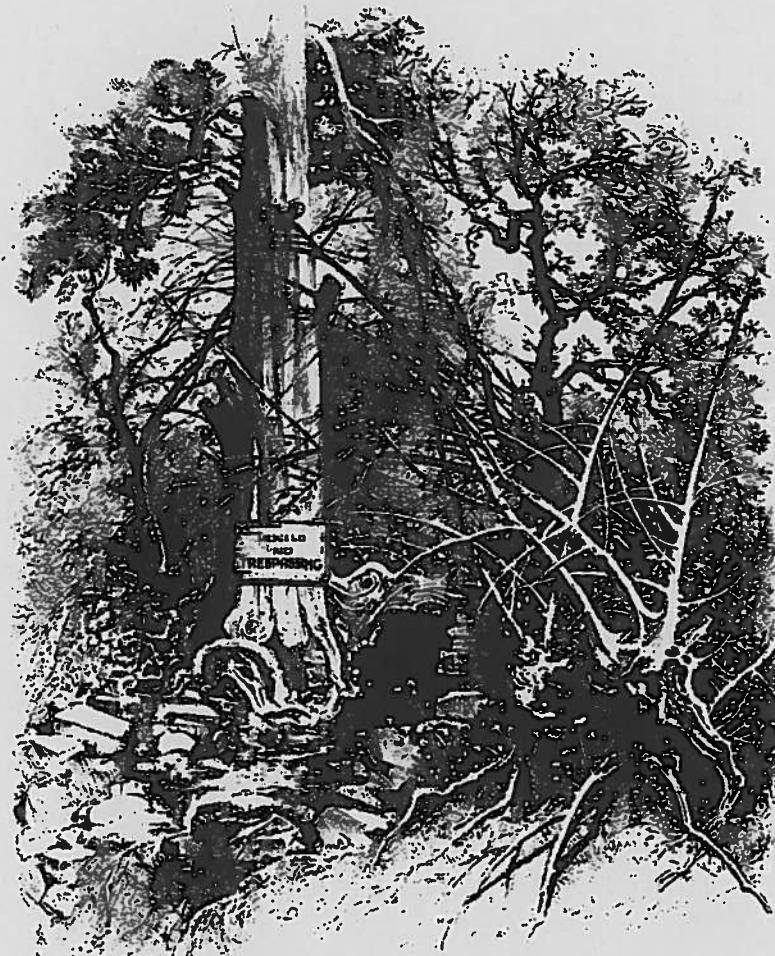


Virginia Survey of Hunter Harvest, Effort, and Attitudes

1999-2000



**Center for Recreation Resources Policy
George Mason University**

**Virginia Department of Game and Inland Fisheries
January 2001**

Virginia Survey of Hunter Harvest, Effort, and Attitudes

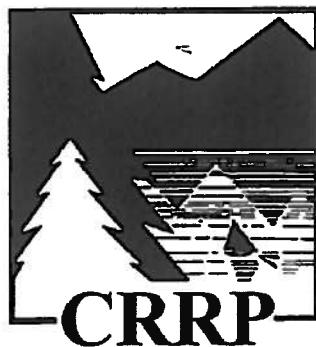
1999-2000

Conducted For:



Virginia Department of Game and Inland Fisheries

Wildlife Division
Richmond, Virginia



Center for Recreation Resources Policy

George Mason University
Manassas, Virginia
Dr. Brett A. Wright, Director

January 2001

Contributors

Brett A. Wright, Ph.D. was the Principal Investigator and is Director of GMU's Center for Recreation Resources Policy.

Neal D. Emerald, Research Associate, Center for Recreation Resources Policy was the Project Director, responsible for day-to-day management, computer applications, and compiled all data into the various tables which illustrate the study.

Sarah P. Mott, M.S., Research Associate, Center for Recreation Resources Policy, was responsible for survey instrument layout and assisted with data collection.

David E. Steffen, M.S. served as liaison and consultant to the study and is Forest Wildlife Program Manager, Virginia Dept. of Game and Inland Fisheries, Vinton, VA.

Acknowledgments

The authors would like to express their appreciation to the many people who assisted in the conduct of this study. They are: Frances Boswell, Bob Duncan, Kim Echhols, Bob Ellis, Randy Farrar, Jason Fischer, Matt Knox, David Kocka, Dennis Martin, Gary Norman, Ken Perry, Leah Davis Talbott, Sandy Smith, and Ruth Potter. We would also like to thank Robert and Illene McFarland of Franklin Printing in Chantilly, VA; Joanne Murray of Murmack Inc., in Herndon, VA; and Leif Agard of Best Mailing Services in Lynchburg, VA. Without their dedication and perseverance, this study would not have been possible.



**This publication was funded in part by funds provided
by
Pittman-Robertson Federal Aid to Wildlife Restoration
Project-WE99R**

Table of Contents

	<u>Page</u>
Contributors	ii
List of Tables	iv
Introduction	1
Methods	1
Generation of the Sample	1
Development of Survey Instrument	2
Administration of the Survey	3
Response Rate	3
Data Analysis	3
Results.....	4
Notes	5
Figure 1.	6
References	54
Appendix	55

List of Tables

<u>Table</u>		<u>Page</u>
1	1998-99 Hunting Population and Survey Sample Statistics	2
2	Distribution of Hunting License Holders Among Three License Categories, 1999-2000	4
3	Expanded Statewide Summary of the 1999-2000 Virginia Survey of Game Harvest Based on 252,904 License Holders	7
4	Expanded Statewide Estimates of Total Harvest (with Standard Errors) for Virginia Game Species During 1999-2000	8
5	Expanded Statewide and Regional Summaries of DOVE Hunting in Virginia During the 1999-2000 Hunting Season	9
6	Expanded Statewide and Regional Summaries of QUAIL Hunting in Virginia During the 1999-2000 Hunting Season	10
7	Expanded Statewide and Regional Summaries of WOODCOCK Hunting in Virginia During the 1999-2000 Hunting Season	11
8	Expanded Statewide and Regional Summaries of RUFFED GROUSE Hunting in Virginia During the 1999-2000 Hunting Season	12
9	Expanded Statewide and Regional Summaries of CROW Hunting in Virginia During the 1999-2000 Hunting Season	13
10	Expanded Statewide and Regional Summaries of RABBIT Hunting in Virginia During the 1999-2000 Hunting Season	14

<u>Table</u>		<u>Page</u>
11	Expanded Statewide and Regional Summaries of GRAY SQUIRREL Hunting in Virginia During the 1999-2000 Hunting Season	15
12	Expanded Statewide and Regional Summaries of FOX SQUIRREL Hunting in Virginia During the 1999-2000 Hunting Season	16
13	Expanded Statewide and Regional Summaries of GROUNDHOG/WOODCHUCK Hunting in Virginia During the 1999-2000 Hunting Season	17
14	Expanded Statewide and Regional Summaries of ARCHERY DEER Hunting in Virginia During the 1999-2000 Hunting Season	18
15	Expanded Statewide and Regional Summaries of ARCHERY DEER (BUCK) Hunting in Virginia During the 1999-2000 Hunting Season	19
16	Expanded Statewide and Regional Summaries of ARCHERY DEER (DOE) Hunting in Virginia During the 1999-2000 Hunting Season	20
17	Expanded Statewide and Regional Summaries of MUZZLELOADER DEER Hunting in Virginia During the 1999-2000 Hunting Season	21
18	Expanded Statewide and Regional Summaries of MUZZLELOADER DEER (BUCK) Hunting in Virginia During the 1999-2000 Hunting Season	22
19	Expanded Statewide and Regional Summaries of MUZZLELOADER DEER (DOE) Hunting in Virginia During the 1999-2000 Hunting Season	23
20	Expanded Statewide and Regional Summaries of GUN DEER Hunting in Virginia During the 1999-2000 Hunting Season	24

<u>Table</u>		<u>Page</u>
21	Expanded Statewide and Regional Summaries of GUN DEER (BUCK) Hunting in Virginia During the 1999-2000 Hunting Season	25
22	Expanded Statewide and Regional Summaries of GUN DEER (DOE) Hunting in Virginia During the 1999-2000 Hunting Season	26
23	Expanded Statewide Summary of TOTAL DEER Hunting in Virginia During the 1999-2000 Hunting Season	27
24	Expanded Statewide Summary of TOTAL DEER (BUCKS) Hunting in Virginia During the 1999-2000 Hunting Season	27
25	Expanded Statewide Summary of TOTAL DEER (DOES) Hunting in Virginia During the 1999-2000 Hunting Season	27
26	Expanded Statewide and Regional Summaries of SPRING TURKEY (1999) Hunting in Virginia During the 1999-2000 Hunting Season	28
27	Expanded Statewide and Regional Summaries of FALL TURKEY (1999) Hunting in Virginia During the 1999-2000 Hunting Season	29
28	Expanded Statewide and Regional Summaries of SPRING TURKEY (2000) Hunting in Virginia During the 1999-2000 Hunting Season	30
29	Expanded Statewide and Regional Summaries of BEAR Hunting in Virginia During the 1999-2000 Hunting Season	31
30	Expanded Statewide and Regional Summaries of TOTAL DUCK Hunting in Virginia During the 1999-2000 Hunting Season	32

<u>Table</u>		<u>Page</u>
31	Expanded Statewide and Regional Summaries of MALLARD DUCK Hunting in Virginia During the 1999-2000 Hunting Season	33
32	Expanded Statewide and Regional Summaries of WOOD DUCK Hunting in Virginia During the 1999-2000 Hunting Season	34
33	Expanded Statewide and Regional Summaries of BLACK DUCK Hunting in Virginia During the 1999-2000 Hunting Season	35
34	Expanded Statewide and Regional Summaries of ALL OTHER DUCK Hunting in Virginia During the 1999-2000 Hunting Season	36
35	Expanded Statewide and Regional Summaries of GOOSE: SEPTEMBER Hunting in Virginia During the 1999-2000 Hunting Season	37
36	Expanded Statewide and Regional Summaries of GOOSE: NOVEMBER-MARCH Hunting in Virginia During the 1999-2000 Hunting Season	38
37	Expanded Statewide and Regional Summaries of RED FOX Hunting in Virginia During the 1999-2000 Hunting Season	39
38	Expanded Statewide and Regional Summaries of GRAY FOX Hunting in Virginia During the 1999-2000 Hunting Season	40
39	Expanded Statewide and Regional Summaries of COYOTE Hunting in Virginia During the 1999-2000 Hunting Season	41
40	Expanded Statewide and Regional Summaries of RACCOON Hunting in Virginia During the 1999-2000 Hunting Season	42
41	Expanded Statewide and Regional Summaries of BOBCAT Hunting in Virginia During the 1999-2000 Hunting Season	43

<u>Table</u>		<u>Page</u>
42	Expanded Statewide Summary of TOTAL SQUIRREL Hunting in Virginia During the 1999-2000 Hunting Season	44
43	Expanded Statewide Summary of TOTAL GOOSE Hunting in Virginia During the 1999-2000 Hunting Season	44
44	Opinions of Gun Deer Hunters Regarding Appropriate Length of Gun Deer Season in Western Zone	45
45	Perceptions of Deer Hunters Regarding Overall Quality of Gun Deer Hunting During 1999-2000	45
46	Statewide and Regional Summaries of Gun Deer Hunters Who Took a Young Person Hunting More Often in 1999-2000 Due to a New Regulation That Allows Young Hunters to Harvest Antlerless Deer Anytime During the Season	45
47	Mean Number of Animals Seen by Archery Deer Hunters in 1999-2000 Hunting Season by Region	46
48	Perceptions of Fall Turkey Hunters Regarding Overall Quality of 1999 Fall Turkey Season	46
49	Perceptions of Spring Turkey Hunters Regarding Overall Quality of 2000 Spring Turkey Season	46
50	Percentage of Bear Hunters Utilizing Selected Methods/Seasons	47
51	Opinions of All Hunters Regarding the Degree to Which They Approve or Disapprove of Legal Trapping	47
52	Statewide and Regional Summaries of Red Foxes Harvested Utilizing Selected Methods/Seasons	47
53	Statewide and Regional Summaries of Gray Foxes Harvested Utilizing Selected Methods/Seasons	47

<u>Table</u>		<u>Page</u>
54	Percentage of Time Spent Hunting For Selected Species by Types of Land	48
55	Percentage of Animals Harvested by Types of Land	48
56	Statewide Summary of Hunters' Perceptions Regarding Why They Hunted on Selected Types of Land in 1999-2000	49
57	Hunters Perceptions Regarding Overall Quality of Hunting on Selected Types of Land	50
58	Perceptions of Deer Hunters Who Are Users And Non-Users Regarding the Number of Deer Hunters Seen on Selected Types Land	50
59	Statewide and Regional Summaries of Hunters Hunting on Corporate Land as a Member of a Hunt Club in 1999-2000	51
60	Statewide and Regional Summaries of Hunters Hunting on Private Land as a Member of a Hunt Club in 1999-2000	51
61	Percentages of All Hunters Who Hunted Game Birds on a Licensed Private Shooting Preserve During the 1999-2000 Hunting Season	52
62	Percentage of Shooting Preserve Hunters Who Hunted Wild Bobwhite Quail on Other Lands Outside a Preserve During the 1999-2000 Hunting Season	52
63	Selected Demographics of All Respondents	53
64	Statewide Summary of Current Residences of All Hunters, 1999-2000	53
65	Statewide Summary of Land Ownership Suitable For Hunting 1999-2000	53

Virginia Survey of Hunter Harvest, Effort and Attitudes 1999-2000

The Department of Game and Inland Fisheries, the agency primarily responsible for managing the state's fish and wildlife resources, depends upon accurate population indices to monitor the health of wildlife species. Various techniques are used annually to establish indices of population numbers. Walking transects, enumerating the presence of species by counting tracks, droppings, etc. within quadrants, and conducting call counts along highways are excellent examples of these techniques (for a detailed analysis of estimating wildlife populations, see Davis and Winstead 1980).

