

MISSISSIPPI MAIL SURVEY OF GAME
HARVEST AND HUNTER EFFORT FOR 1991-92

by

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INTRODUCTION

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

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

The primary objective of the mail survey for the 1991-92 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 future management decisions.

METHODS

The sampling frame for the survey consisted of resident holders of a Type 00 - Sportsman, Type 01 - All Game Hunting and Fishing, Type 02 - Small Game Hunting or Type 05 - Small Game Hunting and Fishing license purchased during the 1991-92 license year.

A 2.2 percent sample of these hunting license buyers was selected from the 176,165 licenses processed from July 1, 1991 - January 31, 1992. An approximate random sample was achieved by selecting license sales stubs whose license number ended in predetermined but randomly selected sets of terminal digits between 000 and 999. A different set of digits was selected for each of Types 01, 02, and 05 licenses. An optical scanning device (S6000 Burroughs Document Processor) was used to mechanically make the stub selections. Sampling was discontinued at the end of January to expedite mailing the survey immediately after the close of the February hunting season.

An initial sample of 4,361 Type 01, 02, and 05 license holders was selected. Since approximately 1.24 percent of the selected license stubs lacked complete names and/or addresses, the 2.2 percent sample of stubs resulted in a 2.17 percent or 4,307 usable licenses. Names and addresses were keypunched for each usable stub sampled.

A sample of Sportsman license holders comparable to the other types was achieved as follows. For each of the past 11 years (80/81 - 90/91) the total sales of Types 01, 02, and

05 were divided into the total sales of these types for July - January of each year. Based on an average of 11 years 90.46 percent of the predicted sales had been accounted for by the end of January of each year. Therefore the 2.17 percent sample of license holders in January would be about a 1.963 percent ($0.9046 \times 0.0217 \times 100$) sample of total sales expected through June 1992.

Because of the computerized and renewable aspects of Sportsman's licenses (Type 00), virtually all 91-92 Sportsman's license holders are accounted for by the end of January. Sales were 38,929 by February 1992. To achieve a sample of Sportsman license holders comparable to Types 01, 02, and 05 a computer generated random sample of 765 hunters or 1.963 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 5,064 sampled hunters. Three weeks after the initial mailing reminder post cards (Figure 3) were mailed to 3,234 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 2,690 nonrespondents. First mailing questionnaires were given identification numbers from 100,001 to 105,064 while the final mailing was given a 200,000 numbering sequence to differentiate responses between mailings. Questionnaires returned five weeks after the final mailing were not considered in the analyses.

Questionnaire design and mailing procedures were outlined followed as 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 1991-92 survey obtained information about two license years. Turkey harvest indices were partially calculated from hunters who hunted during the spring 1991 turkey season which was the 90/91 license year. Indices for other species were determined for the 91-92 season alone. Because of prior irregularities in the license sales structure, only surveys beginning with the 1982-83 season had well defined sampling frames with a known number of license buyers (Steffen 1981, 1983 a, b). Therefore spring 1991 turkey indices were calculated based on the respondents who also purchased a big game license during the previous July 1, 1990 - June 30, 1991 fiscal year (Questionnaire Part B, question # 9).

Estimates and standard errors of total turkey and man-days of effort were calculated as a linear combination of the spring 1991 estimates plus the fall 1991 estimates. The computer programs were altered to reflect these changes. All calculations follow Steffen (1981).

RESULTS

Based on all three mailings, 489 (9.6%) of the 5,064 questionnaires were returned as non-deliverable by the post office. Therefore, 4,575 individuals were assumed to have been contacted to participate in the survey. Of these, 2,896 (63.3%) returned their questionnaires for possible analysis and 1,679 (36.6%) were nonresponses. Based on those returned questionnaires, 2,843 were answered and usable to some extent, 49 were returned after the acceptance deadline (5 weeks after the final mailing) and only 4 were considered completely useless.

Statewide expansions were calculated based on the 227,684 total hunting licenses sold and accounted for by the end of June 1992. There existed 227,684 individuals licensed to hunt small game and 213,856 (Types 00 +01) of these license holders also were eligible to pursue big game (deer and turkey) during the 1991-92 hunting seasons. The spring, 1991 turkey hunting estimates were based on the 218,827 big game license holders accounted for in the 1990-91 license sales totals.

Based on the 2,843 usable responses, 90.0 ± 0.5 (SE) percent of all resident license holders actually participated in a hunting activity during the 1989-90 hunting season. Therefore an estimated $227,684 \pm 1,252$ (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.

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

DISCUSSION

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 1993-94 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 1991-92 MISSISSIPPI MAIL SURVEY OF GAME HARVEST BASED ON 227,684 SMALL GAME LICENSE HOLDERS AND 213,856 BIG GAME LICENSE HOLDERS.

SPECIES	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENSEES (A)
DOVE	1,756,385	6.25	21.74	92.4	278,307	3.48	80,166	35.2
QUAIL	220,474	2.16	11.91	76.7	101,888	5.59	18,580	8.2
WOODCOCK	6,967	0.99	2.47	79.4	6,852	2.59	2,723	1.2
RABBIT	464,267	1.32	7.85	81.9	349,390	6.02	59,264	26.0
SQUIRREL	1,365,943	2.12	12.56	90.8	627,628	5.86	108,276	47.6
RACCOON	128,538	0.69	7.86	92.9	174,684	11.80	15,697	6.9
ALL DUCKS	160,468	1.47	9.70	85.9	105,375	6.60	16,418	7.2
MALLARD	69,274	0.65	4.20	57.1				
WOOD DUCK	55,118	0.51	3.28	65.9				
OTHER DUCKS	36,359	0.31	2.19	33.2				
GEESE	4,004	0.64	2.94	88.2	6,089	4.75	1,361	0.6
RED FOX	4,245	0.27	1.38	81.1	14,516	5.48	2,963	1.3
GRAY FOX	6,167	0.31	2.92	69.2	19,081	10.35	2,082	0.9
BOBCAT	7,608	0.21	1.48	88.5	30,862	7.53	4,885	2.1
COYOTE	42,045	0.14	2.17	85.3	244,898	16.30	17,939	7.9
TOTAL DEER	277,714	0.080	1.58	56.3	3,248,982	18.46	177,323	82.9
BUCK	197,006	0.058	1.11	49.8				
DOE	80,874	0.022	0.46	26.8				
ARCHERY DEER	33,940	0.054	0.63	36.7	571,260	11.02	53,268	24.9
BUCK	16,656	0.026	0.31	23.5				
DOE	17,383	0.028	0.32	25.1				
PRIMITIVE DEER	34,909	0.103	0.59	40.0	316,266	5.47	59,160	27.7
BUCK	15,253	0.044	0.25	21.4				
DOE	19,641	0.059	0.33	27.1				
GUN DEER	208,266	0.084	1.21	54.1	2,353,310	13.88	171,038	80.0
BUCK	164,408	0.068	0.96	48.8				
DOE	43,858	0.016	0.26	16.8				
TOTAL TURKEY	42,167	0.045	0.98	51.2	388,682	21.39	43,805	18.3
SPRING 1991	39,535	0.101	0.93	51.7	359,975	8.96	41,252	18.9
FALL 1991	2,632	0.147	1.03	43.8	8,708	3.89	2,553	1.2

(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 1991-92 HUNTING SEASON.

