MISSISSIPPI MAIL SURVEY OF GAME HARVEST AND HUNTER EFFORT FOR 1990-91

by

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Page
LE OF CONTENTS
OF TABLES
OF FIGURES
ODUCTION
HODS7
JLTS
USSION11
NOWLEDGEMENTS
ERENCES CITED
LES
TDEC 29

LIST OF TABLES

Table	Pa	age
1.	Expanded statewide summary of the 1990-91 Mississippi mail survey of game harvest based on 228,685 small game license holders and 213,030 big game license holders	14
2.	Expanded statewide estimates of total harvest (and the variability of the estimates) for all game species in Mississippi during the 1990-91 hunting season	15
3.	Expanded statewide and regional summaries of DOVE hunting in Mississippi during the 1990-91 hunting season	16
4.	Expanded statewide and regional summaries of QUAIL hunting in Mississippi during the 1990-91 hunting season	17
5.	Expanded statewide and regional summaries of WOODCOCK hunting in Mississippi during the 1990-91 hunting season	18
6.	Expanded statewide and regional summaries of RABBIT hunting in Mississippi during the 1990-91 hunting season	19
7.	Expanded statewide and regional summaries of SQUIRREL hunting in Mississippi during the 1990-91 hunting season	20
8.	Expanded statewide and regional summaries of RACCOON hunting in Mississippi during the 1990-91 hunting season	21
9.	Expanded statewide and regional summaries of ALL DUCK hunting in Mississippi during the 1990-91 hunting season	22
10.	Expanded statewide and regional summaries of MALLARD, WOOD DUCK and OTHER DUCK hunting in Mississippi during the 1990-91 hunting season	23
11.	Expanded statewide and regional summaries of GOOSE hunting in Mississippi during the 1990-91 hunting season	24

Table		Page
12.	Expanded statewide and regional summaries of RED FOX hunting in Mississippi during the 1990-91 hunting season	. 25
13.	Expanded statewide and regional summaries of GRAY FOX hunting in Mississippi during the 1990-91 hunting season	. 26
14.	Expanded statewide and regional summaries of BOBCAT hunting in Mississippi during the 1990-91 hunting season	. 27
15.	Expanded statewide and regional summaries of COYOTE hunting in Mississippi during the 1990-91 hunting season	. 28
16.	Expanded statewide and regional summaries of ARCHERY DEER hunting in Mississippi during the 1990-91 hunting season	. 29
17.	Expanded statewide and regional summaries of ARCHERY BUCK and DOE hunting in Mississippi during the 1990-91 hunting season	. 30
18.	Expanded statewide and regional summaries of PRIMITIVE WEAPON DEER hunting in Mississippi during the 1990-91 hunting season	. 31
19.	Expanded statewide and regional summaries of PRIMITIVE WEAPON BUCK and DOE hunting in Mississippi during the 1990-91 hunting season	. 32
20.	Expanded statewide and regional summaries of REGULAR GUN DEER hunting in Mississippi during the 1990-91 hunting season	. 33
21.	Expanded statewide and regional summaries of REGULAR GUN BUCK and DOE hunting in Mississippi during the 1990-91 hunting season	. 34
22.	Expanded statewide and regional summaries of SPRING TURKEY hunting in Mississippi during the 1990 hunting season	. 35
23.	Expanded statewide and regional summaries of FALL TURKEY hunting in Mississippi during the 1990 hunting season	. 36
24.	Expanded statewide summaries of ALL DEER, BUCK and DOE hunting (combining all harvest methods) during the 1990-91 hunting season and ALL TURKEY hunting (combining spring and fall data)	
	during the 1990 calendar year	. 37

LIST OF FIGURES

Figure	Page
1.	Questionnaire used for the 1990-91 mail survey of game harvest and hunter effort in Mississippi
2.	Cover letter mailed with the initial mailing of the 1990-91 survey of game harvest and hunter effort in Mississippi
3.	Post card used as the first reminder mailing to nonrespondents during the 1990-91 survey of game harvest and hunter effort in Mississippi
4.	Cover letter mailed with the second (and final) reminder mailing to non-respondents during the 1990-91 survey of game harvest and hunter effort in Mississippi
5.	Regional partitions utilized for region hunted most

INTRODUCTION

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

The Mississippi Department of Wildlife Fisheries and Parks (MDWFP) uses a mail survey to obtain trend data on total harvest, average daily kill, average seasonal harvest, and total man-days hunted for each game species. The estimates obtained for each of these categories contain serious sampling, response and nonresponse biases, therefore the accuracy of these estimates is unknown. 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 1990-91 hunting season was to obtain a reliable set of <u>statewide</u> indices for each game species in Mississippi. The secondary objective was to provide <u>regional</u> indices for these species. The survey is also used to monitor hunter attitudes and perceptions on specific issues. The results of the survey are used to help guide management decisions.

METHODS

The sampling frame for the survey consisted of resident holders of a Type 00 - Sportsman, Type 01 - All Game Hunting and Fishing, Type 02 - Small Game Hunting or Type 05 - Small Game Hunting and Fishing license purchased during the 1990-91 license year.

A 2.5 percent sample of these hunting license buyers was selected from the 157,200 licenses processed from July 1, 1990 -January 31, 1991. 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. An optical scanning device (\$6000 Burroughs Document Processor) was used to mechanically make the stub selections. Sampling was discontinued at the end of January to expedite mailing the survey immediately after the close of the February hunting season.

An initial sample of 3,378 of Type 01, 02, and 05 license holders was selected. Since approximately (8.3) percent of the selected license stubs lacked complete names and/or addresses, the (2.5) percent sample of stubs resulted in a (1.97) percent or 3,095 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. Based on an average of 10 years 90.5 percent of the predicted sales had been accounted for by the end of January of each year. Therefore the 1.97 percent sample of

license holders in January would be about a 1.78 percent (0.905 x 0.0197 x 100) sample of total expected through June 1991.

Because of the computerized and renewable aspects of Sportsman's licenses (Type 00), virtually all 90-91 Sportsman's license holders are accounted for by the end of January. Sales were 35,850 by February 1991. To achieve a sample of Sportsman license holders comparable to the other types, a computer generated random sample of 609 hunters or 1.7 percent 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 14, 1991 to the 3,704 sampled hunters. Three weeks after the initial mailing, reminder post cards (Figure 3) were mailed to 2,369 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 2,022 nonrespondents. First mailing questionnaires were given identification numbers from 100,001 to 103,704 while the final mailing was given a 200,000 numbering sequence to differentiate responses between mailings. Questionnaires returned four weeks after the final mailing were not considered in the analyses.

Questionnaire design and mailing procedures were outlined by Steffen (1981).

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

Estimates and their standard errors for each species were calculated for the following

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

The 1990-91 survey obtained information about two license years. Turkey harvest indices were partially calculated from hunters who hunted during the spring 1990 turkey season which was the 89/90 license year. Indices for other species were determined for the 90-91 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 1990 turkey hunting indices were calculated based on the respondents who also purchased a big game license during the previous July 1, 1989 - June 30, 1990 fiscal year (Questionnaire Part B, question #12).

Estimates and standard errors of total turkey and man-days of effort were calculated as a linear combination of the spring 1990 estimates plus the fall 1990 estimates. The computer programs were altered to reflect these changes. All other calculations follow Steffen (1981).

