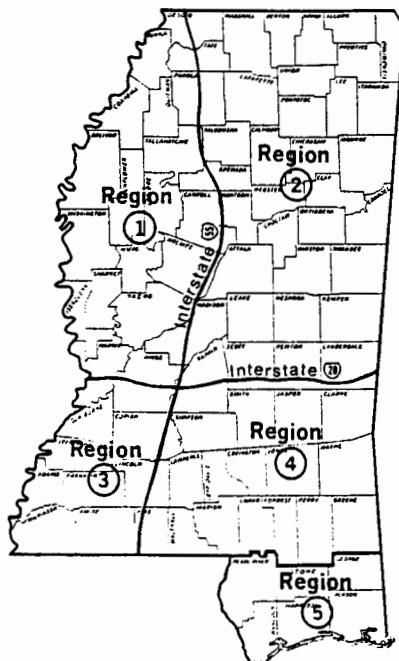


1987-88 MISSISSIPPI HUNTER QUESTIONNAIRE

- A.** Please fill in the blocks below for each game species you hunted during the 1987-88 hunting season (even if you were unsuccessful). If you hunted more than one kind of game on a particular day, count it as a day for each type of game you hunted. Report only game taken by you. Your answers will be kept confidential.

SPECIES	TOTAL KILL	TOTAL DAYS HUNTED	REGION HUNTED MOST
1 Dove			
2 Quail			
3 Woodcock			
4 Rabbit			
5 Squirrel			
6 Raccoon			
Bucks Does			
7 Deer (archery)			
8 Deer (prim. weapon)			
9 Deer (gun)			
Mallard Hood Other			
12 Ducks			
13 Geese			
Red Fox			
14 Red Fox			
Gray Fox			
15 Gray Fox			
Bobcat			
16 Bobcat			
Coyote			
17 Coyote			

Determine REGION HUNTED MOST from map.



- B.** Please answer the following.

1. The 1987-88 fall and winter hunting seasons have just been completed. Did you purchase a license to hunt deer and turkey during the previous 1986-87 hunting seasons (not the one just completed)?

Yes
 No

2. Your age: _____ yrs.

October						
S	M	T	W	T	F	S
				1	2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

November						
S	M	T	W	T	F	S
1	2	3	4	5	6	
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

December						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

January						
S	M	T	W	T	F	S
				1		
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

	Season Dates					Season Lengths					Rating
	Archery:	Gun (no dog):	Primitive:	Gun (dog):	Gun (no dog):	Archery:	Primitive:	Gun (dog):	Gun (no dog):		
A	Oct 2 - Nov 19	Nov 20 - Dec 1	Dec 2 - Dec 15	Dec 16 - Jan 15	Jan 9 - Jan 19	49 days	14 days	31 days	12 days	1 2 3 4 5	(circle one number)
B	Oct 2 - Nov 19	Nov 20 - Dec 1	Dec 2 - Dec 15	Dec 16 - Jan 8	Jan 9 - Jan 19	49 days	14 days	24 days	23 days	1 2 3 4 5	(circle one number)
C	Oct 2 - Nov 19	Nov 20 - Dec 1	Dec 2 - Dec 15	Dec 16 - Dec 20	Dec 21 - Jan 1	49 days	14 days	24 days	23 days	1 2 3 4 5	(circle one number)
D	Oct 9 - Nov 19	Nov 20 - Nov 30	Dec 1 - Dec 10	Dec 11 - Dec 20	Dec 21 - Jan 18	52 days	10 days	32 days	19 days	1 2 3 4 5	(circle one number)
E	Oct 2 - Nov 19	Nov 20 - Dec 1	Dec 2 - Dec 15	Dec 16 - Dec 23	Dec 24 - Jan 19	49 days	14 days	39 days	8 days	1 2 3 4 5	(circle one number)

Fig. 1 Questionnaire used for the 1987-88 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

Dear Sportsman:

We need your help! The Department of Wildlife Conservation is surveying Mississippi hunters to obtain information concerning the 1987-88 hunting season and last spring's (1987) 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.

Yours for better conservation,

A handwritten signature in black ink that appears to read "Vernon Bevill".

Vernon Bevill
Executive Director

VB:bjs

Enclosure

Fig. 2 Cover letter mailed with the initial mailing of the 1987-88 survey of game harvest and hunter effort in Mississippi.

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,

A handwritten signature in cursive script.

Vernon Bevill
Executive Director

Fig. 3 Post card used as the first reminder mailing to nonrespondents during the 1987-88 survey of game harvest and hunter effort in Mississippi.