Another group of indices important to wildlife managers involves precise estimates of harvest and hunter efforts. Game harvest surveys collect data which are used to generate indices that can be used to monitor changes in harvest and hunter effort across seasons. These data, in turn, can be used to regulate harvests, evaluate habitat conditions, and monitor various aspects of the socio-economic environment (Steffen, 1987:7).

Although some researchers have attempted to estimate game harvests through unobtrusive observation techniques (see Jackson and Norton, 1979), and some management areas are conducive to conducting counts at check stations, this is not feasible for producing statewide or regional estimates. Therefore, game harvest surveys are typically conducted through the use of mail questionnaires. Filion (1980) provides an excellent overview of the use of human surveys in wildlife management.

The purpose of this study was to:

- (a) estimate game harvest and hunter effort indices for major game and furbearing species in Virginia; and,
- (b) collect and analyze other socio-psychological data deemed important to the agency, such as hunters' satisfaction, attitudes, beliefs, preferences, and constraints.

Methods

Generation of the Sample

A random sample of 4,095 Virginia hunters was drawn from license records maintained by the Administrative Services Division of the Department of Game and Inland Fisheries. A stratified, random sampling design was developed to select potential survey participants from these files. All persons who purchased a general state resident hunting license, a county-city license, or a senior license for the 1998-99 season were eligible to be drawn ($N = 259,180$). To ensure the representativeness of the sample, the number of license holders within each of the three categories was determined and the number of names selected was proportionate to the number of licenses sold (see Table 1).

Consideration was also given to ensuring the representativeness of the sample geographically across the state. The most preferred method would be to select hunters based on where they hunted; but, there was no way to determine the distribution of hunting across the state. The most feasible strategy, then, was to select hunters proportionately, based on where they purchased their license (i.e., if a license agent sold 2% of the total licenses within one of the

Table 1.
1998-1999 Hunting Population and Survey Sample Statistics

License Type	Population	Sample	Pct.
State Resident Licenses	230,802	3,645	89%
County/City Licenses	14,652	233	5.7%
Senior (65+) Licenses	13,726	217	5.3%
<hr/>			
TOTALS	259,180	4,095	100%

three categories, then 100 license holders - 2% of 5,000 - were drawn from that license agent's returned license stubs). The social security number of each hunter selected was entered into a computer file and submitted to the Virginia Department of Motor Vehicles (DMV). The DMV, in turn, provided researchers with names and addresses of all hunters selected. In general, the sampling procedures used in this study were built upon the work described by Steffen (1987) in Mississippi.

Development of Survey Instrument

A survey instrument was developed to collect harvest data for selected Virginia game and furbearing species. The design of this instrument was developed to allow the replication of this data collection effort on an annual basis. Game harvest data served as the core of the survey instrument. However, hunter effort data, preferences for seasons and bag limits, and other socio-economic data were collected as well. VDGIF staff biologists and administrators were polled to determine general areas of needed data and used to refine the instrument (Appendix A).

Administration of the Survey

Procedures outlined by Dillman (1978) were employed to collect the data. A questionnaire, a self-addressed pre-stamped envelope, and a personalized cover letter explaining the importance of the study were mailed to each of the 4,095 study participants. One week after the initial mailing, a post card reminder was sent to each person to encourage early response. Non-respondents to the first mailing were identified and two follow-up mailings were sent, when necessary.

Response Rate

By the end of the data collection period, a total of 183 surveys were returned as undeliverable (persons moved, wrong address given, etc.). They were removed from the original sample. Another 2,329 questionnaires were returned by addressees. Of that total, 313 persons either did not purchase a license in 1998-99 (298 persons/12.8%) or refused to complete the survey (15 persons/0.65%), and were subsequently removed from the sample as well. Consequently, a total of 1,998 usable questionnaires were received, resulting in an effective response rate of 55.7% (effective n = 3,573).

Data Analyses

Data from returned questionnaires were entered into a computer file and analyzed using standard statistical techniques. Estimates of state-wide and regional harvests of each species were generated with the level of precision (standard error) of each estimate specified. Estimates were based on the total licenses sold within the three categories (state resident, county/city, and senior) as depicted in Table 2.

Table 2.
Distribution of Hunting License Holders
Among Three License Categories, 1999-2000

	Population	Pct.
State Resident Licenses	226,570	89.6%
County/City Licenses	13,022	5.1%
Senior (65+) Licenses	13,312	5.3%
TOTALS	252,904	100%

Regional comparisons were made based on the five regions of Virginia depicted in Figure 1. For a detailed account of the statistical formulas used for specific statewide and regional calculations of estimates and standard errors, readers are encouraged to see Steffen (1987).

Results

Results are provided on the following pages in tabular form. Analyses are segmented into two sections of information. The first section provides estimates and standard errors of harvest and effort for 40 game species (or subpopulations of game animals) during the 1999-2000 hunting seasons. Statewide summaries are shown in Tables 3 and 4. Regional estimates are provided in Tables 5-43.

The second section assesses hunters' preferences for selected season dates, bag limits, game management strategies, and other data pertinent to management of hunting in Virginia. This information is included in Tables 44-65.

Notes

Several important points should be considered when interpreting the tables. They are summarized below.

1. When considering statistics given in this report, it is important to remember that they should not be viewed as absolute numbers, especially when comparing these statistics with other statistics from other studies. Rather, the data provided here are only indices of harvest and effort, for use in conjunction with past and future mail surveys in this ongoing research project to determine trends. Response and non-response biases exist in all survey efforts. However, when care is taken to fully replicate study methods in subsequent studies, biases should be constant, therefore providing indices of trends over time.
2. Total Harvest and Total Man-Days statistics are derived from a formula utilizing the total number of licenses sold for the 1998-99 hunting season ($n=252,904$). However, the statistics reported for Spring Turkey (1999) used a factor of 259,180 since this season was actually during the 1998-99 hunting season. Total Harvest statistics include all animals harvested regardless of whether or not a hunter was hunting specifically for that animal (incidental kills).
3. Statistics for (a) Average Daily Kill, (b) Average Seasonal Harvest, (c) Percent Successful Hunters, (d) Average Seasonal Days Hunting, (e) Total Hunters, and (f) Percent of Total Licenses/Hunters Per Region were calculated using data only from those hunters who reported hunting specifically for that game animal.
4. Totals may not always total 100 percent due to rounding errors or missing values.
5. Regions were renumbered after the 1993-94 study. The composition of the regions, however, is consistent among studies. Please refer to the map included as part of the survey instrument, included as Appendix A.
6. Missing regional data for each species hunted were treated differently prior to the 1997-98 study. Beginning with the 1997-98 survey, respondents who did not provide information regarding the region where they hunted a particular species were eliminated from the regional estimates provided in Tables 5-41. Compared to previous surveys, this change particularly impacted the regional estimates reported for Average Daily Kill, Average Seasonal Harvest, Pct. Successful, Average Seasonal Days, and Total Hunters. While the parameter estimates for averages and totals remained approximately the same, the standard errors for these estimates generally increased. Care should be taken when comparing these regional data with regional data from previous studies conducted from 1993-94 through 1996-97. The statewide estimators remained unaffected by this change.
7. Parenthetical notations displayed immediately following table number (e.g., Q24) refer to question numbers in the survey instrument.

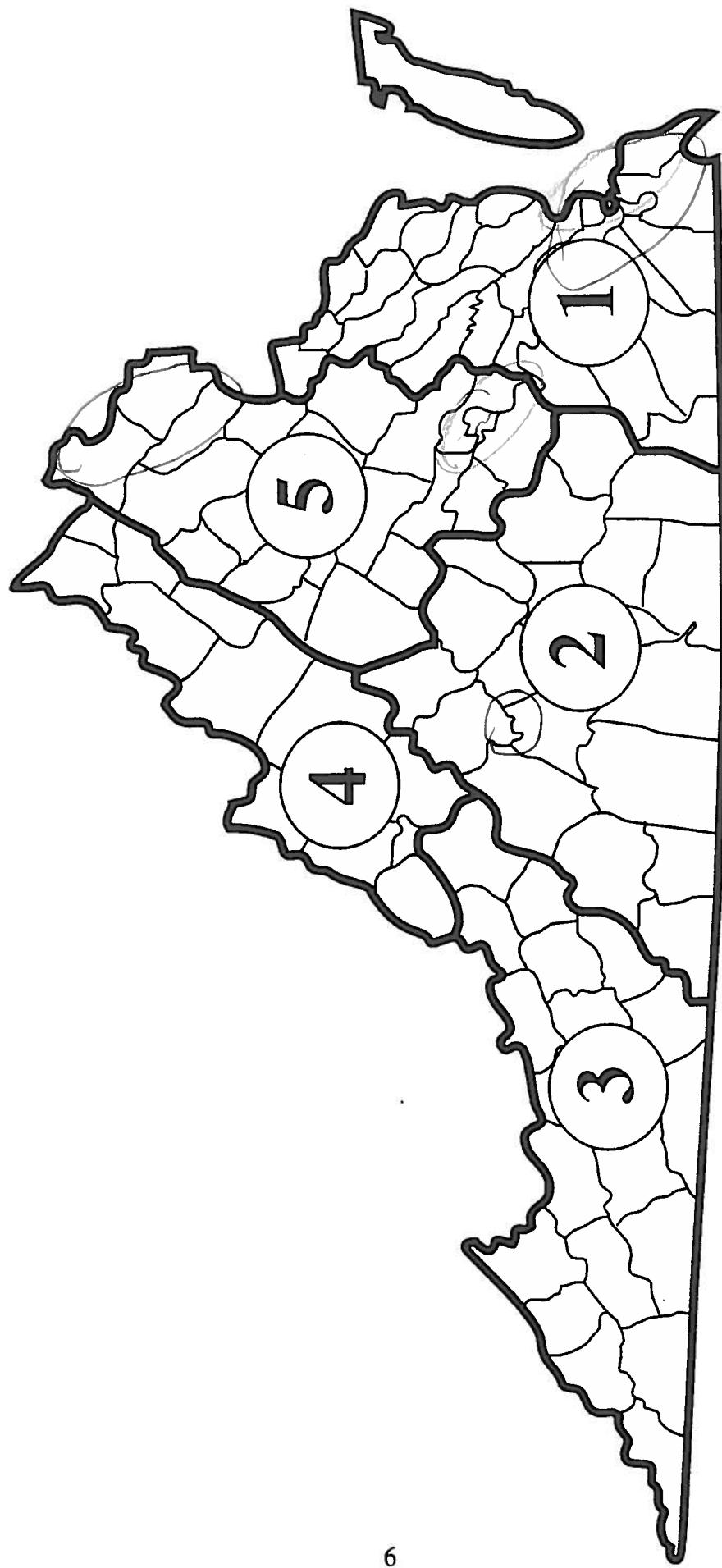


Figure 1

TABLE 3. EXPANDED STATEWIDE SUMMARY OF THE 1999-2000 VA SURVEY OF GAME HARVEST BASED ON 252,904 LICENSE HOLDERS.