SPECIES	TOTAL HARVEST	STANDARD ERROR		AS % OF TOTAL (A)	95% CONFIDENCE INTERVAL	
		SE			LOWER LIMIT	UPPER LIMIT
DOVE	1,756,385	84,751		4.8	1,586,883	1,925,887
QUAIL	220,474	35,482		16.1	149,510	291,438
WOODCOCK	6,967	1,824		26.2	3,319	10,615
RABBIT	464,267	37,635		8.1	388,997	539,537
SQUIRREL	1,365,943	55,432		4.1	1,255,079	1,476,807
RACCOON	126,536	18,015		14.2	90,506	162,566
ALL DUCKS	180,468	19,834		12.4	120,800	200,136
MALLARD	89,274	10,447		15.1	48,380	90,168
WOOD DUCK	55,118	7,086		12.9	40,946	69,280
OTHER DUCKS	36,359	6,883		18.9	22,593	50,125
GEESE	4,004	1,522		38.0	960	7,048
RED FOX	4,245	1,081		25.5	2,083	6,407
GRAY FOX	6,167	2,059		33.4	2,049	10,285
BOBCAT	7,608	1,826		24.0	3,956	11,260
COYOTE	42,045	4,226		10.1	33,593	50,497
TOTAL DEER	277,714	8,877		3.2	259,980	295,468
BUCK	197,008	8,261		3.2	184,484	209,528
Doe	80,874	4,420		5.5	72,034	89,714
ARCHERY DEER	33,940	2,403		7.1	29,134	38,746
BUCK	16,656	1,426		8.6	13,804	19,508
Doe	17,363	1,395		8.0	14,573	20,153
PRIMITIVE DEER	34,909	2,324		6.7	30,261	39,557
BUCK	15,253	1,349		8.8	12,555	17,951
Doe	18,641	1,443		7.3	16,755	22,527
GUN DEER	208,268	6,865		3.3	194,536	221,996
BUCK	164,408	5,166		3.1	154,076	174,740
Doe	43,856	3,665		8.4	36,526	51,186
TOTAL TURKEY	42,167	3,108		7.4	35,951	48,383
SPRING 1991	39,535	2,930		7.4	33,675	45,395
FALL 1991	2,632	1,036		39.4	560	4,704

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

TABLE 3. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF DOVE HUNTING IN MISSISSIPPI DURING THE 1991-92 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	448,444 (43,646) 2,828	6.54 (0.39) 232	24.01 (1.79) 232	92.3 (1.8) 233	58,948 (6,188) 2,830	3.58 (0.24) 233	18,718 (1,175) 992	23.5 (1.3) 992
2	ESTIMATE (SE) N	778,135 (57,176) 2,828	6.20 (0.33) 457	20.56 (1.22) 458	92.2 (1.2) 462	123,255 (8,307) 2,830	3.32 (0.17) 461	37,117 (1,580) 992	46.6 (1.6) 992
3	ESTIMATE (SE) N	77,912 (14,523) 2,828	5.51 (0.55) 56	16.91 (2.28) 57	96.5 (2.5) 57	13,989 (2,695) 2,830	3.11 (0.44) 56	4,579 (601) 992	5.7 (0.7) 992
4	ESTIMATE (SE) N	301,593 (35,538) 2,828	6.37 (0.58) 180	20.70 (1.94) 181	90.6 (2.2) 181	47,307 (4,956) 2,830	3.27 (0.25) 180	14,542 (1,046) 992	18.2 (1.2) 992
5	ESTIMATE (SE) N	124,872 (33,316) 2,828	6.86 (0.98) 57	27.21 (6.38) 57	96.6 (2.4) 58	18,183 (3,557) 2,830	3.96 (0.58) 57	4,660 (606) 992	5.8 (0.7) 992
-----									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE) N	1,756,385 (84,751) 2,837	6.25 (0.22) 1,247	21.74 (0.89) 995	92.4 (0.8) 1,001	278,307 (12,196) 2,838	3.48 (0.12) 996	89,198 (2,040) 2,843	35.2 (0.6) 2,843
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TABLE 4. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF QUAIL HUNTING IN MISSISSIPPI DURING THE 1991-92 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	31,496 (13,266) 2,841	1.88 (0.60) 37	10.62 (4.18) 37	70.3 (7.6) 37	16,773 (4,567) 2,837	5.65 (1.25) 37	2,964 (484) 231	16.0 (2.4) 231
2	ESTIMATE (SE) N	123,259 (27,093) 2,841	2.29 (0.44) 122	12.40 (2.51) 124	78.2 (3.7) 124	53,450 (8,871) 2,837	5.48 (0.77) 122	9,834 (873) 231	53.7 (3.3) 231
3	ESTIMATE (SE) N	3,927 (2,230) 2,841	2.04 (0.76) 10	4.90 (2.44) 10	50.0 (16.3) 10	1,926 (735) 2,837	2.40 (0.54) 10	801 (253) 231	4.3 (1.3) 231
4	ESTIMATE (SE) N	44,319 (17,740) 2,841	2.37 (0.77) 34	15.80 (5.82) 35	80.0 (6.9) 35	18,698 (4,857) 2,837	6.85 (1.36) 34	2,804 (471) 231	15.2 (2.4) 231
5	ESTIMATE (SE) N	16,589 (6,314) 2,841	1.64 (0.47) 23	8.63 (2.83) 24	80.0 (8.2) 25	10,112 (2,930) 2,837	5.48 (1.13) 23	2,003 (399) 231	10.8 (2.0) 231
-----									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE) N	220,474 (35,482) 2,842	2.16 (0.28) 483	11.81 (1.77) 231	76.7 (2.8) 232	101,888 (11,433) 2,838	5.58 (0.52) 227	18,580 (1,169) 2,843	8.2 (0.5) 2,843

TABLE 5. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF WOODCOCK HUNTING IN MISSISSIPPI DURING THE 1991-92 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	641 (340) 2,843	0.85 (0.71) 3	2.00 (0.58) 3	100.0 (0.0) 3	561 (416) 2,841	2.33 (1.33) 3	240 (139) 34	8.8 (4.9) 34
2	ESTIMATE (SE) N	1,201 (594) 2,843	0.46 (0.23) 8	1.87 (0.65) 9	66.7 (16.7) 9	2,244 (1,081) 2,841	3.50 (1.22) 8	721 (240) 34	26.5 (7.7) 34
3	ESTIMATE (SE) N	1,041 (821) 2,843	1.63 (1.03) 4	3.25 (2.29) 4	75.0 (25.0) 4	641 (358) 2,841	2.00 (0.58) 4	320 (160) 34	11.8 (5.6) 34
4	ESTIMATE (SE) N	2,723 (1,354) 2,843	1.62 (0.48) 10	3.09 (1.28) 11	81.8 (12.2) 11	1,683 (693) 2,841	2.10 (0.58) 10	881 (265) 34	32.4 (8.1) 34
5	ESTIMATE (SE) N	1,281 (599) 2,843	0.84 (0.27) 7	2.29 (0.68) 7	85.7 (14.3) 7	1,523 (858) 2,841	2.71 (1.23) 7	561 (212) 34	20.6 (7.0) 34
STATEWIDE									PERCENT OF TOTAL LICENSEES
		ESTIMATE (SE) N	0.99 (0.23) 288	2.47 (0.52) 34	79.4 (7.0) 34	6,652 (1,836) 2,841	2.58 (0.32) 34	2,723 (464) 2,843	1.2 (0.2) 2,843

