

MISSISSIPPI MAIL SURVEY OF GAME
--- HARVEST AND HUNTER EFFORT FOR 1989-90

by

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INTRODUCTION

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

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

The primary objective of the mail survey for the 1989-90 hunting season was to obtain a reliable set of **statewide** indices for each game species in Mississippi. The secondary

objective was to provide regional indices for these species. The survey is also used as a tool to monitor hunter attitudes and perceptions on specific issues. The results of the survey are used to help guide management decisions.

METHODS

The sampling frame for the survey consisted of resident holders of a Type 00 - Sportsman, Type 01 - All Game Hunting and Fishing, Type 02 - Small Game Hunting, or Type 05 - Small Game Hunting and Fishing license purchased during the 1989-90 license year.

A 2.5 percent sample of these hunting license buyers was selected from the 176,165 licenses processed from July 1, 1989 - January 31, 1990. An approximate random sample was achieved by selecting license stubs whose license number ended in predetermined but randomly selected sets of terminal digits between 000 and 999. A different set of digits was selected for each of Types 01, 02, and 05. An optical scanning device (S6000 Burroughs Document Processor) was used to mechanically make the stub selections. Sampling was discontinued at the end of January to expedite mailing the survey immediately after the close of the February hunting season.

An initial sample of 3,767 licenses of Type 01, 02, and

05 was selected. Since approximately 19 percent of the selected license stubs lacked complete names and/or addresses, the 2.5 percent sample of stubs resulted in a 1.73 percent or 3,042 usable licenses. Names and addresses were keypunched for each usable stub.

A sample of Sportsman license holders comparable to the other types was achieved as follows. Based on a 9 year average 90.8 percent of the predicted yearly sales had been recorded by the end of January each year. Therefore the 1.73 percent sample of license holders in January would be about a 1.57 percent ($0.908 \times 0.0173 \times 100$) sample of total expected sales through June of 1990.

Because of the computerized and renewable aspects of Sportsman's licenses (Type 00), virtually all 89-90 Sportsman's license holders were accounted for by the end of January. Sales were 34,413 by February 1990. To achieve a sample of Sportsman license holders comparable to the other types, a computer generated random sample of 539 hunters or 1.57 of the total sales 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 9, 1990 to the 3,591 sampled hunters.

Three weeks after the initial mailing, reminder post cards (Figure 3) were mailed to 2,247 sampled hunters who had not returned their questionnaire. The final mailing composed of the identical questionnaire, cover letter (Figure 4) and business reply envelope was mailed three weeks after the reminder post card mailing to the nonrespondents. First mailing questionnaires were given identification numbers from 100,001 to 103,591 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 1989-90 survey obtained information about two license years. Turkey harvest indices were partially

calculated from hunters who hunted during the spring 1989 turkey season which was the 88/89 license year. Indices for other species were determined for the 89-90 season only. Because of prior irregularities in the license sales structure, only surveys beginning with the 1982 - 83 season had well defined sampling frames with a known number of license buyers (Steffen 1981, 1983 a, b). Therefore spring 1989 turkey hunting indices were calculated based on the respondents who also purchased a big game license during the previous July 1, 1988 - June 30, 1989 fiscal year (Questionnaire Part B, question #10).

Estimates and standard errors of total turkey and man-days of effort were calculated as a linear combination of the spring 1989 estimates plus the fall 1989 estimates. The computer programs were altered to reflect these changes. All other calculations follow Steffen (1981).

RESULTS

Based on all three mailings, 547 (15.2 %) of the 3,591 questionnaires were returned as non-deliverable by the post office. Therefore 3,044 individuals were assumed to have been contacted to participate in the survey. Of these, 1,952 (64.1%) returned their questionnaires for possible analysis and 1,157 (37.9%) were nonresponses. Based on

those questionnaires returned 1,889 were answered and usable to some extent, 63 were returned after the acceptance deadline (4 weeks after the final mailing) and only 2 were considered completely useless.

Statewide expansions were calculated based on the total hunting licenses sold and accounted for by the end of June 1990. There existed 228,974 individuals licensed to hunt small game and 212,346 (Types 00 + 01) of these license holders also were eligible to pursue big game (deer and turkey) during the 1989-90 hunting seasons. The spring, 1989 turkey hunting estimates were based on the 232,529 big game license holders recorded in the 1988-89 license sales totals.

Based on the 1,889 usable responses 90.3 ± 0.5 (SE) percent of all resident license holders actually participated in a hunting activity during the 1989-90 hunting season. Therefore an estimated $206,764 \pm 1,099$ (SE) licenses actually utilized their license for hunting purposes.

The expanded statewide summaries of total harvest, average daily kill, average seasonal kill, the percent of hunters and the percent of total licenses that hunted are provided in Table 1 for all game species included in the survey. Table 2 provides the expanded statewide estimates of total harvest and the variability of these (standard

errors and 95 percent confidence limits) for all game species surveyed. Tables 3-8 summarize small game hunting on a statewide and 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

For management purposes, it should be reemphasized that the hunting data provided in this publication are only indices to harvest and effort and are to be used 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 1991-92 hunting seasons. To avoid changes in biases, attention to the consistency of survey methodology should be continued in future surveys.

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REFERENCES CITED

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

TABLE 1. EXPANDED STATEWIDE SUMMARY OF THE 1989-90 MISSISSIPPI MAIL SURVEY OF GAME HARVEST BASED ON 228,974 SMALL GAME LICENSE HOLDERS AND 212,346 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	2,033,899	5.89	21.85	93.1	331,484	3.58	105,457	46.1
QUAIL	363,209	2.62	15.54	81.7	134,069	5.83	42,183	18.4
WOODCOCK	15,212	0.87	4.52	100	16,823	5.25	24,000	10.5
RABBIT	732,984	1.46	9.02	86.8	489,055	6.17	94,790	41.4
SQUIRREL	1,728,780	2.28	12.74	91.7	742,574	5.55	143,760	62.8
RACCOON	149,847	0.55	7.85	88.1	267,606	14.89	38,304	16.7
ALL DUCKS	283,934	1.71	12.54	88.5	145,382	7.10	40,001	17.5
MALLARD	132,901	0.86	6.31	63.1				
WOOD DUCK	85,932	0.55	4.08	68.2				
OTHER DUCKS	45,101	0.31	2.15	37.6				
GEESE	1,736	0.22	1.00	57.1	7,343	4.23	22,667	9.9
RED FOX	4,804	0.08	1.10	83.9	53,971	13.93	24,728	10.8
GRAY FOX	3,069	0.05	1.10	75.0	52,234	21.72	23,394	10.2
BOBCAT	5,604	0.31	1.11	97.3	14,721	3.44	25,455	11.1
COYOTE	40,030	0.11	1.96	82.7	284,762	18.45	37,819	16.5
TOTAL DEER	262,386	0.082	1.39	54.1	3,109,769	16.78	188,213	88.6
BUCK	186,337	0.058	0.99	48.6				
DOE	72,858	0.022	0.38	22.6				
ARCHERY DEER	28,744	0.064	0.60	34.7	436,114	9.39	61,160	28.8
BUCK	12,293	0.027	0.26	19.3				
DOE	16,573	0.037	0.35	24.6				
PRIMITIVE DEER	35,585	0.115	0.63	40.1	287,552	5.26	68,968	32.5
BUCK	14,363	0.046	0.25	20.0				
DOE	20,318	0.066	0.36	25.6				
GUN DEER	200,427	0.080	1.07	51.5	2,372,563	13.23	182,771	86.1
BUCK	160,068	0.065	0.88	47.2				
DOE	35,369	0.014	0.19	13.2				
TOTAL TURKEY	50,154	0.096	0.97	52.9	505,221	9.95	84,261	27.9
SPRING 1989	49,100	0.097	0.97	54.0	496,000	9.86	63,339	27.2
FALL 1989	1,054	0.114	0.40	30.0	9,221	3.50	20,922	9.9

(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 1989-90 HUNTING SEASON.