SPECIES	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT TOTAL LICENSEES
DOVE	807,005	4.490	17.00	81.8	177,033	3.79	46,768	18.5
QUAIL	110,566	1.174	5.33	55.9	82,480	4.54	18,174	7.2
WOODCOCK	15,251	0.454	2.91	43.8	26,053	6.41	4,067	1.6
RUFFED GROUSE	43,591	0.382	1.95	52.8	93,536	5.11	18,301	7.2
CROW	143,863	1.845	7.92	85.6	72,059	4.30	16,776	6.6
RABBIT	358,514	1.094	6.20	78.1	311,873	5.67	55,029	21.8
TOTAL SQUIRREL	965,356	1.391	10.17	88.5	656,661	7.31	89,851	35.5
GRAY SQUIRREL	837,633	1.595	9.12	88.2	498,056	5.72	87,055	34.4
FOX SQUIRREL	127,723	0.615	3.73	76.7	158,605	6.06	26,180	10.4
GROUNDHOG/WOODCHUCK	310,983	0.936	8.63	91.3	282,388	9.22	30,628	12.1
TOTAL DEER	255,573	0.074	1.16	56.7	3,326,768	15.67	212,363	84.0
BUCK	155,428	0.045	0.71	46.3	---	---	---	---
DOE	100,145	0.029	0.45	28.2	---	---	---	---
MR. HERY	31,009	0.040	0.37	27.4	627,558	9.28	67,611	26.7
BUCK	14,615	0.020	0.19	15.8	---	---	---	---
DOE	16,394	0.020	0.18	15.2	---	---	---	---
MUZZLELOADER	62,781	0.084	0.52	38.8	714,740	6.23	114,760	45.4
BUCK	42,955	0.058	0.36	30.7	---	---	---	---
DOE	19,826	0.026	0.16	12.1	---	---	---	---
MUN	161,782	0.077	0.76	46.1	1,984,470	9.86	201,307	79.6
BUCK	97,857	0.047	0.47	36.0	---	---	---	---
DOE	63,925	0.030	0.30	21.8	---	---	---	---
HENKEY LY 99-00	39,778	0.054	0.36	25.6	683,603	6.68	102,305	40.5
SPRING 1999 *	19,666	0.051	0.29	22.0	360,638	5.74	62,776	24.2
FALL 1999	18,936	0.053	0.22	19.4	309,458	4.15	76,452	29.5
SPRING 2000	20,842	0.054	0.32	23.4	374,145	5.89	63,544	25.1
BEAR	889	0.007	0.04	4.4	102,687	5.99	17,157	6.8
TOTAL DUCKS	201,179	1.535	10.97	81.9	125,308	7.14	17,538	6.9
MALLARD	71,804	0.553	3.95	60.1	---	---	---	---
WOOD	44,354	0.330	2.36	42.8	---	---	---	---
BLACK	17,284	0.128	0.91	27.5	---	---	---	---
ALL OTHERS	67,738	0.525	3.75	42.0	---	---	---	---
TOTAL GEESE	50,835	0.615	3.67	57.0	81,209	5.97	13,598	5.4
NEPT.	14,996	0.610	1.74	40.3	22,495	2.85	7,879	3.1
NOV.-MARCH	35,839	0.608	3.19	58.0	58,714	5.25	11,184	4.4
DO FOX	15,632	0.246	1.35	56.3	49,564	5.49	9,023	3.6
DAY FOX	14,107	0.340	1.71	56.9	32,534	5.02	6,481	2.6
RODE	3,304	0.096	0.41	26.5	26,434	4.24	6,227	2.5
COON	83,369	0.308	6.56	76.5	219,099	21.28	10,294	4.1
HOGAT	3,050	0.102	0.50	26.5	21,096	4.88	4,321	1.7
NY 69,180 TOTAL LICENSES 1998-99								

TABLE 4. EXPANDED STATEWIDE ESTIMATES OF TOTAL HARVEST (WITH STD ERRORS) FOR VIRGINIA GAME SPECIES DURING 1999-2000.

SPECIES	TOTAL HARVEST	STANDARD ERROR		AS % OF TOTAL *	95% CONFIDENCE INTERVAL	
		SE			LOWER LIMIT	UPPER LIMIT
DOVE	807,005	60,270		7.5	686,465	927,545
QUAIL	110,566	17,466		15.8	75,634	145,498
WOODCOCK	15,251	4,951		32.5	5,349	25,152
RUFFED GROUSE	43,591	6,131		14.1	31,330	55,852
CROW	143,863	19,152		13.3	105,560	182,166
RABBIT	358,514	30,189		8.4	298,136	418,891
TOTAL SQUIRREL	965,356	49,051		5.1	867,254	1,063,459
GRAY SQUIRREL	837,633	42,428		5.1	752,776	922,490
FOX SQUIRREL	127,723	13,813		10.8	100,097	155,349
GROUNDHOG/WOODCHUCK	310,983	27,697		8.9	255,589	366,376
TOTAL DEER	255,573	9,114		3.6	237,344	273,802
BUCK	155,428	5,615		3.6	144,197	166,659
DOE	100,145	5,411		5.4	89,322	110,967
ARCHERY	31,009	2,921		9.4	25,167	36,852
BUCK	14,615	1,620		11.1	11,375	17,855
DOE	16,394	2,255		13.8	11,884	20,904
MUZZLELOADER	62,781	3,661		5.8	55,460	70,103
BUCK	42,955	2,798		6.5	37,359	48,552
DOE	19,826	2,057		10.4	15,712	23,939
BUN	161,782	6,982		4.3	147,818	175,746
BUCK	97,857	4,143		4.2	89,572	106,143
DOE	63,925	3,999		6.3	55,926	71,924
TURKEY LY 99-00	39,778	2,819		7.1	34,140	45,417
SPRING 1999 **	19,666	1,922		9.8	15,823	23,509
FALL 1999	18,936	1,705		9.0	15,526	22,346
SPRING 2000	20,842	2,012		9.7	16,819	24,866
BEAR	889	336		37.8	218	1,561
TOTAL DUCKS	201,179	34,652		17.2	131,875	270,484
MALLARD	71,804	12,647		17.6	46,510	97,099
WOOD	44,354	7,951		17.9	28,452	60,255
BLACK	17,284	3,529		20.4	10,226	24,342
ALL OTHERS	67,738	16,106		23.8	35,526	99,949
TOTAL GOOSE	50,835	11,542		22.7	27,751	73,919
BRPT	14,996	3,900		26.0	7,197	22,795
MARCH - MARCH	35,839	8,659		24.2	18,520	53,157
RED FOX	15,632	4,184		26.8	7,264	24,000
GRAY FOX	14,107	3,253		23.1	7,601	20,612
OTTER	3,304	914		27.7	1,477	5,132
COON	83,369	14,659		17.6	54,052	112,687
BEAVER	3,050	1,015		33.3	1,021	5,079
* % = 100 (SE/TOTAL HARVEST)						
** No. 269,180 TOTAL LICENSES 1998-99						

ESTIMATED DAILY HARVESTS OF DOVE HUNTING ACTIVITIES IN VIRGINIA DURING THE 1989-90 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	253,412	4.521	16.38	83.3	55,410	3.62	14,488	32.9
	(SE)	32,429	0.330	1.63	3.5	6,372	0.29	1,318	2.5
	N	1,990	114	114	114	1,990	114	1,990	346
2	ESTIMATE	243,373	5.570	19.23	86.3	44,608	3.45	12,073	27.5
	(SE)	33,851	0.485	2.02	3.5	5,162	0.24	1,209	2.4
	N	1,990	95	95	95	1,990	95	1,990	346
3	ESTIMATE	38,635	3.042	9.82	77.3	11,946	3.23	2,796	6.4
	(SE)	9,400	0.654	2.12	9.1	2,509	0.48	593	1.3
	N	1,990	22	22	22	1,990	22	1,990	346
4	ESTIMATE	103,957	4.867	27.04	81.5	21,986	5.56	3,431	7.8
	(SE)	28,714	0.787	6.57	7.6	4,800	0.88	656	1.4
	N	1,990	27	27	27	1,990	27	1,990	346
5	ESTIMATE	184,404	3.850	15.49	81.8	47,912	4.02	11,184	25.4
	(SE)	27,257	0.405	1.79	4.1	6,474	0.39	1,166	2.3
	N	1,990	68	68	68	1,990	68	1,990	346
PERCENT OF TOTAL									
LICENSEES									
STATEWIDE	ESTIMATE	807,005	4.490	17.00	81.8	177,033	3.79	46,768	18.5
	(SE)	60,270	0.216	0.02	2.0	11,353	0.04	2,202	0.9
	N	1,990	368	368	368	1,990	368	1,990	1,990

TABLE 8
ESTIMATED HARVEST AND REGIONAL STATISTICS OF QUAIL HUNTING IN VIRGINIA DURING THE 1989-90 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									TOTAL	HUNTERS
1	ESTIMATE	32,407	1,254	5.84	65.8	25,672	4.66	4,829	29.5	29.5
	(SE)	7,408	0.338	1.18	7.8	5,959	0.95	776		
	N	1,990	38	38	38	1,990	38	1,990		
2	ESTIMATE	51,216	1,474	7.34	63.8	32,916	4.98	5,973	36.4	36.4
	(SE)	12,866	0.384	1.80	7.1	7,315	0.97	861		
	N	1,990	47	47	47	1,990	47	1,990		
3	ESTIMATE	14,107	0.913	3.23	53.8	9,023	3.54	1,652	10.1	10.1
	(SE)	5,594	0.484	1.60	14.4	2,775	1.10	457		
	N	1,990	13	13	13	1,990	13	1,990		
4	ESTIMATE	5,465	0.333	1.00	10.0	6,990	3.00	1,271	7.8	7.8
	(SE)	2,135	0.253	1.00	10.0	2,178	0.93	401		
	N	1,990	10	10	10	1,990	10	1,990		
5	ESTIMATE	16,140	0.589	3.29	52.4	17,792	5.58	2,669	16.3	16.3
	(SE)	4,819	0.199	0.99	11.2	4,668	1.20	579		
	N	1,990	21	21	21	1,990	21	1,990		
									PERCENT OF TOTAL LICENSEES	
STATEWIDE	ESTIMATE	110,566	1,174	5.33	55.9	82,480	4.54	18,174	7.2	7.2
	(SE)	17,466	0.183	0.07	4.2	10,720	0.04	1,464		
	N	1,990	143	143	143	1,990	143	1,990		

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	9,023	0.678	7.38	75.0	13,471	10.88	1,017	33.3
	(SE)	4,285	0.371	3.45	16.4	5,887	4.47	359	9.8
	N	1,990	8	8	8	1,990	8	1,990	24
2	ESTIMATE	6,736	0.718	4.67	83.3	7,371	6.50	763	25.0
	(SE)	2,541	0.470	1.99	16.7	3,523	3.78	311	9.0
	N	1,990	6	6	6	1,990	6	1,990	24
3	ESTIMATE	1,398	0.000	0.00	0.0	2,923	2.00	254	8.3
	(SE)	751	0.000	0.00	0.0	1,250	1.00	180	5.8
	N	1,990	2	2	2	1,990	2	1,990	24
4	ESTIMATE	1,398	0.000	0.00	0.0	2,796	1.50	254	8.3
	(SE)	751	0.000	0.00	0.0	1,218	0.50	180	5.8
	N	1,990	2	2	2	1,990	2	1,990	24
5	ESTIMATE	1,652	0.045	0.33	33.3	8,006	7.33	763	25.0
	(SE)	772	0.044	0.21	21.1	3,460	3.33	311	9.0
	N	1,990	6	6	6	1,990	6	1,990	24
STATEWIDE	ESTIMATE	15,251	0.454	2.91	43.8	26,053	6.41	4,067	1.6
	(SE)	4,951	0.165	0.02	8.9	7,540	0.03	713	0.3
	N	1,990	32	32	32	1,990	32	1,990	1,990

ESTIMATES OF Ruffed Grouse Hunting in Virginia During the 1999-00 Hunting Season

Region	Statistic	Total Harvest	Average Daily Kill	Average Seasonal Harvest	Percent Successful Hunters	Total Man-Days	Average Seasonal Days Hunting	Total Hunters	Percent Hunters Per Region	
									Licenses	Total
1	Estimate	11,184	0.545	3.00	50.0	17,030	5.50	254	1.6	
	(SE)	3,939	0.100	3.00	50.0	7,913	4.50	180	1.1	
	N	1,990	2	2	2	1,990	2	1,990	123	
2	Estimate	14,869	0.653	2.91	90.9	21,859	4.45	1,398	8.9	
	(SE)	4,281	0.178	1.00	9.1	8,208	1.29	420	2.6	
	N	1,990	11	11	11	1,990	11	1,990	123	
3	Estimate	26,307	0.378	2.12	57.9	56,300	5.61	7,244	46.3	
	(SE)	5,138	0.062	0.38	6.6	10,734	0.72	946	4.5	
	N	1,990	57	57	57	1,990	57	1,990	123	
4	Estimate	16,776	0.375	1.23	41.0	31,899	3.28	4,956	31.7	
	(SE)	4,276	0.103	0.32	8.0	8,506	0.45	786	4.2	
	N	1,990	39	39	39	1,990	39	1,990	123	
5	Estimate	12,455	0.219	1.00	36	23,765	4.57	1,779	11.4	
	(SE)	4,050	0.113	0.64	13.3	8,395	1.29	474	2.9	
	N	1,990	14	14	14	1,990	14	1,990	123	
Percent of Total Licensees										
Statewide	Estimate	43,591	0.382	1.95	52.8	93,536	5.11	18,301	7.2	
	(SE)	6,131	0.038	0.02	4.2	12,223	0.05	1,469	0.6	
	N	1,990	144	144	144	1,990	144	1,990	1,990	

ESTIMATES AND REPORTS: SURVEY OF CROW HUNTING IN VIRGINIA DURING THE 1999-00 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEEES	TOTAL
1	ESTIMATE	47,277	2,291	9.69	92.3	18,682	4.23	3,304	22.2	
	(SE)	9,725	0.404	1.42	5.3	4,197	0.72	644	3.9	
	N	1,990	26	26		1,990	26	1,990	117	
2	ESTIMATE	54,012	2,626	8.73	86.5	20,334	3.32	4,702	31.6	
	(SE)	11,701	0.541	1.73	5.7	3,829	0.40	766	4.3	
	N	1,990	37	37		1,990	37	1,990	117	
3	ESTIMATE	24,274	0.949	4.43	81.0	17,157	4.67	2,669	17.9	
	(SE)	6,584	0.241	1.12	8.8	4,646	1.19	579	3.6	
	N	1,990	21	21		1,990	21	1,990	117	
4	ESTIMATE	24,020	1.857	8.27	81.8	10,929	4.45	1,398	9.4	
	(SE)	9,389	0.763	5.18	12.2	3,364	1.31	420	2.7	
	N	1,990	11	11		1,990	11	1,990	117	
5	ESTIMATE	38,635	1.537	9.36	90.9	21,732	6.09	2,796	18.8	
	(SE)	10,786	0.470	2.77	6.3	5,984	1.56	593	3.6	
	N	1,990	22	22		1,990	22	1,990	117	
PERCENT OF TOTAL LICENSEES										
STATEWIDE	ESTIMATE	143,863	1.845	7.92	85.6	72,059	4.30	16,776	6.6	
	(SE)	19,152	0.208	0.08	3.1	9,047	0.04	1,411	0.6	
	N	1,990	132	132		1,990	132	1,990	1,990	

