

**MISSISSIPPI MAIL SURVEY OF GAME  
HARVEST AND HUNTER EFFORT FOR 1992-93**

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 1992-93 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 licenses purchased during the 1992-93 license year.

A 2.5 percent sample of these hunting license buyers was selected from the 170,873 licenses processed from July 1, 1992 - January 31, 1993. 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 4,293 of Type 01, 02, and 05 license holders was selected. Since approximately 0.7% percent of the selected license stubs lacked complete names and/or addresses, the 2.5 percent sample of stubs resulted in a 2.3 percent sample or 3,978 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 12 years (80/81 - 91/92) 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 12 years 90.46 percent of the predicted sales had been accounted for by the end of January of each year. Therefore the 2.3 percent sample of license holders in January would be about a 2.1 percent ( $0.9046 \times 0.023 \times 100$ ) sample of total expected through June 1993.

Because of the computerized and renewable aspects of Sportsman's licenses (Type 00), virtually all 92-93 Sportsman's license holders are accounted for by the end of January. Sales were 37,413 by February 1993. To achieve a sample of Sportsman license holders comparable to Types 01, 02, and 05 a computer generated random sample of 947 hunters. 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 16, 1993 to the 4,925 sampled hunters. Three weeks after the initial mailing reminder post cards (Figure 3) were mailed to 3,286 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 2,783 nonrespondents. First mailing questionnaires were given identification numbers from 100,001 to 104,925 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 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 1992-93 survey obtained information about two different or license years. Turkey harvest indices were partially calculated from hunters who hunted during the spring 1992 turkey season which was the 91/92 license year. Indices for other species were determined for the 1992-93 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 1992 turkey indices were calculated based on the respondents who also purchased a big game license during the previous July 1, 1991 - June 30, 1992 fiscal year (Questionnaire, bottom of page 1).

Estimates and standard errors of total turkey and man-days of effort were calculated as a linear combination of the spring 1992 estimates plus the fall 1992 estimates. The computer programs were altered to reflect these changes. All other calculations follow Steffen (1981).

## RESULTS

Based on all three mailings, 572 (11.6 %) of the 4,925 questionnaires were returned as non-deliverable by the post office. Therefore 4,353 individuals were assumed to have been contacted to participate in the survey. Of these 2,627 (60.3%) returned their questionnaires for possible analysis and 1,726 (39.7%) were nonresponses. Based on those returned questionnaires, 2,607 were answered and usable to some extent, 20 were returned after the acceptance deadline (5 weeks after the final mailing).

Statewide expansions were calculated based on the 230,570 total hunting licenses sold and accounted for by the end of June 1993. There existed 230,570 individuals licensed to hunt small game and 217,231 (Types 00 +01) of these license holders also were eligible to pursue big game (deer and turkey) during the 1992-93 hunting seasons. The spring, 1992 turkey hunting estimates were based on the 218,925 big game license holders accounted for in the 1991-92 license sales totals.

Based on the 2,607 usable responses,  $90.9 \pm 0.6$  (SE) percent of all resident license holders actually participated in a hunting activity during the 1992-93 hunting season. Therefore an estimated  $209,588 \pm 1,383$  (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, the annual survey should be continued with a sample of

3,000-5,000 sportsmen. Periodically (e.g., every 5 years) a survey of 11,000 - 12,000 hunters should be conducted to provide more precise estimates on a 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.

## ACKNOWLEDGEMENTS

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TABLE 1. EXPANDED STATEWIDE SUMMARY OF THE 1992-93 MISSISSIPPI MAIL SURVEY OF GAME HARVEST BASED ON 230,570 SMALL GAME LICENSE HOLDERS AND 217,231 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	2,167,677	6.07	22.75	92.1	348,121	3.72	94,103	40.8
QUAIL	215,093	2.04	10.95	80.2	104,297	5.42	19,634	8.5
WOODCOCK	7,863	0.97	3.75	58.3	8,148	4.60	2,123	0.9
RABBIT	551,263	1.42	8.70	85.9	369,609	5.99	63,325	27.5
SQUIRREL	1,347,410	2.33	12.67	90.6	560,660	5.35	106,397	46.1
RACCOON	134,079	0.67	7.62	91.5	181,702	10.94	17,600	7.6
ALL DUCKS	242,421	1.58	12.01	87.7	137,170	7.09	20,165	8.7
MALLARD	122,139	0.82	6.06	65.8				
WOOD DUCK	63,502	0.40	3.15	61.8				
OTHER DUCKS	56,780	0.36	2.81	41.7				
GEESE	2,653	0.68	1.88	62.5	3,893	2.93	1,415	0.6
RED FOX	2,300	0.08	0.79	60.6	27,615	10.06	2,919	1.3
GRAY FOX	2,123	0.07	0.80	50.0	25,678	10.74	2,653	1.2
BOBCAT	6,279	0.30	1.05	85.2	17,293	3.61	5,395	2.3
COYOTE	38,649	0.12	2.18	87.5	238,360	16.64	16,981	7.4
TOTAL DEER	300,980	0.086	1.71	61.1	3,350,077	19.26	175,829	80.9
BUCK	211,820	0.060	1.20	54.0				
DOE	90,191	0.026	0.51	30.9				
ARCHERY DEER	40,886	0.059	0.69	40.9	643,618	11.37	58,323	26.8
BUCK	18,725	0.027	0.32	23.7				
DOE	22,075	0.032	0.37	27.7				
PRIMITIVE DEER	39,254	0.113	0.61	42.4	337,780	5.41	63,993	29.5
BUCK	17,523	0.050	0.27	22.6				
DOE	21,732	0.062	0.34	27.1				
GUN DEER	220,839	0.088	1.31	57.9	2,387,132	14.32	168,614	77.6
BUCK	175,571	0.070	1.04	53.0				
DOE	45,267	0.018	0.27	18.8				
TOTAL TURKEY	37,385	0.066	0.84	50.1	353,141	12.81	44,538	17.2
SPRING 1992	35,548	0.100	0.82	50.0	346,232	8.24	42,701	19.5
FALL 1992	1,836	0.253	0.85	52.4	6,909	3.76	1,836	0.8

(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 1992-93 HUNTING SEASON.