SPECIES	TOTAL HARVEST	STANDARD ERROR		AS % OF TOTAL (A)	95% CONFIDENCE INTERVAL	
		SE			LOWER LIMIT	UPPER LIMIT
DOVE	2,033,899	114,358		5.6	1,805,183	2,262,615
QUAIL	383,209	56,169		15.5	250,871	475,547
WOODCOCK	15,212	4,145		27.2	6,922	23,502
RABBIT	732,984	52,278		7.1	628,428	837,540
SQUIRREL	1,728,780	77,829		4.5	1,573,122	1,884,438
RACCOON	149,847	31,165		20.8	87,517	212,177
ALL DUCKS	263,934	34,486		13.1	194,962	332,906
MALLARD	132,901	19,968		15.0	92,965	172,837
WOOD DUCK	85,932	13,981		16.2	58,010	113,854
OTHER DUCKS	45,101	7,514		16.7	30,073	60,129
GEESE	1,736	766		44.1	204	3,268
RED FOX	4,804	1,045		21.8	2,714	6,894
GRAY FOX	3,069	830		27.0	1,409	4,729
BOBCAT	5,604	971		17.3	3,662	7,546
COYOTE	40,030	5,395		13.5	28,240	50,820
TOTAL DEER	282,386	10,271		3.9	241,844	282,928
BUCK	186,337	7,069		3.8	172,199	200,475
Doe	72,856	4,781		6.6	63,294	82,418
ARCHERY DEER	28,744	3,004		10.5	22,736	34,752
BUCK	12,293	1,665		13.5	8,963	15,623
Doe	16,573	2,144		12.9	12,285	20,861
PRIMITIVE DEER	35,585	3,168		8.9	29,249	41,921
BUCK	14,363	1,665		11.6	11,033	17,693
Doe	20,316	2,127		10.5	16,062	24,570
GUN DEER	200,427	9,393		4.7	181,641	219,213
BUCK	160,068	6,138		3.8	147,792	172,344
Doe	35,369	3,343		8.5	28,683	42,055
TOTAL TURKEY	50,154	3,967		7.9	42,220	58,088
SPRING 1989	49,100	3,940		8.0	41,220	56,980
FALL 1989	1,054	456		43.3	142	1,966

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

TABLE 3. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF DOVE HUNTING IN MISSISSIPPI DURING THE 1989-90 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	554,294 (74,997) 1,704	5.69 (0.42) 158	25.78 (2.91) 160	91.4 (2.2) 162	80,137 (10,124) 1,702	4.18 (0.35) 160	21,730 (1,625) 688	23.5 (1.6) 688
2	ESTIMATE (SE) N	812,159 (84,330) 1,704	5.82 (0.38) 308	19.50 (1.18) 310	94.2 (1.3) 311	136,954 (10,967) 1,702	3.29 (0.20) 309	41,717 (2,140) 688	45.2 (1.9) 688
3	ESTIMATE (SE) N	137,195 (30,877) 1,704	7.29 (1.00) 41	24.90 (4.15) 41	95.1 (3.4) 41	18,835 (3,490) 1,702	3.41 (0.35) 41	5,500 (849) 688	6.0 (0.9) 688
4	ESTIMATE (SE) N	412,933 (58,761) 1,704	5.83 (0.51) 136	22.07 (2.62) 137	94.2 (2.0) 137	66,324 (7,524) 1,702	3.63 (0.28) 138	18,377 (1,506) 688	19.9 (1.5) 688
5	ESTIMATE (SE) N	112,203 (26,722) 1,704	6.42 (0.85) 37	22.57 (3.98) 37	91.9 (4.5) 37	17,489 (3,656) 1,702	3.51 (0.47) 37	4,963 (807) 688	5.4 (0.9) 688
-----									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE) N	2,033,898 (114,358) 1,713	5.89 (0.23) 689	21.85 (1.05) 694	93.1 (1.0) 697	331,484 (16,053) 1,711	3.58 (0.14) 692	105,457 (2,627) 1,889	46.1 (1.1) 1,889

TABLE 4. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF QUAIL HUNTING IN MISSISSIPPI DURING THE 1989-90 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	38,028 (15,242) 1,710	1.79 (0.55) 23	12.35 (4.33) 23	82.6 (8.1) 23	21,328 (7,531) 1,707	6.91 (2.02) 23	3,080 (638) 169	13.6 (2.6) 169
2	ESTIMATE (SE) N	209,280 (43,663) 1,710	2.34 (0.67) 89	17.15 (3.17) 91	79.1 (4.3) 91	84,507 (15,425) 1,707	7.08 (1.07) 89	12,185 (1,243) 169	53.8 (3.8) 169
3	ESTIMATE (SE) N	3,214 (1,572) 1,710	2.00 (0.58) 7	3.43 (1.15) 7	71.4 (18.4) 7	1,610 (656) 1,707	1.71 (0.29) 7	937 (354) 169	4.1 (1.5) 169
4	ESTIMATE (SE) N	65,077 (21,397) 1,710	4.29 (1.13) 33	14.29 (4.08) 34	91.2 (4.3) 34	15,023 (3,867) 1,707	3.39 (0.86) 33	4,553 (773) 169	20.1 (3.1) 169
5	ESTIMATE (SE) N	42,313 (24,170) 1,710	4.51 (0.96) 14	22.57 (11.83) 14	78.6 (11.4) 14	9,390 (4,228) 1,707	5.00 (1.88) 14	1,875 (499) 169	8.3 (2.1) 169
-----									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE) N	363,208 (56,169) 1,716	2.62 (0.66) 172	15.54 (2.14) 175	81.7 (2.9) 175	134,069 (17,927) 1,713	5.83 (0.86) 172	42,183 (2,043) 1,889	18.4 (0.9) 1,889