ANALYSIS OF RABBIT HUNTING IN VIRGINIA DURING THE 1989-90 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASIONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									TOTAL HUNTERS	PERCENT HUNTERS
1	ESTIMATE (SE)	85,657 14,441	1,205 0.097	6.42 1.05	92.1	76,380	5.33	11,311	23.2	
	N	1,990	89	89	2.9	12,852	0.87	1,172	2.2	
								89	1,990	384
2	ESTIMATE (SE)	106,118 15,579	0.970 0.131	5.76 0.82	81.5 3.5	109,676 17,144	5.94 0.90	15,759 1,371	32.3 2.4	
	N	1,990	124	124	124	1,990	124	1,990	1,990	384
3	ESTIMATE (SE)	88,834 14,704	1,379 0.119	8.81 1.27	88.4 3.9	72,186 12,076	6.39 0.97	8,769 1,037	18.0 2.0	
	N	1,990	69	69	69	1,990	69	1,990	1,990	384
4	ESTIMATE (SE)	34,441 6,897	1,059 0.211	4.74 1.01	65.8 7.8	37,745 7,882	4.47 0.91	4,829 776	9.9 1.5	
	N	1,990	38	38	38	1,990	38	1,990	1,990	384
5	ESTIMATE (SE)	63,035 15,668	1,210 0.252	6.22 1.73	68.8 5.8	57,952 9,346	5.14 0.68	8,134 1,000	16.7 1.9	
	N	1,990	64	64	64	1,990	64	1,990	1,990	384
									PERCENT OF TOTAL LICENSEES	
STATEWIDE	ESTIMATE (SE)	358,514 30,189	1,094 0.070	6.20 0.12	78.1 2.0	311,873 25,818	5.67 0.10	55,029 2,340	21.8 0.9	
	N	1,990	433	433	433	1,990	433	1,990	1,990	1,990

ESTIMATES OF GREAT SPOTTED WOODPECKER HUNTING IN VIRGINIA DURING THE 1999-00 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEES	TOTAL
1	ESTIMATE	136,238	1.838	8.56	91.1	84,386	4.66	11,438	14.7	
	(SE)	16,904	0.181	0.88	3.0	14,543	0.46	1,178	1.4	
	N	1,990	90	90	90	1,990	90	1,990	611	
2	ESTIMATE	254,937	1.614	9.51	89.7	162,164	5.89	22,240	28.6	
	(SE)	25,843	0.170	0.84	2.3	19,879	0.56	1,606	1.8	
	N	1,990	175	175	175	1,990	175	1,990	611	
3	ESTIMATE	194,825	1.685	8.76	90.8	117,048	5.20	16,521	21.3	
	(SE)	20,338	0.116	0.71	2.5	15,758	0.40	1,401	1.7	
	N	1,990	130	130	130	1,990	130	1,990	611	
4	ESTIMATE	173,601	1.529	10.20	85.3	117,556	6.67	12,963	16.7	
	(SE)	21,959	0.147	1.18	3.5	18,374	0.83	1,251	1.5	
	N	1,990	102	102	102	1,990	102	1,990	611	
5	ESTIMATE	175,254	1.737	9.20	89.5	107,897	5.30	14,488	18.7	
	(SE)	20,425	0.261	0.94	2.9	17,581	0.72	1,318	1.6	
	N	1,990	114	114	114	1,990	114	1,990	611	
PERCENT OF TOTAL LICENSEES										
STATEWIDE	ESTIMATE	837,633	1.595	9.12	88.2	498,056	5.72	87,055	34.4	
	(SE)	42,428	0.083	0.17	1.2	30,225	0.12	2,694	1.1	
	N	1,990	685	685	685	1,990	685	1,990	1,990	

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	12,328	0.079	0.50	50.0	23,511	6.33	763	3.3
	(SE)	5,565	0.058	0.22	22.4	7,200	2.81	311	1.3
	N	1,990	6	6	6	1,990	6	1,990	181
2	ESTIMATE	19,317	0.404	2.38	75.0	30,628	5.88	2,033	8.8
	(SE)	6,152	0.181	0.78	11.2	7,879	1.54	506	2.1
	N	1,990	16	16	16	1,990	16	1,990	181
3	ESTIMATE	59,223	0.783	4.13	80.7	74,346	5.28	10,548	45.9
	(SE)	9,378	0.121	0.51	4.4	11,112	0.64	1,134	3.7
	N	1,990	83	83	83	1,990	83	1,990	181
4	ESTIMATE	55,537	0.877	4.90	88.5	62,019	5.59	7,752	33.7
	(SE)	9,354	0.147	0.67	4.1	10,713	0.84	977	3.5
	N	1,990	61	61	61	1,990	61	1,990	181
5	ESTIMATE	16,394	0.212	1.93	80.0	36,093	9.13	1,906	8.3
	(SE)	5,765	0.143	0.51	10.7	13,353	5.80	490	2.1
	N	1,990	15	15	15	1,990	15	1,990	181
STATEWIDE									
	ESTIMATE	127,723	0.615	3.73	76.7	158,605	6.06	26,180	10.4
	(SE)	13,813	0.075	0.05	3.0	18,833	0.07	1,727	0.7
	N	1,990	206	206	206	1,990	206	1,990	1,990

ESTIMATES OF GROUNDCOONWOODCHUCK HUNTING IN VA DURING THE 1989-90 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEES	TOTAL
1	ESTIMATE	96,968	1,290	16.18	100.0	75,490	12.55	2,796	11.1	
	(SE)	17,854	0.393	4.35	0.0	15,418	2.87	593	2.2	
	N	1,990	22	22	22	1,990	22	1,990	1.99	
2	ESTIMATE	96,841	0.923	7.85	85.4	84,767	8.51	5,211	20.7	
	(SE)	13,381	0.131	1.27	5.6	14,546	1.29	806	2.9	
	N	1,990	41	41	41	1,990	41	1,990	1.99	
3	ESTIMATE	129,756	1,102	9.79	93.5	110,439	8.89	7,879	31.3	
	(SE)	16,587	0.145	1.27	3.1	17,338	1.31	985	3.3	
	N	1,990	62	62	62	1,990	62	1,990	1.99	
4	ESTIMATE	96,459	0.901	8.26	92.9	89,342	9.17	5,338	21.2	
	(SE)	14,112	0.189	1.58	4.0	15,723	1.60	815	2.9	
	N	1,990	42	42	42	1,990	42	1,990	1.99	
5	ESTIMATE	82,734	0.822	7.00	90.3	73,965	8.52	3,940	15.7	
	(SE)	12,344	0.122	1.37	5.4	15,155	2.20	702	2.6	
	N	1,990	31	31	31	1,990	31	1,990	1.98	
PERCENT OF TOTAL										
LICENSEES										
STATEWIDE	ESTIMATE	310,983	0.936	8.63	91.3	282,388	9.22	30,628	12.1	
	(SE)	27,697	0.074	0.11	1.8	27,214	0.11	1,850	0.7	
	N	1,990	241	241	241	1,990	241	1,990	1,990	

ESTIMATES OF ANNUAL DEER HUNTING IN VIRGINIA DURING THE 1999-00 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MANDAYS	AVERAGE SEASIONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									HUNTERS	PER HUNTER
1	ESTIMATE	7,244	0.040	0.35	30.3	84,005	8.62	8,388	13.4	
	(SE)	1,848	0.009	0.07	5.7	11,958	0.86	1,015	1.5	
	N	1,990	66	66	66	1,990	66	1,990	492	
2	ESTIMATE	7,752	0.030	0.26	19.0	140,050	8.71	14,742	23.6	
	(SE)	1,957	0.008	0.06	3.7	16,454	0.75	1,329	1.9	
	N	1,990	116	116	116	1,990	116	1,990	492	
3	ESTIMATE	9,659	0.036	0.34	27.7	168,010	9.46	16,521	26.4	
	(SE)	1,957	0.006	0.05	3.9	19,604	0.85	1,401	2.0	
	N	1,990	130	130	130	1,990	130	1,990	492	
4	ESTIMATE	9,404	0.055	0.55	39.7	110,693	9.99	9,913	15.9	
	(SE)	1,966	0.011	0.08	5.6	14,604	0.89	1,100	1.6	
	N	1,990	78	78	78	1,990	78	1,990	492	
5	ESTIMATE	9,913	0.042	0.41	26.5	139,161	9.83	12,963	20.7	
	(SE)	2,116	0.010	0.09	4.4	18,529	1.03	1,251	1.8	
	N	1,990	102	102	102	1,990	102	1,990	492	
										PERCENT OF TOTAL LICENSEES
										STATEWIDE
ESTIMATE		31,009	0.040	0.37	27.4	627,558	9.28	67,611	26.7	
(SE)		2,921	0.002	0.01	1.9	34,663	0.14	2,510	1.0	
N		1,990	532	532	532	1,990	532	1,990	492	

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	PERCENT OF TOTAL	
										LICENSEES	TOTAL
1	ESTIMATE	2,415	0.019	0.17	30.3	84,005	8.62	8,388	13.4		
	(SE)	552	0.005	0.05	5.7	11,958	0.86	1,015	1.5		
	N	1,990	66	66	66	1,990	66	1,990	492		
2	ESTIMATE	3,177	0.017	0.15	13.8	140,050	8.71	14,742	23.6		
	(SE)	657	0.004	0.04	3.2	16,454	0.75	1,329	1.9		
	N	1,990	116	116	116	1,990	116	1,990	492		
3	ESTIMATE	3,940	0.018	0.17	15.4	168,010	9.46	16,521	26.4		
	(SE)	747	0.004	0.04	3.2	19,604	0.85	1,401	2.0		
	N	1,990	130	130	130	1,990	130	1,990	492		
4	ESTIMATE	3,431	0.024	0.24	20.5	110,693	9.99	9,913	15.9		
	(SE)	726	0.006	0.06	4.6	14,604	0.89	1,100	1.6		
	N	1,990	78	78	78	1,990	78	1,990	492		
5	ESTIMATE	4,067	0.021	0.21	15.7	139,161	9.83	12,963	20.7		
	(SE)	947	0.005	0.06	3.6	18,529	1.03	1,251	1.8		
	N	1,990	102	102	102	1,990	102	1,990	492		
STATEWIDE	ESTIMATE	14,615	0.020	0.19	15.8	627,558	9.28	67,611	26.7		
	(SE)	1,620	0.002	0.01	1.6	34,663	0.14	2,510	1.0		
	N	1,990	532	532	532	1,990	532	1,990	1,990		

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									PERCENT OF LICENSEES	TOTAL
1	ESTIMATE	4,829	0.021	0.18	16.7	84,005	8.62	8,388	13.4	
	(SE)	1,721	0.006	0.05	4.6	11,958	0.86	1,015	1.5	
	N	1,990	66	66	66	1,990	66	1,990	492	
2	ESTIMATE	4,575	0.013	0.11	6.0	140,050	8.71	14,742	23.6	
	(SE)	1,795	0.006	0.05	2.2	16,454	0.75	1,329	1.9	
	N	1,990	116	116	116	1,990	116	1,990	492	
3	ESTIMATE	5,719	0.018	0.17	16.2	168,010	9.46	16,521	26.4	
	(SE)	1,724	0.004	0.03	3.2	19,604	0.85	1,401	2.0	
	N	1,990	130	130	130	1,990	130	1,990	492	
4	ESTIMATE	5,973	0.031	0.31	25.6	110,693	9.99	9,913	15.9	
	(SE)	1,761	0.007	0.06	5.0	14,604	0.89	1,100	1.6	
	N	1,990	78	78	78	1,990	78	1,990	492	
5	ESTIMATE	5,846	0.021	0.21	15.7	139,161	9.83	12,963	20.7	
	(SE)	1,775	0.005	0.05	3.6	18,529	1.03	1,251	1.8	
	N	1,990	102	102	102	1,990	102	1,990	492	
PERCENT OF LICENSEES										
STATEWIDE										
ESTIMATE	16,384	0.020	0.18	15.2	627,558	9.28	67,611	26.7		
(SE)	2,255	0.002	0.01	1.6	34,663	0.14	2,510	1.0		
N	1,990	532	532	532	1,990	532	1,990	1,990		
TOTAL										
LICENSEEES										

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	10,294	0.099	0.64	38.8	93,409	6.49	12,455	11.6
	(SE)	1,849	0.021	0.12	4.9	10,548	0.47	1,227	1.1
	N	1,990	98	98	98	1,990	98	1,990	848
2	ESTIMATE	20,461	0.091	0.61	42.3	210,457	6.65	29,738	27.6
	(SE)	2,371	0.012	0.07	3.2	15,394	0.30	1,827	1.5
	N	1,990	234	234	234	1,990	234	1,990	848
3	ESTIMATE	12,328	0.065	0.39	34.0	167,756	6.01	25,799	23.9
	(SE)	1,440	0.008	0.04	3.3	13,257	0.29	1,716	1.5
	N	1,990	203	203	203	1,990	203	1,990	848
4	ESTIMATE	11,311	0.069	0.43	36.0	141,321	6.29	20,461	19.0
	(SE)	1,466	0.010	0.05	3.8	12,750	0.36	1,546	1.3
	N	1,990	161	161	161	1,990	161	1,990	848
5	ESTIMATE	13,980	0.111	0.59	42.8	115,649	5.34	19,317	17.9
	(SE)	1,752	0.015	0.07	4.0	10,516	0.30	1,506	1.3
	N	1,990	152	152	152	1,990	152	1,990	848
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	62,781	0.084	0.52	38.8	714,740	6.23	114,760	45.4
	(SE)	3,661	0.002	0.01	1.6	24,662	0.10	2,823	1.1
	N	1,990	903	903	903	1,990	903	1,990	848