MISSISSIPPI DEPARTMENT OF WILDLIFE CONSERVATION

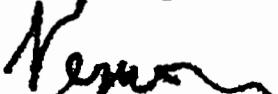
P. O. Box 451 • Phone (601) 961-5300 • Jackson, MS 39205

Dear Sportsman:

The Department of Wildlife Conservation wants to provide the best hunting for all Mississippi sportsmen. Since your help is needed to do this, we are sending you another copy of our yearly survey. The Department of Wildlife Conservation wants you to feel like you are also part of this effort. Please take a moment to complete the questionnaire.

Your answers will help us provide better hunting opportunities. Even if you had little success or if you did not hunt at all, your answers will still be important to us. Please return the survey in the enclosed postage-paid envelope by May 25 so that your response can be included in the results.

Sincerely for better conservation,


Vernon Bevill
Executive Director

VB/cap

enclosure

Fig. 4 Cover letter mailed with the second (and final) reminder mailing to nonrespondents during the 1987-88 survey of game harvest and hunter effort in Mississippi.

REGION HUNTED MOST

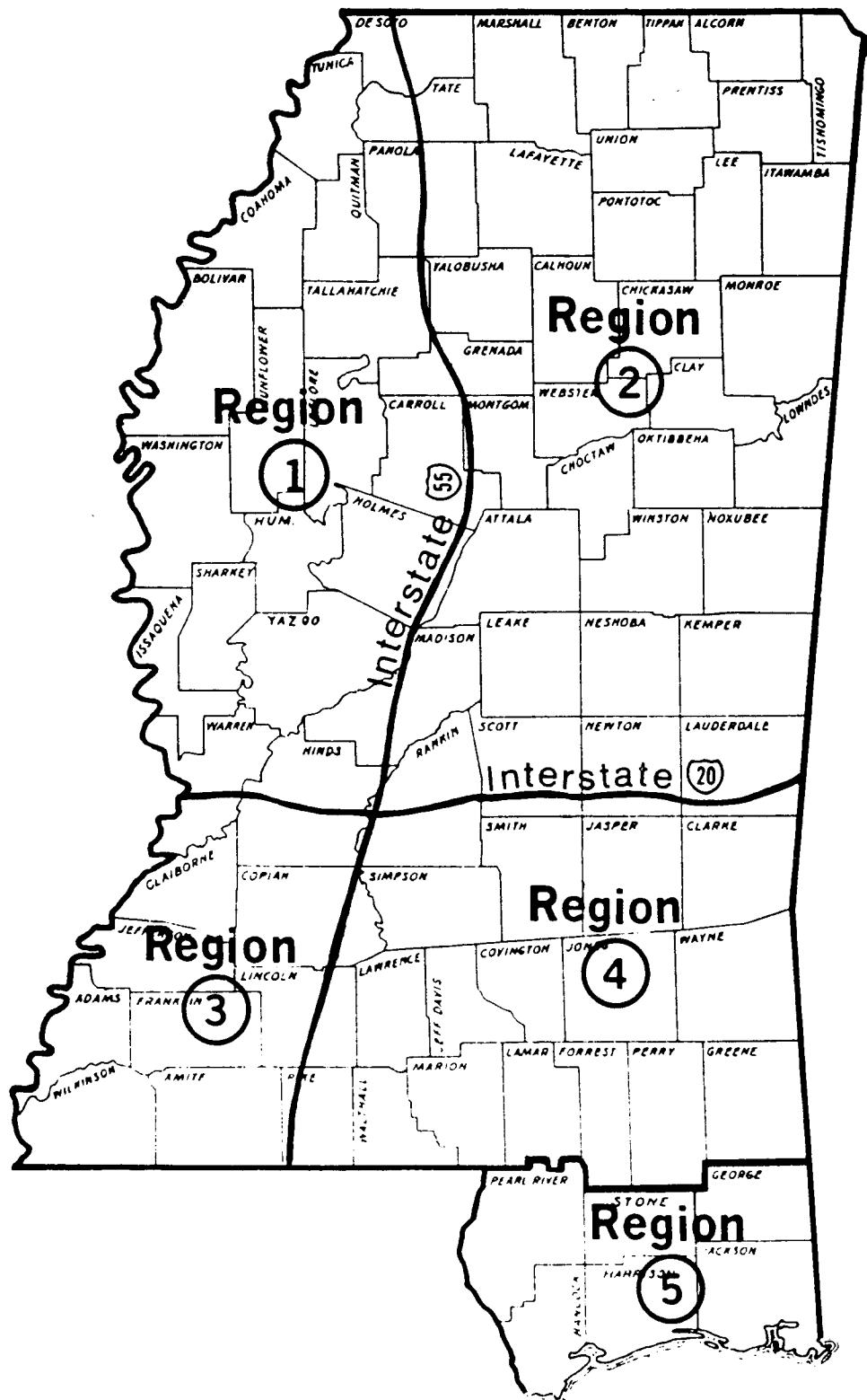


Fig. 5 Regional partitions utilized for region hunted most.