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TABLE 5. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF WOODCOCK HUNTING IN MISSISSIPPI DURING THE 1989-90 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	2,535 (1,713) 1,716	1.58 (0.73) 4	4.75 (2.50) 4	100.0 (0.0) 4	1,802 (962) 1,715	3.00 (1.15) 4	534 (267) 25	16.0 (7.5) 25
2	ESTIMATE (SE) N	4,403 (1,917) 1,716	0.41 (0.11) 8	3.55 (1.13) 9	100.0 (0.0) 9	9,345 (5,337) 1,715	8.75 (4.20) 8	1,201 (399) 25	36.0 (9.8) 25
3	ESTIMATE (SE) N	3,068 (2,482) 1,716	2.88 (0.19) 2	11.50 (6.50) 2	100.0 (0.0) 2	1,068 (844) 1,715	4.00 (2.00) 2	267 (189) 25	8.0 (5.5) 25
4	ESTIMATE (SE) N	4,403 (2,035) 1,716	1.22 (0.32) 8	4.13 (1.32) 8	100.0 (0.0) 8	3,605 (1,466) 1,715	3.38 (0.73) 8	1,067 (377) 25	32.0 (9.5) 25
5	ESTIMATE (SE) N	801 (566) 1,716	0.67 (0.52) 2	3.00 (0.00) 2	100.0 (0.0) 2	1,202 (1,076) 1,715	4.50 (3.50) 2	267 (189) 25	8.0 (5.5) 25
-----									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE) N	15,212 (4,145) 1,716	0.87 (0.24) 24	4.52 (0.88) 25	100.0 (0.0) 25	16,823 (5,773) 1,715	5.25 (1.48) 24	24,000 (1,614) 1,889	10.5 (0.7) 1,889

TABLE 6. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF RABBIT HUNTING IN MISSISSIPPI DURING THE 1989-90 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	223,958 (23,991) 1,689	1.83 (0.18) 119	13.77 (1.93) 120	94.2 (2.1) 120	122,757 (19,785) 1,675	7.55 (1.02) 119	16,259 (1,431) 1,583	20.6 (1.7) 583
2	ESTIMATE (SE) N	184,643 (23,177) 1,689	1.23 (0.14) 191	6.82 (0.73) 199	84.4 (2.6) 199	145,040 (17,130) 1,675	5.55 (0.54) 191	26,982 (1,786) 1,583	34.1 (2.0) 583
3	ESTIMATE (SE) N	71,173 (17,412) 1,689	2.00 (0.30) 56	9.38 (1.95) 56	91.1 (3.8) 56	36,773 (6,916) 1,675	4.72 (0.95) 57	7,723 (1,006) 1,583	9.8 (1.2) 583
4	ESTIMATE (SE) N	163,630 (24,255) 1,689	1.29 (0.13) 143	8.16 (1.03) 148	83.1 (3.1) 148	119,887 (16,264) 1,675	6.13 (0.67) 143	20,052 (1,575) 1,583	25.4 (1.8) 583
5	ESTIMATE (SE) N	66,564 (13,775) 1,689	1.23 (0.16) 58	8.32 (1.36) 59	83.1 (4.9) 59	54,270 (10,127) 1,675	6.84 (0.93) 58	7,994 (1,023) 1,583	10.1 (1.3) 583
-----									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE) N	732,984 (52,278) 1,715	1.46 (0.08) 585	9.02 (0.57) 608	86.8 (1.4) 608	489,055 (31,438) 1,693	6.17 (0.34) 586	94,780 (2,596) 1,889	41.4 (1.1) 1,889

TABLE 7. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF SQUIRREL HUNTING IN MISSISSIPPI DURING THE 1989-90 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	399,310 (49,635) 1,683	2.84 (0.23) 177	18.40 (1.68) 179	97.2 (1.2) 179	140,844 (15,008) 1,668	5.80 (0.46) 177	24,353 (1,721) 980	18.3 (1.2) 980
2	ESTIMATE (SE) N	534,137 (42,352) 1,683	2.03 (0.13) 353	10.83 (0.70) 361	90.3 (1.6) 361	255,605 (19,403) 1,668	5.27 (0.31) 353	49,114 (2,282) 980	38.8 (1.5) 980
3	ESTIMATE (SE) N	167,751 (22,783) 1,683	2.47 (0.23) 112	11.01 (1.11) 112	89.3 (2.9) 112	68,500 (9,085) 1,668	4.46 (0.43) 112	15,238 (1,392) 980	11.4 (1.0) 980
4	ESTIMATE (SE) N	379,174 (42,755) 1,683	2.02 (0.19) 217	12.59 (1.19) 220	91.4 (1.9) 220	185,458 (19,278) 1,668	6.23 (0.51) 217	29,931 (1,882) 980	22.4 (1.3) 980
5	ESTIMATE (SE) N	233,192 (30,622) 1,683	2.52 (0.24) 106	15.73 (1.48) 108	89.8 (2.9) 108	90,738 (11,950) 1,668	6.24 (0.58) 106	14,694 (1,368) 980	11.0 (1.0) 980
-----									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE) N	1,728,780 (77,828) 1,716	2.28 (0.09) 988	12.74 (0.52) 1,013	91.7 (0.9) 1,013	742,574 (30,444) 1,691	5.55 (0.20) 988	143,760 (2,547) 1,889	82.8 (1.1) 1,889

TABLE 8. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF RACCOON HUNTING IN MISSISSIPPI DURING THE 1989-90 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	58,553 (26,629) 1,705	1.53 (0.40) 33	13.21 (5.64) 33	93.9 (4.2) 33	38,342 (12,424) 1,702	8.64 (2.41) 33	4,432 (764) 132	25.0 (3.8) 132
2	ESTIMATE (SE) N	50,495 (14,455) 1,705	0.35 (0.10) 44	8.36 (2.07) 45	84.4 (5.5) 45	143,277 (53,971) 1,702	24.20 (8.47) 44	6,043 (889) 132	34.1 (4.1) 132
3	ESTIMATE (SE) N	9,266 (4,219) 1,705	0.90 (0.19) 12	5.75 (2.12) 12	91.7 (8.3) 12	10,359 (4,881) 1,702	6.42 (2.50) 12	1,612 (464) 132	9.1 (2.5) 132
4	ESTIMATE (SE) N	11,147 (4,518) 1,705	0.20 (0.11) 22	3.46 (1.24) 24	79.2 (8.5) 24	50,719 (24,100) 1,702	17.14 (7.46) 22	3,223 (653) 132	18.2 (3.4) 132
5	ESTIMATE (SE) N	13,161 (5,155) 1,705	0.88 (0.17) 18	5.44 (1.76) 18	94.4 (5.6) 18	14,933 (6,303) 1,702	6.17 (2.23) 18	2,417 (567) 132	13.6 (3.0) 132
-----									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE) N	149,847 (31,165) 1,716	0.55 (0.13) 134	7.85 (1.51) 143	88.1 (2.7) 143	267,606 (60,806) 1,707	14.88 (3.16) 134	38,304 (1,967) 1,889	16.7 (0.9) 1,889

TABLE 9. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF ALL DUCK HUNTING IN MISSISSIPPI DURING THE 1989-90 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	128,932 (25,059) 1,712	2.01 (0.17) 58	16.07 (2.39) 60	93.3 (3.2) 60	63,008 (11,270) 1,708	8.10 (1.01) 58	8,025 (1,018) 153	39.2 (4.0) 153
2	ESTIMATE (SE) N	77,172 (17,076) 1,712	1.45 (0.13) 51	10.89 (1.92) 53	86.8 (4.7) 53	45,178 (8,845) 1,708	6.61 (0.93) 51	7,089 (958) 153	34.6 (3.8) 153
3	ESTIMATE (SE) N	25,546 (15,143) 1,712	2.30 (0.69) 12	15.92 (8.61) 12	83.3 (11.2) 12	11,127 (4,658) 1,708	6.92 (2.20) 12	1,605 (482) 153	7.8 (2.2) 153
4	ESTIMATE (SE) N	10,185 (4,920) 1,712	1.21 (0.45) 15	5.07 (1.97) 15	80.0 (10.7) 15	8,446 (3,018) 1,708	4.20 (1.08) 15	2,006 (516) 153	9.8 (2.4) 153
5	ESTIMATE (SE) N	15,648 (6,115) 1,712	1.02 (0.27) 13	9.00 (2.59) 13	84.6 (10.4) 13	15,417 (5,773) 1,708	8.85 (2.33) 13	1,739 (481) 153	8.5 (2.3) 153
-----									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE) N	283,934 (34,486) 1,716	1.71 (0.12) 153	12.54 (1.34) 157	88.5 (2.6) 157	145,382 (16,184) 1,712	7.10 (0.57) 153	10,001 (2,001) 1,889	17.5 (0.9) 1,889