ESTIMATES OF MIZZLE-SLICER DEER (BUCKS) HUNTING IN VIA DURING THE 1990-90 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEES	TOTAL
1	ESTIMATE	5,465	0.050	0.33	38.8	93,409	6.49	12,455	11.6	
	(SE)	1,049	0.010	0.06	4.9	10,548	0.47	1,227	1.1	
	N	1,990	98	98	98	1,990	98	1,990	848	
2	ESTIMATE	13,980	0.064	0.42	32.1	210,457	6.65	29,738	27.6	
	(SE)	2,018	0.009	0.06	3.1	15,394	0.30	1,827	1.5	
	N	1,990	234	234	234	1,990	234	1,990	848	
3	ESTIMATE	9,913	0.055	0.33	30.5	167,756	6.01	25,799	23.9	
	(SE)	1,239	0.006	0.04	3.2	13,257	0.29	1,716	1.5	
	N	1,990	203	203	203	1,990	203	1,990	848	
4	ESTIMATE	7,244	0.044	0.28	26.7	141,321	6.29	20,461	19.0	
	(SE)	1,059	0.006	0.04	3.5	12,750	0.36	1,546	1.3	
	N	1,990	161	161	161	1,990	161	1,990	848	
5	ESTIMATE	9,659	0.079	0.42	34.9	115,649	5.34	19,317	17.9	
	(SE)	1,303	0.010	0.05	3.9	10,516	0.30	1,506	1.3	
	N	1,990	152	152	152	1,990	152	1,990	848	
PERCENT OF TOTAL										
STATEWIDE										LICENSEES
										TOTAL

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
1	ESTIMATE	4,829	0.049	0.32	17.3	93,409	6.49	12,455	11.6	
	(SE)	1,267	0.013	0.09	3.8	10,548	0.47	1,227	1.1	
	N	1,990	98	98	98	1,990	98	1,990	848	
2	ESTIMATE	6,481	0.028	0.18	15.4	210,457	6.65	29,738	27.6	
	(SE)	1,030	0.005	0.03	2.4	15,394	0.30	1,827	1.5	
	N	1,990	234	234	234	1,990	234	1,990	848	
3	ESTIMATE	2,415	0.010	0.06	5.4	167,756	6.01	26,799	23.9	
	(SE)	580	0.003	0.02	1.6	13,257	0.29	1,716	1.5	
	N	1,990	203	203	203	1,990	203	1,990	848	
4	ESTIMATE	4,067	0.025	0.16	11.8	141,321	6.29	20,461	19.0	
	(SE)	857	0.006	0.04	2.6	12,750	0.36	1,546	1.3	
	N	1,990	161	161	161	1,990	161	1,990	848	
5	ESTIMATE	4,321	0.032	0.17	12.5	115,649	5.34	19,317	17.9	
	(SE)	929	0.008	0.04	2.7	10,516	0.30	1,506	1.3	
	N	1,990	152	152	152	1,990	152	1,990	848	
PERCENT OF TOTAL LICENSEES										
STATEWIDE	ESTIMATE	19,826	0.026	0.16	12.1	714,740	6.23	114,760	45.4	
	(SE)	2,057	0.003	0.01	1.1	24,662	0.10	2,823	1.1	
	N	1,990	903	903	903	1,990	903	1,990	1,990	

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	34,695	0.076	0.97	48.8	432,606	12.83	31,264	16.8
	(SE)	3,513	0.006	0.09	3.2	29,870	0.54	1,866	1.0
	N	1,990	246	246	246	1,990	246	1,990	1,464
2	ESTIMATE	39,905	0.064	0.67	43.2	600,488	10.46	54,393	29.2
	(SE)	3,089	0.004	0.05	2.4	32,688	0.39	2,330	1.2
	N	1,990	428	428	428	1,990	428	1,990	1,464
3	ESTIMATE	22,240	0.078	0.53	42.3	273,619	6.82	35,457	19.1
	(SE)	2,072	0.006	0.04	3.0	17,116	0.24	1,969	1.0
	N	1,990	279	279	279	1,990	279	1,990	1,464
4	ESTIMATE	27,070	0.064	0.75	47.6	285,184	7.98	31,772	17.1
	(SE)	2,709	0.008	0.07	3.2	19,318	0.33	1,879	1.0
	N	1,990	250	250	250	1,990	250	1,990	1,464
5	ESTIMATE	39,143	0.090	1.01	51.3	405,282	11.26	33,170	17.8
	(SE)	5,164	0.011	0.14	3.1	27,935	0.50	1,914	1.0
	N	1,990	261	261	261	1,990	261	1,990	1,464
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	161,782	0.077	0.76	46.1	1,984,470	9.86	201,307	79.6
	(SE)	6,982	0.003	0.03	1.3	43,876	0.17	2,285	0.9
	N	1,990	1,584	1,584	1,584	1,990	1,584	1,990	1,990

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEES	TOTAL
1	ESTIMATE	19,698	0.044	0.57	37.4	432,606	12.83	31,264	16.8	
	(SE)	2,161	0.004	0.06	3.1	29,870	0.54	1,866	1.0	
	N	1,990	246	246	246	1,990	246	1,990	1,464	
2	ESTIMATE	24,274	0.039	0.41	32.9	600,488	10.46	54,393	29.2	
	(SE)	2,037	0.003	0.03	2.3	32,698	0.39	2,330	1.2	
	N	1,990	428	428	428	1,990	428	1,990	1,464	
3	ESTIMATE	15,759	0.058	0.39	35.1	273,619	6.82	35,457	19.1	
	(SE)	1,527	0.005	0.03	2.9	17,116	0.24	1,969	1.0	
	N	1,990	279	279	279	1,990	279	1,990	1,464	
4	ESTIMATE	16,648	0.060	0.48	38.8	285,184	7.98	31,772	17.1	
	(SE)	1,688	0.005	0.04	3.1	19,318	0.33	1,879	1.0	
	N	1,990	250	250	250	1,990	250	1,990	1,464	
5	ESTIMATE	20,334	0.048	0.54	37.9	405,282	11.26	33,170	17.8	
	(SE)	2,565	0.006	0.07	3.0	27,935	0.50	1,914	1.0	
	N	1,990	261	261	261	1,990	261	1,990	1,464	
PERCENT OF TOTAL LICENSEES										
STATEWIDE	ESTIMATE	97,857	0.047	0.47	36.0	1,984,470	9.86	201,307	79.6	
	(SE)	4,143	0.002	0.02	1.2	43,876	0.17	2,285	0.9	
	N	1,990	1,584	1,584	1,584	1,990	1,584	1,990	1,990	

NUMBER OF GAME SESEES IN SOUTH DAKOTA DURING THE 1990 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	
									LICENSEES	TOTAL
1	ESTIMATE	14,996	0.032	0.41	27.6	432,606	12.83	31,264	16.8	
	(SE)	1,829	0.004	0.05	2.9	29,870	0.54	1,866	1.0	
	N	1,990	246	246	246	1,990	246	1,990	1,464	
	ESTIMATE	15,632	0.024	0.25	21.7	600,468	10.46	54,393	29.2	
	(SE)	1,615	0.002	0.03	2.0	32,698	0.39	2,330	1.2	
	N	1,990	428	428	428	1,990	428	1,990	1,464	
	ESTIMATE	6,481	0.020	0.14	11.8	273,619	6.82	35,457	19.1	
	(SE)	1,061	0.003	0.02	1.9	17,116	0.24	1,969	1.0	
	N	1,990	279	279	279	1,990	279	1,990	1,464	
	ESTIMATE	10,421	0.035	0.28	20.8	285,184	7.98	31,772	17.1	
	(SE)	1,550	0.005	0.04	2.6	19,318	0.33	1,879	1.0	
	N	1,990	250	250	250	1,990	250	1,990	1,464	
	ESTIMATE	18,809	0.042	0.48	28.7	405,282	11.26	33,170	17.8	
	(SE)	2,968	0.007	0.08	2.8	27,935	0.50	1,914	1.0	
	N	1,990	261	261	261	1,990	261	1,990	1,464	
	ESTIMATE	63,925	0.030	0.30	21.8	1,984,470	9.86	201,307	79.6	
	(SE)	3,999	0.002	0.02	1.0	43,876	0.17	2,285	0.9	
	N	1,990	1,584	1,584	1,584	1,990	1,584	1,990	1,990	
	STATEWIDE									

TABLE 23. EXPANDED STATEWIDE SUMMARY OF TOTAL DEER HUNTING IN VIRGINIA DURING THE 1999-00 HUNTING SEASON

	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL DAYS	MAN SEASONAL DAYS HUNTING	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENSEES
ESTIMATE	255,573	0.074	1.16	56.7	3,326,768	15.67	212,363			
(SE)	9,114	0.002	0.04	1.2	72,074	0.28	2,081			
N	1,990	1.671	1,671	1,671	1,990	1,671	1,671	1,990	1,990	0.8

TABLE 24. EXPANDED STATEWIDE SUMMARY OF TOTAL DEER (BUCKS) HUNTING IN VIRGINIA DURING THE 1999-00 HUNTING SEASON

	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENSEES
ESTIMATE	155,428	0.045	0.71	46.3	3,326,768	15.67	212,363		
(SE)	5,615	0.002	0.02	1.2	72,074	0.28	2,081		
N	1,990	1,671	1,671	1,671	1,990	1,671	1,671	1,990	0.8

TABLE 25. EXPANDED STATEWIDE SUMMARY OF TOTAL DEER (DOES) HUNTING IN VIRGINIA DURING THE 1999-00 HUNTING SEASON

	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENSEES
ESTIMATE	100,145	0.029	0.45	28.2	3,326,768	15.67	212,363		
(SE)	5,411	0.002	0.02	1.1	72,074	0.28	2,081		
N	1,990	1,671	1,671	1,671	1,990	1,671	1,671	1,990	0.8

ESTIMATED STATEWIDE AND REGIONAL SUMMARY OF SPRING TURKEY (1999) HUNTING IN VIRGINIA

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									TOTAL HUNTERS	AVERAGE SEASONAL DAYS HUNTING
1	ESTIMATE	3,777	0.064	0.33	22.2	59,130	5.19	9,377	16.2	
	(SE)	927	0.010	0.08	4.9	8,217	0.56	1,085	1.7	
	N	1,990	72	72	72	1,990	72	1,990	445	
	ESTIMATE	6,642	0.061	0.35	25.8	108,751	5.72	17,192	29.7	
	(SE)	1,163	0.009	0.06	3.8	11,290	0.42	1,446	2.2	
	N	1,990	132	132	132	1,990	132	1,990	445	
	ESTIMATE	5,600	0.057	0.31	23.5	93,123	5.52	14,978	25.8	
	(SE)	1,059	0.009	0.06	4.0	10,810	0.49	1,356	2.1	
	N	1,990	115	115	115	1,990	115	1,990	445	
	ESTIMATE	1,823	0.021	0.14	10.9	64,990	6.55	8,335	14.4	
	(SE)	637	0.003	0.05	3.9	9,792	0.79	1,025	1.7	
	N	1,990	64	64	64	1,990	64	1,990	445	
	ESTIMATE	3,256	0.049	0.29	24.2	58,088	5.90	8,075	13.9	
	(SE)	789	0.011	0.07	5.5	9,208	0.80	1,010	1.6	
	N	1,990	62	62	62	1,990	62	1,990	445	
	STATEWIDE	20,842	0.054	0.32	23.4	374,145	5.89	63,544	25.1	
	ESTIMATE	2,012	0.004	0.01	2.0	20,889	0.06	2,521	1.0	
	(SE)	445	445	445	445	1,990	445	1,990	1,990	
	N	1,990								

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEES	TOTAL
1	ESTIMATE	3,304	0.078	0.24	24.5	48,802	3.12	6,227	10.0	
	(SE)	737	0.021	0.06	6.2	6,724	0.44	879	1.4	
	N	1,990	49	49	49	1,990	49	1,990	490	
2	ESTIMATE	7,117	0.066	0.27	24.4	111,583	4.04	20,334	32.7	
	(SE)	1,052	0.010	0.04	3.4	9,965	0.28	1,542	2.1	
	N	1,990	160	160	160	1,990	160	1,990	490	
3	ESTIMATE	5,465	0.054	0.20	18.2	94,680	3.75	17,411	28.0	
	(SE)	952	0.010	0.04	3.3	8,573	0.23	1,436	2.0	
	N	1,990	137	137	137	1,990	137	1,990	490	
4	ESTIMATE	3,558	0.021	0.14	10.9	76,761	6.55	8,134	13.1	
	(SE)	779	0.010	0.05	3.9	8,634	0.79	1,000	1.5	
	N	1,990	64	64	64	1,990	64	1,990	490	
5	ESTIMATE	3,558	0.034	0.19	16.3	84,894	5.46	10,167	16.3	
	(SE)	800	0.009	0.05	4.2	9,509	0.49	1,114	1.7	
	N	1,990	80	80	80	1,990	80	1,990	490	
PERCENT OF TOTAL										LICENSEES
STATEWIDE	ESTIMATE	18,936	0.053	0.22	19.4	309,458	4.15	76,452	29.5	
	(SE)	1,705	0.005	0.01	1.6	15,422	0.06	2,586	1.0	
	N	1,990	587	587	587	1,990	587	1,990	490	