RESULTS

Based on all three mailings, 435 (11.7%) of the 3,703 questionnaires were returned as non-deliverable by the post office. Therefore 3,268 individuals were assumed to have been

contacted to participate in the survey. Of these, 2,104 (64.3%) returned their questionnaires for possible analysis and 1,213 (37.1%) were nonresponses. Based on those questionnaires returned, 2,055 were answered and usable to some extent, 49 were returned after the acceptance deadline (4 weeks after the final mailing).

Statewide expansions were calculated based on the total hunting licenses sold and accounted for by the end of June 1991. There existed 228,685 individuals licensed to hunt small game and 213,030 (Types 00 + 01) of these license holders also were eligible to pursue big game (deer and turkey) during the 1990-91 hunting seasons. The spring, 1990 turkey hunting estimates were based on the 215,703 big game license holders recorded in the 1989-90 license sales totals.

Based on the 2,055 usable responses, 91.5 ± 0.6 (SE) percent of all resident license holders actually participated in a hunting activity during the 1990-91 hunting season. Therefore an estimated 209,740 \pm 1,375 (SE) licenses actually utilized their license for hunting purposes.

The expanded statewide summaries of total harvest, average daily kill, average seasonal kill, the percent of hunters and the percent of total licenses that hunted are provided in Table 1 for all game species included in the survey. Table 2 provides the expanded statewide estimates of total harvest and the variability of these (standard errors and 95 percent confidence limits) for all game species surveyed.

Tables 3-8 summarize small game hunting on a statewide and regional basis.

Waterfowl hunting is summarized in Tables 9-11. Tables 12-15 summarize fox (red and gray), bobcat and coyote hunting. Statewide and regional summaries of deer (buck and doe

data from the archery, primitive weapon and gun seasons) and turkey hunting are provided in Tables 16-24. Statewide totals will not necessarily equal the sum of the regional totals. All figures were calculated independently and were the best statistical estimates available.

DISCUSSION

For management purposes, it should be reemphasized that the hunting data provided in this publication are only indices to harvest and effort and are to be used in conjunction with past and future mail surveys to determine trends. The current survey was conducted similarly to all past surveys and is therefore useful for comparison purposes.

Response and nonresponse biases continue to exist with the survey as previously noted by Steffen (1981). Therefore discretion must be used when considering these data as absolute estimates. Assuming the biases remain consistent over time, the best uses of these data are as indices for trend determinations.

As previously recommended by Steffen (1981), the annual survey should be continued with a sample of 3,000 - 4,000 sportsmen. Periodically (e.g., every 5 years) a survey of 11,000 - 12,000 hunters should be conducted to provide more precise estimates on a regional basis. To avoid changes in biases, attention to the consistency of survey methodology should be continued in future surveys.

ACKNOWLEDGEMENTS

This survey could not have been accomplished without the conscientious efforts of many MDWFP personnel from all divisions. Special thanks goes to J. Phillips.

Appreciation is also extended to L. Blackwell, C. Blakeney, S. Jordan, T. Martin, and D. Robinson for technical expertise and B. Abernathy, B. Ellison, D. Smith, L. J. Smith, R. Spencer, J. Tindall help with mailings. Accounting and data processing coordination was assisted by P. McDaniel and E. Gregory, respectively.

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EXPANDED STATEWIDE SUMMARY OF THE 1990-91 MISSISSIPPI MAIL SURVEY OF GAME HARVEST BASED ON 228,685 SMALL GAME LICENSE HOLDERS. TABLE 1.