TABLE 10. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF MALLARD, WOOD DUCK, AND OTHER DUCK HUNTING IN MISSISSIPPI DURING THE 1985-1986 HUNT SEASON

REGION	STATISTIC	MALLARDS				WOOD DUCKS				OTHER DUCKS			
		TOTAL HARVEST	AVERAGE DAILY KILL	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL	PERCENT SUCCESSFUL HUNTERS	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS
1	ESTIMATE	78,178	0.22	85.0	28,723	0.44	93.3	3.52	93.3	21,533	0.34	2.68	15.0
	(SE)	(15,980)	(0.13)	(4.8)	(7,712)	(0.08)	(6.3)	(0.77)	(6.3)	(5,331)	(0.06)	(0.60)	(8.9)
2	ESTIMATE	38,780	0.70	60.4	23,408	0.39	71.7	3.30	71.7	9,886	0.36	2.40	15.3
	(SE)	(10,712)	(0.12)	(8.8)	(5,778)	(0.07)	(6.3)	(0.69)	(6.3)	(4,666)	(0.09)	(0.58)	(6.9)
3	ESTIMATE	0,987	0.99	58.3	12,037	0.08	96.7	7.50	96.7	2,541	0.23	1.58	25.0
	(SE)	(6,530)	(0.31)	(14.9)	(8,222)	(0.47)	(14.2)	(4.12)	(14.2)	(1,712)	(0.13)	(1.01)	(13.1)
4	ESTIMATE	0	0.00	0.0	0,165	1.21	80.0	5.07	80.0	0	0.00	0.00	0.0
	(SE)	(1,712)	(0.15)	(0.15)	(4,520)	(0.15)	(10.7)	(1.97)	(10.7)	(1,712)	(0.00)	(0.15)	(0.15)
5	ESTIMATE	2,407	0.18	48.2	0,298	0.97	69.3	5.92	69.3	2,942	0.19	1.69	22.1
	(SE)	(1,712)	(0.08)	(14.4)	(4,904)	(0.24)	(13.3)	(2.39)	(13.3)	(1,712)	(0.13)	(1.03)	(12.3)
STATEWIDE	ESTIMATE	132,901	0.86	93.1	85,932	0.55	98.2	4.08	98.2	15,101	0.31	2.15	27.8
	(SE)	(19,598)	(0.18)	(3.9)	(13,981)	(0.07)	(1.57)	(0.59)	(1.57)	(1,716)	(0.04)	(0.32)	(3.9)

TABLE 11. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF GOOSE HUNTING IN MISSISSIPPI DURING THE 1989-90 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	802 (231) 1,714	0.60 (0.30) 3	2.00 (1.15) 3	56.7 (33.3)	1,335 (1,778) 1,715	3.33 (0.33) 3	401 (231) 13	23.1 (12.2) 13
2	ESTIMATE (SE) N	401 (231) 1,714	0.08 (0.05) 7	0.43 (0.20) 7	50.0 (18.9)	5,073 (2,488) 1,715	4.75 (1.73) 8	1,088 (377) 13	61.5 (14.0) 13
3	ESTIMATE (SE) N	0 (0) 1,714	(.) (.) 7	(.) (.) 7	(.) (.) 7	0 (0) 1,715	(.) (.) 7	0 (0) 13	0.0 (0.0) 13
4	ESTIMATE (SE) N	0 (0) 1,714	0.00 (.) 1	0.00 (.) 1	0.0 (.) 1	134 (134) 1,715	1.00 (.) 1	134 (134) 13	7.7 (7.7) 13
5	ESTIMATE (SE) N	401 (401) 1,714	0.50 (.) 1	3.00 (.) 1	100.0 (.) 1	801 (801) 1,715	6.00 (.) 1	134 (134) 13	7.7 (7.7) 13
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE) N	1,736 (765) 1,715	0.22 (0.11) 12	1.00 (0.36) 13	57.1 (13.7) 14	7,343 (2,728) 1,715	4.23 (1.09) 13	22,667 (1,574) 1,889	9.9 (0.7) 1,889

TABLE 12. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF RED FOX HUNTING IN MISSISSIPPI DURING THE 1989-90 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	802 (327) 1,714	0.55 (0.19) 6	1.00 (0.00) 6	100.0 (0.0) 6	1,470 (767) 1,713	1.83 (0.65) 6	802 (327) 29	20.7 (7.7) 29
2	ESTIMATE (SE) N	1,469 (640) 1,714	0.23 (0.17) 8	1.38 (0.38) 8	87.5 (12.5) 8	9,282 (4,181) 1,713	5.88 (3.54) 8	1,089 (377) 29	27.6 (8.4) 29
3	ESTIMATE (SE) N	534 (422) 1,714	0.31 (0.11) 2	2.00 (1.00) 2	100.0 (0.0) 2	1,738 (1,610) 1,713	6.50 (5.50) 2	267 (189) 29	6.8 (4.8) 29
4	ESTIMATE (SE) N	1,069 (498) 1,714	0.03 (0.02) 8	1.00 (0.33) 8	75.0 (16.4) 8	33,150 (18,193) 1,713	31.00 (13.93) 8	1,069 (377) 29	27.6 (8.4) 29
5	ESTIMATE (SE) N	668 (353) 1,714	0.04 (0.05) 4	0.60 (0.24) 5	60.0 (24.5) 5	11,228 (10,698) 1,713	21.00 (19.67) 4	668 (298) 29	17.2 (7.1) 29
-----									PERCENT OF TOTAL LICENSEES
28	STATEWIDE	4,804 (1,045) 1,716	0.08 (0.03) 29	1.10 (0.15) 31	83.9 (6.7) 31	53,971 (21,555) 1,714	13.93 (5.02) 29	24,728 (1,636) 1,889	10.8 (0.7) 1,889