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEEES	TOTAL
1	ESTIMATE	4,702	0.072	0.34	25.3	60,748	4.67	10,548	18.0	
	(SE)	954	0.015	0.07	4.8	8,007	0.46	1,134	1.8	
	N	1,990	83	83	83	1,990	83	1,990	460	
2	ESTIMATE	7,371	0.060	0.38	29.0	121,496	6.28	17,538	30.0	
	(SE)	1,181	0.009	0.06	3.9	12,558	0.46	1,441	2.1	
	N	1,990	138	138	138	1,990	138	1,990	460	
3	ESTIMATE	4,067	0.041	0.23	18.3	91,884	5.50	14,615	25.0	
	(SE)	876	0.009	0.05	3.6	10,385	0.45	1,323	2.0	
	N	1,990	115	115	115	1,990	115	1,990	460	
4	ESTIMATE	3,177	0.040	0.29	18.2	71,550	7.17	8,388	14.3	
	(SE)	850	0.009	0.09	4.8	11,212	0.93	1,015	1.6	
	N	1,990	66	66	66	1,990	66	1,990	460	
5	ESTIMATE	3,813	0.068	0.40	25.9	54,521	5.84	7,371	12.6	
	(SE)	895	0.017	0.10	5.8	8,530	0.73	954	1.5	
	N	1,990	58	58	58	1,990	58	1,990	460	
PERCENT OF TOTAL										
STATEWIDE	ESTIMATE	20,842	0.054	0.32	23.4	374,145	5.89	63,544	25.1	
	(SE)	2,012	0.005	0.01	1.9	21,224	0.08	2,460	1.0	
	N	1,990	500	500	500	1,990	500	1,990	1,990	

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEES	TOTAL
1	ESTIMATE	0	0.000	0.00	0.0	7,879	4.00	763	5.2	5.2
	(SE)	0	0.000	0.00	0.0	2,058	0.86	311	2.1	2.1
	N	1,990	6	6	6	1,990	6	1,990	116	116
2	ESTIMATE	545	0.039	0.22	22.2	17,792	5.67	2,288	15.5	15.5
	(SE)	284	0.021	0.10	10.1	4,587	1.39	537	3.4	3.4
	N	1,990	18	18	18	1,990	18	1,990	116	116
3	ESTIMATE	127	0.000	0.00	0.0	26,688	6.88	3,177	21.6	21.6
	(SE)	127	0.000	0.00	0.0	6,312	1.39	632	3.8	3.8
	N	1,990	25	25	25	1,990	25	1,990	116	116
4	ESTIMATE	381	0.006	0.04	3.7	44,226	5.74	6,863	46.6	46.6
	(SE)	220	0.005	0.03	2.6	7,444	0.74	921	4.7	4.7
	N	1,990	54	54	54	1,990	54	1,990	116	116
5	ESTIMATE	127	0.000	0.00	0.0	18,809	8.46	1,652	11.2	11.2
	(SE)	127	0.000	0.00	0.0	5,709	2.47	457	2.9	2.9
	N	1,990	13	13	13	1,990	13	1,990	116	116
PERCENT OF TOTAL										
STATEWIDE	ESTIMATE	889	0.007	0.04	4.4	102,687	5.99	17,157	6.8	6.8
	(SE)	336	0.003	0.00	1.8	12,544	0.05	1,426	0.6	0.6
	N	1,990	135	135	135	1,990	135	1,990	1,990	1,990

ESTIMATES AND CONFIDENCE INTERVALS OF TOTAL DUCK HUNTING IN VIRGINIA DURING THE 1999-00 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	128,867	1,594	11.47	86.4	68,881	7.20	8,388	53.2
	(SE)	30,824	0.192	1.95	4.3	11,082	0.83	1,015	4.5
	N	1,990	66	66	66	1,990	66	1,990	124
2	ESTIMATE	46,006	1,565	9.50	92.9	19,317	6.07	1,779	11.3
	(SE)	24,362	0.357	3.23	7.1	5,911	1.27	474	2.9
	N	1,990	14	14	14	1,990	14	1,990	124
3	ESTIMATE	37,745	0.716	7.56	88.9	20,588	10.56	1,144	7.3
	(SE)	23,890	0.065	4.11	11.1	9,145	6.26	380	2.3
	N	1,990	9	9	9	1,990	9	1,990	124
4	ESTIMATE	31,263	1,000	4.25	50.0	10,675	4.25	508	3.2
	(SE)	23,381	0.419	3.61	28.9	4,885	1.93	254	1.6
	N	1,990	4	4	4	1,990	4	1,990	124
5	ESTIMATE	71,550	1.452	10.77	83.9	37,745	7.42	3,940	25.0
	(SE)	26,820	0.187	2.83	6.7	8,808	1.38	702	3.9
	N	1,990	31	31	31	1,990	31	1,990	124
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	201,179	1,535	10.97	81.9	125,308	7.14	17,538	6.9
	(SE)	34,652	0.199	0.14	3.3	15,860	0.06	1,441	0.6
	N	1,990	138	138	138	1,990	138	1,990	1,990

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEES	TOTAL
1	ESTIMATE	37,999	0.482	3.47	60.6	68,881	7.20	8,388	53.2	
	(SE)	9,670	0.081	0.74	6.1	11,082	0.83	1,015	4.5	
	N	1,990	66	66	66	1,990	66	1,990	124	
2	ESTIMATE	13,980	0.588	3.57	71.4	19,317	6.07	1,779	11.3	
	(SE)	7,193	0.193	1.54	12.5	5,911	1.27	474	2.9	
	N	1,990	14	14	14	1,990	14	1,990	124	
3	ESTIMATE	14,107	0.537	5.67	77.8	20,588	10.56	1,144	7.3	
	(SE)	7,396	0.093	2.64	14.7	9,145	6.26	380	2.3	
	N	1,990	9	9	9	1,990	9	1,990	124	
4	ESTIMATE	9,786	1,000	4.25	50.0	10,675	4.25	508	3.2	
	(SE)	6,758	0.419	3.61	28.9	4,885	1.93	254	1.6	
	N	1,990	4	4	4	1,990	4	1,990	124	
5	ESTIMATE	25,672	0.617	4.58	67.7	37,745	7.42	3,940	25.0	
	(SE)	9,126	0.135	1.44	8.5	8,808	1.38	702	3.9	
	N	1,990	31	31	31	1,990	31	1,990	124	
PERCENT OF TOTAL LICENSEES										
STATEWIDE	ESTIMATE	71,804	0.553	3.95	60.1	125,308	7.14	17,538	6.9	
	(SE)	12,647	0.070	0.05	4.2	15,980	0.06	1,441	0.6	
	N	1,990	138	138	138	1,990	138	1,990	1,990	

ANALYSIS OF WOOD DUCK HUNTING IN VIRGINIA DURING THE 1989-90 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION		
									LICENSEES	TOTAL	
1	ESTIMATE	27,070	0.347	2.50	48.5	68,881	7.20	8,388	53.2	124	
	(SE)	6,356	0.061	0.55	6.2	11,082	0.83	1,015			
	N	1,990	66	66	66	1,990	66	1,990			
2	ESTIMATE	12,200	0.576	3.50	64.3	19,317	6.07	1,779	2.9	124	
	(SE)	4,536	0.173	1.25	13.3	5,911	1.27	474			
	N	1,990	14	14	14	1,990	14	1,990			
3	ESTIMATE	6,227	0.021	0.22	11.1	20,588	10.56	1,144	7.3	124	
	(SE)	3,649	0.009	0.22	11.1	9,145	6.26	380			
	N	1,990	9	9	9	1,990	9	1,990			
4	ESTIMATE	5,973	0.000	0.00	0.0	10,675	4.25	508	1.6	124	
	(SE)	3,640	0.000	0.00	0.0	4,885	1.93	254			
	N	1,990	4	4	4	1,990	4	1,990			
5	ESTIMATE	16,140	0.348	2.58	38.7	37,745	7.42	3,940	25.0	124	
	(SE)	5,383	0.099	0.91	8.9	8,808	1.38	702			
	N	1,990	31	31	31	1,980	31	1,990			
										PERCENT OF TOTAL	
										LICENSEES	
STATEWIDE	ESTIMATE	44,354	0.330	2.36	42.8	125,308	7.14	17,538	6.9		
	(SE)	7,951	0.048	0.03	4.2	15,860	0.06	1,441	0.6		
	N	1,990	138	138	138	1,990	138	1,990	1,990		

2000 DUCK HUNTING IN VIRGINIA DURING THE 1999-00 HUNTING SEASON

	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	11,311	0.143	1.03	30.3	68,881	7.20	8,388	53.2
	(SE)	2,828	0.034	0.26	5.7	11,082	0.83	1,015	4.5
	N	1,990	66	66	66	1,990	66	1,990	124
	ESTIMATE	2,542	0.035	0.21	14.3	19,317	6.07	1,779	11.3
	(SE)	1,414	0.023	0.15	9.7	5,911	1.27	474	2.9
	N	1,990	14	14	14	1,990	14	1,990	124
	ESTIMATE	3,304	0.095	1.00	11.1	20,588	10.56	1,144	7.3
	(SE)	1,796	0.040	1.00	11.1	9,145	6.26	380	2.3
	N	1,990	9	9	9	1,990	9	1,990	124
	ESTIMATE	2,161	0.000	0.00	0.0	10,675	4.25	508	3.2
	(SE)	1,386	0.000	0.00	0.0	4,885	1.93	254	1.6
	N	1,990	4	4	4	1,990	4	1,990	124
	ESTIMATE	5,973	0.130	0.97	32.3	37,745	7.42	3,940	25.0
	(SE)	2,216	0.039	0.41	8.5	8,808	1.38	702	3.9
	N	1,990	31	31	31	1,990	31	1,990	124
	STATEWIDE	17,284	0.128	0.91	27.5	125,308	7.14	17,538	6.9
	(SE)	3,529	0.021	0.01	3.8	15,860	0.06	1,441	0.6
	N	1,990	138	138	138	1,990	138	1,990	1,990

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	PERCENT OF TOTAL	
										LICENSEES	TOTAL
1	ESTIMATE	52,487	0.621	4.47	47.0	68,881	7.20	8,388	53.2		
	(SE)	15,560	0.107	0.92	6	11,082	0.83	1,015	4.5		
	N	1,990	66	66	66	1,990	66	1,990	124		
2	ESTIMATE	17,284	0.365	2.21	35.7	19,317	6.07	1,779	11.3		
	(SE)	12,869	0.125	0.98	13.3	5,911	1.27	474	2.9		
	N	1,990	14	14	14	1,990	14	1,990	124		
3	ESTIMATE	14,107	0.063	0.67	33.3	20,588	10.56	1,144	7.3		
	(SE)	12,725	0.024	0.37	16.7	9,145	6.26	360	2.3		
	N	1,990	9	9	9	1,990	9	1,990	124		
4	ESTIMATE	13,344	0.000	0.00	0.0	10,675	4.25	508	3.2		
	(SE)	12,717	0.000	0.00	0.0	4,885	1.93	254	1.6		
	N	1,990	4	4	4	1,990	4	1,990	124		
5	ESTIMATE	23,765	0.357	2.65	51.6	37,745	7.42	3,940	25.0		
	(SE)	13,248	0.080	0.84	9.1	8,808	1.38	702	3.9		
	N	1,990	31	31	31	1,990	31	1,990	124		
STATEWIDE	ESTIMATE	67,738	0.525	3.75	42.0	125,308	7.14	17,538	6.9		
	(SE)	16,106	0.113	0.06	4.2	15,860	0.06	1,441	0.6		
	N	1,990	138	138	138	1,990	138	1,990	1,990		

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									PERCENT HUNTERS	PER CENT HUNTERS PER REGION
ESTIMATE	4,956	0.642	2.00	29.4	9,023	3.12	2,160	32.7		
1 (SE)	2,433	0.309	1.03	11.4	2,966	1.09	522	6.6		
N	1,990	17	17	17	1,990	17	1,990	52		
ESTIMATE	1,525	0.438	1.00	28.6	4,321	2.29	890	13.5		
2 (SE)	761	0.287	0.72	18.4	1,318	0.52	336	0.0		
N	1,990	7	7	7	1,990	7	1,990	52		
ESTIMATE	3,304	1.000	4.20	60.0	4,956	4.20	635	9.6		
3 (SE)	2,230	0.426	3.25	24.5	1,825	1.71	284	4.1		
N	1,990	5	5	5	1,990	5	1,990	52		
ESTIMATE	636	0.000	0.00	0.0	2,542	2.00	127	1.9		
4 (SE)	381	0.000	0.00	0.0	1,015	2.00	127	1.9		
N	1,990	1	1	1	1,990	1	1,990	52		
ESTIMATE	6,736	0.672	1.95	63.6	10,421	2.91	2,796	42.3		
5 (SE)	2,016	0.184	0.54	10.5	2,283	0.42	593	6.9		
N	1,990	22	22	22	1,990	22	1,990	52		
STATEWIDE										PERCENT OF TOTAL LICENSEES
ESTIMATE	14,996	0.610	1.74	40.3	22,495	2.85	7,879	3.1		
(SE)	3,900	0.126	0.02	6.3	4,018	0.02	985	0.4		
N	1,990	62	62	62	1,990	62	1,990	52		