SPECIES	TOTAL HARVEST	SE	STANDARD ERROR AS % OF TOTAL (A)	95% CONFIDENCE INTERVAL	
				LOWER LIMIT	UPPER LIMIT
DOVE	2,167,677	101,803	4.7	1,964,071	2,371,283
QUAIL	215,093	29,214	13.6	156,665	273,521
WOODCOCK	7,963	4,008	50.3	-53	15,979
RABBIT	551,263	35,605	6.5	480,053	622,473
SQUIRREL	1,347,410	57,852	4.3	1,231,706	1,463,114
RACCOON	134,078	16,708	12.5	100,663	167,495
ALL DUCKS	242,421	26,128	10.8	190,165	294,677
MALLARD	122,139	15,182	12.4	91,775	152,503
WOOD DUCK	63,502	7,543	11.9	48,416	78,588
OTHER DUCKS	56,780	8,584	15.1	39,612	73,948
GEESE	2,653	1,442	54.4	-231	5,537
RED FOX	2,300	572	24.9	1,156	3,444
GRAY FOX	2,123	611	28.8	901	3,345
BOBCAT	6,279	907	14.4	4,465	8,093
COYOTE	38,648	4,389	11.4	29,871	47,427
TOTAL DEER	300,980	8,569	2.8	283,842	318,118
BUCK	211,820	6,376	3.0	199,068	224,572
DOE	90,191	3,982	4.4	82,227	98,155
ARCHERY DEER	40,886	2,790	6.8	35,306	46,466
BUCK	18,725	1,633	8.7	15,459	21,991
DOE	22,075	1,690	7.7	18,895	25,455
PRIMITIVE DEER	39,254	2,388	6.1	34,478	44,030
BUCK	17,523	1,426	8.1	14,671	20,375
DOE	21,732	1,652	7.6	18,428	25,036
GUN DEER	220,839	6,465	2.9	207,909	233,769
BUCK	175,571	5,360	3.1	164,851	186,291
DOE	45,267	2,610	5.8	40,047	50,487
TOTAL TURKEY	37,385	2,763	7.4	31,859	42,911
SPRING 1992	35,548	2,692	7.6	30,164	40,932
FALL 1992	1,836	624	34.0	588	3,084

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

TABLE 3. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF DOVE HUNTING IN MISSISSIPPI DURING THE 1992-93 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	530,808 (57,943) 2,578	5.93 (0.43) 248	23.34 (2.15) 250	91.2 (1.8) 250	87,652 (8,440) 2,570	3.94 (0.30) 248	22,351 (1,344) 1,036	24.1 (1.3) 1,036
2	ESTIMATE (SE) N	902,433 (65,938) 2,578	6.09 (0.29) 457	21.87 (1.30) 461	93.5 (1.2) 461	143,815 (9,261) 2,570	3.51 (0.17) 457	41,215 (1,740) 1,036	44.5 (1.5) 1,036
3	ESTIMATE (SE) N	148,051 (31,735) 2,578	6.73 (0.80) 198	25.48 (4.52) 65	93.8 (3.0) 65	22,070 (3,672) 2,570	3.78 (0.43) 65	5,811 (712) 1,036	6.3 (0.8) 1,036
4	ESTIMATE (SE) N	387,919 (41,901) 2,578	5.76 (0.41) 198	20.67 (1.58) 200	88.0 (2.3) 200	64,237 (6,479) 2,570	3.62 (0.27) 198	17,881 (1,215) 1,036	19.3 (1.2) 1,036
5	ESTIMATE (SE) N	162,177 (35,616) 2,578	6.39 (0.99) 60	30.23 (5.45) 60	95.0 (2.8) 60	25,479 (4,720) 2,570	4.81 (0.65) 59	5,364 (685) 1,036	5.8 (0.7) 1,036
STATEWIDE	ESTIMATE (SE) N	2,167,877 (101,803) 2,606	6.07 (0.20) 1,051	22.75 (0.92) 1,063	92.1 (0.8) 1,063	348,121 (14,166) 2,595	3.72 (0.12) 1,052	94,103 (2,220) 2,607	40.8 (1.0) 2,607

TABLE 4. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF QUAIL HUNTING IN MISSISSIPPI DURING THE 1992-93 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	27,502 (15,727) 2,599	3.73 (0.70) 28	11.92 (6.25) 26	80.8 (7.9) 28	7,375 (2,951) 2,595	3.19 (1.14) 26	2,307 (450) 214	12.1 (2.2) 214
2	ESTIMATE (SE) N	122,515 (20,432) 2,598	1.68 (0.18) 122	11.14 (1.58) 124	79.0 (3.7) 124	72,414 (11,523) 2,595	6.68 (0.88) 122	11,001 (964) 214	57.9 (3.4) 214
3	ESTIMATE (SE) N	8,250 (5,054) 2,598	5.47 (1.15) 8	11.63 (6.22) 8	75.0 (16.4) 8	1,510 (779) 2,595	2.13 (0.85) 8	710 (251) 214	3.7 (1.3) 214
4	ESTIMATE (SE) N	25,461 (6,685) 2,599	2.04 (0.30) 38	7.55 (1.58) 38	81.6 (6.4) 38	12,528 (2,559) 2,595	3.71 (0.47) 38	3,371 (543) 214	17.8 (2.6) 214
5	ESTIMATE (SE) N	21,203 (10,970) 2,598	3.58 (0.82) 16	13.28 (6.30) 18	83.3 (9.0) 18	5,775 (2,197) 2,595	4.06 (1.21) 16	1,597 (375) 214	8.4 (1.9) 214
STATEWIDE	ESTIMATE (SE) N	215,093 (29,214) 2,607	2.04 (0.19) 217	10.95 (1.31) 222	80.2 (2.7) 222	104,297 (12,487) 2,602	5.42 (0.55) 217	19,634 (1,261) 2,607	8.5 (0.5) 2,607

PERCENT OF TOTAL LICENSEES

TABLE 5. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF WOODCOCK HUNTING IN MISSISSIPPI DURING THE 1992-93 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	4,071 (3,569) 2,605	1.84 (0.24) 4	11.50 (8.56) 4	75.0 (25.0) 4	2,214 (1,791) 2,603	6.25 (4.59) 4	354 (177) 23	17.4 (8.1) 23
2	ESTIMATE (SE) N	974 (668) 2,605	0.73 (0.18) 3	3.67 (1.67) 3	100.0 (0.0) 3	1,329 (1,081) 2,603	5.00 (3.51) 3	265 (153) 23	13.0 (7.2) 23
3	ESTIMATE (SE) N	89 (89) 2,605	1.00 (. ) 1	0.50 (0.50) 2	50.0 (50.0) 2	89 (89) 2,603	1.00 (. ) 1	177 (125) 23	8.7 (6.0) 23
4	ESTIMATE (SE) N	885 (531) 2,605	0.34 (0.21) 7	1.25 (0.65) 8	50.0 (18.8) 8	2,569 (1,130) 2,603	4.14 (1.01) 7	708 (250) 23	34.8 (10.2) 23
5	ESTIMATE (SE) N	1,859 (1,615) 2,605	0.95 (0.53) 5	3.50 (2.94) 8	33.3 (21.1) 8	1,949 (1,089) 2,603	4.40 (1.69) 5	531 (217) 23	26.1 (9.4) 23
STATEWIDE	ESTIMATE (SE) N	7,963 (4,008) 2,605	0.97 (0.28) 20	3.75 (1.76) 24	58.3 (10.3) 24	8,148 (2,617) 2,603	4.60 (1.08) 20	2,123 (431) 2,607	0.9 (0.2) 2,607