TABLE 13. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF GRAY FOX HUNTING IN MISSISSIPPI DURING THE 1989-90 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	534 (327) 1,716	0.33 (0.08) 3	1.33 (0.33) 3	100.0 (0.0) 3	1,803 (981) 1,714	4.00 (1.00) 3	400 (231) 20	15.0 (8.2) 20
2	ESTIMATE (SE) N	1,201 (550) 1,716	0.57 (0.31) 6	1.33 (0.42) 6	83.3 (16.7) 6	1,870 (981) 1,714	2.33 (0.84) 6	801 (326) 20	30.0 (10.5) 20
3	ESTIMATE (SE) N	0 (0) 1,716	(.) (.) 3	(.) (.) 3	(.) (.) 3	0 (0) 1,714	(.) (.) 3	0 (0) 20	0.0 (0.0) 20
4	ESTIMATE (SE) N	1,067 (462) 1,716	0.02 (0.02) 7	1.00 (0.27) 8	75.0 (16.4) 8	37,806 (19,585) 1,714	40.43 (15.50) 7	1,067 (377) 20	40.0 (11.2) 20
5	ESTIMATE (SE) N	267 (267) 1,716	0.02 (0.05) 2	0.67 (0.67) 3	33.3 (33.3) 3	10,954 (10,690) 1,714	41.00 (39.00) 2	400 (231) 20	15.0 (8.2) 20
----- PERCENT OF TOTAL LICENSEES -----									
STATEWIDE	ESTIMATE (SE) N	3,089 (830) 1,716	0.05 (0.03) 18	1.10 (0.19) 20	75.0 (9.9) 20	52,234 (22,340) 1,714	21.72 (7.98) 18	23,394 (1,596) 1,889	10.2 (0.7) 1,889

TABLE 14. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF BOBCAT HUNTING IN MISSISSIPPI DURING THE 1989-90 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	1 070 (422) 1,712	0.84 (0.11) 7	1.00 (0.22) 7	85.7 (14.3) 7	1 473 (669) 1,710	1.57 (0.43) 7	936 (353) 33	21.2 (7.2) 33
2	ESTIMATE (SE) N	802 (327) 1,712	0.22 (0.17) 4	1.00 (0.00) 6	100.0 (0.0) 6	2 410 (2,022) 1,710	4.50 (3.50) 4	802 (327) 33	18.2 (6.8) 33
3	ESTIMATE (SE) N	1 204 (443) 1,712	0.53 (0.28) 8	1.13 (0.13) 8	100.0 (0.0) 8	2 278 (1,384) 1,710	2.13 (1.13) 8	1 070 (378) 33	24.2 (7.6) 33
4	ESTIMATE (SE) N	802 (327) 1,712	0.86 (0.12) 6	1.00 (0.00) 6	100.0 (0.0) 6	937 (401) 1,710	1.17 (0.17) 6	802 (327) 33	18.2 (6.8) 33
5	ESTIMATE (SE) N	936 (401) 1,712	0.13 (0.04) 6	1.17 (0.17) 6	100.0 (0.0) 6	7 499 (4,032) 1,710	9.33 (3.58) 6	802 (327) 33	18.2 (6.8) 33
-----									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE) N	5 804 (971) 1,716	0.31 (0.08) 32	1.11 (0.08) 37	97.3 (2.7) 37	14 721 (4,772) 1,711	3.44 (0.95) 32	25 455 (1,656) 1,889	11.1 (0.7) 1,889

TABLE 15. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF COYOTE HUNTING IN MISSISSIPPI DURING THE 1989-90 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	11,241 (3,966) 1,711	0.08 (0.04) 22	3.00 (0.91) 28	88.3 (8.0) 28	121,740 (69,732) 1,689	40.82 (22.22)	3,747 (1,703) 134	20.8 (3.5) 134
2	ESTIMATE (SE) N	15,825 (2,632) 1,711	0.31 (0.05) 50	1.70 (0.23) 60	88.7 (4.4) 60	38,366 (10,482) 1,689	5.68 (1.34) 134	8,029 (1,018) 134	44.8 (4.3) 134
3	ESTIMATE (SE) N	3,613 (1,621) 1,711	0.24 (0.04) 10	2.10 (0.92) 10	80.0 (13.3) 10	11,930 (6,154) 1,689	8.80 (3.79) 10	1,338 (422) 134	7.5 (2.3) 134
4	ESTIMATE (SE) N	6,959 (1,933) 1,711	0.05 (0.02) 21	1.85 (0.40) 28	76.9 (8.4) 28	93,948 (53,356) 1,689	33.00 (17.74) 21	3,479 (677) 134	19.4 (3.4) 134
5	ESTIMATE (SE) N	1,608 (887) 1,711	0.08 (0.06) 9	1.10 (0.59) 10	50.0 (16.7) 10	18,844 (11,594) 1,689	15.44 (8.48) 9	1,338 (422) 134	7.5 (2.3) 134
-----									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE) N	40,030 (5,395) 1,716	0.11 (0.03) 114	1.86 (0.24) 139	82.7 (3.2) 139	284,762 (89,089) 1,691	18.45 (5.55) 114	37,818 (1,857) 1,889	18.5 (0.9) 1,889

TABLE 16. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF ARCHERY DEER HUNTING IN MISSISSIPPI DURING THE 1989-90 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	8,004 (1,323) 1,627	0.067 (0.011) 71	0.64 (0.12) 72	38.9 (5.8) 72	88,938 (13,397) 1,622	8.68 (0.91) 71	8,387 (1,083) 349	20.6 (2.2) 349
2	ESTIMATE (SE) N	9,005 (1,713) 1,627	0.055 (0.009) 130	0.53 (0.08) 131	29.8 (4.0) 131	181,681 (18,104) 1,622	9.50 (0.70) 130	17,097 (1,433) 349	37.5 (2.6) 349
3	ESTIMATE (SE) N	2,348 (688) 1,627	0.036 (0.009) 54	0.33 (0.09) 55	25.5 (5.9) 55	61,138 (11,129) 1,622	8.65 (1.08) 54	7,178 (952) 349	15.8 (2.0) 349
4	ESTIMATE (SE) N	7,048 (1,512) 1,627	0.073 (0.013) 70	0.72 (0.14) 72	37.5 (5.7) 72	91,379 (12,807) 1,622	9.97 (0.78) 70	9,397 (1,083) 349	20.6 (2.2) 349
5	ESTIMATE (SE) N	1,566 (583) 1,627	0.056 (0.017) 19	0.58 (0.19) 19	42.1 (11.6) 19	25,921 (7,484) 1,622	10.42 (1.89) 19	2,480 (566) 349	5.4 (1.2) 349
-----									PERCENT OF TOTAL LICENSEES (A)
STATEWIDE	ESTIMATE (SE) N	28,744 (3,004) 1,640	0.064 (0.006) 357	0.60 (0.06) 362	34.7 (2.5) 363	436,114 (27,596) 1,636	8.39 (0.40) 358	61,160 (2,270) 1,795	28.8 (1.1) 1,795

(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 1989-90 HUNTING SEASON.