ESTIMATES OF GOOSE HUNTING IN VIRGINIA DURING THE 1999-00 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	2,161	0.205	0.56	44.4	19,190	2.70	3,431	34.6
	(SE)	608	0.062	0.13	9.7	5,839	0.55	656	5.4
	N	1,990	27	27	27	1,990	27	1,990	78
2	ESTIMATE	6,227	1.119	3.62	84.6	15,251	3.23	1,652	16.7
	(SE)	2,252	0.258	0.96	10.4	5,510	0.41	457	4.2
	N	1,990	13	13	13	1,990	13	1,990	78
3	ESTIMATE	5,719	0.531	7.17	83.3	20,207	13.50	763	7.7
	(SE)	4,363	0.050	5.38	16.7	9,392	9.40	311	3.0
	N	1,990	6	6	6	1,990	6	1,990	78
4	ESTIMATE	3,558	2.000	6.50	50.0	11,565	3.25	508	5.1
	(SE)	3,185	1.718	6.17	28.9	5,367	1.31	254	2.5
	N	1,990	4	4	4	1,990	4	1,990	78
5	ESTIMATE	18,046	0.833	5.00	60.7	31,263	6.00	3,558	35.9
	(SE)	6,363	0.164	1.55	9.4	7,447	0.98	668	5.5
	N	1,990	28	28	28	1,990	28	1,990	78
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	35,839	0.608	3.19	58.0	58,714	5.25	11,184	4.4
	(SE)	8,659	0.106	0.03	5.3	11,186	0.04	1,166	0.5
	N	1,990	88	88	88	1,990	88	1,990	1,990

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEEES	TOTAL
1	ESTIMATE	4,448	0.268	1.10	70.0	10,421	4.10	1,271	15.9	
	(SE)	1,182	0.122	0.31	15.3	5,249	1.84	401	4.6	
	N	1,990	10	10	10	1,990	10	1,990	63	
2	ESTIMATE	4,067	0.149	0.77	53.8	13,725	5.15	1,652	20.6	
	(SE)	1,090	0.066	0.23	14.4	5,775	1.77	457	5.1	
	N	1,990	13	13	13	1,990	13	1,990	63	
3	ESTIMATE	3,813	0.667	1.33	66.7	6,736	2.00	763	9.5	
	(SE)	1,105	0.197	0.49	21.1	4,530	0.63	311	3.7	
	N	1,990	6	6	6	1,990	6	1,990	63	
4	ESTIMATE	7,879	0.600	3.55	63.6	13,471	5.91	1,398	17.5	
	(SE)	3,972	0.441	2.66	15.2	5,711	1.92	420	4.8	
	N	1,990	11	11	11	1,990	11	1,990	63	
5	ESTIMATE	5,719	0.126	0.87	52.2	25,418	6.91	2,923	36.5	
	(SE)	1,271	0.060	0.20	10.6	9,902	2.72	606	6.1	
	N	1,990	23	23	23	1,990	23	1,990	63	
PERCENT OF TOTAL										
STATEWIDE										
	ESTIMATE	15,632	0.246	1.35	56.3	49,564	5.49	9,023	3.6	
	(SE)	4,184	0.083	0.02	5.9	11,480	0.05	1,052	0.4	
	N	1,990	71	71	71	1,990	71	1,990	1,990	

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	7,371	0.485	2.67	83.3	10,167	5.50	1,525	26.7
	(SE)	2,426	0.163	1.09	11.2	3,916	2.01	439	6.7
	N	1,990	12	12	12	1,990	12	1,990	45
2	ESTIMATE	5,973	0.368	2.27	63.6	10,421	6.18	1,398	24.4
	(SE)	2,364	0.176	1.25	15.2	3,610	1.74	420	6.5
	N	1,990	11	11	11	1,990	11	1,990	45
3	ESTIMATE	3,050	0.400	0.67	33.3	2,415	1.67	381	6.7
	(SE)	1,402	0.480	0.67	33.3	1,024	0.33	220	3.8
	N	1,990	3	3	3	1,990	3	1,990	45
4	ESTIMATE	4,448	0.205	1.13	37.5	7,371	5.50	1,017	17.8
	(SE)	1,600	0.081	0.67	18.3	2,697	1.66	359	5.8
	N	1,990	8	8	8	1,990	8	1,990	45
5	ESTIMATE	4,194	0.105	0.55	36.4	9,023	5.18	1,398	24.4
	(SE)	1,485	0.079	0.25	15.2	4,159	2.56	420	6.5
	N	1,990	11	11	11	1,990	11	1,990	45
STATEWIDE	ESTIMATE	14,107	0.340	1.71	56.9	32,534	5.02	6,481	2.6
	(SE)	3,253	0.083	0.01	7.0	7,077	0.03	896	0.4
	N	1,990	51	51	51	1,990	51	1,990	1,990

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEES	TOTAL
1	ESTIMATE	254	0.000	0.00	0.0	3,050	3.00	127	1.8	
	(SE)	180	0.000	0.00	0.0	2,573	3.00	127	1.8	
	N	1,990	1	1	1	1,990	1	1,990	56	
2	ESTIMATE	508	0.054	0.50	25.0	7,371	9.25	508	7.1	
	(SE)	311	0.024	0.50	25.0	4,185	5.30	254	3.5	
	N	1,990	4	4	4	1,990	4	1,990	56	
3	ESTIMATE	2,161	0.140	0.48	29.6	14,488	3.44	3,431	48.2	
	(SE)	792	0.045	0.20	9.0	4,019	0.64	656	6.7	
	N	1,990	27	27	27	1,990	27	1,990	56	
4	ESTIMATE	1,017	0.082	0.33	25.0	8,896	4.03	1,525	21.4	
	(SE)	401	0.045	0.19	13.1	3,572	1.20	439	5.5	
	N	1,990	12	12	12	1,990	12	1,990	56	
5	ESTIMATE	381	0.333	0.50	8.3	3,050	1.50	1,525	21.4	
	(SE)	220	0.055	0.05	27.6	2,560	0.50	439	5.5	
	N	1,990	2	2	2	1,990	12	1,990	56	
										PERCENT OF TOTAL
										LICENSEES
STATEWIDE	ESTIMATE	3,304	0.096	0.41	26.5	26,434	4.24	6,227	2.5	
	(SE)	914	0.027	0.00	6.4	5,787	0.02	879	0.3	
	N	1,990	49	49	49	1,990	49	1,990	1,990	

ESTIMATES OF HUNTING ACTIVITY IN SOUTH DAKOTA DURING THE 1995-96 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									PERCENT HUNTERS PER REGION	PERCENT HUNTERS PER REGION
1	ESTIMATE	21,605	0.964	8.10	80.0	32,662	8.40	1,271	14.7	
	(SE)	7,526	0.174	3.07	13.3	14,186	2.57	401	4.3	
	N	1,990	10	10	10	1,990	10	1,990	68	
2	ESTIMATE	26,688	0.348	8.94	77.8	80,828	25.72	2,288	26.5	
	(SE)	9,331	0.084	3.41	10.1	28,306	9.34	537	5.4	
	N	1,990	18	18	18	1,990	18	1,990	68	
3	ESTIMATE	27,451	0.246	6.75	79.2	105,737	27.46	3,050	35.3	
	(SE)	6,765	0.057	1.55	8.5	29,464	6.70	619	5.8	
	N	1,990	24	24	24	1,990	24	1,990	68	
4	ESTIMATE	14,996	0.261	4.50	66.7	48,293	17.25	1,525	17.6	
	(SE)	4,493	0.079	1.74	14.2	16,849	4.67	439	4.7	
	N	1,990	12	12	12	1,990	12	1,990	68	
5	ESTIMATE	7,752	0.667	3.00	75.0	24,274	4.50	508	5.9	
	(SE)	2,753	0.216	1.22	25.0	13,527	2.50	254	2.9	
	N	1,990	4	4	4	1,990	4	1,990	68	
STATEWIDE										PERCENT OF TOTAL
ESTIMATE		83,369	0.308	6.56	76.5	219,099	21.28	10,294	4.1	LICENSEES
(SE)		14,659	0.036	0.06	4.7	41,091	0.16	1,121	0.4	
N		1,990	81	81	81	1,990	81	1,990	1,990	

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEEES	TOTAL
1	ESTIMATE	890	0.400	1.00	50.0	3,431	2.50	254	6.5	6.5
	(SE)	421	0.160	1.00	50.0	1,888	1.50	180	4.5	4.5
	N	1,990	2	2	2	1,990	2	1,990	31	31
2	ESTIMATE	1,906	0.059	0.56	25.0	14,361	5.69	2,033	51.6	51.6
	(SE)	870	0.060	0.38	11.2	4,764	1.69	506	9.1	9.1
	N	1,990	16	16	16	1,990	16	1,990	31	31
3	ESTIMATE	763	0.125	0.20	20.0	3,813	1.60	635	16.1	16.1
	(SE)	359	0.140	0.20	20.0	1,884	0.40	284	6.7	6.7
	N	1,990	5	5	5	1,990	5	1,990	31	31
4	ESTIMATE	508	0.000	0.00	0.0	4,829	3.20	635	16.1	16.1
	(SE)	311	0.000	0.00	0.0	2,086	0.86	284	6.7	6.7
	N	1,990	5	5	5	1,990	5	1,990	31	31
5	ESTIMATE	1,017	0.167	1.33	66.7	5,846	8.00	381	9.7	9.7
	(SE)	508	0.182	0.89	33.3	3,142	6.00	220	5.4	5.4
	N	1,990	3	3	3	1,990	3	1,990	31	31
PERCENT OF TOTAL										
STATEWIDE	ESTIMATE	3,050	0.102	0.50	26.5	21,096	4.88	4,321	1.7	1.7
	(SE)	1,015	0.041	0.00	7.7	5,547	0.02	735	0.3	0.3
	N	1,990	34	34	34	1,990	34	1,990	1,990	1,990

TABLE 42. EXPANDED STATEWIDE SUMMARY OF TOTAL SQUIRREL HUNTING IN VIRGINIA DURING THE 1999-00 HUNTING SEASON

STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENSEES
ESTIMATE	965,356	1.391	10.17	88.5	656,661	7.31	89,851	35.5
(SE)	49,051	0.080	0.19	1.2	49,051	0.17	2,714	1.1
N	1,990	707	707	707	1,990	707	1,990	1,990

TABLE 43. EXPANDED STATEWIDE SUMMARY OF TOTAL GOOSE HUNTING IN VIRGINIA DURING THE 1999-00 HUNTING SEASON

STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENSEES
ESTIMATE	50,835	0.615	3.67	57.0	81,209	5.97	13,598	5.4
(SE)	11,542	0.093	0.05	4.8	13,581	0.05	1,279	0.5
N	1,990	107	107	107	1,990	107	1,990	1,990

TABLE 44. (Q18) OPINIONS OF GUN DEER HUNTERS REGARDING APPROPRIATE LENGTH OF GUN DEER SEASON IN WESTERN ZONE.*

	STATEWIDE	REGIONS				
		1	2	3	4	5
1 WEEK	2.50	2.93	2.72	2.28	1.98	2.52
2 WEEKS	4.17	3.85	3.93	4.84	4.62	3.5
3 WEEKS	3.99	3.92	3.84	4.48	3.78	3.93
4 WEEKS	3.77	3.92	4.06	3.43	3.32	3.96
7 WEEKS	4.26	4.46	4.64	3.14	3.8	4.87

* MEAN SCORES, WHERE 1=STRONGLY OPPOSE, 4=DOES NOT MATTER, 7=STRONGLY FAVOR

TABLE 45. (Q20) PERCEPTIONS OF DEER HUNTERS REGARDING OVERALL QUALITY OF GUN DEER HUNTING DURING 1999-2000.*

	STATEWIDE	REGIONS				
		1	2	3	4	5
	3.88	4.31	3.75	3.71	3.67	4.09

* MEAN SCORES, WHERE 1=POOR, 4=ADEQUATE, 7=EXCELLENT

TABLE 46. (Q21) STATEWIDE AND REGIONAL SUMMARIES OF GUN DEER HUNTERS WHO TOOK A YOUNG PERSON HUNTING MORE OFTEN IN 1999-2000 DUE TO NEW REGULATION THAT ALLOWS YOUNG HUNTERS TO HARVEST ANTLERLESS DEER ANYTIME DURING THE SEASON (PCT).