TABLE 6. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF RABBIT HUNTING IN MISSISSIPPI DURING THE 1992-93 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	111,502 (16,255) 2,560	1.69 (0.14) 135	8.87 (1.08) 138	84.1 (3.1) 138	64,531 (9,907) 2,544	5.27 (0.68) 135	12,429 (1,669) 669	20.6 (1.6) 669
2	ESTIMATE (SE) N	195,264 (25,577) 2,560	1.47 (0.14) 219	9.59 (1.12) 226	83.2 (2.5) 226	123,533 (13,287) 2,544	6.22 (0.54) 219	20,355 (1,283) 669	33.8 (1.8) 669
3	ESTIMATE (SE) N	68,180 (13,269) 2,560	1.62 (0.16) 164	9.83 (1.57) 169	89.9 (3.3) 169	42,416 (7,633) 2,544	6.08 (0.86) 164	6,935 (779) 669	11.5 (1.2) 669
4	ESTIMATE (SE) N	116,276 (13,817) 2,560	1.41 (0.11) 164	7.64 (0.71) 169	89.9 (2.3) 169	80,663 (9,019) 2,544	5.43 (0.45) 164	15,221 (1,132) 669	25.3 (1.7) 669
5	ESTIMATE (SE) N	34,585 (6,884) 2,560	0.86 (0.25) 58	6.51 (1.00) 59	81.4 (5.1) 59	40,332 (12,358) 2,544	7.67 (2.15) 58	5,314 (684) 669	8.8 (1.1) 669
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STATEWIDE	ESTIMATE (SE) N	551,263 (35,605) 2,607	1.42 (0.08) 691	8.70 (0.49) 716	85.9 (1.3) 716	369,608 (23,258) 2,582	5.99 (0.32) 691	63,325 (2,016) 2,607	27.5 (0.9) 2,607
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									PERCENT OF TOTAL LICENSEES

TABLE 7. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF SQUIRREL HUNTING IN MISSISSIPPI DURING THE 1992-93 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	238,361 (23,679) 2,545	2.31 (0.25) 222	11.75 (0.90) 224	92.4 (1.8) 224	103,693 (12,578) 2,526	5.12 (0.53) 222	20,294 (1,738) 1,141	19.6 (1.2) 1,141
2	ESTIMATE (SE) N	449,272 (35,312) 2,545	2.17 (0.11) 438	11.12 (0.73) 446	88.6 (1.5) 446	198,349 (13,327) 2,526	4.98 (0.25) 438	40,406 (1,738) 1,141	39.1 (1.4) 1,141
3	ESTIMATE (SE) N	158,545 (22,658) 2,545	2.78 (0.25) 118	14.58 (1.84) 120	95.0 (2.0) 120	57,048 (7,716) 2,526	5.30 (0.54) 118	10,872 (868) 1,141	10.5 (0.9) 1,141
4	ESTIMATE (SE) N	343,182 (36,042) 2,545	2.48 (0.17) 243	15.27 (1.32) 248	92.3 (1.7) 248	138,287 (12,884) 2,526	6.23 (0.44) 243	22,468 (1,356) 1,141	21.7 (1.2) 1,141
5	ESTIMATE (SE) N	120,585 (17,097) 2,545	2.50 (0.27) 101	12.92 (1.35) 103	88.3 (3.2) 103	47,556 (6,986) 2,526	5.16 (0.57) 101	9,332 (901) 1,141	9.0 (0.8) 1,141
STATEWIDE									PERCENT OF TOTAL LICENSEES
	ESTIMATE (SE) N	1,347,410 (57,852) 2,606	2.33 (0.08) 1,169	12.67 (0.47) 1,202	90.6 (0.8) 1,202	560,660 (22,964) 2,574	5.35 (0.19) 1,170	106,387 (2,252) 2,607	46.1 (1.0) 2,607

TABLE 8. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF RACCOON HUNTING IN MISSISSIPPI DURING THE 1992-93 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	19,466 (5,007) 2,594	1.18 (0.20) 34	6.44 (1.26) 34	97.1 (2.9) 34	16,501 (4,037) 2,585	5.44 (0.97) 34	3,022 (515) 186	18.3 (2.8) 186
2	ESTIMATE (SE) N	69,598 (12,505) 2,594	0.56 (0.10) 70	10.44 (1.65) 75	89.3 (3.6) 75	108,532 (23,387) 2,585	17.54 (3.14) 70	6,666 (759) 186	40.3 (3.6) 186
3	ESTIMATE (SE) N	13,688 (5,625) 2,594	1.26 (0.28) 20	7.70 (2.73) 20	95.0 (5.0) 20	10,882 (3,724) 2,585	6.10 (1.63) 20	1,778 (396) 186	10.8 (2.3) 186
4	ESTIMATE (SE) N	22,221 (6,400) 2,594	0.67 (0.13) 36	6.41 (1.56) 38	97.4 (2.6) 38	29,345 (9,445) 2,585	9.14 (2.56) 36	3,467 (551) 186	21.0 (3.0) 186
5	ESTIMATE (SE) N	4,622 (1,551) 2,594	0.43 (0.17) 18	2.89 (0.80) 18	72.2 (10.9) 18	10,793 (5,048) 2,585	7.12 (2.94) 17	1,600 (376) 186	9.7 (2.2) 186
STATEWIDE	ESTIMATE (SE) N	134,079 (16,708) 2,607	0.67 (0.08) 187	7.62 (0.80) 199	91.5 (2.0) 199	181,702 (26,215) 2,595	10.94 (1.38) 187	17,600 (1,199) 2,607	7.6 (0.5) 2,607

TABLE 9. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF ALL DUCK HUNTING IN MISSISSIPPI DURING THE 1992-93 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	132,325 (19,998) 2,598	1.77 (0.12) 93	15.68 (1.78) 95	93.7 (2.5) 95	68,841 (9,273) 2,589	8.31 (0.74) 93	8,431 (849) 219	43.4 (2.4) 219
2	ESTIMATE (SE) N	66,917 (14,248) 2,598	1.36 (0.14) 57	12.16 (2.11) 62	77.4 (5.4) 62	40,343 (7,271) 2,589	7.95 (0.98) 57	5,502 (691) 219	28.3 (3.1) 219
3	ESTIMATE (SE) N	6,479 (2,413) 2,598	1.04 (0.13) 13	5.62 (1.46) 13	84.6 (10.4) 13	6,234 (2,316) 2,589	5.38 (1.39) 13	1,154 (319) 219	5.9 (1.6) 219
4	ESTIMATE (SE) N	12,425 (3,144) 2,598	1.01 (0.13) 32	4.38 (0.81) 32	87.5 (5.9) 32	12,290 (2,717) 2,589	4.31 (0.58) 32	2,840 (499) 219	14.6 (2.4) 219
5	ESTIMATE (SE) N	16,596 (8,291) 2,598	2.17 (0.46) 15	11.00 (4.96) 17	88.2 (8.1) 17	7,481 (2,855) 2,589	5.60 (1.63) 15	1,509 (365) 219	7.8 (1.8) 219
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STATEWIDE	ESTIMATE (SE) N	242,421 (26,128) 2,607	1.58 (0.08) 218	12.01 (1.05) 228	87.7 (2.2) 228	137,170 (12,461) 2,597	7.08 (0.95) 218	20,165 (1,276) 2,607	8.7 (0.6) 2,607
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									PERCENT OF TOTAL LICENSEES