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DX	RED FOX	3,422	3 :		. Y	6.000	3.50	7,567	· •	
6,156 0.46 1.10 89.5 10.10 42,565 0.10 2.31 84.7 291,106 20.40 23,035 10.1 DEER 249,572 0.081 1.50 58.7 2,867,243 17.48 166,925 78.4 72,439 0.024 0.44 26.9 72,439 0.024 0.44 26.9 72,439 0.024 0.44 26.9 16,682 0.061 0.63 36.7 448,820 9.71 51,717 24.3 INE DEER 34,716 0.114 0.60 41.9 279,374 4.99 61,180 28. 20,618 0.069 0.35 25.2 20,618 0.065 0.24 20.5 14,089 0.045 0.24 20.5 149,437 0.065 0.93 50.3 75.126,329 13.58 159,883 75. 110,199 0.036 0.97 52.4 409,324 26.99 55,235 21. 110,199 0.036 0.97 52.4 409,324 26.99 55,235 21. 20,516 0.103 0.94 52.5 6,421 3.11 7,485 3.	GRAY FOX	5,361	0.41				. 21	10, 794		
42,565 0,10 2.31 84.7 291,106 20.40 20.40 2.31 84.7 291,106 20.40 20.40 20.41 1.50 58.7 2,867,243 17.48 168,925 78.4 72,439 0.057 1.05 51.8 26.9 36.7 448,820 9.71 51,717 24.3 Y DEER 29,882 0.061 0.63 36.7 448,820 9.71 51,717 24.3 IVE DEER 13,831 0.028 0.28 20.9 25.2 25.2 IVE DEER 34,716 0.114 0.60 41.9 279,374 4.99 61,180 28. IVE DEER 34,716 0.114 0.60 41.9 279,374 4.99 61,180 28. IVE DEER 14,089 0.045 0.24 20.5 22.126,329 13.58 159,883 75. IVE DEER 183,631 0.081 1.15 55.2 2,126,329 13.58 159,883 75.	BOBCAT	6, 156	0.46	• 33		769,01		20 CSE	10.1	
DEER 249,572 0.081 1.50 58.7 2,867,243 17.48 100,923 175,304 0.057 1.05 51.8 172,439 0.024 0.44 26.9 172,439 0.024 0.44 26.9 172,439 0.024 0.44 26.9 177,448,820 9.71 51,717 24.3 13,631 0.028 0.28 20.9 178,820 9.71 51,717 24.3 19,6 0.114 0.60 41.9 279,374 4.99 61,180 28.3 175. 14,089 0.045 0.24 20.5 2.79,374 4.99 61,180 28.3 183,631 0.081 1.15 55.2 2,126,329 13.58 159,883 75. 184,503 0.016 0.22 16.4 409,324 26.99 55,235 21. 2,064 0.036 0.97 52.4 409,324 26.99 55,235 21. 2,064 0.036 0.97 52.4 409,324 26.99 55,235 21. 2,064 0.036 0.016 0.02 6.42 54.5 6.421 3.11 7,485 3.3	COYOTE	42,565			84.7		20.40) L		
FR 29,982 0.024 0.44 28.9 FR 13,831 0.028 0.28 20.9 18,682 0.061 0.63 36.7 448,820 9.71 51,717 24.3 18,682 0.063 0.28 20.9 14,089 0.045 0.24 20.5 14,089 0.045 0.24 20.5 20,618 0.069 0.36 29.5 20,618 0.069 0.39 29.5 149,437 0.065 0.93 50.3 149,437 0.065 0.93 50.3 149,437 0.065 0.93 50.3 149,437 0.065 0.97 52.4 409,324 26.99 55,235 21. EY 44,503 0.036 0.97 52.4 409,324 26.99 55,235 21. 20,643 0.103 0.94 52.5 6,290 3.14 47,750 22. 20,654 0.286 0.82 54.5 6,421 3.11 7,485 3.	TOTAL DEER	249,572	0.081	1.50	58.7	, 867,	17.48	166, 925	•	
72,439 0.024 0.44 26.9 13,831 0.061 0.63 38.7 448,820 9.71 51,717 24.3 13,831 0.028 0.28 20.9 14,882 0.034 0.35 25.2 20,618 0.045 0.24 20.5 20,618 0.069 0.36 29.5 149,437 0.065 0.93 50.3 38,088 0.016 0.22 16.4 409,324 26.99 55,235 21. 44,503 0.036 0.97 52.4 409,324 26.99 55,235 21. 44,503 0.036 0.97 52.4 409,324 26.99 55,235 21. 20,643 0.103 0.94 52.5 6,421 3.11 7.485 3.3	BUCK	175,304	0.057	1.05	51.8					
29,982 0.061 0.63 38.7 448,820 9.71 51,77 27.3 13.831 0.028 0.28 20.9 16.82 9.71 51,77 27.3 16.82 0.034 0.35 25.2 279,374 4.99 61,180 28. 20,616 0.045 0.24 20.5 279,374 4.99 61,180 28. 20,616 0.069 0.36 28.5 2.126,329 13.58 159,883 75. 149,437 0.065 0.93 50.3 149,324 26.99 55,235 21. 44,503 0.036 0.97 52.4 409,324 26.99 55,235 21. 20,64 3 0.103 0.94 52.5 6,421 3.11 7,485 3.	DOF	72,439	0.024	0.44	26.9			1,1	24.3	
13,631 0.028 0.28 20.9 16,682 0.034 0.35 25.2 14,089 0.045 0.24 20.5 20,616 0.069 0.36 29.5 183,631 0.081 1.15 55.2 2,126,329 13.58 159,883 75. 149,437 0.065 0.93 50.3 36,088 0.016 0.22 16.4 44,503 0.036 0.97 52.4 409,324 26.99 55,235 21. 42,443 0.103 0.94 52.5 6,42; 3:11 7,485 3.3	ARCHERY DEER	29,982	0.061	0.63	36.7	448,820	9.71	71, 11	S . # 7	
16,682 0.034 0.35 25.2 DEER 34,716 0.114 0.60 41.9 279,374 4.99 61,180 28. 20,618 0.045 0.24 20.5 20,618 0.069 0.36 29.5 183,631 0.081 1.15 55.2 2,126,329 13.58 159,883 75. 149,437 0.065 0.93 50.3 36,088 0.016 0.22 16.4 44,503 0.036 0.97 52.4 409,324 26.99 55,235 21. CEY 44,503 0.103 0.94 52.5 402,903 9.14 47,750 22. 20,640 0.286 0.82 54.5 6,421 3.11 7,485 3.3	BICK	13,631	0.028	200000-000000	20.9					
DEER 34,716 0.114 0.60 41.9 279,374 4.99 61,180 20.00 14,089 0.045 0.24 20.5 20,616 0.069 0.36 28.5 183,631 0.081 1.15 55.2 2,126,329 13.58 159,883 75. 149,437 0.065 0.93 50.3 38,088 0.016 0.22 16.4 409,324 26.99 55,235 21. CEY 44,503 0.036 0.97 52.4 409,324 26.99 55,235 21. 20,643 0.103 0.94 52.5 402,903 8.14 47,750 22. 20,644 0.286 0.82 54.5 6,421 3.11 7,485 3.	DOE	16,682	0.034		25.2					
14,089 0.045 0.24 20.5 20,618 0.069 0.36 28.5 183,631 0.081 1.15 55.2 2,126,329 13.58 159,883 75. 149,437 0.065 0.93 50.3 38,088 0.016 0.22 16.4 44,503 0.036 0.97 52.4 409,324 26.99 55,235 21. 22,126,329 3.14 47,750 22.	PRINITIVE DEER	34,716	0.114		41.9	279,374	4.99	-		
20,616 0.069 0.36 29.5 126,329 13.58 159,883 75. 149,437 0.065 0.93 50.3 152.4 409,324 26.99 55,235 21. 1990 42,443 0.103 0.94 52.5 6,421 3.11 7,485 3.	BICK	14,089	0.045		20.5					
183,631 0.081 1.15 55.2 2,126,329 13.58 159,883 75. 149,437 0.065 0.93 50.3 38,088 0.016 0.22 16.4 44,503 0.036 0.97 52.4 409,324 26.99 55,235 21. 1990 42,443 0.103 0.94 52.5 402,903 9.14 47,750 22.	,	20.616	0.069						;	
149,437 0.065 0.93 50.3 38,088 0.016 0.22 16.4 RKEY 44,503 0.036 0.97 52.4 409,324 26.99 55,235 21. 1 1990 42,443 0.103 0.94 52.5 402,903 9.14 47,750 22. 2 059 0.286 0.82 54.5 6,421 3.11 7,485 3.	OUE DEED	183.631	0.081		55.2	2,126,329	13	159,883	75.1	
38,088 0.016 0.22 16.4 44,503 0.036 0.97 52.4 409,324 26.99 55,235 21. 0 42,443 0.103 0.94 52.5 402,903 9.14 47,750 22. 2.059 0.286 0.82 54.5 6,421 3.11 7,485 3.	פונע פונע	149,437	0.065		50.3					
44,503 0.036 0.97 52.4 409,324 26.99 55,235 21. 0 42,443 0.103 0.94 52.5 402,903 9.14 47,750 22. 2.059 0.286 0.82 54.5 6,421 3.11 7,485 3.	20E	38,088	0.016							
0 42,443 0.103 0.94 52.5 402,903 9.14 47,750 42: 2,059 0.286 0.82 54.5 6,421 3.11 7,485 3.	TOTAL TURKEY	44,503	0.036	0	52.4	409,324		55,235		
2 059 0.286 0.82 54.5 6.421 3.11 7.485 3:	SPRING 1990	42,443	0.10	0	52.5	402,903	œ.	47,750	; ·	
	CA1 1 100	2,059	0.286	0	54.		e,		'n	

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

EXPANDED STATEWIDE ESTIMATES OF TOTAL HARVEST (AND THE VARIABILITY OF THE ESTIMATES) FOR ALL GAME SPECIES IN MISSISSIPPI DURING THE 1990-91 HUNTING SEASON. TABLE 2.

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

PERCENT OF TOTAL LICENSEES 800 3080 EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF DOVE HUNTING IN MISSISSIPPI DURING THE 1990-91 HUNTING SEASON TOTAL 44,035 (2,022) 830 (0.84 184 3.48 50 50 50 4.0 .088 .088 .088 20,076 (4,776) 1,982 169,033 (11,627) 1,982 28,268 (5,244) 1,982 (19,458) (19,428) 1,982 TOTAL MANDAYS 92.3 86.9 847 94.0 383 383 80 55.0 50.0 24-77 (1-43) 382 (3.28 (3.20) 27 . 70 (7 . 47) 56 32.22 (3.34) 184) (3.02) (157) 40 999 980 080 (0:40 377 (0.29 156) 690,081 (85,650) 1,988 088, 669 (80, 383) 1, 9883) 99,963 (22,956) 1,988 423,665 (63,317) 1,988 TOTAL HARVEST STATISTIC ESTIMATE (SE) N ESTIMATE (SE) N STATEWIDE TABLE 3. REGION N က

SEASON HUNTING QUAIL HUNTING IN MISSISSIPPI DURING THE 1990-91 EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF TABLE 4.