REGION	STATISTIC	BUCKS				DOES			
		TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS
1	ESTIMATE (SE) N	2,218 (1,598) 1,627	0.025 (0.006) 71	0.24 (0.06) 72	20.8 (4.8) 72	3,785 (1,981) 1,627	0.042 (0.009) 71	0.40 (0.09) 72	29.2 (5.4) 72
2	ESTIMATE (SE) N	4,307 (1,185) 1,627	0.026 (0.007) 130	0.25 (0.07) 131	15.3 (3.2) 131	4,698 (1,987) 1,627	0.029 (0.006) 130	0.27 (0.05) 131	22.1 (3.6) 131
3	ESTIMATE (SE) N	1,044 (368) 1,627	0.017 (0.006) 54	0.15 (0.05) 55	14.5 (4.8) 55	1,305 (521) 1,627	0.019 (0.007) 54	0.18 (0.07) 55	14.5 (4.8) 55
4	ESTIMATE (SE) N	3,002 (1,812) 1,627	0.030 (0.008) 70	0.31 (0.08) 72	22.2 (4.8) 72	4,046 (1,945) 1,627	0.043 (0.008) 70	0.42 (0.09) 72	30.6 (5.5) 72
5	ESTIMATE (SE) N	1,044 (452) 1,627	0.040 (0.015) 19	0.42 (0.16) 19	31.6 (11.0) 18	522 (261) 1,627	0.015 (0.007) 19	0.18 (0.08) 19	15.8 (8.1) 18
STATEWIDE	ESTIMATE (SE) N	12,293 (1,665) 1,641	0.027 (0.003) 358	0.26 (0.03) 363	19.3 (2.1) 363	16,573 (2,144) 1,640	0.037 (0.004) 357	0.35 (0.04) 362	24.5 (2.3) 362

TABLE 18. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF PRIMITIVE WEAPON DEER HUNTING IN MISSISSIPPI DURING THE 1989-90 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	8,572 (1,544) 1,635	0.125 (0.018) 91	0.69 (0.10) 95	43.2 (5.1) 95	62,816 (7,966) 1,626	5.29 (0.40) 91	12,338 (1,229) 423	22.5 (2.0) 423
2	ESTIMATE (SE) N	10,520 (1,857) 1,635	0.104 (0.017) 142	0.55 (0.10) 143	37.1 (4.1) 143	98,337 (10,021) 1,626	5.30 (0.33) 142	18,572 (1,464) 423	33.8 (2.3) 423
3	ESTIMATE (SE) N	5,325 (1,232) 1,635	0.131 (0.025) 68	0.59 (0.12) 69	37.7 (5.9) 69	39,962 (5,610) 1,626	4.50 (0.34) 68	8,961 (1,056) 423	16.3 (1.8) 423
4	ESTIMATE (SE) N	7,922 (1,427) 1,635	0.101 (0.015) 91	0.64 (0.10) 94	39.4 (5.1) 94	68,301 (8,314) 1,626	5.75 (0.38) 91	12,208 (1,223) 423	22.2 (2.0) 423
5	ESTIMATE (SE) N	1,818 (608) 1,635	0.116 (0.024) 22	0.64 (0.17) 22	50.0 (10.9) 22	15,802 (3,958) 1,626	5.50 (0.75) 22	2,857 (605) 423	5.2 (1.1) 423
-----									PERCENT OF TOTAL LICENSEES(A)
STATEWIDE	ESTIMATE (SE) N	35,585 (3,168) 1,841	0.115 (0.008) 420	0.63 (0.05) 429	40.1 (2.4) 429	287,552 (15,570) 1,632	5.26 (0.18) 420	68,968 (2,348) 1,795	32.5 (1.1) 1,795

(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 1988-90 HUNTING SEASON.

REGION	STATISTIC	BUCKS				DOES			
		TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS
1	ESTIMATE (SE) N	3,117 (818) 1,635	0.048 (0.011) 91	0.25 (0.06) 95	17.9 (4.0) 95	5,455 (1,139) 1,635	0.077 (0.014) 91	0.44 (0.08) 95	32.8 (4.8) 95
2	ESTIMATE (SE) N	4,676 (1,033) 1,635	0.044 (0.009) 142	0.24 (0.05) 143	18.9 (3.3) 143	4,805 (1,008) 1,635	0.049 (0.009) 142	0.26 (0.05) 143	20.3 (3.4) 143
3	ESTIMATE (SE) N	2,857 (776) 1,635	0.072 (0.016) 68	0.32 (0.08) 69	23.2 (5.1) 69	2,468 (697) 1,635	0.058 (0.016) 68	0.28 (0.07) 69	21.7 (5.0) 69
4	ESTIMATE (SE) N	2,857 (659) 1,635	0.034 (0.008) 91	0.23 (0.05) 94	21.3 (4.2) 94	5,065 (1,103) 1,635	0.067 (0.013) 91	0.40 (0.08) 94	25.5 (4.5) 94
5	ESTIMATE (SE) N	649 (290) 1,635	0.041 (0.016) 22	0.23 (0.09) 22	22.7 (9.1) 22	1,168 (488) 1,635	0.074 (0.022) 22	0.41 (0.14) 22	31.8 (10.2) 22
STATEWIDE	ESTIMATE (SE) N	14,363 (1,665) 1,641	0.046 (0.005) 420	0.25 (0.03) 429	20.0 (1.8) 429	20,316 (2,127) 1,641	0.066 (0.006) 420	0.36 (0.08) 429	25.6 (2.1) 429

TABLE 20. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF REGULAR GUN DEER HUNTING IN MISSISSIPPI DURING THE 1989-90 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	34,745 (3,474) 1,589	0.084 (0.006) 227	1.09 (0.09) 233	55.8 (3.3) 233	402,612 (31,155) 1,558	13.01 (0.61) 227	31,098 (1,883) 1,341	17.4 (1.0) 1,341
2	ESTIMATE (SE) N	80,448 (7,543) 1,589	0.081 (0.004) 502	1.09 (0.08) 515	52.2 (2.2) 515	902,538 (43,956) 1,558	13.18 (0.42) 502	68,736 (2,492) 1,341	38.4 (1.3) 1,341
3	ESTIMATE (SE) N	24,322 (2,852) 1,589	0.078 (0.007) 175	1.02 (0.10) 176	50.3 (3.8) 177	317,292 (27,763) 1,558	13.23 (0.68) 176	23,624 (1,675) 1,341	13.2 (0.8) 1,341
4	ESTIMATE (SE) N	43,966 (3,949) 1,589	0.073 (0.005) 295	1.05 (0.08) 308	50.7 (2.8) 308	568,027 (37,948) 1,558	14.15 (0.58) 295	40,841 (2,099) 1,341	22.8 (1.1) 1,341
5	ESTIMATE (SE) N	11,760 (2,093) 1,589	0.054 (0.007) 108	0.78 (0.12) 110	41.8 (4.7) 110	198,035 (22,743) 1,558	13.45 (0.91) 108	14,681 (1,351) 1,341	8.2 (0.7) 1,341
-----									PERCENT OF TOTAL LICENSEES(A)
STATEWIDE	ESTIMATE (SE) N	200,427 (9,393) 1,639	0.080 (0.003) 1,355	1.07 (0.04) 1,390	51.5 (1.3) 1,391	2,372,563 (52,553) 1,606	13.23 (0.26) 1,356	182,771 (1,736) 1,795	86.1 (0.8) 1,795

(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 1989-90 HUNTING SEASON.