TABLE 6. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF RABBIT HUNTING IN MISSISSIPPI DURING THE 1991-92 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	106,301 (25,192) 2,823	1.98 (0.31) 128	10.05 (2.23) 131	83.2 (3.3) 131	53,558 (8,281) 2,810	5.16 (0.67) 128	10,558 (1,801) 722	18.1 (1.4) 722
2	ESTIMATE (SE) N	144,611 (18,408) 2,823	1.10 (0.13) 252	6.98 (0.79) 257	79.5 (2.5) 258	129,480 (16,132) 2,810	6.32 (0.68) 253	20,794 (1,234) 722	35.7 (1.8) 722
3	ESTIMATE (SE) N	62,345 (12,738) 2,823	2.13 (0.35) 86	11.54 (1.82) 87	83.8 (4.6) 67	28,007 (5,177) 2,810	5.42 (0.71) 66	5,400 (652) 722	9.3 (1.1) 722
4	ESTIMATE (SE) N	107,995 (17,402) 2,823	1.31 (0.15) 182	7.19 (1.04) 186	81.8 (2.8) 187	81,918 (10,678) 2,810	5.52 (0.80) 183	15,071 (1,065) 722	25.9 (1.6) 722
5	ESTIMATE (SE) N	37,262 (6,659) 2,823	0.70 (0.14) 77	5.85 (0.82) 78	86.1 (3.9) 79	51,128 (11,628) 2,810	8.19 (1.63) 77	6,367 (706) 722	10.9 (1.2) 722
-----									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE) N	464,267 (37,635) 2,840	1.32 (0.09) 973	7.85 (0.59) 737	81.9 (1.4) 740	349,380 (23,809) 2,823	6.02 (0.36) 720	59,264 (1,874) 2,843	28.0 (0.8) 2,843

TABLE 7. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF SQUIRREL HUNTING IN MISSISSIPPI DURING THE 1991-92 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	218,126 (21,381) 2,811	2.11 (0.17) 239	11.22 (0.86) 240	92.5 (1.7) 240	102,686 (12,658) 2,796	5.28 (0.56) 239	19,405 (1,198) 1,325	18.1 (1.1) 1,325
2	ESTIMATE (SE) N	528,428 (37,995) 2,811	1.81 (0.14) 530	11.91 (0.72) 539	90.2 (1.3) 542	278,253 (24,079) 2,796	6.42 (0.50) 532	43,823 (1,692) 1,325	40.9 (1.4) 1,325
3	ESTIMATE (SE) N	157,540 (21,168) 2,811	2.80 (0.25) 124	15.54 (1.59) 125	92.9 (2.3) 128	55,211 (6,846) 2,796	5.42 (0.48) 125	10,188 (887) 1,325	9.5 (0.8) 1,325
4	ESTIMATE (SE) N	338,003 (31,371) 2,811	2.50 (0.14) 308	13.29 (1.01) 314	90.8 (1.6) 315	134,363 (11,568) 2,796	5.34 (0.36) 309	25,469 (1,353) 1,325	23.8 (1.2) 1,325
5	ESTIMATE (SE) N	123,521 (16,818) 2,811	2.27 (0.24) 100	14.95 (1.43) 102	90.2 (3.0) 102	53,582 (7,763) 2,796	6.58 (0.70) 100	8,247 (802) 1,325	7.7 (0.7) 1,325
-----									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE) N	1,365,943 (55,432) 2,837	2.12 (0.06) 1,574	12.56 (0.45) 1,346	90.8 (0.8) 1,352	927,928 (29,568) 2,814	5.86 (0.25) 1,323	108,278 (2,133) 2,843	47.6 (0.9) 2,843
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TABLE 8. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF RACCOON HUNTING IN MISSISSIPPI DURING THE 1991-92 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	36,985 (13,112) 2,838	1.14 (0.29) 34	13.03 (4.18) 35	100.0 (0.0) 35	32,055 (8,982) 2,827	11.71 (2.64) 34	2,808 (472) 191	18.3 (2.8) 191
2	ESTIMATE (SE) N	37,085 (7,732) 2,838	0.59 (0.10) 70	5.82 (1.00) 76	92.1 (3.1) 76	56,377 (13,765) 2,827	10.00 (2.15) 70	6,097 (680) 191	39.8 (3.6) 191
3	ESTIMATE (SE) N	18,254 (8,802) 2,838	1.56 (0.34) 18	12.63 (3.58) 19	89.5 (7.2) 19	11,758 (4,280) 2,827	8.11 (2.30) 18	1,524 (389) 191	9.9 (2.2) 191
4	ESTIMATE (SE) N	24,710 (6,480) 2,838	0.45 (0.20) 36	8.11 (1.70) 38	94.7 (3.7) 38	55,169 (26,063) 2,827	19.03 (8.54) 38	3,049 (491) 191	19.9 (2.9) 191
5	ESTIMATE (SE) N	7,702 (2,845) 2,838	0.41 (0.20) 22	4.17 (1.30) 23	91.3 (6.0) 23	18,685 (9,717) 2,827	10.55 (5.12) 22	1,845 (383) 191	12.0 (2.4) 191
STATEWIDE	ESTIMATE (SE) N	126,536 (18,015) 2,843	0.69 (0.12) 440	7.86 (1.00) 196	92.9 (1.8) 196	174,884 (32,423) 2,831	11.80 (2.03) 184	15,897 (1,082) 2,843	8.8 (0.5) 2,843

TABLE 9. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF ALL DUCK HUNTING IN MISSISSIPPI DURING THE 1991-92 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	79,641 (16,419) 2,836	1.96 (0.24) 72	13.78 (2.36) 72	87.7 (3.9) 73	41,054 (6,483) 2,834	7.00 (0.76) 73	5,859 (677) 199	36.7 (3.4) 199
2	ESTIMATE (SE) N	40,142 (7,803) 2,836	1.20 (0.14) 64	7.43 (1.17) 65	83.1 (4.7) 65	32,297 (5,188) 2,834	6.28 (0.65) 64	5,217 (640) 199	32.7 (3.3) 199
3	ESTIMATE (SE) N	10,116 (4,689) 2,836	1.47 (0.45) 15	7.88 (3.18) 16	87.5 (8.5) 16	6,668 (2,225) 2,834	5.53 (1.21) 15	1,284 (320) 199	8.0 (1.9) 199
4	ESTIMATE (SE) N	7,065 (1,959) 2,836	0.86 (0.24) 22	4.00 (0.73) 22	81.8 (8.4) 22	8,195 (2,839) 2,834	4.64 (1.30) 22	1,766 (375) 199	11.1 (2.2) 199
5	ESTIMATE (SE) N	17,100 (5,250) 2,836	1.03 (0.19) 22	9.26 (2.14) 23	87.0 (7.2) 23	16,550 (4,437) 2,834	9.36 (1.58) 22	1,846 (383) 199	11.6 (2.3) 199
STATEWIDE	ESTIMATE (SE) N	160,468 (19,834) 2,842	1.47 (0.12) 454	9.70 (1.02) 204	85.9 (2.4) 205	105,375 (8,848) 2,837	6.60 (0.43) 199	16,418 (1,105) 2,843	7.2 (0.5) 2,843

TABLE 10. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF MALLARD, WOOD DUCK, AND OTHER DUCK HUNTING IN MISSISSIPPI DURING THE 1981-82 HUNTING SEASON.