FXSO I					0.5	S	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
PERCENT HUNTERS REGION	12.0 (2.5) 175	56.6 (3.8) (75	(1.0) (1.0)	20.0 (3.0) 175	(2:2) 175	LICENSEES (11.2) (6.7) (2,055	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TOTAL	2 402 (522) 175	11,326 (1,110) (1,175)	343 (198) 175	4 004 (671) 175	1,945 (475) 175	25,706 (1,594) 2,055	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AVERAGE SEASONAL DAYS HUNTING	(0.85) 21	7.58 (1:17) 96	(2:67)	11.03 (3:10) 34	7 : 94 (2 : 19)	(0:93) (173)	1 1 1 1 1 1 1 1
TOTAL	8,941 (2,792) 1,995	83,221 (15,268) 1,995	(1; 605 1; 995 55	42,986 (13,979) 1,995	(5,575) (1,895	(21,473) 1,997	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SUCCESSFUL HUNTERS	85.7 (7.8) (21	87.8 (3.3) 99	100:00 (0:00)	91.4 (4.8)	(10:5) (10:17)	87.9 (2.4) 182	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AVERAGE SEASONAL HARVEST	(4. 72) 21	17.83 (3.17) 98	(2:60) 33)	43.09 (13.23) 35	(2:. 77)	20:82 (3:23) 181	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AVERAGE DAILY KILL	(0.84) 21	(0.38 954)	(1:57) (1:40)	(6:44 34)	1.40 (0.39) 17	(6,28) (172	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TOTAL	24, 837 (12, 327) 1, 998	199, 856 (40, 502) 1, 998	(1,626) 1,938	172, 601 (59, 721) 1, 998	21, 532 (7, 398) 1, 998	428 882 (73, 113) 2,005	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
STATISTIC	ESTIMATE (SE) N	ESTIMATE (SE) N	ESTIMATE (SE) N	ESTIMATE (SE) N	ESTIMATE (SE) N	ESTIMATE (SE)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
REGION		2		4	10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16	STATEWIDE	1 1 1 1 1 1 1 1 1 1

19.2 (7.9) 26) 26.9 (8.9 26.9 EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF WODDCOCK HUNTING IN MISSISSIPPI DURING THE 1990-91 HUNTING SEASON 228 (161) 26 4.80 (2.65) 9.50 9.50 2 (7.22) (7.22) 2,740 (1,826) 2,003 (30,045 2,045 2,045 2,045 (2,388 2,286) 2,003 11,645 (6,551) 2,003 000 000 000 000 000 00 00 00 00 00 00 60.0 24.50 50.0 89.3 (6.0) 28) 80°9 (9°5) (1.36) 55) 5.14 (1.22) 28 10.86 (3.78) 0.50 0.43 53 0.86 (0.14) 26) 0.0 4.0 4.0 2.0 2.0 (0.23) 00.8 14.0 14.0 16,986 (4,939) 2,006 STATISTIC ESTIMATE (SE) N ESTIMATE (SE) N ESTIMATE (SE) N ESTIMATE (SE) N STATEWIDE TABLE 5. REGION ~

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF RABBIT HUNTING IN MISSISSIPPI DURING THE 1990-91 HUNTING SEASON (22,000 2,344) 055 (0.53 130 130 .0.36 .70 .50 .50 94,733 (16,152) 1,965 (8,634 1,6534 9659 9659 80,418 10,5555) 34,914 (6,440) 1965 -.... -.... 88 22,59 00,259 85.9 43.0 35.0 (0.31 (0.71) (55) (15,623) (15,623) STATISTIC ESTIMATE (SE) N ESTIMATE (SE) N ESTIMATE (SE) N STATEWIDE TABLE 6. REGION

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF <u>SQUIRREL</u> HUNTING IN MISSISSIPPI DURING THE 1990-91 HUNTING SEASON

PERCENT HUNTERS PER REGION	(1:3 954 954	38:9 (1:6) 954 954	8.6 (0.9) (95.8)	22.5 (1.45) 954	(0.9) 954)	PERCENT OF TOTAL	50.0 (1.1) 2,055	1
TOTAL	23, 422 (1,558) 954	42, 806 (2, 904) 954	(1,023) (1,954	24, 807 (1,588) 954	9,577 (1,029) 954		114,287 (2,523) 2,055	
AVERAGE SEASONAL DAYS HUNTING	5.86 (0.62) 199	5.79 (0.38) 364	(0.40) (0.80) 80	5.49 (0;48) 212	4.85 (0.65) 80		(0.23) 951	
TOTAL	(17,000) (17,000) (1,963	245,577 (20,072) 1,963	38,794 (5,628) 1,963	135, 487 (14,807) 1,963	45,201 (7,797) 1,963	1	607,593 (29,455) 1,979	
PERCENT SUCCESSFUL HUNTERS	82.6 (1.8 2038)	(1:5) (370	92.7 (2.8)	91.2 (1.9) 2.15	90. 8 33.33 88.33	1	81.4 (0.9) 977	
AVERAGE SEASONAL HARVEST	14.85 (1.38) 203	(4:22 (1:16) 369	(1:20 (1:25) 81	(13.11 (11.10) 215	11.10 (1.34) 83		13.48 (0.60) 975	
AVERAGE DAILY KILL	(0.22) (199	2.35 (0,15) 362	(0,23) 79	2.35 (0,19) 212	(0.28) 80		(0.39 948	
TOTAL	348,401 (39,765) 1,979	606,553 (56,958) 1,979	104,809 (16,262) 1,979	325,636 (34,328) 1,979	106 , 427 (17, 176) 1, 979		1,590,996, (75,101) 2,003	
STATISTIC	ESTIMATE (N	ESTIMATE	ESTIMATE (SE) N	ESTIMATE (SE) N	ESTIMATE (SE)		ESTIMATE (SE) N	
REGION		2	8		o		STATEWIDE	

PERCENT OF TOTAL LICENSEES (3.8) 142 OF RACCOON HUNTING IN MISSISSIPPI DURING THE 1990-91 HUNTING SEASON (2:67) 39 (1.55 163 163 10.25 (5.27) 8 (3.92) (3.92) (5,620) 1,990 (3,743 1,990) 91.5 4.15 (4.7 88.1 11.19 8,0 7,0 0,4,0 0,4,0 (3.75) (3.75) (5.55) EXPANDED STATEWIDE AND REGIONAL SUMMARIES 0.0 0.08 7.08 7.08 00 122 160 150 150 1.17 (0.06) 00.55 20.51 32,882 (8,118) 1,996 (5.99 1.999 996 (8.00) 135, 547 (25, 018) 2, 006 12,832 (6,883) 1,996 TOTAL STATISTIC ESTIMATE (SE) N ESTIMATE (SE) N STATEWIDE TABLE 8. REGION

EG TON	STATISTIC	TOTAL	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL	AVERAGE SEASONAL DAYS HUNTING	TOTAL	PERCENT HUNTERS PER REGION
	ESTIMATE (SE)	(24, 280) (1, 999)	(0:13) (6:13)	15:89 (2:36)	88.7 (3:8)	65, 437 (10, 602) 1, 992	(0:92) (0:69)	8 118 (946) 179	39:7 (3:7) 179
2	ESTIMATE SE)	63,835 (11,890) 1,999	(0.115 (55)	8.80 (1:30) 58	93:1 (3;4) 58	52,464 (9,718) 1,992	(1.08) 55	6 632 (858) 179	32.4 -179 -179
	ESTIMATE (SE) N	2.974 (1.982)	(0.32)	3.25 (0.82) 8	(12.5) (12.5)	2,066 1,992	(0.48)	915 (323) 179	(1.55 17.90 1.55
•	ESTIMATE (SE) N	16, 245 (3, 636) 1, 999	0.99 (0.10) 30)	4.44 (0.63) 32	81.3 (7.0)	14,580 (3,424) 1,992	4.23 (0.64) 30	3 659 (642) 179	17.9 (2.8) (17.9
വ	ESTIMATE (SE) N	11, 211 (4, 700) 1, 999	1.66 (0.24) 9	10.89 (2.95) 9	80.0 (13.3)	9 (3,069 1,580 1,982	7:90 (1:97) 10	1,143 (361) 179	5.6 (1.7) 179
								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE (SE)	230,825 (27,693)	1.57 (0:10) 174	(11.04 183	88.6 (2:3) 185	145,891 (15,065) 1,997	7:24 (0:54) 176	26,040 (1,603) 2,055	(0:7) 2,055