REGION	STATISTIC	BUCKS					DOES			
		TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	
1	ESTIMATE (SE) N	25,492 (2,684) 1,591	0.063 (0.005) 227	0.81 (0.07) 233	48.5 (3.3) 233	9,221 (1,501) 1,589	0.021 (0.003) 227	0.28 (0.04) 233	20.6 (2.7) 233	
2	ESTIMATE (SE) N	65,265 (4,560) 1,591	0.070 (0.004) 502	0.94 (0.06) 515	48.5 (2.2) 515	12,428 (2,227) 1,589	0.013 (0.002) 502	0.17 (0.03) 515	11.7 (1.4) 515	
3	ESTIMATE (SE) N	21,488 (2,529) 1,591	0.068 (0.006) 176	0.90 (0.09) 177	48.6 (3.8) 177	2,940 (1,728) 1,589	0.008 (0.002) 175	0.12 (0.03) 176	10.2 (2.3) 177	
4	ESTIMATE (SE) N	37,771 (3,589) 1,591	0.063 (0.005) 235	0.91 (0.07) 306	46.1 (2.8) 306	6,147 (1,952) 1,589	0.010 (0.002) 295	0.14 (0.02) 306	13.4 (2.0) 306	
5	ESTIMATE (SE) N	10,277 (1,922) 1,591	0.047 (0.007) 108	0.89 (0.11) 110	39.1 (4.7) 110	1,470 (582) 1,589	0.008 (0.003) 108	0.10 (0.04) 110	7.3 (2.5) 110	
STATEWIDE	ESTIMATE (SE) N	160,068 (6,138) 1,641	0.065 (0.002) 1,356	0.88 (0.03) 1,391	47.2 (1.3) 1,391	35,369 (3,343) 1,639	0.014 (0.001) 1,355	0.18 (0.02) 1,390	13.2 (0.8) 1,391	

TABLE 22. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF SPRING TURKEY HUNTING IN MISSISSIPPI DURING THE 1989-90 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	8,526 (1,802) 1,500	0.120 (0.018) 45	1.22 (0.19) 45	92.2 (7.3) 45	70,986 (14,584) 1,497	10.16 (1.48) 100	6,976 (1,322)	14.0 (1.9) 322
2	ESTIMATE (SE) N	8,218 (1,864) 1,500	0.078 (0.011) 74	0.89 (0.12) 75	38.7 (5.7) 75	102,518 (17,747) 1,497	8.82 (1.17) 100	11,626 (1,308) 322	23.3 (2.4) 322
3	ESTIMATE (SE) N	9,766 (1,784) 1,500	0.099 (0.011) 72	0.88 (0.13) 72	50.0 (5.8) 72	98,790 (16,170) 1,497	8.83 (1.04) 100	11,161 (1,284) 322	22.4 (2.3) 322
4	ESTIMATE (SE) N	18,292 (2,533) 1,500	0.102 (0.009) 100	1.17 (0.12) 101	64.4 (4.8) 101	174,280 (21,953) 1,497	11.22 (0.91) 100	15,657 (1,505) 322	31.4 (2.6) 322
5	ESTIMATE (SE) N	3,565 (1,013) 1,500	0.075 (0.015) 28	0.79 (0.17) 28	51.7 (9.4) 29	43,492 (11,807) 1,497	10.00 (2.00) 28	4,496 (827) 322	9.0 (1.6) 322
STATEWIDE	ESTIMATE (SE) N	48,100 (3,940) 1,506	0.097 (0.005) 325	0.97 (0.06) 328	54.0 (2.8) 328	496,000 (35,900) 1,503	9.86 (0.52) 325	63,339 (2,574) 1,619	27.2 (1.1) 1,619

(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 1989 HUNTING SEASON.

REGION(A)	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	659 (348) 1,611	0.138 (0.070) 12	0.42 (0.19) 12	33.3 (14.2) 12	4,745 (1,578) 1,611	3.00 (0.52) 12	1,582 (455) 19	83.2 (11.4) 19
3	ESTIMATE (SE) N	385 (295) 1,611	0.100 (0.081) 7	0.43 (0.30) 7	28.6 (18.4) 7	3,854 (1,805) 1,611	4.29 (1.19) 7	923 (348) 19	36.8 (11.4) 19
STATEWIDE	ESTIMATE (SE) N	1,054 (456) 1,612	0.114 (0.048) 20	0.40 (0.15) 20	30.0 (10.5) 20	9,221 (2,447) 1,612	3.50 (0.52) 20	20,922 (1,506) 1,766	9.9 (0.7) 1,766
PERCENT OF TOTAL LICENSEES(B)									

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

TABLE 24 . EXPANDED STATEWIDE SUMMARIES OF ALL DEER, BUCK, AND DOE HUNTING IN MISSISSIPPI DURING THE 1989-90 HUNTING SEASON AND ALL TURKEY HUNTING (COMBINING SPRING AND FALL DATA) DURING THE 1989 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	262,386 (10,271) 1,638	0.082 (0.003) 1,397	1.39 (0.05) 1,435	54.1 (1.3) 1,437	3,109,769 (74,582) 1,602	16.78 (0.37) 1,398	188,213 (1,591) 1,795	88.6 (0.7) 1,795
BUCK	ESTIMATE (SE) N	186,337 (7,069) 1,641	0.058 (0.002) 1,398	0.88 (0.04) 1,437	48.6 (1.3) 1,437				
DOE	ESTIMATE (SE) N	72,858 (4,781) 1,638	0.022 (0.001) 1,397	0.38 (0.02) 1,435	22.6 (1.1) 1,436				
TURKEY	ESTIMATE (SE) N	50,154 (3,867)	0.096 (0.005) 347	0.97 (0.06) 350	52.9 (2.7) 350	505,221 (35,983)	9.95 (0.50) 347	84,261 (2,982) 1,826	27.8 (1.0) 1,826

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



1989-90 MISSISSIPPI HUNTER QUESTIONNAIRE

A. Please fill in the blocks below for each game species you hunted during the 1989-90 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)			
10 Turkey (Spring '89)			
11 Turkey (Fall '89)			
	Mallard Wood Other		
12 Ducks			
13 Geese			
14 Red Fox			
15 Gray Fox			
16 Bobcat			
17 Coyote			

Determine REGION HUNTED MOST from map.

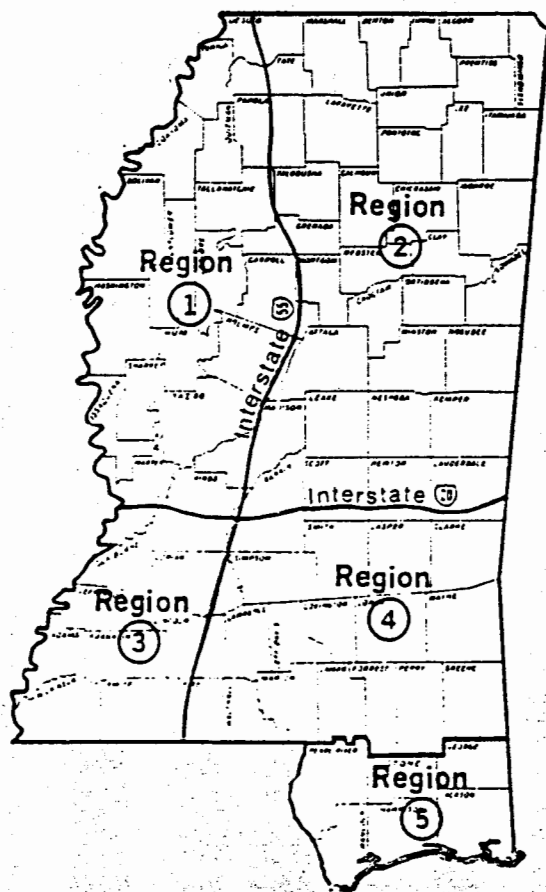


Fig. 1 Questionnaire used for the 1989-90 mail survey of game harvest and hunter effort in Mississippi.