REGION(1)	STATISTIC	MALLARDS				WOOD DUCKS				OTHER DUCKS			
		TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS
1	ESTIMATE (SE) N	17,511 (2,780) 2,837	(0.18) (0.13)	8.11 (1.13)	73.9 (7.3)	3,488 (2,488)	(0.32) (0.22)	2.33 (0.72)	58.8 (5.73)	18,812 (2,837)	(0.45) (0.13)	3.18 (0.77)	48.8 (5.73)
2	ESTIMATE (SE) N	3,483 (2,837)	(0.41) (0.84)	2.54 (0.48)	58.8 (6.6)	3,082 (2,837)	(0.60) (0.41)	3.88 (0.63)	93.1 (6.9)	8,200 (2,837)	(0.18) (0.84)	1.20 (0.34)	28.3 (6.3)
3	ESTIMATE (SE) N	3,773 (2,837)	(0.57) (0.18)	3.34 (1.18)	59.0 (12.8)	4,978 (2,837)	(0.70) (0.18)	3.88 (1.18)	81.3 (10.1)	1,384 (2,837)	(0.30) (0.15)	1.08 (0.16)	27.5 (12.5)
4	ESTIMATE (SE) N	3,211 (2,837)	(0.04) (0.22)	0.18 (0.22)	18.4 (2.2)	8,583 (2,837)	(0.60) (0.22)	3.73 (0.72)	91.8 (6.2)	181 (2,837)	(0.02) (0.22)	0.08 (0.22)	4.5 (4.2)
5	ESTIMATE (SE) N	1,885 (2,837)	(0.10) (0.22)	0.81 (0.22)	78.1 (10.43)	8,073 (2,837)	(0.55) (0.12)	1.91 (1.73)	78.3 (8.2)	8,340 (2,837)	(0.38) (0.22)	3.43 (1.43)	38.1 (10.43)
STATEWIDE	ESTIMATE (SE) N	89,274 (2,843)	(0.85) (0.485)	4.20 (0.205)	77.1 (3.08)	95,118 (2,842)	(0.51) (0.09)	3.28 (0.37)	95.8 (3.3)	78,759 (2,843)	(0.31) (0.485)	2.18 (0.205)	73.2 (3.08)

TABLE 11. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF GOOSE HUNTING IN MISSISSIPPI DURING THE 1991-92 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	1,843 (1,141) 2,842	2.88 (0.77) 5	4.60 (2.20) 5	100.0 (0.0) 5	641 (320) 2,842	1.60 (0.40) 5	401 (179) 16	31.3 (12.0) 16
2	ESTIMATE (SE) N	1,763 (974) 2,842	0.34 (0.21) 9	2.44 (1.14) 9	77.8 (14.7) 9	5,127 (2,455) 2,842	7.11 (2.62) 9	721 (240) 16	56.3 (12.8) 16
3	ESTIMATE (SE) N	0 (0) 2,842	(.) (.) .	(.) (.) .	(.) (.) .	0 (0) 2,842	(.) (.) .	0 (0) 16	0.0 (0.0) 16
4	ESTIMATE (SE) N	320 (253) 2,842	1.00 (0.00) 2	2.00 (1.00) 2	100.0 (0.0) 2	320 (253) 2,842	2.00 (1.00) 2	160 (113) 16	12.5 (8.5) 16
5	ESTIMATE (SE) N	0 (0) 2,842	(.) (.) .	(.) (.) .	(.) (.) .	0 (0) 2,842	(.) (.) .	0 (0) 16	0.0 (0.0) 16
-----									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE) N	4,004 (1,522) 2,843	0.64 (0.30) 272	2.94 (0.89) 17	88.2 (8.1) 17	6,088 (2,498) 2,842	4.75 (1.60) 16	1,361 (328) 2,843	0.6 (0.1) 2,843

TABLE 12. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF RED FOX HUNTING IN MISSISSIPPI DURING THE 1991-92 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	1,121 (679) 2,843	1.20 (0.77) 4	2.60 (1.38) 5	100.0 (0.0) 5	802 (481) 2,839	2.50 (0.98) 4	400 (179) 37	13.5 (5.7) 37
2	ESTIMATE (SE) N	2,403 (792) 2,843	0.38 (0.18) 20	1.38 (0.37) 21	85.7 (7.8) 21	5,855 (2,461) 2,839	3.85 (1.33) 20	1,682 (366) 37	56.8 (8.3) 37
3	ESTIMATE (SE) N	240 (179) 2,843	2.00 (.) 1	1.50 (0.50) 2	100.0 (0.0) 2	80 (80) 2,839	1.00 (.) 1	160 (113) 37	5.4 (3.8) 37
4	ESTIMATE (SE) N	400 (212) 2,843	0.05 (0.04) 6	0.71 (0.29) 7	57.1 (20.2) 7	7,619 (4,627) 2,839	15.83 (7.80) 6	561 (212) 37	18.9 (6.5) 37
5	ESTIMATE (SE) N	80 (80) 2,843	0.50 (0.50) 2	0.50 (0.50) 2	50.0 (50.0) 2	160 (113) 2,839	1.00 (0.00) 2	160 (113) 37	5.4 (3.8) 37
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE) N	4,245 (1,081) 2,843	0.27 (0.11) 289	1.38 (0.29) 37	81.1 (6.5) 37	14,516 (5,261) 2,839	5.48 (1.77) 33	2,963 (484) 2,843	1.3 (0.2) 2,843

TABLE 13. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF GRAY FOX HUNTING IN MISSISSIPPI DURING THE 1991-92 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	1,602 (1,177) 2,843	0.95 (0.97) 3	8.67 (3.71) 3	100.0 (0.0) 3	1,684 (1,250) 2,840	7.00 (4.00) 3	240 (139) 26	11.5 (6.4) 26
2	ESTIMATE (SE) N	2,082 (1,000) 2,843	0.39 (0.25) 10	2.27 (0.94) 11	53.6 (15.2) 11	4,730 (2,351) 2,840	5.90 (2.38) 10	881 (265) 26	42.3 (9.8) 26
3	ESTIMATE (SE) N	160 (113) 2,843	1.00 (.1) 1	1.00 (0.00) 2	100.0 (0.0) 2	80 (80) 2,840	1.00 (.1) 1	160 (113) 26	7.7 (5.3) 26
4	ESTIMATE (SE) N	2,242 (1,359) 2,843	0.18 (0.10) 7	4.00 (2.05) 7	71.4 (18.4) 7	12,266 (5,733) 2,840	21.86 (6.50) 7	561 (212) 26	26.9 (8.8) 26
5	ESTIMATE (SE) N	80 (80) 2,843	0.25 (0.13) 2	0.33 (0.33) 3	33.3 (33.3) 3	321 (253) 2,840	2.00 (1.00) 2	240 (139) 26	11.5 (6.4) 26
STATEWIDE	ESTIMATE (SE) N	6,167 (2,059) 2,843	0.31 (0.11) 279	2.92 (0.82) 26	69.2 (9.2) 26	19,081 (6,322) 2,840	10.35 (2.73) 23	2,082 (407) 2,843	0.9 (0.2) 2,843

TABLE 14. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF BOBCAT HUNTING IN MISSISSIPPI DURING THE 1991-92 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	881 (330) 2,843	1.25 (0.25) 8	1.10 (0.23) 10	90.0 (10.0) 10	643 (227) 2,833	1.00 (0.00) 8	801 (253) 61	15.4 (4.8) 61
2	ESTIMATE (SE) N	2,082 (505) 2,843	0.48 (0.20) 18	1.28 (0.13) 19	100.0 (0.0) 19	3,697 (1,726) 2,833	2.58 (1.06) 18	1,522 (348) 61	31.1 (6.0) 61
3	ESTIMATE (SE) N	1,201 (383) 2,843	0.14 (0.08) 9	1.17 (0.21) 12	91.7 (8.3) 12	5,867 (3,507) 2,833	8.11 (4.27) 9	961 (277) 61	19.7 (5.1) 61
4	ESTIMATE (SE) N	3,043 (1,668) 2,843	0.15 (0.08) 14	2.38 (1.20) 16	81.3 (10.1) 16	19,610 (6,735) 2,833	17.43 (3.91) 14	1,281 (319) 61	26.2 (5.7) 61
5	ESTIMATE (SE) N	400 (240) 2,843	0.15 (0.12) 2	0.75 (0.48) 4	50.0 (28.9) 4	1,045 (758) 2,833	6.50 (1.50) 2	320 (160) 61	6.6 (3.2) 61
-----									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE) N	7,808 (1,828) 2,843	0.21 (0.06) 307	1.48 (0.32) 61	88.5 (4.1) 61	30,862 (7,816) 2,833	7.53 (1.61) 51	4,885 (619) 2,843	2.1 (0.3) 2,843