TABLE 10. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF MALLARD, WOOD DUCK, AND OTHER DUCK HUNTING IN MISSISSIPPI DURING THE 1992-93 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	TAL VEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS
1	ESTIMATE	80,082	1.10	8.48	84.2	75,848	0.30	3.04	56.8	825	0.37	3.18	54.7
	(SE)	(13,088)	(0.10)	(1.23)	(3.8)	(2,388)	(0.04)	(0.54)	(8.1)	(.685)	(0.04)	(0.48)	(8.1)
	N	2,588	0.93	1.95	85	2,588	0.93	1.95	85	1,588	0.93	1.95	85
2	ESTIMATE	31,506	0.88	5.73	98.1	19,702	0.40	3.58	82.8	708	0.28	2.85	41.8
	(SE)	(7,248)	(0.09)	(1.11)	(6.1)	(2,592)	(0.07)	(0.61)	(8.2)	(.580)	(0.07)	(0.52)	(6.2)
	N	2,588	0.57	1.62	82	2,588	0.57	1.62	82	1,588	0.57	1.62	82
3	ESTIMATE	1,778	0.28	1.84	30.8	4,260	0.89	3.98	84.8	444	0.07	0.38	23.1
	(SE)	(1,072)	(0.13)	(0.86)	(13.3)	(1,324)	(0.13)	(0.74)	(10.4)	(266)	(0.04)	(0.31)	(12.3)
	N	2,588	0.13	0.13	13	2,588	0.13	0.13	13	588	0.13	0.13	13
4	ESTIMATE	3,481	0.28	1.32	48.8	8,431	0.89	2.87	88.8	532	0.04	0.18	8.4
	(SE)	(1,037)	(0.05)	(0.32)	(8.0)	(2,368)	(0.32)	(0.66)	(8.3)	(322)	(0.02)	(0.11)	(8.2)
	N	2,588	0.32	0.32	32	2,588	0.32	0.32	32	588	0.32	0.32	32
5	ESTIMATE	4,082	0.55	3.71	38.3	2,307	0.25	1.52	52.8	208	1.32	8.78	41.3
	(SE)	(2,588)	(0.18)	(1.11)	(11.8)	(2,588)	(0.18)	(0.17)	(12.1)	(588)	(0.15)	(3.17)	(12.1)
	N	2,588	0.18	0.18	18	2,588	0.18	0.18	18	588	0.18	0.18	18
STATEWIDE	ESTIMATE	138,138	0.82	6.08	98.8	92,503	0.60	3.15	91.8	780	0.36	2.81	41.7
(SE)	(15,182)	(0.07)	(0.28)	(2.1)	(1,803)	(0.28)	(0.22)	(2.2)	(2.8)	(0.21)	(0.28)	(2.8)	
N	2,807	0.28	0.28	28	2,807	0.28	0.28	28	807	0.28	0.28	28	

TABLE 11. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF GOOSE HUNTING IN MISSISSIPPI DURING THE 1992-93 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	619 (459) 2,607	1.75 (1.28) 3	2.33 (1.33) 3	100.0 (0.0) 3	354 (217) 2,606	1.33 (0.33) 3	265 (153) 16	18.8 (10.1) 16
2	ESTIMATE (SE) N	619 (319) 2,607	0.20 (0.08) 10	0.70 (0.30) 10	50.0 (16.7) 10	3,097 (1,142) 2,606	3.50 (0.70) 10	884 (279) 16	62.5 (12.5) 16
3	ESTIMATE (SE) N	88 (88) 2,607	0.33 (.1) 1	1.00 (.1) 1	100.0 (.1) 1	265 (265) 2,606	3.00 (.1) 1	88 (88) 16	6.3 (6.3) 16
4	ESTIMATE (SE) N	0 (0) 2,607	(.1) (.1) 1	(.1) (.1) 1	(.1) (.1) 1	0 (0) 2,606	(.1) (.1) 1	0 (0) 16	0.0 (0.0) 16
5	ESTIMATE (SE) N	1,327 (1,327) 2,607	7.50 (.1) 1	7.50 (7.50) 2	50.0 (50.0) 2	177 (177) 2,606	2.00 (.1) 1	177 (125) 16	12.5 (8.5) 16
STATEWIDE	ESTIMATE (SE) N	2,553 (1,442) 2,607	0.68 (0.38) 15	1.88 (0.93) 16	62.5 (12.5) 16	3,893 (1,204) 2,606	2.93 (0.52) 15	1,415 (353) 2,607	0.6 (0.2) 2,607

TABLE 12. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF RED FOX HUNTING IN MISSISSIPPI DURING THE 1992-93 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	820 (319) 2,605	0.29 (0.08) 5	1.40 (0.40) 5	100.0 (0.0) 5	2,125 (1,416) 2,604	4.80 (2.85) 5	443 (198) 31	16.1 (6.7) 31
2	ESTIMATE (SE) N	443 (234) 2,605	0.13 (0.09) 7	0.71 (0.29) 7	57.1 (20.2) 7	3,542 (1,959) 2,604	5.71 (2.49) 7	620 (234) 31	22.6 (7.6) 31
3	ESTIMATE (SE) N	266 (153) 2,605	0.02 (0.02) 7	0.43 (0.20) 7	42.9 (20.2) 7	16,469 (11,333) 2,604	26.57 (16.51) 7	620 (234) 31	22.6 (7.6) 31
4	ESTIMATE (SE) N	354 (177) 2,605	0.25 (0.17) 7	0.57 (0.20) 7	57.1 (20.2) 7	1,417 (719) 2,604	2.29 (0.84) 7	620 (234) 31	22.6 (7.6) 31
5	ESTIMATE (SE) N	177 (125) 2,605	0.04 (0.03) 4	0.40 (0.24) 5	40.0 (24.5) 5	3,985 (3,554) 2,604	11.25 (9.59) 4	443 (198) 31	16.1 (6.7) 31
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STATEWIDE	ESTIMATE (SE) N	2,300 (572) 2,607	0.08 (0.04) 31	0.79 (0.14) 33	80.8 (8.6) 33	27,615 (12,130) 2,605	10.06 (4.11) 31	2,919 (505) 2,607	1.3 (0.2) 2,607
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TABLE 13. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF GRAY FOX HUNTING IN MISSISSIPPI DURING THE 1992-93 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	177 (125) 2,604	0.06 (0.05) 6	0.33 (0.21) 6	33.3 (21.1) 6	3,013 (1,671) 2,602	5.67 (2.33) 6	531 (217) 27	22.2 (8.2) 27
2	ESTIMATE (SE) N	266 (198) 2,604	0.11 (0.12) 4	0.75 (0.48) 4	50.0 (28.9) 4	2,481 (1,837) 2,602	7.00 (4.42) 4	354 (177) 27	14.8 (7.0) 27
3	ESTIMATE (SE) N	797 (406) 2,604	0.04 (0.03) 8	1.00 (0.41) 8	55.6 (17.6) 9	18,254 (11,401) 2,602	25.75 (14.18) 8	797 (255) 27	33.3 (9.2) 27
4	ESTIMATE (SE) N	177 (125) 2,604	0.67 (0.33) 3	0.67 (0.33) 3	66.7 (33.3) 3	266 (153) 2,602	1.00 (0.00) 3	266 (153) 27	11.1 (6.2) 27
5	ESTIMATE (SE) N	89 (89) 2,604	0.06 (0.07) 4	0.20 (0.20) 5	20.0 (20.0) 5	1,418 (886) 2,602	4.00 (1.73) 4	443 (198) 27	18.5 (7.6) 27
STATEWIDE	ESTIMATE (SE) N	2,123 (611) 2,607	0.07 (0.27) 27	0.80 (0.18) 30	50.0 (9.3) 30	25,678 (11,691) 2,604	10.74 (4.52) 27	2,653 (482) 2,607	1.2 (0.2) 2,607