TABLE 10. EXPANDED	D STATEWIDE	AND REGIONAL SUMP HUNTING SEASON.	EASON. MALLARDS	EXPANDED STATEVIDE AND REGIONAL SUMMARIES OF MALLARD, WOOD DUCK, DURING THE 1890-91 HUNTING SEASON. MALLARDS		AND OTHER DUCK HUNTING	¥ 8	G IN MISSISSIPPI			OTHER OTHER	v DUCKS	
REGION(1) STATISTIC		TÖTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	SUCCESSFUL HUNTERS	TOTAL	AVERAGE Daily Kill	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS
1 ESTIMATE		82,898 (17,076) 2,000	1.27 (0.12) 69	(9:21) (7:75)	78.9 (4.9)	22,880 (5,019) 1,999	0.35 (0.05) 69	(0.53) (71	53.5 (6.0) 71	23, 212 (5, 284) 2,000	0.36 (0.06) 69	2.86 (0.56) 71	56.3 (5.9)
2 ESTIMATE	~	22,640 (4,885) 2,000	(0.06) (55)	3.41 (0.59) 58	65.55 (6.3) 58	27:227 (5:021) 1:999	0.49 (0.06) 55	(0.55) (0.55) 58	79:3 (5:4) 58	13, 35, 2,000 000 000	00.24 55.06	. 0.54 (6.54)	36.2 (6.4) 58
3 ESTIMATE (SE)		1,029 2,000	(0.29)	(0.72)	50.0 (18.9)	1,830 1,999	(0:30)	(0.60) (0.80)	87.5 (12.5) 8	2,000	0.0 6 (0.05)	(0:13 8	(12:5)
ESTIMATE (SE)		2,859 2,000	(0:20) 30	(0.32) 32)	21:9 (7:4) 32	(3, 156 (3, 139) 1, 999	(0:12) 30	3:59 (0:59) 32	71.9 (8.1)	(229 2,000	(0:02) 302)	0.08 (0.06) 32	$\binom{3\cdot 1}{3\cdot 2}$
S. ESTIMATE		1 (732) 2,000	(0.07)	(0:60) (0:10)	(19.0) (19.3)	(3,645) 1,999	(0,38)	(2:68)	(15.3) 10	(2.818) (2.000)	00 20 20 20 20 20 20 20 20 20 20 20 20 2	(3:49)	(13:3) (13:3)
STATENIDE (SE)		(11,434) (17,739) 2,005	(0.78) (0.08) 175	(5:31 (0:76)	60.5 (3.6) 185	77, 484 (8, 866) 2,004	(0:81) 174	3.70 (0.34) 183	68:1 (3:4) 185	42,294 (6,885) 2,006	(0.28 (76)	(6:30) (8:30)	37.8 (3.6)

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF GOOSE HUNTING IN MISSISSIPPI DURING THE 1990-91 HUNTING SEASON. (20°0 (20°0 (50°0 0. 0. ... STATISTIC STATEWIDE REGION

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF RED FOX HUNTING IN MISSISSIPPI DURING THE 1990-91 HUNTING SEASON 258 241 241 241 241 241 .00 200 200 2.0 7.78 1.44 8.6 .46 .46 14, 157 (5, 830) 2,003 (4, 731) 2, 731) 39 2,39 361 003 361 TOTAL 280 000 000 80 80 90 90 90 90 90 50.0 (18.9) **72.7** (**9**:7) 100.0 1.38 (0.46) 22 -0 -0 -08 -08 00.50 (0.19) 8 00 66 67 67 60 0.0 0.0 0.04 0.04 00. 00. 12. 19. 19. 19. 1.50 (0.73) 2,004 2,004 799 004 004 004 TOTAL HARVEST STATISTIC ESTIMATE (SE) N ESTIMATE (SE) N ESTIMATE (SE) ESTIMATE (SE) N ESTIMATE (SE) N STATEWIDE TABLE 12. REGION n

ESTIMATE (SE) 2,003 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		TSTIC	TOTAL	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	SUCCESSFUL HUNTERS	TOTAL	AVERAGE SEASONAL DAYS HUNTING	TOTAL	PERCENT HUNTERS PER REGION
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	i i i i i	MATE E)	2 (913)	4.80 (1)	8.80	100.0	2 (22 (228 0028 033)	2.00	(411. (417.	nn 90,7-
ESTIMATE (114) 1.00 (1.00) 1.00(0) (114) 1.00 (1.00) (1.00	2 ESTI	MATE E)	1 142 (395) 2,003	0.50 (0.26) 8	(0:11)	00. 00. 00.0	(1; 197) 2; 003	(1:11) (1:11)	1 (342) (342)	(12:9) (12:5)
ESTIMATE (286) (0.13) (0.37) (24.5) (2.440) (3.447) (3.447) (2.003) (3.447) (3		MATE E)	2.003	%). %).	ر <mark>%</mark> .٠	100(0)	(114) 2,003	1:(%)	114 (114 (174	(5;9) (7,9)
ESTIMATE (114) 0.33 (1.00) (100.0) (343 3.00) (35.50) (1.00)	ESTI (S)	MATE	457 (280) 2.003	0.13 0.13	00.390 0.370 550	0.00 0.42.0 0.55.00	3, 653 (2, 416) 2,003	.e. 04.47 07.72	571 (255) 17	29.4 (11:4)
ESTEMATE (5.364) (0.22) (2.47) (3.59) (3.59) (1.25)		IMATE SE)	114 (114) 2.003	8° (- 8 <u>;</u>	100(0)	343 (343) 2,003	8. 8.	11. 44.	ກຫ ວິດປະ ວິດປະ
ESTIMATE (2.361) (0.41) (2.47) (8.59) (3.50) (1.25) (1.25)										PERCENT OF TOTAL
DI 200.7	STATEWIDE (S	IMATE SE)	(5, 361 (2, 530)	0.41 (0.22)	(1:95)	89.5 (7.5)	(2, 723) 2, 003	3.50 (1.25) 16	7,567 (903) 2,055	3.3 2.055

က်လ ထုပ်လီ EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF BOBCAT HUNTING IN MISSISSIPPI DURING THE 1990-91 HUNTING SEASON 161 45 45 (0.50) 22) (0.55 43 (0:70) (0.55) 155) 343 000 000 000 TOTAL 60 60 60 60 60 60 60 00 00 00 00 00 85.7 (14:3) (10.7) 15.7) .00.0 20.00 20.00 00.50 200 200 200 200 00 0.8 5.13 5.13 (0: 77 (0: 14) 00 0.14 0.25 0.25 (0.33 223 223 00 1-78 1-78 STATISTIC ESTIMATE (SE) N ESTIMATE (SE) N ESTIMATE (SE) N ESTIMATE (SE) N STATEWIDE TABLE 14. REGION

9 EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF COYOTE HUNTING IN MISSISSIPPI DURING THE 1990-91 HUNTING SEASON. 6,413 (845) 149 5.67 (4.30) (13.50 22.50 20.40 (6.28) 123) (0.85) (0.85) (35,224) 1,966 TOTAL **8**4 64 0≋6 15.0 0.30 0.30 8. 40. 8.4. 8.4.6 83.3 6.9 30.3 2.0 1.34 0.34 0.34 (0.33 (0.38) (0.40) (0.40) (0.04) 0.0 0.09 454 0.08 00 2007 2007 00 8€ 8€ TOTAL HARVEST STATISTIC ESTIMATE (SE) N ESTIMATE (SE) N ESTIMATE (SE) N STATEWIDE TABLE 15. REGION

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	3LE 16.	
	TABLE 16.	