TABLE 15. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF COYOTE HUNTING IN MISSISSIPPI DURING THE 1991-92 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	9,938 (2,019) 2,841	0.49 (0.12) 42	2.16 (0.35) 50	84.0 (5.2) 50	15,915 (4,469) 2,804	4.67 (1.11) 42	4,007 (562) 222	22.5 (2.8) 222
2	ESTIMATE (SE) N	19,394 (2,815) 2,841	0.19 (0.07) 89	2.17 (0.35) 103	87.4 (3.3) 103	82,418 (32,223) 2,804	11.40 (4.32) 89	8,255 (788) 222	46.4 (3.4) 222
3	ESTIMATE (SE) N	3,206 (1,012) 2,841	0.19 (0.06) 16	1.82 (0.45) 22	81.8 (8.4) 22	11,368 (4,848) 2,804	8.75 (3.13) 16	1,763 (375) 222	9.8 (2.0) 222
4	ESTIMATE (SE) N	4,809 (1,078) 2,841	0.03 (0.01) 30	1.60 (0.27) 35	82.9 (6.5) 35	118,714 (52,011) 2,804	48.73 (19.76) 30	2,805 (471) 222	15.8 (2.5) 222
5	ESTIMATE (SE) N	4,408 (2,021) 2,841	0.21 (0.13) 8	4.58 (1.71) 12	83.3 (11.2) 12	16,484 (9,374) 2,804	25.38 (12.08) 8	962 (277) 222	5.4 (1.5) 222
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE) N	42,045 (4,226) 2,843	0.14 (0.03) 441	2.17 (0.16) 224	85.3 (2.4) 224	244,898 (62,138) 2,804	16.30 (3.98) 185	17,928 (1,161) 2,843	7.9 (0.5) 2,843

TABLE 16. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF ARCHERY DEER HUNTING IN MISSISSIPPI DURING THE 1991-92 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	5,124 (862) 2,713	0.051 (0.007) 111	0.56 (0.08) 113	37.2 (4.6) 113	93,502 (11,506) 2,692	10.60 (0.86) 111	8,907 (820) 669	16.9 (1.4) 669
2	ESTIMATE (SE) N	11,430 (1,413) 2,713	0.050 (0.005) 247	0.55 (0.06) 258	32.6 (2.9) 258	200,272 (16,947) 2,692	10.21 (0.60) 247	20,337 (1,205) 669	38.6 (1.9) 669
3	ESTIMATE (SE) N	6,306 (1,179) 2,713	0.071 (0.010) 88	0.89 (0.14) 90	44.4 (5.3) 90	83,731 (10,580) 2,692	11.88 (0.85) 88	7,084 (735) 669	13.5 (1.3) 669
4	ESTIMATE (SE) N	8,356 (1,256) 2,713	0.055 (0.007) 150	0.69 (0.08) 154	39.0 (3.9) 154	146,808 (15,767) 2,692	12.32 (0.88) 150	12,139 (950) 669	23.0 (1.8) 669
5	ESTIMATE (SE) N	1,971 (503) 2,713	0.047 (0.010) 52	0.47 (0.10) 53	34.0 (6.6) 53	42,342 (7,438) 2,692	10.25 (1.13) 52	4,178 (568) 669	7.9 (1.0) 669
									PERCENT OF TOTAL LICENSEES (A)
STATEWIDE	ESTIMATE (SE) N	33,940 (2,403) 2,722	0.054 (0.003) 882	0.63 (0.04) 678	36.7 (1.9) 678	571,260 (27,365) 2,698	11.02 (0.37) 654	53,298 (1,773) 2,722	24.9 (0.8) 2,722

(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 1981-92 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	2,444 (477) 2,713	0.024 (0.004) 111	0.27 (0.05) 113	23.9 (4.0) 113	2,680 (555) 2,713	0.027 (0.005) 111	0.29 (0.06) 113	23.0 (4.0) 113
2	ESTIMATE (SE) N	5,754 (853) 2,713	0.024 (0.003) 247	0.28 (0.04) 258	20.9 (2.5) 258	5,676 (781) 2,713	0.026 (0.003) 247	0.28 (0.03) 258	22.5 (2.6) 258
3	ESTIMATE (SE) N	2,885 (703) 2,713	0.034 (0.007) 88	0.42 (0.09) 90	26.7 (4.7) 90	3,311 (637) 2,713	0.037 (0.006) 88	0.47 (0.08) 90	34.4 (5.0) 90
4	ESTIMATE (SE) N	4,178 (722) 2,713	0.028 (0.004) 150	0.34 (0.05) 154	26.6 (3.6) 154	4,178 (705) 2,713	0.027 (0.004) 150	0.34 (0.05) 154	26.0 (3.5) 154
5	ESTIMATE (SE) N	946 (315) 2,713	0.023 (0.007) 52	0.23 (0.07) 53	18.8 (5.4) 53	1,025 (324) 2,713	0.024 (0.007) 52	0.25 (0.07) 53	20.8 (5.6) 53
STATEWIDE	ESTIMATE (SE) N	18,656 (1,428) 2,722	0.026 (0.002) 882	0.31 (0.02) 678	23.5 (1.6) 678	17,383 (1,385) 2,722	0.028 (0.002) 882	0.32 (0.02) 678	25.1 (1.7) 678

TABLE 18. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF PRIMITIVE WEAPON DEER HUNTING IN MISSISSIPPI DURING THE 1991-92 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	5,045 (750) 2,713	0.095 (0.012) 115	0.53 (0.06) 121	42.6 (4.5) 122	50,506 (5,679) 2,693	5.48 (0.38) 116	9,810 (850) 746	16.4 (1.4) 746
2	ESTIMATE (SE) N	8,871 (1,068) 2,713	0.074 (0.008) 260	0.41 (0.04) 266	31.5 (2.8) 267	104,347 (7,531) 2,693	5.03 (0.21) 261	21,031 (1,222) 746	35.8 (1.8) 746
3	ESTIMATE (SE) N	8,592 (1,442) 2,713	0.165 (0.023) 113	0.93 (0.13) 117	53.0 (4.8) 117	50,506 (5,421) 2,693	5.63 (0.31) 113	9,216 (534) 746	15.7 (1.3) 746
4	ESTIMATE (SE) N	8,817 (1,181) 2,713	0.107 (0.013) 184	0.65 (0.07) 189	42.3 (3.6) 189	83,541 (8,586) 2,693	5.72 (0.42) 184	14,887 (1,045) 746	25.3 (1.6) 746
5	ESTIMATE (SE) N	2,365 (712) 2,713	0.094 (0.023) 50	0.59 (0.16) 51	35.3 (6.8) 51	25,253 (4,458) 2,693	6.36 (0.68) 50	4,017 (557) 746	6.8 (0.8) 746
-----									PERCENT OF TOTAL LICENSEES (A)
STATEWIDE	ESTIMATE (SE) N	34,909 (2,324) 2,720	0.103 (0.006) 955	0.59 (0.03) 751	40.0 (1.8) 753	318,288 (13,660) 2,698	5.47 (0.16) 729	59,180 (1,834) 2,722	27.7 (0.8) 2,722