TABLE 14. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF BOBCAT HUNTING IN MISSISSIPPI DURING THE 1992-93 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	1,238	0.28	0.93	85.7	4,171	3.36	1,238	23.7
		(353)	(0.12)	(0.13)	(9.7)	(1,953)	(1.34)	(330)	(5.6)
2	ESTIMATE (SE) N	2,213	0.25	1.19	85.7	7,810	4.89	1,859	35.6
		(578)	(0.09)	(0.21)	(7.8)	(3,170)	(1.66)	(404)	(6.3)
3	ESTIMATE (SE) N	1,062	0.21	1.00	90.0	3,727	4.67	885	16.9
		(331)	(0.11)	(0.10)	(10.0)	(1,856)	(1.83)	(279)	(4.9)
4	ESTIMATE (SE) N	1,328	0.64	1.00	81.8	1,242	1.56	974	18.6
		(458)	(0.25)	(0.23)	(12.2)	(469)	(0.28)	(293)	(5.1)
5	ESTIMATE (SE) N	177	1.00	0.67	66.7	177	1.00	266	5.1
		(125)	(0.00)	(0.33)	(33.3)	(125)	(0.00)	(153)	(2.9)
		2,605				2,598		(59)	
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STATEWIDE	ESTIMATE (SE) N	6,279	0.30	1.05	85.2	17,293	3.61	5,385	2.3
		(907)	(0.07)	(0.09)	(4.6)	(4,178)	(0.73)	(689)	(0.3)
		2,607	54	61	61	2,600	54	2,607	2,607
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									PERCENT OF TOTAL LICENSEES

TABLE 15. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF COYOTE HUNTING IN MISSISSIPPI DURING THE 1992-93 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	9,219 (1,866) 2,601	0.20 (0.11) 40	2.20 (0.36) 46	89.1 (4.6) 46	35,858 (23,934) 2,572	10.00 (6.57) 40	4,078 (596) 186	24.7 (3.2) 186
2	ESTIMATE (SE) N	13,563 (2,916) 2,601	0.07 (0.03) 54	2.06 (0.40) 69	82.6 (4.6) 69	122,098 (57,020) 2,572	25.22 (11.36) 54	6,117 (727) 186	37.1 (3.6) 186
3	ESTIMATE (SE) N	4,610 (1,362) 2,601	0.15 (0.08) 20	2.08 (0.50) 24	87.5 (6.9) 24	20,977 (11,712) 2,572	11.70 (6.14) 20	2,128 (432) 186	12.9 (2.5) 186
4	ESTIMATE (SE) N	6,914 (1,705) 2,601	0.13 (0.09) 34	2.11 (0.41) 36	88.9 (5.3) 36	47,961 (33,095) 2,572	15.74 (10.68) 34	3,191 (528) 186	19.4 (2.9) 186
5	ESTIMATE (SE) N	3,014 (1,326) 2,601	0.25 (0.08) 9	3.08 (1.04) 11	100.0 (0.0) 11	11,385 (7,207) 2,572	14.11 (8.06) 9	975 (293) 186	5.9 (1.7) 186
STATEWIDE		38,649 (4,369) 2,607	0.12 (0.04) 160	2.18 (0.21) 192	87.5 (2.4) 192	238,360 (71,288) 2,575	16.64 (4.82) 160	16,981 (1,180) 2,607	7.4 (0.5) 2,607

TABLE 16. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF ARCHERY DEER HUNTING IN MISSISSIPPI DURING THE 1992-93 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	7,934 (1,260) 2,504	0.057 (0.008) 135	0.64 (0.09) 138	37.7 (4.1) 138	134,631 (14,833) 2,480	11.38 (0.82) 135	11,972 (991) 654	21.1 (1.6) 654
2	ESTIMATE (SE) N	14,228 (1,688) 2,504	0.058 (0.006) 244	0.64 (0.07) 253	39.1 (3.1) 253	234,662 (19,202) 2,480	10.88 (0.60) 244	21,949 (1,309) 654	38.7 (1.9) 654
3	ESTIMATE (SE) N	7,027 (1,228) 2,504	0.078 (0.011) 131	0.96 (0.14) 83	55.4 (5.5) 83	83,738 (11,818) 2,480	12.42 (1.09) 131	7,201 (777) 654	12.7 (1.3) 654
4	ESTIMATE (SE) N	8,328 (1,222) 2,504	0.054 (0.007) 131	0.71 (0.09) 135	43.0 (4.3) 135	141,813 (15,631) 2,480	12.36 (0.87) 131	11,712 (981) 654	20.6 (1.6) 654
5	ESTIMATE (SE) N	1,648 (966) 2,504	0.041 (0.014) 43	0.42 (0.13) 45	24.4 (6.5) 45	34,424 (6,416) 2,480	9.14 (1.01) 43	3,904 (577) 654	6.9 (1.0) 654
STATEWIDE	ESTIMATE (SE) N	40,886 (2,790) 2,529	0.059 (0.004) 652	0.69 (0.04) 679	40.9 (1.9) 679	643,618 (30,215) 2,502	11.37 (0.37) 652	58,323 (1,915) 2,529	26.8 (0.9) 2,529

(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 1992-93 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	3 470	0.025	0.28	21.7	4 164	0.031	0.35	25.4		
		(743) 2,504	(0.005) 135	(0.06) 138	(3.5) 138	(772) 2,504	(0.005) 135	(0.06) 138	(3.7) 138		
2	ESTIMATE (SE) N	6 680	0.028	0.30	22.1	7 548	0.030	0.34	26.9		
		(898) 2,504	(0.004) 244	(0.04) 253	(2.6) 253	(982) 2,504	(0.004) 244	(0.04) 253	(2.8) 253		
3	ESTIMATE (SE) N	3 123	0.035	0.43	32.5	3 904	0.044	0.53	34.9		
		(658) 2,504	(0.007) 77	(0.08) 83	(5.2) 83	(777) 2,504	(0.007) 77	(0.09) 83	(5.3) 83		
4	ESTIMATE (SE) N	3 644	0.025	0.31	25.9	4 685	0.030	0.40	30.4		
		(657) 2,504	(0.004) 131	(0.05) 135	(3.8) 135	(770) 2,504	(0.004) 131	(0.06) 135	(4.0) 135		
5	ESTIMATE (SE) N	868	0.018	0.22	13.3	694	0.020	0.18	15.6		
		(407) 2,504	(0.008) 43	(0.10) 45	(5.1) 45	(274) 2,504	(0.008) 43	(0.07) 45	(5.5) 45		
STATEWIDE	ESTIMATE (SE) N	18 725	0.027	0.32	23.7	22 075	0.032	0.37	27.7		
		(1 633) 2,528	(0.002) 652	(0.03) 679	(1.6) 679	(1 690) 2,528	(0.002) 652	(0.03) 679	(1.7) 679		