B. Please answer the following:

1. How many days did you spend deer hunting during the regular gun season in each of the following?
(Number of days)

- ___ Wildlife Management Areas
- ___ Other public land (National Forest Service, National Wildlife Refuge, etc.)
- ___ Private lands (excluding clubs or leases)
- ___ Private hunting clubs or leases
- ___ Other

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

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

3. Do you participate in? (check one)

- ☐ Small game hunting only (squirrels, quail, rabbits, ducks, etc.)
- ☐ Large game hunting only (deer and/or turkey)
- ☐ Small and large game hunting
- ☐ Small game hunting and fishing
- ☐ Large game hunting and fishing
- ☐ Small and large game hunting and fishing

4. Would you support a tagging system for deer and turkeys? (check one)

- ☐ Yes
- ☐ No
- ☐ Not sure

5. If you are a landowner or hunting club member would you like more information on wildlife management? (check one)

- ☐ Yes
- ☐ No
- ☐ Not sure
- ☐ Not a landowner or club member

6. Did you hunt bullfrogs in Mississippi during the 1989-90 season? (check one)

- ☐ Yes
- ☐ No

7. Did you hunt mowthens (gallinules), rails or snipe in Mississippi during the 1989-90 season? (check one)

- ☐ Yes
- ☐ No

8. If you own or lease at least 50 acres would you be willing to pay a small fee to obtain doe tags? (check one)

- ☐ Yes
- ☐ No
- ☐ Not sure
- ☐ Do not own or lease at least 50 acres

9. Would you support having a portion of the wildlife management areas set aside for small game management (check one)

- ☐ Yes
- ☐ No
- ☐ Not sure

10. The 1989-90 fall and winter hunting seasons have just been completed. Did you purchase a license to hunt deer and turkey during the previous 1988-89 hunting seasons (not the one just completed)?

- ☐ Yes
- ☐ No

Recently there has been a great deal of interest in the black bear in Mississippi.

11. Do you think learning more about black bear in Mississippi is? (check one)

- ☐ Very important
- ☐ Important
- ☐ Not important
- ☐ No opinion

12. Your age: _____ years



STATE OF MISSISSIPPI
Department of Wildlife,
Fisheries and Parks

RAY MABUS
Governor

Dear Sportsman:

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

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

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

Yours for better conservation,


Vernon Bevill
Executive Director

VB:bjs

Enclosure

Fig. 2 Cover letter mailed with the initial mailing of the 1989-90 survey of game harvest and hunter effort in Mississippi.

Survey Section
DEPARTMENT OF WILDLIFE, FISHERIES & PARKS
P. O. Box 451
JACKSON, MISSISSIPPI 39205



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

Dear Sportsman:

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

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

Sincerely,

Vernon Bevill
Executive Director

Fig. 3 Post card used as the first reminder mailing to nonrespondents during the 1989-90 survey of game harvest and hunter effort in Mississippi.



STATE OF MISSISSIPPI
Department of Wildlife,
Fisheries and Parks

RAY MABUS
Governor

Dear Sportsman:

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

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

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

Sincerely for better conservation,

A handwritten signature in cursive script, appearing to read "Vernon Bevill".

Vernon Bevill
Executive Director

VB/ccs

Enclosure

Fig. 4 Cover letter mailed with the second (and final) reminder mailing to non respondents during the 1989-90 survey of game harvest and hunter effort in Mississippi.

REGION HUNTED MOST

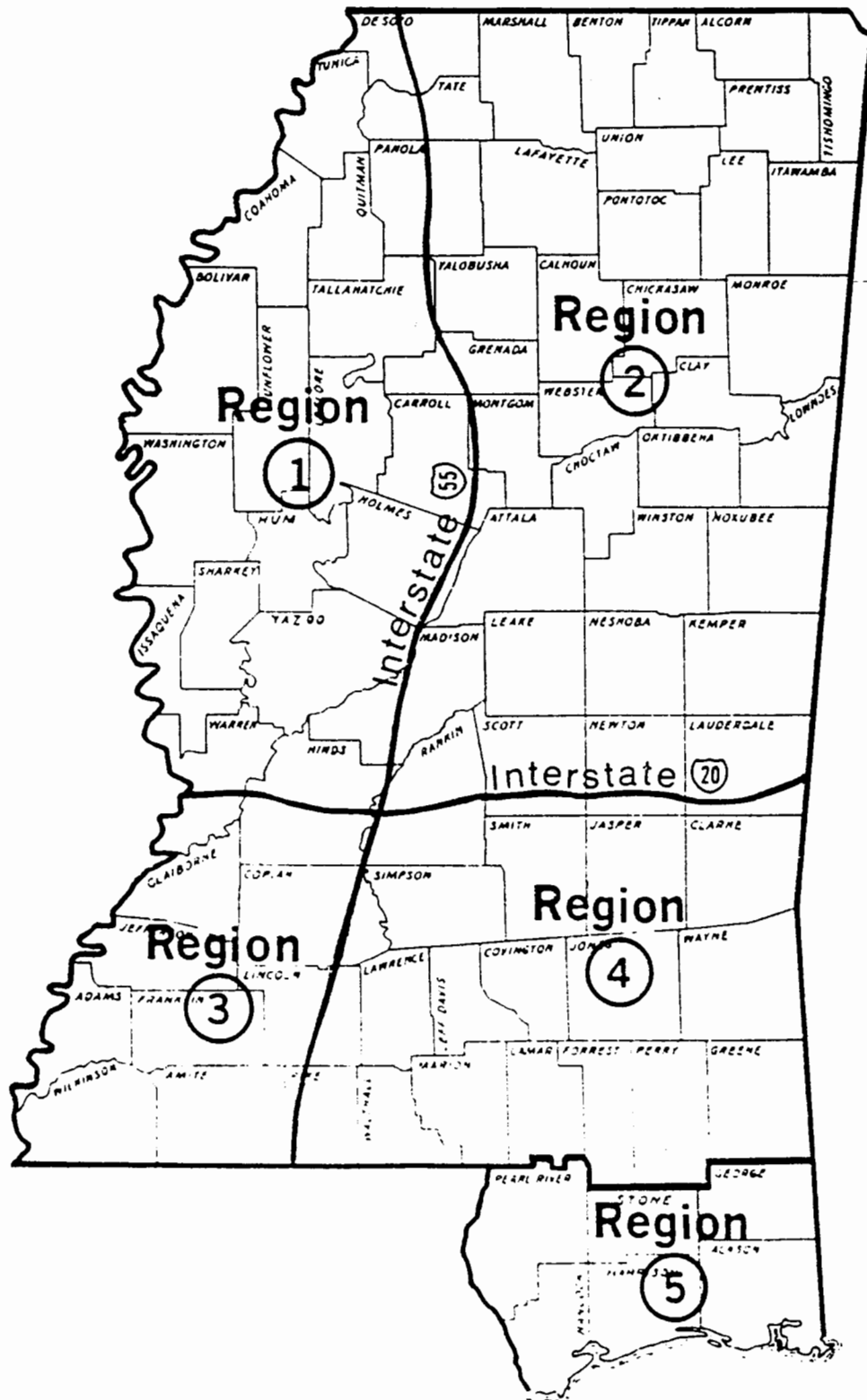


Fig. 5 Regional partitions utilized for region hunted most.