(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 1981-92 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	2 286 (451) 2,713	0.042 (0.008) 115	0.24 (0.04) 121	23.0 (3.8) 122	2 757 (489) 2,715	0.052 (0.008) 116	0.29 (0.04) 122	27.0 (4.0) 122
2	ESTIMATE (SE) N	4 020 (723) 2,713	0.032 (0.005) 260	0.18 (0.03) 266	18.1 (2.3) 267	4 647 (667) 2,715	0.042 (0.006) 261	0.22 (0.03) 267	19.5 (2.4) 267
3	ESTIMATE (SE) N	4 089 (823) 2,713	0.079 (0.014) 113	0.44 (0.08) 117	32.5 (4.3) 117	4 480 (763) 2,715	0.086 (0.012) 113	0.49 (0.07) 117	38.8 (4.5) 117
4	ESTIMATE (SE) N	3 390 (581) 2,713	0.038 (0.007) 184	0.23 (0.04) 189	19.6 (2.8) 189	6 223 (836) 2,715	0.089 (0.009) 184	0.42 (0.05) 189	32.8 (3.4) 189
5	ESTIMATE (SE) N	948 (316) 2,713	0.038 (0.011) 50	0.24 (0.07) 51	19.6 (5.8) 51	1 418 (472) 2,715	0.057 (0.016) 50	0.35 (0.11) 51	23.5 (6.0) 51
STATEWIDE	ESTIMATE (SE) N	15 253 (1,349) 2,720	0.044 (0.004) 955	0.25 (0.02) 751	21.4 (1.5) 753	19 641 (1,443) 2,722	0.059 (0.004) 957	0.33 (0.02) 753	27.1 (1.6) 753

TABLE 20. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF REGULAR GUN DEER HUNTING IN MISSISSIPPI DURING THE 1991-92 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	30,929 (2,692) 2,669	0.084 (0.006) 303	1.22 (0.09) 315	55.4 (2.8) 316	353,320 (24,678) 2,593	14.09 (0.63) 304	25,263 (1,335) 2,130	14.8 (0.8) 2,130
2	ESTIMATE (SE) N	87,738 (5,187) 2,669	0.086 (0.004) 848	1.24 (0.07) 881	52.7 (1.7) 886	942,588 (35,523) 2,593	13.41 (0.34) 852	70,832 (1,946) 2,130	41.6 (1.1) 2,130
3	ESTIMATE (SE) N	31,650 (3,486) 2,669	0.084 (0.008) 270	1.42 (0.13) 278	61.2 (2.9) 278	328,808 (22,638) 2,593	14.77 (0.56) 270	22,225 (1,262) 2,130	13.1 (0.7) 2,130
4	ESTIMATE (SE) N	47,515 (3,253) 2,669	0.081 (0.004) 477	1.19 (0.07) 497	57.1 (2.2) 497	571,465 (31,406) 2,593	14.53 (0.53) 477	39,733 (1,609) 2,130	23.3 (0.9) 2,130
5	ESTIMATE (SE) N	8,894 (1,370) 2,669	0.053 (0.007) 145	0.73 (0.10) 153	38.6 (3.9) 153	165,196 (16,933) 2,593	13.81 (0.88) 145	12,232 (960) 2,130	7.2 (0.6) 2,130
-----									PERCENT OF TOTAL LICENSEES (A)
STATEWIDE	ESTIMATE (SE) N	208,266 (8,865) 2,716	0.084 (0.002) 2,309	1.21 (0.04) 2,171	54.1 (1.1) 2,177	2,352,310 (45,089) 2,631	13.88 (0.23) 2,086	171,038 (1,641) 2,722	80.0 (0.8) 2,722

(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 1981-92 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	24,038 (2,227) 2,669	0.065 (0.005) 303	0.94 (0.07) 315	48.1 (2.8) 316	6,878 (895) 2,674	0.019 (0.002) 304	0.27 (0.03) 316	22.2 (2.3) 316
2	ESTIMATE (SE) N	67,145 (3,608) 2,669	0.069 (0.003) 848	0.94 (0.04) 881	48.1 (1.7) 886	20,554 (3,019) 2,674	0.017 (0.002) 851	0.29 (0.04) 885	17.4 (1.3) 886
3	ESTIMATE (SE) N	25,320 (2,664) 2,669	0.074 (0.006) 270	1.14 (0.10) 278	55.0 (3.0) 278	6,318 (1,116) 2,674	0.019 (0.003) 270	0.28 (0.05) 278	20.5 (2.4) 278
4	ESTIMATE (SE) N	40,383 (2,825) 2,669	0.070 (0.004) 477	1.01 (0.06) 497	52.3 (2.2) 497	7,118 (1,300) 2,674	0.011 (0.002) 477	0.18 (0.03) 497	12.9 (1.5) 497
5	ESTIMATE (SE) N	8,013 (1,298) 2,669	0.048 (0.007) 145	0.85 (0.08) 153	35.9 (3.9) 153	880 (288) 2,674	0.005 (0.002) 145	0.07 (0.02) 153	8.5 (2.0) 153
STATEWIDE	ESTIMATE (SE) N	164,408 (5,168) 2,716	0.068 (0.002) 2,309	0.96 (0.03) 2,171	48.8 (1.1) 2,177	43,858 (3,865) 2,721	0.018 (0.001) 2,313	0.28 (0.02) 2,176	18.8 (0.8) 2,177

TABLE 22. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF SPRING TURKEY HUNTING IN MISSISSIPPI DURING THE 1991-92 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	4,869 (915) 2,517	0.086 (0.012) 74	0.75 (0.11) 75	46.7 (5.8) 75	53,681 (8,187) 2,507	8.31 (0.84) 74	6,518 (741) 469	18.0 (1.7) 469
2	ESTIMATE (SE) N	10,433 (1,862) 2,517	0.098 (0.013) 127	0.84 (0.12) 129	48.2 (4.4) 130	92,436 (10,728) 2,507	8.27 (0.65) 128	11,298 (965) 469	27.7 (2.1) 469
3	ESTIMATE (SE) N	7,825 (1,201) 2,517	0.098 (0.010) 91	0.97 (0.11) 83	54.8 (5.2) 93	76,201 (10,508) 2,507	9.59 (0.89) 91	8,082 (823) 469	19.8 (1.8) 469
4	ESTIMATE (SE) N	13,650 (1,871) 2,517	0.115 (0.010) 134	1.12 (0.10) 138	59.4 (4.2) 138	112,861 (12,319) 2,507	9.65 (0.67) 134	11,993 (983) 469	29.4 (2.1) 469
5	ESTIMATE (SE) N	2,000 (632) 2,517	0.081 (0.021) 31	0.70 (0.19) 33	39.4 (8.6) 33	21,472 (4,845) 2,507	7.94 (1.17) 31	2,868 (496) 469	7.0 (1.2) 469
									PERCENT OF TOTAL LICENSEES (A)
STATEWIDE	ESTIMATE (SE) N	39,535 (2,830) 2,524	0.101 (0.005) 635	0.83 (0.03) 475	51.7 (2.3) 478	359,975 (20,818) 2,510	8.96 (0.36) 461	41,252 (1,704) 2,525	18.9 (0.8) 2,525