TABLE 18. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF PRIMITIVE WEAPON DEER HUNTING IN MISSISSIPPI DURING THE 1992-93 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	7,563 (1,113) 2,499	0.110 (0.014) 148	0.57 (0.07) 153	39.8 (4.0) 153	68,608 (6,971) 2,476	5.28 (0.33) 148	13,300 (1,042) 715	21.4 (1.5) 715
2	ESTIMATE (SE) N	12,170 (1,280) 2,499	0.102 (0.010) 255	0.53 (0.05) 262	39.7 (3.0) 262	114,494 (8,728) 2,476	5.12 (0.25) 255	22,775 (1,332) 715	36.6 (1.8) 715
3	ESTIMATE (SE) N	9,608 (1,005) 2,499	0.117 (0.016) 106	0.68 (0.08) 112	48.2 (4.7) 112	53,167 (6,976) 2,476	5.72 (0.52) 106	9,736 (899) 715	15.7 (1.4) 715
4	ESTIMATE (SE) N	7,997 (1,060) 2,499	0.101 (0.013) 147	0.61 (0.07) 150	44.7 (4.1) 150	77,284 (8,641) 2,476	5.99 (0.47) 147	13,039 (1,032) 715	21.0 (1.5) 715
5	ESTIMATE (SE) N	1,739 (562) 2,499	0.101 (0.027) 36	0.53 (0.38)	34.2 (7.8)	17,371 (3,499) 2,476	5.50 (0.64) 36	3,303 (532) 715	5.3 (0.8) 715
STATEWIDE	ESTIMATE (SE) N	39,254 (2,388) 2,529	0.113 (0.007) 719	0.61 (0.03) 745	42.4 (1.8) 745	337,780 (15,010) 2,503	5.41 (0.71) 719	63,993 (1,970) 2,529	28.5 (0.9) 2,529

(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 1982-83 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	4,173	0.061	0.31	24.8	3,390	0.049	0.25	22.9		
		(743) 2,499	(0.010) 148	(0.05) 153	(3.5) 153	(592) 2,499	(0.008) 148	(0.04) 153	(3.4) 153		
2	ESTIMATE (SE) N	5,737	0.048	0.25	21.4	6,433	0.054	0.28	24.8		
		(826) 2,499	(0.007) 255	(0.03) 262	(2.5) 262	(833) 2,499	(0.008) 255	(0.03) 262	(2.7) 262		
3	ESTIMATE (SE) N	2,260	0.038	0.23	17.8	4,346	0.079	0.45	38.4		
		(548) 2,499	(0.008) 106	(0.05) 112	(3.6) 112	(701) 2,499	(0.012) 106	(0.06) 112	(4.6) 112		
4	ESTIMATE (SE) N	3,998	0.052	0.31	26.0	3,999	0.049	0.31	25.3		
		(680) 2,499	(0.009) 147	(0.05) 150	(3.6) 150	(691) 2,499	(0.009) 147	(0.05) 150	(3.6) 150		
5	ESTIMATE (SE) N	695	0.040	0.21	18.4	1,043	0.061	0.32	21.1		
		(275) 2,499	(0.014) 38	(0.08) 38	(6.4) 38	(407) 2,499	(0.021) 38	(0.11) 38	(6.7) 38		
STATEWIDE	ESTIMATE (SE) N	17,523	0.050	0.27	22.8	21,732	0.062	0.34	27.1		
		(1,428) 2,529	(0.004) 719	(0.07) 745	(1.5) 745	(1,652) 2,529	(0.005) 719	(0.07) 745	(1.6) 745		

TABLE 20. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF REGULAR GUN DEER HUNTING IN MISSISSIPPI DURING THE 1992-93 HUNTING SEASON.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE (SE) N	37,795 (3,050) 2,437	0.094 (0.006) 335	1.22 (0.08) 347	57.9 (2.7) 347	398,810 (26,771) 2,358	12.92 (0.57) 335	30,931 (1,538) 1,871	18.5 (0.9) 1,871
2	ESTIMATE (SE) N	85,127 (4,437) 2,437	0.083 (0.003) 739	1.24 (0.05) 764	57.3 (1.8) 764	1,002,229 (39,373) 2,358	14.72 (0.36) 739	68,102 (2,042) 1,871	40.8 (1.1) 1,871
3	ESTIMATE (SE) N	34,140 (3,230) 2,437	0.107 (0.007) 211	1.69 (0.12) 226	68.1 (3.1) 226	305,302 (24,195) 2,358	15.71 (0.70) 211	20,145 (1,277) 1,871	12.1 (0.8) 1,871
4	ESTIMATE (SE) N	53,483 (3,812) 2,437	0.090 (0.005) 397	1.43 (0.08) 417	62.1 (2.4) 417	567,767 (31,975) 2,358	15.52 (0.51) 397	37,171 (1,658) 1,871	22.3 (1.0) 1,871
5	ESTIMATE (SE) N	7,844 (1,763) 2,437	0.044 (0.008) 110	0.75 (0.16) 117	32.5 (4.3) 117	115,801 (13,424) 2,358	11.43 (0.78) 110	10,429 (841) 1,871	6.3 (0.6) 1,871
STATEWIDE	ESTIMATE (SE) N	220,839 (6,955) 2,529	0.088 (0.002) 1,869	1.31 (0.04) 1,963	57.9 (1.1) 1,963	2,387,132 (47,383) 2,435	14.32 (0.24) 1,869	168,614 (1,801) 2,529	77.6 (0.8) 2,529

(A)

(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 1992-93 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	29,418	0.072	0.95	51.6	8,379	0.021	0.27	20.5		
		(2,473) 2,437	(0.005) 0.335	(0.08) 347	(2.7) 347	(1,086) 2,437	(0.003) 0.335	(0.03) 347	(2.2) 347		
2	ESTIMATE (SE) N	68,637	0.087	1.00	52.1	18,491	0.017	0.24	19.4		
		(3,743) 2,437	(0.003) 0.738	(0.05) 764	(1.8) 764	(1,418) 2,437	(0.001) 0.738	(0.02) 764	(1.4) 764		
3	ESTIMATE (SE) N	25,315	0.078	1.26	62.8	8,825	0.028	0.44	30.5		
		(2,443) 2,437	(0.005) 0.211	(0.09) 226	(3.2) 226	(1,361) 2,437	(0.004) 0.211	(0.06) 226	(3.1) 226		
4	ESTIMATE (SE) N	45,282	0.076	1.21	58.0	8,201	0.014	0.23	17.5		
		(3,288) 2,437	(0.004) 0.397	(0.07) 417	(2.4) 417	(1,011) 2,437	(0.002) 0.397	(0.03) 417	(1.9) 417		
5	ESTIMATE (SE) N	6,151	0.038	0.59	29.9	1,694	0.008	0.16	7.7		
		(1,361) 2,437	(0.007) 1.110	(0.12) 117	(4.3) 117	(839) 2,437	(0.002) 1.110	(0.09) 117	(2.5) 117		
STATEWIDE	ESTIMATE (SE) N	175,571	0.070	1.04	53.0	45,267	0.018	0.27	18.8		
		(5,360) 2,529	(0.002) 1,869	(0.03) 1,963	(1.1) 1,963	(2,610) 2,529	(0.001) 1,869	(0.02) 1,963	(0.9) 1,963		