PERCENT HUNTERS ER REGION	66.4 60.4 7.00	46. 86.44 86.44	(14.3) 41.7)	(2.1) (414)	5.1 (1.1) 414 FERCENT OF TOFNORFICE	/ t) t t	5 1 1 1 1 1 1 1
TOTAL HUNTERS PE	10, 430 (1,061) 414	16,326 (1,308) 414	6 (859) 414	(1, 111 (1,093) 414	2 381 (517) 4 14	51,717 (2,076) (1,936	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AVERAGE SEASONAL DAYS HUNTING	9.30 (0.95) 87	.0.06 .0.72 .40	(0:72) 56	9.68 (0.933)	9.22 2.23 2.23	(8:71) (0:41) 406	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TOTAL	. 92,507 (13,510) 1,863	(17,449) 1,863	65,636 (9,775) 1,863	104,057 (14,458) 1,863	22, 183 (5,691) 1,863	448,820 (27,239) 1,872	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
PERCENT SUCCESSFUL HUNTERS	26.1 (4.6) 92	33:3 (3:9)	49,2 (6,6) 59	37.8 (4.9) 98	47.6 (11:2)	36.7 (2.3) 425	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AVERAGE SEASONAL HARVEST	(0.46 (0.10) 92	(0,09) (44)	0.92 (0.16) 59	0.59 (0.11) 98	(0.22) 213	0.63 (0.05) 424	
AVERAGE DAILY KILL	(0.043 (0.010) 87	0.054 14008)	(0.094 (0.016)	0.058 0.011)	(0.027)	0.061 (0.005) 405	1
TOTAL	(1, 184) (1, 879	9,297 (1,573) 1,879	6-122 (1-334) 1-879	6,576 (1,408) 1,879	1,701 (639) 1,879	29,982 (2,862) 1,890	
STATISTIC	ESTIMATE (SE)	ESTIMATE (SE) N	ESTIMATE (SE) N	ESTIMATE (SE)	ESTIMATE (SE)	ESTIMATE (SE) N	
REGION	i ! !	2	•	•	S	STATEWIDE	

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EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF ARCHERY BUCK AND DOE HUNTING IN MISSISSIPPI DURING THE 1980-91 HUNTING SEASON. TABLE 17.

				BUCKS				DOES	
REGION	STATISTIC	TOTAL	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS
-	ESTIMATE (SE)	1,701 (542) 1,879	0.016 (0.005) 87	0.16 (0.05) 92)	(3:0 (3:4) (3:4)	3 061 (791) 1,879	0.027 (0.007) 87	0.29 (0.07) 92	19.6 (4:2) 92
8	ESTIMATE (SE) N	4 195 (937) 1,879	0.025 0.0055 140	0.28 145 145	18: 4:04 44:	5, 102 (988) 1, 879	0.029 (0.005) 140	(0.31 (0.06) 144	20.8 (3.4) 144
n	ESTIMATE (SE) N	2,494 1,879 1,879	0.0038 0.0038 0.0038	0.37 (0.09) 59	27:1 (5:8) 59	3,628 (781) 1,879	(0:056 (0:010) 56	00.00 50.00 50.00	(6.5) (5.5)
•	ESTIMATE (SE)	3 061 (838) 1,879	(0:007)	(0:28 (0:07)	(4:0) 98	3 515 (806) 1,879	(0.031 (0.007)	(0.32 (0.07) 98	25.5 98)
w	ESTIMATE (SE) N	1 (375) 1 (879	0.046 0.014) 214)	(0.143 (0.13) (12)	38.1 (10.9) 21	(320) 1,879	(0.034 214) 214)	(0.28 (0.12) 21)	(83.8 215.8
STATEWIDE	STATEWIDE ESTIMATE	(1,630) (1,630)	(0.028 (0.003)	(0;28 (0;03) 425	20.9 (2:0) 4255	16,582 (1,719) 1,890	0.034 (0.003) 405	0.35 (0.03) 424	25.2 (2.1) 424

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF <u>PRIMITIVE WEAPON DEER</u> HUNTING IN MISSISSIPPI DURING THE 1890-81 HUNTING SEASON. TABLE 18.

ပ္	TOTAL	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL	AVERAGE SEASONAL DAYS HUNTING	TOTAL	PERCEN HUNTER PER REGI
ESTIMATE (SE) N	7,405 (1,166) 1,870	(0:014 (0:016)	(0:57 (0:57)	40.0 (4.6) 115	61,325 (6,831) 1,855	(4:85 (0:30)	13,094 (1,183) 492	23.4 (1.9) 492
ESTIMATE (SE) N	9,683 (1,419) 1,870	(0.05 (0.014)	0.54 (0.07)	38 + 1 (3 + 9) 155	88,313 (8,786) 1,855	(5.03 (5.31)	(1; 958) (1; 358) 492	31.5 (2.15 492
ESTIMATE (SE) N	5 240 (973) 1,870	(0:022) 70	(0:64 72	47:3 (5;3)	39,276 (5,740) 1,855	4.89 (0.43) 70	8 198 (948) 492	(1.6) (492
ESTIMATE (SE) N	8,658 (1,333) 1,870	(0, 126 (0, 013) 107	0.67 (0.08) 114	47:4 (4:7)	61,784 (7,038) 1,855	(5.03 (0.33)	12,980 (1,178) 492	(23.2 492)
ESTIMATE (SE) N	1,509 1,870	0.072 (0.018) 36	0.42 (0.12) 36	30.6 (7.8) 36	24,002 (4,608) 1,855	5.81 388)	4 (099 (677) 492	6.1-3 6.25 6.25
ATE	24.7.46	,						PERCENT OF LITCENSEES
(SE) N	(2,566) 1,890	(0:007) 492	00.00 50.00 10.000	(21.8 51.2 11.3	279,374 (13,976) 1,872	(0:16) 492	61, 180 (2, 191) 1, 936	28.7 (1.0) 1,936

25 73 36 36 36 850 0.50 0.50 29.2 (5.4) (0.07) 00.37 1.08 1.08 00 30 30 30 30 30 30 (0.35 (0.03) 511 00.34 1555 1555 EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF <u>PRIMITIVE WEAPON BUCK AND DOE</u> HUNTING IN MISSISSIPPI DURING THE 1980-91 HUNTING SEASON. 00. 40.34 10.02 DOES 0.070 0.045) 70 (0.057 10.00 10.00 10.00 0.069 (0.010) (0.049) 107) 0.0 0.018 80.08 (0.069 (0.005) 20,616 (1,743) 1,891 4 782 (890) 1 871 2,733 (621) 1,871 රු වැඩ පැම්වි (1:8) 511 (3.8 155) 26.4 (5.2) 72) 4.4 4.14 (0.24 5.02) 0.19 (0.04) 00 00.4 00.4 00 0.08 4.08 8.08 (0.31 (0.96) 72 0.23 15 15 15 BUCKS 0.047 100.047 0.058 (0.013) 70 (0:058 107) 0.036 (0.007) (0.024 (0.009) 00 TOTAL 2,962 (661) 1,870 3 645 (716) 1,870 2,506 (600) 1,870 3 873 (768) 1,870 STATISTIC ESTIMATE (SE) N ESTIMATE (SE) ESTIMATE (SE) ESTIMATE (SE) ESTIMATE (SE) N STATEWIDE TABLE 19. REGION T)

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF <u>REGULAR GUN DEER</u> HUNTING IN MISSISSIPPI DURING THE 1990-81 HUNTING SEASON. TABLE 20.