(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 1991 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	559 (239) 2,677	0.098 (0.040) 15	0.44 (0.16) 16	37.5 (12.5) 16	4,077 (1,181) 2,675	3.40 (0.47) 15	1,278 (319) 28	57.1 (9.5) 28
3	ESTIMATE (SE) N	798 (374) 2,677	0.159 (0.054) 11	0.83 (0.32) 12	41.7 (14.9) 12	3,518 (1,242) 2,675	4.00 (0.77) 11	958 (276) 28	42.9 (9.5) 28
STATEWIDE	ESTIMATE (SE) N	2,632 (1,036) 2,681	0.147 (0.048) 258	1.03 (0.37) 32	43.8 (8.9) 32	8,708 (1,965) 2,677	3.89 (0.48) 28	2,553 (449) 2,681	1.2 (0.2) 2,681

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 1981-92 HUNTING SEASON AND ALL TURKEY HUNTING (COMBINING SPRING AND FALL DATA) DURING THE 1981 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	277,714 (8,877) 2,716	0.080 (0.002) 2,383	1.56 (0.05) 2,251	56.3 (1.0) 2,257	3,248,982 (68,393) 2,625	18.46 (0.35) 2,160	177,323 (1,543) 2,722	82.9 (0.7) 2,722
BUCK	ESTIMATE (SE) N	197,006 (6,261) 2,716	0.058 (0.002) 2,383	1.11 (0.03) 2,251	49.8 (1.1) 2,257				
DOE	ESTIMATE (SE) N	80,874 (4,420) 2,721	0.022 (0.001) 2,387	0.46 (0.02) 2,256	28.8 (0.9) 2,257				
TURKEY	ESTIMATE (SE) N	42,167 (3,108) 2,721	0.045 (0.014) 721	0.98 (0.06) 503	51.2 (2.2) 504	368,682 (20,910) 2,721	21.39 (7.03) 480	43,805 (1,762) 2,757	18.3 (0.7) 2,757

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

B.

1. Do you think it is ethical to hunt deer over food plots (grasses, clovers, etc)?
68.4% Yes
24.5% No
6.0% Don't know
2. Do you think it is ethical to hunt deer over corn, commercial deer ration, etc. (not food plots)?
26.6% Yes
64.9% No
7.5% Don't know
3. What do you think about use of corn, deer ration, etc., for deer hunting on private land in Mississippi?
48.1% It should be allowed if these foods had to be available year round in a manner approved by MDWFP
9.4% It should be allowed if these foods were available just during deer season
32.5% It should not be allowed
8.9% Don't know
4. Do you believe wildlife violators receive penalties that are
8.1% Too severe most of the time
40.0% Just right most of the time
38.9% Too lax most of the time
12.2% Don't know
5. If you own or lease at least 50 acres, would you purchase a \$10 doe permit if available in your county?
43.2% Yes
22.4% No
29.7% Don't own or lease 50 acres
3.4% Don't know
6. Did you have access to antlerless deer permits this year?
24.1% Yes
65.2% No
9.8% Don't know

Table 25. Summary of opinion question responses

1991-92

7. Within the next ten years do you think the following will have a negative affect on hunters in Mississippi?

Loss of habitat	Anti-hunting groups
50.8% Very likely	32.5% Very likely
24.8% Moderately likely	26.8% Moderately likely
4.2% Won't affect hunters	12.3% Won't affect
5.9% Moderately unlikely	7.2% Moderately unlikely
7.5% Very unlikely	10.1% Very unlikely
5.7% Don't know	9.1% Don't know
Not enough game	Not enough time to hunt
30.9% Very likely	25.0% Very likely
28.9% Moderately likely	27.8% Moderately likely
7.6% Won't affect hunters	18.8% Won't affect
14.3% Moderately unlikely	8.4% Moderately unlikely
11.8% Very unlikely	12.6% Very unlikely
5.3% Don't know	5.3% Don't know
Too expensive to hunt	Not enough public areas
29.1% Very likely	52.2% Very likely
25.2% Moderately likely	22.9% Moderately likely
21.6% Won't affect hunters	6.3% Won't affect
7.9% Moderately unlikely	6.0% Moderately unlikely
11.1% Very unlikely	5.5% Very unlikely
3.7% Don't know	5.3% Don't know

8. Do you believe hunting is a privilege or a right?

55.6% Privilege
37.7% Right
5.2% Don't know

9. The 1991-92 hunting seasons have ended. Did you buy a license to hunt deer or turkey in the 1990-91 (last year) hunting seasons?

89.0% Yes
10.1% No



1991-92 MISSISSIPPI HUNTER QUESTIONNAIRE

105792

A. Please fill in the blocks below for each game species you hunted during the 1991-92 hunting season (even if you were unsuccessful). If you hunted more than one kind of game on a particular day, count a day for each type of game you hunted. Report only game taken by you. Your answers will be kept confidential. Please answer the questions in part B., whether you hunted or not.

SPECIES	TOTAL KILL	TOTAL DAYS HUNTED	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 '91)			
11 Turkey (Fall '91)			
	Mallard Wood Other		
12 Ducks			
13 Geese			
14 Red Fox			
15 Gray Fox			
16 Bobcat			
17 Coyote			

Determine REGION HUNTED MOST from map.

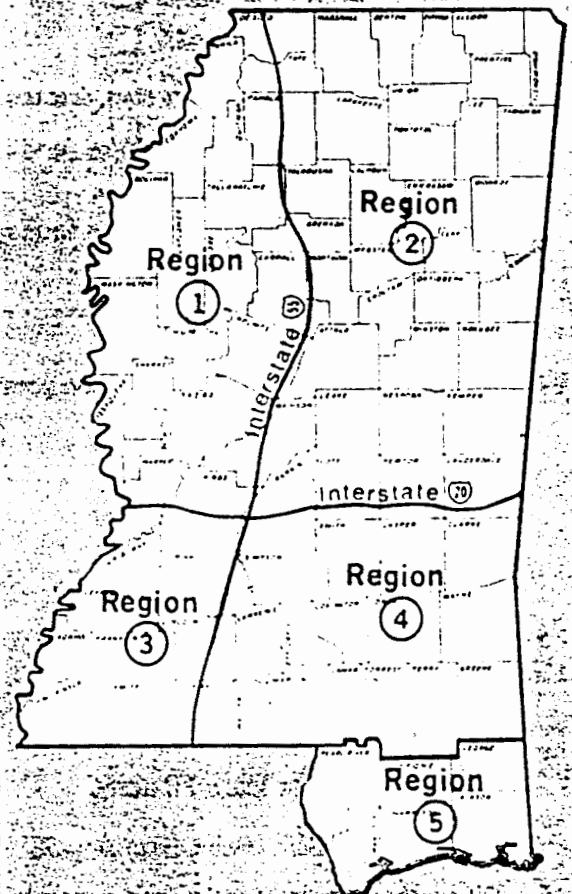


Fig. 1 Questionnaire used for the 1991-92 mail survey of game harvest and hunter effort in Mississippi.