TABLE 22. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF SPRING TURKEY HUNTING IN MISSISSIPPI DURING THE 1992-93 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	5,332 (1,330) 2,012	0.118 (0.016) 53	0.85 (0.15) 55	47.3 (6.8) 55	42,277 (7,499) 2,004	7.20 (0.84) 53	5,985 (796) 386	14.2 (1.8) 386
2	ESTIMATE (SE) N	9,358 (1,395) 2,012	0.088 (0.012) 116	0.74 (0.09) 117	48.2 (4.6) 117	94,387 (11,772) 2,004	7.45 (0.64) 116	12,731 (1,143) 386	30.3 (2.3) 386
3	ESTIMATE (SE) N	6,637 (1,227) 2,012	0.108 (0.014) 62	0.84 (0.13) 63	54.0 (6.3) 63	58,429 (9,528) 2,004	8.77 (0.89) 62	6,855 (850) 386	16.3 (1.9) 386
4	ESTIMATE (SE) N	12,295 (1,653) 2,012	0.102 (0.011) 123	0.88 (0.09) 127	52.8 (4.4) 127	116,583 (13,976) 2,004	8.67 (0.71) 123	13,819 (1,187) 386	32.9 (2.4) 386
5	ESTIMATE (SE) N	1,741 (532) 2,012	0.069 (0.018) 24	0.67 (0.16) 24	54.2 (10.4) 24	25,454 (5,961) 2,004	9.71 (1.82) 24	2,611 (530) 386	6.2 (1.2) 386
STATEWIDE	ESTIMATE (SE) N	35,548 (2,692) 2,020	0.100 (0.006) 386	0.82 (0.05) 394	50.0 (2.5) 394	346,232 (22,299) 2,012	8.24 (0.37) 386	42,701 (1,931) 2,020	19.5 (0.9) 2,020

(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 1992 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	1,051 (453) 2,481	0.240 (0.097) 14	0.86 (0.31) 14	50.0 (13.9) 14	4,378 (1,524) 2,481	3.57 (0.83) 14	1,326 (175) 18	77.8 (10.1) 18
3	ESTIMATE (SE) N	175 (175) 2,481	0.091 (0.040) 4	0.50 (0.50) 4	25.0 (25.0) 4	1,926 (1,373) 2,481	5.50 (3.23) 4	350 (175) 18	22.2 (10.1) 18
								PERCENT OF TOTAL LICENSEES (B)	
STATEWIDE	ESTIMATE (SE) N	1,836 (624) 2,484	0.253 (0.084) 21	0.95 (0.27) 21	52.4 (11.2) 21	6,909 (2,087) 2,484	3.76 (0.82) 21	1,836 (389) 2,484	0.8 (0.2) 2,484

(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 1992-93 HUNTING SEASON AND ALL TURKEY HUNTING (COMBINING SPRING AND FALL DATA) DURING THE 1992 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	300,980	0.086	1.71	61.1	3,350,077	19.26	175,829	80.9
	(SE) N	(8,569) 2,529	(0.002) 1,939	(0.05) 2,047	(1.1) 2,047	(70,965) 2,421	(0.36) 1,939	(1,697) 2,529	(0.8) 2,529
BUCK	ESTIMATE	211,820	0.060	1.20	54.0				
	(SE) N	(6,376) 2,529	(0.002) 1,939	(0.03) 2,047	(1.1) 2,047				
DOE	ESTIMATE	90,181	0.026	0.51	30.8				
	(SE) N	(3,982) 2,529	(0.001) 1,939	(0.02) 2,047	(1.0) 2,047				
TURKEY	ESTIMATE	37,385	0.066	0.84	50.1	353,141	12.81	44,538	17.2
	(SE) N	(2,763) 2,529	(0.024) 430	(0.05) 439	(2.4) 439	(22,398)	(4.64) 430	(1,971) 2,553	(0.7) 2,553

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

B.

1. Which do you prefer

50.0%	A statewide season with a Labor Day weekend opening
20.7%	Two zone option: opening day in Northern Zone Sept. 4 and opening day in Southern Zone Sept. 25
24.4%	Not sure
4.9%	No response

2. Based on the map, in which Zone do you usually hunt doves?

42.4%	Northern Zone
27.3%	Southern Zone
27.1%	Don't hunt doves
3.2%	No response

3. Which hunting option would you prefer?

48.3%	Season length: 60 days Bag limit: 15 birds/day
25.0%	Season length: 70 days
22.1%	Bag limit 12 birds/day
22.1%	Don't know
4.7%	No response

4. Which shooting hour option do you prefer?

21.4%	Half day (afternoon) all season
9.1%	Half day (afternoon) first day, full day afterward
51.4%	Full day all season
13.6%	Don't know
4.5%	No response

Table 25. Summary of opinion question responses

5. Which season do you prefer to have the most days to hunt?

49.2%	First season
16.3%	Second season
8.4%	Third season
13.6%	Don't know
4.5%	No response

6. How important is the Labor Day weekend opening to you?

22.8%	Very important
18.5%	Important
31.6%	Not very important
22.8%	Don't care
4.3%	No response

7. Do you know how to identify a baited field?

59.7%	Yes
14.4%	No
22.1%	Not sure
4.3%	No response

8. If you haven't hunted dove in the last few years, why not?

1.4%	Season opens to soon
14.4%	No place to hunt
13.4%	Other interests (football, fishing)
5.7%	Not enough dove
3.5%	Laws pertaining to baiting are too complicated
9.8%	Never hunted dove
16.7%	Other
35.0%	No response



# 1992-1993 MISSISSIPPI HUNTER QUESTIONNAIRE

105521

A. Please fill in the blocks below for each game species you hunted during the 1992-93 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 REGION HUNTED MOST	
		DAYS HUNTED	REGION HUNTED MOST
1 Dove			
2 Quail			
3 Woodcock			
4 Rabbit			
5 Squirrel			
6 Raccoon			
7 Deer (archery)	Bucks Does		
8 Deer (prim. weapon)			
9 Deer (gun)			
10 Turkey (Spring '92)			
11 Turkey (Fall '92)			
12 Ducks	Mallards Wood Other		
13 Geese			
14 Red Fox			
15 Gray Fox			
16 Bobcat			
17 Coyote			

Determine REGION HUNTED MOST from map.