·	STATISTIC	TOTAL	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL	SEASONAL DAYS HUNTING	TOTAL	PERCENT HUNTER PER REGIO
	ESTIMATE (SE) N	40, 284 (3, 765) 1, 835	0.097 (0.007) 252	1:31 (0:10) 264	59 (33.0 264 (264)	400, 463 (29, 150) 1, 781	13:23 (0:58) 2:53	30, 664 (1,743) 1,358	19:5 1,358
7	ESTIMATE (SE) N	59.091 (4,062) 1,835	0.068 (0.004) 497	0.96 (0.06) 522	(20.9 (20.2) (20.2)	800,089 (41,586) 1,781	(0:48) 498)	(2,240) (1,358	38.55 1,358
•	ESTIMATE (SE) N	27, 282 (3, 061) 1, 835	(0,008) (5,008)	(6,12) (157)	69.8 (3.7) 159	254,296 (24,209) 1,781	(0:77) (153	(1,395) (1,395) (358)	(0:9) 1,358
	ESTIMATE (SE) N	43,535 (3,591) 1,835	0:080 (0:005) 297	(0,08) 313	56.2 (2.8) 313	511,942 (33,974) 1,781	14:41 (0:58) 297	35,219 (1,865) 1,358	23.0 (1:1) 1,358
ហ	ESTIMATE (SE) N	9, 287 1, 679) 1, 835	0.054 (0.011)	0.82 (0.17) 97	39.2 (5.0) 97)	(20,348) (1,781	14.99 (0.97)	(1,110) (1,110) 1,358	(0.7) 1,358
									PERCENT OF TOTAL
STATEWIDE	ESTIMATE (SE)	183, 631 (6, 815) 1,884	0.081 (0.003) 1,336	1.15 (0.04) 1,403	55:2 (1:3) 1,407	2,126,329 (52,081) 1,824	13.58 (0.27) 1,341	159,883 (2,096) 1,936	75. 1,93.

AND REGIONAL SUMMARIES OF <u>REGULAR GUN BUCK AND DOE</u> HUNTING IN MISSISSIPPI HUNTING SEASON. EXPANDED STATEWIDE DURING THE 1990-91 21. TABLE

			BUCKS			000000000000000000000000000000000000000	DOES	
REGION STATISTIC	TOTAL IC HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	SUCCESSFUL SUCCESSFUL HUNTERS	TOTAL	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS
i 1 1	28,760 (2,824) 1,837	0.069 (0.005) 253	0.94 0.08) 265	50.2 (3.1) 265	11,468 (1,596) 1,839	0.028 (0.004) 252	0.38 (0.05) 264	26.5 (2.7) 264
2 ESTIMATE (SE)	50, 445 (3, 499) 1,837	0.058 (0.003) 497	(0:82 (0:05) 522	47.2 (22.2) 52.3	8,572 (1,221) 1,839	(0.001) (0.001) 498	0.14 (0.02) 523	11.9 (4:1) 523
3 ESTIMATE (SE)	21, 222 (2, 374) 1, 837	(0.006) (0.006) 151	(0:13) (15)	83.5 (3:8) 159	6,024 (1,090) 1,839	(0.024 (0.004) 153	00. 00. 00.032 00.032	(3.3) 159
4 ESTIMATE	38,385 (3,4833) 1,8337	(0.070 2975)	(0,08) (313)	53.0 (2.8) 313	6,487 (1,012) 1,839	(0.002) 297	(0.18 (0.18 (0.18 (0.18	(15°0) 3130)
S ESTIMATE (SE)	E 8,582 (1,979) 1,837	(0.050 (0.010) 96	0.76 (0.16) 97	38.1 (5.9)	(283) 1,839	0.00 0.0029 96 6	(0.03) 97	(2,5)
STATEWIDE ESTIMATE	E 149, 437 (5,815)	0.065 (0.002) 1,337	(0.93 (0.03) (404	50.3 (1.39)	35,088 (2,702) 1,889	0.016 (0.001) 1,340	(0.22) 1,407)	(5:4 (409)

								3.5.4.4.4.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.	
REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL	SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
-	ESTIMATE (SE)	6.631 (1,371) 1,789	.0.114 (0.015) 59	0.80 (0.15)	(8:5) (6:5)	(10,021) 1,782	(0.98) (0.98)	7 (355 (926) 368	16.6 (1.9) 368
2	ESTIWATE (SE)	10,007 (1,587) 1,789	0.082 0.010 108	(0:76 (0:10)	45.0 (4.8) 109	(15,315) (15,315) 1,782	9.27 (0.79) 108	(1;220) 368	29.6 (2.4) 368
ø	ESTIMATE (SE)	6,873 (1,189) (1,789	0.122 (0.015) 57	0.97 (0.11) 59	64.4 (6.3) 59	54,470 (8,517) 1,782	7.89 (0.69)	7 (114 (911) 368	16.0 (1.9) 368
4	ESTIMATE (SE)	16, 398 (2, 156) 1,789	(0.017 (0.012)	1.16 0.113 118	56.9 (4.6) 116	138,113 (18,117) 1,782	10.01 (0.95) 114	13,986 (1,256) 368)	31.5 (2.4) 368
Ŋ	ESTIMATE (SE) N	2,050 (691) 1,789	(0.022) (232)	(0.20) (2.20) (2.33)	47.8 (10.6) 23	26, 267 (6, 751) 1, 782	9.43 (4.47) (23	2,773 (575) 368	6.3 (1.3) 368
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								PERCENT OF TOTAL LICENSEES(A)

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

47,750 (2,097) 1,825

402,903 (26,991) 1,786

(22.5 373 373

0.94 (0.06) 373

42,443 (3,222) 1,794

ESTIMATE (SE)

STATEWIDE

FALL TURKEY HUNTING IN MISSISSIPPI DURING THE 1990 HUNTING SEASON P REGIONAL SUMMARIES AND EXPANDED STATEWIDE TABLE 23.