B. Please answer the following questions:

1. Do you think it is ethical to hunt deer over food plots (grasses, clovers, etc)?
☐ Yes
☐ No
☐ Don't know
2. Do you think it is ethical to hunt deer over corn, commercial deer ration, etc. (not food plots)?
☐ Yes
☐ No
☐ Don't know
3. What do you think about use of corn, deer ration, etc., for deer hunting on private land in Mississippi?
☐ It should be allowed if these foods had to be available year round in a manner approved by MDWFP.
☐ It should be allowed if these foods were available just during deer season.
☐ It should not be allowed
☐ Don't know
4. Do you believe wildlife violators receive penalties that are
☐ Too severe most of the time
☐ Just right most of the time
☐ Too lax most of the time
☐ Don't know
5. If you own or lease at least 50 acres, would you purchase a \$10 doe permit if available in your county?
☐ Yes
☐ No
☐ Don't own or lease 50 acres
☐ Don't know
6. Did you have access to antlerless deer permits this year?
☐ Yes
☐ No
☐ Don't know

7. Within the next ten years do you think the following will have a negative affect on hunters in Mississippi?

Loss of habitat

- ☐ Very likely
☐ Moderately likely
☐ Won't affect hunters
☐ Moderately unlikely
☐ Very unlikely
☐ Don't know

Anti-hunting groups

- ☐ Very likely
☐ Moderately likely
☐ Won't affect hunters
☐ Moderately unlikely
☐ Very unlikely
☐ Don't know

Not enough game

- ☐ Very likely
☐ Moderately likely
☐ Won't affect hunters
☐ Moderately unlikely
☐ Very unlikely
☐ Don't know

Not enough time to hunt

- ☐ Very likely
☐ Moderately likely
☐ Won't affect hunters
☐ Moderately unlikely
☐ Very unlikely
☐ Don't know

Too expensive to hunt

- ☐ Very likely
☐ Moderately likely
☐ Won't affect hunters
☐ Moderately unlikely
☐ Very unlikely
☐ Don't know

Not enough public hunting areas

- ☐ Very likely
☐ Moderately likely
☐ Won't affect hunters
☐ Moderately unlikely
☐ Very unlikely
☐ Don't know

8. Do you believe hunting is a privilege or a right?

- ☐ Privilege
☐ Right
☐ Don't know

9. The 1991-92 hunting seasons have ended. Did you buy a license to hunt deer or turkey in the 1990-91 (last year) hunting seasons?

- ☐ Yes
☐ No

10. Your age: _____ years



Mississippi Department of Wildlife, Fisheries and Parks
Jack Herring, Executive Director

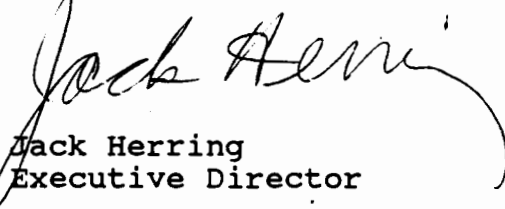
Dear Sportsman:

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

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

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

Yours for better conservation,

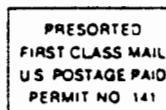

Jack Herring
Executive Director

JH:ccs •

Enclosure

Fig. 2 Cover letter mailed with the initial mailing of the 1991-92 survey of game harvest and hunter effort in Mississippi.

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



Dear Sportsman:

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

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

Sincerely,

Jack Herring
Jack Herring
Acting Executive Director

Fig. 3 Post card used as the first reminder mailing to nonrespondents during the 1991-92 survey of game harvest and hunter effort in Mississippi.



Mississippi Department of Wildlife, Fisheries and Parks
Jack Herring, Executive Director

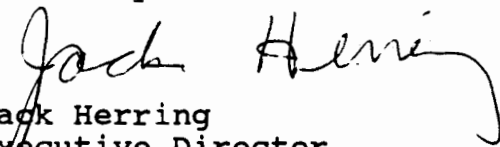
Dear Sportsman:

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

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

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

Sincerely for better conservation,


Jack Herring
Executive Director

JH:ccs

Enclosure

Fig. 4 Cover letter mailed with the second (and final) reminder mailing to non respondents during the 1991-92 survey of game harvest and hunter effort in Mississippi.

P. O. Box 451, Jackson, MS 39205-0451 (601) 362-9212
Watch **MISSISSIPPI OUTDOORS** on the Mississippi Educational Television Network

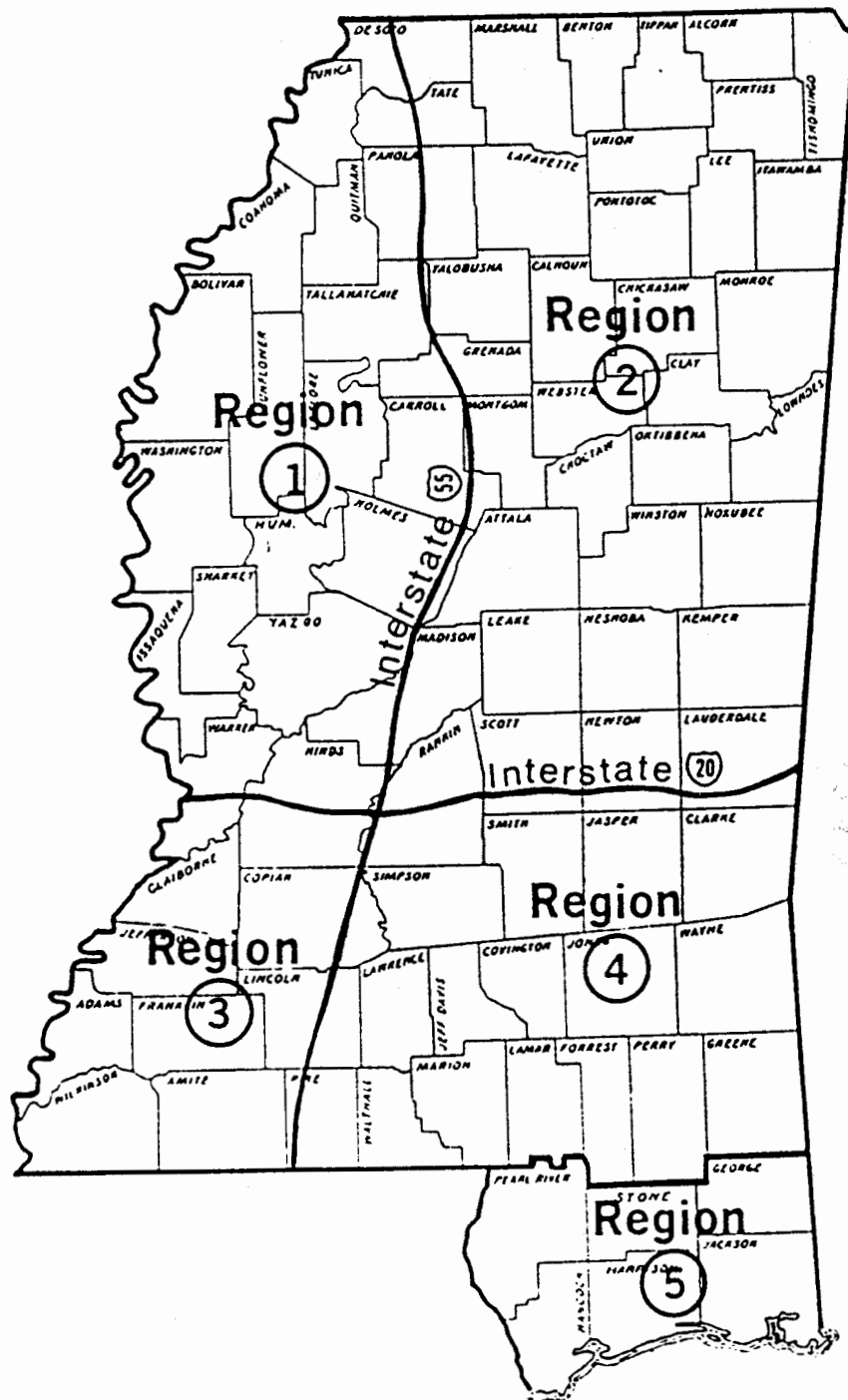


Fig. 5 Regional partitions for region hunted most