The 1992-93 hunting seasons have ended. Did you buy a license to hunt deer or turkey in the 1991-92 (last year) hunting seasons?

Yes

No

Fig. 1 Questionnaire used for the 1992-93 mail survey of game harvest and hunter effort in Mississippi

B. In July of each year the U.S. Fish and Wildlife Service (USFWS) develops guidelines from which the MDWFP must set DOVE season dates, bag limits, and zones (either statewide or two zones).

Mississippi currently has a statewide season. In the past we had two zones. With two zones the opening day in the Northern zone can be any day within the guidelines provided by the USFWS. The opening day in the Southern Zone can be no earlier than approximately three weeks after the opening day in the Northern Zone. (example: Northern Zone opening day September 4; Southern Zone opening day September 25). Each zone must have the same number of total dove hunting days. Using the map on the cover, the Northern Zone would include Regions 1 and 2. The Southern Zone would include Regions 3, 4, and 5.

With this information in mind please answer the following questions.

1. Which do you prefer

- A statewide season with a Labor Day weekend opening
- Two zone option: opening day in the Northern Zone, Labor Day weekend (September 4) and opening day in Southern Zone, September 25 (See information above for zones)
- Not sure

2. Based on the map, in which ZONE do you usually hunt dove?

- Northern Zone
- Southern Zone
- Don't hunt doves

3. Which hunting option would you prefer?

- Season length: 60 days  
Bag limit: 15 birds/day
- Season length: 70 days  
Bag limit: 12 birds/day
- Don't know

4. Which shooting hour option do you prefer?

- Half day (afternoon) all season
- Half day (afternoon) first day, full day afterward
- Full day all season
- Don't know

5. Which season do you prefer to have the most days to hunt?

- First season
- Second season
- Third season
- Don't know

6. How important is the Labor Day weekend opening to you?

- Very important
- Important
- Not very important
- Don't care

7. Do you know how to identify a baited field?

- Yes
- No
- Not sure

8. If you haven't hunted dove in the last few years, why not?

- Season opens too soon
- No place to hunt
- Other interests (i.e. football, fishing)
- Not enough dove
- Laws pertaining to baiting are too complicated
- Never hunted dove
- Other \_\_\_\_\_

9. Your age: \_\_\_\_\_ years



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

**SAM POLLES, Ph.D  
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.

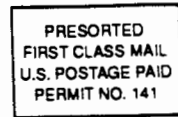
Yours for better conservation,

Sam Polles, Ph.D.  
Executive Director

SP:ccs      Fig. 2 Cover letter mailed with the initial mailing of the 1992-93 survey of  
game harvest and hunter effort in Mississippi

Enclosure

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,

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

Sam Polles, Ph.D.  
Executive Director

**Fig. 3 Post card used as the first reminder mailing to nonrespondents during the 1992-93 survey of game harvest and hunter effort in Mississippi**



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

**SAM POLLES, Ph.D  
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,

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

Sam Polles, Ph.D.  
Executive Director

SP:ccs      Fig. 4 Cover letter mailed with the second (and final) reminder mailing to  
non-respondents during the 1992-93 survey of game harvest and hunter effort  
Enclosure    in Mississippi

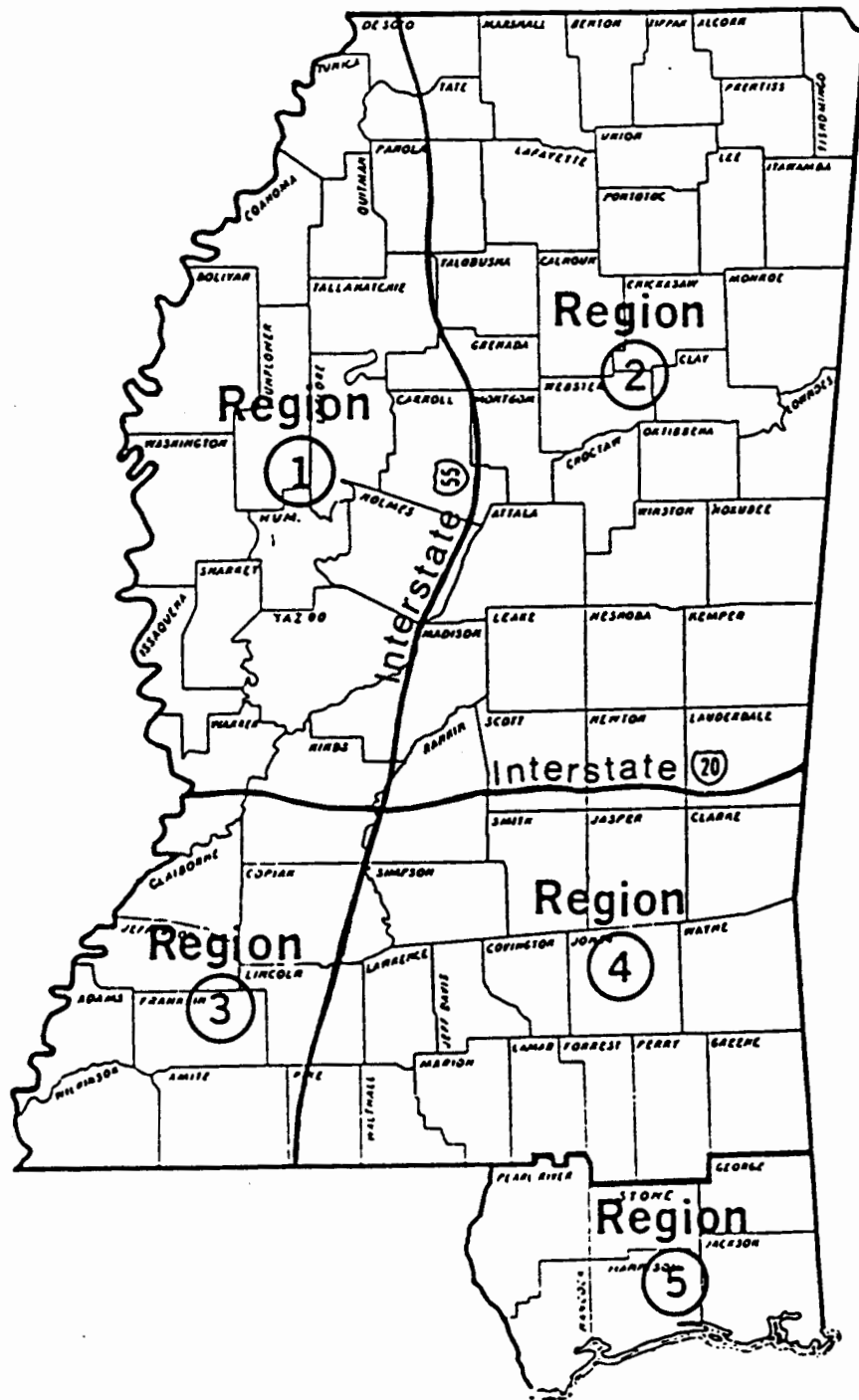


Fig. 5 Regional partitions for region hunted most