PERCENT HUNTERS PER REGION	(11:0) (11:0)	31.8 100 001	PERCENT OF TOTAL LICENSEES(B)	3.5 1,907
TOTAL	1 490 (412) 19	(288 280) 190)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 485 1 898) 1,907
			# 1 1 1 1 1 1	
AVERAGE SEASONAL DAYS HUNTING	(0:82 (0:82)	(0.37)	1 1 1 1 1 1	3.11 (0.55)
TOTAL	(1,738) (1,856	1 033 1 856	1 1 1 1 1 1	6,421 (1,855) 1,858
PERCENT SUCCESSFUL HUNTERS	(138.2 (13.3)	0.0 0.0 0.0	1 1 1 1 1 1	54.5 (10,9)
SUCCE	8	.	; ; ; ; ; ;	, 55 15 15 15 15 15 15 15 15 15 15 15 15 1
AVERAGE SEASONAL HARVEST	(0.26) 13	000 000 000 000	1	0.82 (0.19)
AVERAGE DAILY KILL	0.333 (0.087) 11	000 000 1000 1000	t 1 1 1 1 1 1	0.286 (0.067)
i		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1	
TOTAL	1, 6004 (5883) 1, 8593	1,85	1	2,059 (646) 1,862
STATISTIC	ESTIMATE (SE) N	ESTIMATE (SE) N	1 1 1 1 1 1 1 1 1	ESTIMATE (SE) N
REGION(A)	-	c	1 1 2 3 3 3 1 1 1	STATEWIDE (SE)

CALCULATED AS A PERCENT OF BIG GAME LICENSE HOLDERS ONLY

SPECIES	STATISTIC	TOTAL	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL	AVERAGE SEASONAL DAYS HUNTING	TOTAL	PERCENT OF TOTAL LICENSEES(A)
DEER	ESTIMATE (SE) N	249,572 (9,041) 1,883	0.081 (0.003) 1,395	1.50 (0.05) 1,466	58:7 (1:3) 1,471	2.867,243 (72,557) 1,820	17:48 (0:38) 1,401	166,925 (1,994) 1,936	78.4 (0.9) 1,936
BÜCK	ESTIMATE (SE)	175,304 (6,581) 1,886	(0.067 (1,397	1:05 (0:04) 1,468	51.8 1,472				
DOE	ESTIMATE (SE)	(3, 439 (3, 935) (3, 888)	(0.024 1,399	0:44 1,470 1,470	26.8 (1,2) 1,470				
TURKEY	ESTIMATE (SE) N	(3,285)	(0.038 3812)	0.97 (0,06) 395	52. 2.5. 53.50	409;324 (27;055)	26.99 (9.19) 389	55, 235 (2, 281) 2, 041	21.7 (0.9) 2,041



1990-91 MISSISSIPPI HUNTER QUESTIONNAIRE

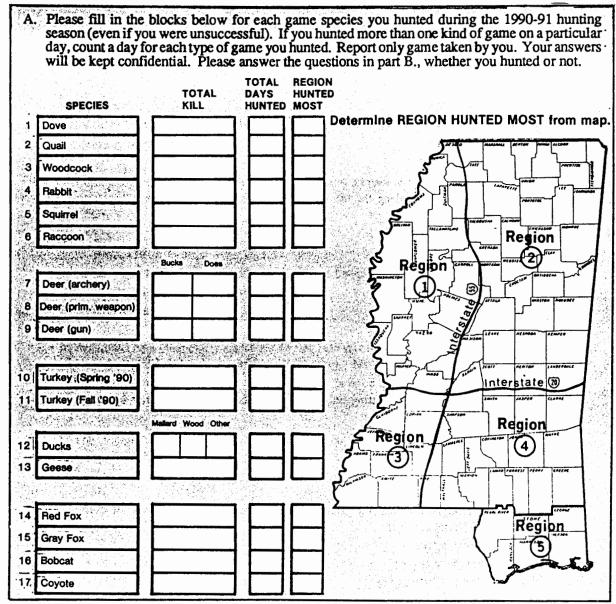


Fig. 1 Questionnaire used for the 1990-91 mail survey of game harvest and hunter effort in Mississippi.

B. Please answer the following:	8. Have you seen a black bear in Mississippi 1990)?
	□ Yes
1. When did you hunt doves opening weekend (September 1, 2, or 3)?	oN □
	If yes, in what county did the sight
□ Both morning and afternoon	
□ Did not hunt	County
2. Did you hunt doves during the rest of the first season (September 4 - 23)?	9. Would you be willing to give more details
	□ Yes
	If yes,
3. Did you hunt doves during the second season (October 13 - 27)?	Name (Please Print)
□ Yes □ No	Daytime phone number
	10. Have you or anyone in your home watcher "Mississipp
4. Did you hunt doves during the third season (December 22 - January 9)?	Outdoors"?
□ Yes	
	L res
16 dave hunting were only allowed mornings or afternoons, which would you	If yes, which would you like to set More outdoor filming
prefer?	☐ More studio interviews
☐ Mornings only	□ OK as it is
□Not sure	 Would you be willing to pay a \$5-9 fee for onsippi Depar ment of Wildlife, Fisheries and Parks' Ma?
6. Would you support a dove hunting schedule where Saturday and Sunday of opening	□ Yes
weekend was afternoon hunting only followed by full day hunting after opening	°N 🗆
WCCKSINJ:	
. Sa C	12. The 1990-91 hunting seasons have ended. Leer or turke in the 1080-00 (last year) hinting seasons'
□ Not sure	Tyes
	□ No
7. Would you support a deer bag limit of 4 bucks and 4 does rather than the current limit of 5 bucks and 3 does?	
Strongly soree	13. Your age:years
☐ Moderately agree	
☐ Moderately disagree	
☐ Strongly disagree	
□No opinion	



STATE OF MISSISSIPPI Department of Wildlife, Fisheries and Parks

RAY MABUS Governor

Dear Sportsman:

The Department of Wildlife, Fisheries and Parks is conducting a study to obtain reasonable estimates of game harvest, hunter effort and hunter opinions. Information supplied by you and other 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. 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

 $m{c}$ ting Executive $m{b}$ irector

JH:ccs

Enclosure

Fig. 2 Cover letter mailed with the initial mailing of the 1990-91 survey of game harvest and hunter effort in Mississippi.

Survey Section DEPARTMENT OF WILDLIFE, FISHERIES & PARKS

P. O. Box 451 JACKSON, MISSISSIPPI 39205



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

Dear Sportsman:

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

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

Jack Herring Acting Executive Director

Fig. 3 Post card used as the first reminder mailing to nonrespondents during the 1990-91 survey of game harvest and hunter effort in Mississippi.



STATE OF MISSISSIPPI Department of Wildlife, Fisheries and Parks

RAY MABUS Governor

Dear Sportsman:

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

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

I am writing to you again because of the significance each questionnaire has to the usefulness of this project. Your name was drawn through a scientific sampling process. In order for the results of this survey to be as complete as possible it is essential that each person in the sample return 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

acting Executive hirector

JH:ccs

Enclosure

Fig. 4 Cover letter mailed with the second (and final) reminder mailing to non respondents during the 1990-91 survey of game harvest and hunter effort in Mississippi.

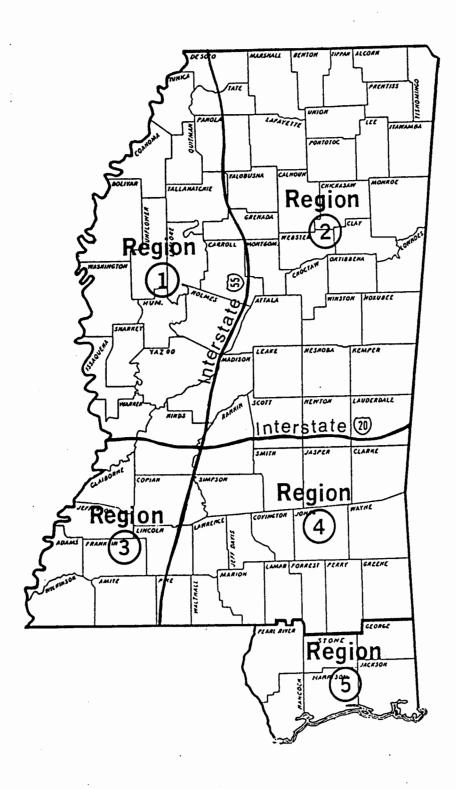


Fig. 5 Regional partitions utilized for region hunter most.