RESPONSE	STATEWIDE	REGIONS				
		1	2	3	4	5
YES	21.0	27.1	20.9	17.2	18.3	21.8
NO	79.0	72.9	79.1	82.8	81.7	78.2

**TABLE 47. (Q22) MEAN NUMBER OF ANIMALS SEEN BY ARCHERY DEER HUNTERS IN 1999-2000
HUNTING SEASON BY REGION.**

SPECIES	STATEWIDE	REGIONS				
		1	2	3	4	5
BEAR	0.26	0.14	0.16	0.33	0.40	0.25
BOBCAT	0.24	0.27	0.31	0.32	0.17	0.13
RED FOX	1.26	1.18	0.82	0.85	1.62	2.34
GRAY FOX	1.73	2.21	3.22	0.57	1.40	2.11
MINK	0.03	0.00	0.02	0.02	0.05	0.04
WEASEL	0.02	0.00	0.01	0.03	0.00	0.04
RACCOON	1.47	1.86	1.24	1.42	1.19	1.88
COYOTE	0.19	0.12	0.52	0.55	0.13	0.02
RIVER OTTER	0.16	0.21	0.15	0.28	0.02	0.15
TURKEY	14.92	11.42	18.83	18.38	12.29	12.58
GROUSE	2.08	0.38	1.35	4.24	2.88	1.17

**TABLE 48. (Q24) PERCEPTIONS OF FALL TURKEY HUNTERS REGARDING OVERALL QUALITY
OF 1999 FALL TURKEY SEASON. ***

	STATEWIDE	REGIONS				
		1	2	3	4	5
	3.80	4.00	3.92	3.73	3.74	3.68

* MEAN SCORES, WHERE 1=POOR, 4=ADEQUATE, 7=EXCELLENT

**TABLE 49. (Q25) PERCEPTIONS OF SPRING TURKEY HUNTERS REGARDING OVERALL QUALITY
OF 2000 SPRING TURKEY SEASON. ***

	STATEWIDE	REGIONS				
		1	2	3	4	5
	4.02	4.16	4.24	3.85	3.67	3.87

* MEAN SCORES, WHERE 1=POOR, 4=ADEQUATE, 7=EXCELLENT

TABLE 50. (Q26) PERCENTAGE OF BEAR HUNTERS UTILIZING SELECTED METHODS/SEASONS (PCT).

RESPONSE	STATEWIDE	REGIONS				
		1	2	3	4	5
ARCHERY SEASON	41.7	25.0	8.3	40.0	47.2	45.5
GUN W/O DOGS	75.9	100.0	78.6	66.7	69.6	75.0
GUN USING DOGS	43.4	20.0	73.3	43.5	38.9	36.4

TABLE 51. (Q27) OPINIONS OF ALL HUNTERS REGARDING THE DEGREE TO WHICH THEY APPROVE OR DISAPPROVE OF LEGAL TRAPPING. *

STATEWIDE

3.79

* MEAN SCORE, WHERE 1=STRONGLY DISAPPROVE, 4=NEUTRAL, 7=STRONGLY APPROVE

TABLE 52. (Q28) STATEWIDE AND REGIONAL SUMMARIES OF RED FOXES HARVESTED UTILIZING SELECTED METHODS/SEASONS (PCT).

RESPONSE	STATEWIDE	REGIONS				
		1	2	3	4	5
DEER HUNTING - GUN SEASON	63.1	42.9	54.5	55.6	50.2	77.2
HUNTING OTHER GAME	21.9	28.5	9.1	44.4	16.6	18.2
FOX HUNTING W/O ELECTRONICS	5.5	14.3	0.0	0.0	16.6	4.6
FOX HUNTING W/ ELECTRONICS	9.5	14.3	36.4	0.0	16.6	0.0

TABLE 53. (Q29) STATEWIDE AND REGIONAL SUMMARIES OF GRAY FOXES HARVESTED UTILIZING SELECTED METHODS/SEASONS (PCT).

RESPONSE	STATEWIDE	REGIONS				
		1	2	3	4	5
DEER HUNTING - GUN SEASON	33.7	34.2	33.3	0.0	40.0	14.3
HUNTING OTHER GAME	18.2	5.8	13.4	100.0	0.0	85.7
FOX HUNTING W/O ELECTRONICS	4.0	8.6	0.0	0.0	0.0	0.0
FOX HUNTING W/ ELECTRONICS	44.1	51.4	53.3	0.0	60.0	0.0

TABLE 54. (Q30) PERCENTAGE OF TIME SPENT HUNTING FOR SELECTED SPECIES BY TYPES OF LAND.

SPECIES	NF	SWMA	CORP. LAND	PRIVATE LAND
DOVE	1.67	4.30	1.25	92.78
QUAIL	3.59	8.64	7.30	80.47
RUFFED GROUSE	36.97	4.16	2.89	55.98
SQUIRREL	15.37	3.62	3.74	77.27
DEER	13.83	2.70	7.96	75.51
FALL TURKEY	19.19	3.34	7.64	69.83
SPRING TURKEY	16.67	2.30	4.25	76.78
BEAR	54.32	3.51	4.64	37.53
FOX	2.67	1.15	7.25	88.93
RACCOON	11.45	4.80	2.53	81.22

TABLE 55. (Q31) PERCENTAGE OF ANIMALS HARVESTED BY TYPES OF LAND.

SPECIES	NF	SWMA	CORP. LAND	PRIVATE LAND
DOVE	0.63	3.07	1.87	94.43
QUAIL	4.02	2.02	13.38	80.58
RUFFED GROUSE	25.76	1.66	1.39	71.19
SQUIRREL	14.32	1.94	2.36	81.38
DEER	8.35	1.10	4.10	86.45
FALL TURKEY	10.04	0.49	2.87	86.60
SPRING TURKEY	11.02	1.22	2.45	85.31
BEAR	22.22	22.22	0.00	55.56
FOX	0.00	0.00	6.31	93.69
RACCOON	13.78	2.88	3.37	79.97

TABLE 56. (Q32, Q33, Q34, Q35) STATEWIDE SUMMARY OF HUNTERS' PERCEPTIONS REGARDING
WHY THEY HUNTED ON SELECTED TYPES OF LAND IN 1999-2000. *

ATTRIBUTE	NF	SWMA	CORP. LAND	PRIV. LAND
A. GAINING ACCESS	5.12	4.88	4.78	4.88
B. DOVE POPULATIONS	3.40	3.94	3.73	4.42
C. QUAIL POPULATIONS	3.05	3.21	3.79	3.54
D. RUFFED GROUSE	3.84	3.63	3.66	3.67
E. SQUIRREL POPULATIONS	5.07	5.04	4.73	5.49
F. DEER POPULATIONS	4.56	4.71	5.49	5.79
G. TURKEY POPULATIONS	4.85	4.60	5.29	5.45
H. BEAR POPULATIONS	4.11	3.84	3.77	3.71
I. FOX POPULATIONS	3.87	3.87	4.43	4.25
J. RACCOON POPULATIONS	4.22	4.10	4.14	4.38
K. FEEL REASONABLY SAFE	4.86	4.70	5.61	6.12
L. FEWER HUNTERS	3.38	3.08	5.06	5.87
M. HUNTING REMOTE AREAS	6.06	5.68	5.69	5.95
N. PROPERTY LINES	4.99	4.53	4.25	3.89
O. SCOUT AND EXPLORE	6.04	5.93	5.66	5.66
P. NO OTHER HUNTING LANDS	3.82	3.63	3.10	3.74
Q. SPEND TIME W/ OTHER HUNTERS	4.81	4.20	4.99	5.29
R. NO PERMISSION REQUIRED	5.77	5.69	4.67	4.13
S. SEE WILDLIFE	5.32	5.31	5.28	5.55
T. FOREST MANAGEMENT PRACTICES	5.20	5.56	5.16	5.34
U. AG MANAGEMENT PRACTICES	5.06	5.60	5.12	5.63
V. CLOSE TO HOME	4.87	4.84	3.24	5.76

* MEAN SCORES, WHERE 1=STRONGLY DISAGREE, 4=NEITHER AGREE NOR DISAGREE,
7=STRONGLY AGREE

TABLE 57. (Q36) HUNTERS PERCEPTIONS REGARDING OVERALL QUALITY OF HUNTING ON SELECTED TYPES OF LAND. *

LAND TYPE	USERS OF LAND	NON-USERS OF LAND
NATIONAL FORESTS	3.94	3.79
SWMA	4.12	3.95
CORPORATE LANDS	4.72	4.01
PRIVATE LANDS	5.31	5.27

* MEAN SCORES, WHERE 1=POOR, 4=ADEQUATE, 7=EXCELLENT

TABLE 58. (Q37) PERCEPTIONS OF DEER HUNTERS WHO ARE USERS AND NON-USERS REGARDING THE NUMBER OF DEER HUNTERS SEEN ON SELECTED TYPES OF LAND. *

LAND TYPE	USERS	NON-USERS OF LAND
NATIONAL FORESTS	3.11	3.36
SWMA	3.32	3.43
CORPORATE LANDS	3.39	3.39
PRIVATE LANDS	3.41	3.36

* MEAN SCORES, WHERE 1=DECLINED DRAMATICALLY, 3=REMAINED ABOUT THE SAME, 5=INCREASED DRAMATICALLY

TABLE 59. (Q38) STATEWIDE AND REGIONAL SUMMARIES OF HUNTERS HUNTING ON CORPORATE LAND AS A MEMBER OF A HUNT CLUB IN 1999-2000 (PCT).

RESPONSE	STATEWIDE	REGIONS				
		1	2	3	4	5
YES	15.0	30.5	21.7	2.0	3.1	15.5
NO	85.0	69.5	78.3	98.0	96.9	84.5

TABLE 60. (Q39) STATEWIDE AND REGIONAL SUMMARIES OF HUNTERS HUNTING ON PRIVATE LAND AS A MEMBER OF A HUNT CLUB IN 1999-2000 (PCT).

RESPONSE	STATEWIDE	REGIONS				
		1	2	3	4	5
YES	33.8	58.4	42.4	9.3	21.8	33.7
NO	66.2	41.6	57.6	90.7	78.2	66.3

**TABLE 61. (Q40, Q41, Q43, Q44) PERCENTAGES OF ALL HUNTERS WHO HUNTED GAME BIRDS
ON A LICENSED PRIVATE SHOOTING PRESERVE DURING 1999-2000 HUNTING SEASON.***

HUNTED PRIVATE PRESERVE? (PCT. YES)	3.7					
SPECIES HUNTED	RESPONSE					
BOBWHITE QUAIL	62.1					
RING-NECKED PHEASANTS	50.0					
CHUKARS	34.8					
MALLARDS	9.1					
HUNGARIAN PARTRIDGES	0.0					
OTHER	9.1					
AVERAGE COST PER SEASON (IN DOLLARS)	348.48					
OVERALL RATING OF QUALITY*	5.36					

* MEAN SCORES, WHERE 1=POOR, 4=ADEQUATE, 7=EXCELLENT

**TABLE 62. (Q42) PERCENTAGE OF SHOOTING PRESERVE HUNTERS WHO HUNTED WILD
BOBWHITE QUAIL ON OTHERLANDS OUTSIDE A PRESERVE DURING THE 1999-2000 HUNTING
SEASON (PCT).**

RESPONSE	PCT.					
YES	30.2					
NO	69.8					

TABLE 63. (Q45-Q46) SELECTED DEMOGRAPHICS OF ALL RESPONDENTS.

DEMOGRAPHIC	RESPONSE
AGE (MEAN YEARS)	43.63
GENDER (PCT)	
MALE	97.5
FEMALE	2.5

TABLE 64. (Q47) STATEWIDE SUMMARY OF CURRENT RESIDENCES OF ALL HUNTERS, 1999-2000 (PCT).

TYPE OF RESIDENCE	RESPONSE
FARM	19.2
RURAL, BUT NOT FARM	43.1
TOWN (LESS THAN 50,000 POP.)	13.8
URBAN CITY (OVER 50,000 POP.)	9.8
SUBURBAN (ADJACENT TO CITY OVER 50,000 POP.)	14.1

TABLE 65. (Q48A-Q48B) STATEWIDE SUMMARY OF OWNERSHIP OF LAND SUITABLE FOR HUNTING 1999-2000.

RESPONSE	STATEWIDE	REGIONS				
		1	2	3	4	5
OWN LAND? (PCT)						
YES	30.2	28.1	37.2	26.4	28.2	24.8
NO	69.8	71.9	62.8	73.6	71.8	75.2
NUMBER OF ACRES (MEAN)	113.72	130.81	132.94	75.13	86.68	113.42

References

- Cochran, W.G. 1977. Sampling techniques. 3rd ed. New York: John Wiley and Sons, Inc. 428 pp.
- Davis, D.E. and R.L. Winstead. 1980. Estimating the numbers of wildlife populations. Pages 221-246 in S.D. Schemnitz, ed. Wildlife management techniques manual. 4th ed. Washington, DC: The Wildlife Society. 686 pp.
- Dillman, D.A. 1978. Mail and telephone surveys: the total design method. New York: John Wiley and Sons, Inc. 321 pp.
- Filion, F.L. 1980. Human surveys in wildlife management. Pages 441-453 in S.D. Schemnitz, ed. Wildlife management techniques manual. 4th ed. Washington, DC: The Wildlife Society. 686 pp.
- Jackson, R. and R. Norton. 1979. Improving ethical behavior in hunters. Trans. N. Amer. Wildlife and Natural Resources Conference. 44:306-318 pp.
- Steffen, D.E. 1987. Mississippi mail survey of game harvest and hunter effort for 1986-87. Jackson, MS: Dept. of Wildlife Conservation. 49 pp.
- Wright, B.A. 1995. Virginia survey of hunter harvest, effort and attitudes 1993-94. Richmond, VA: Department of Game & Inland Fisheries. 80 pp.
- Wright, B.A. and M.R. McFarland. 1996. Virginia survey of hunter harvest, effort and attitudes 1994-1995. Richmond, VA: Department of Game & Inland Fisheries. 78 pp.
- Wright, B.A. and N.D. Emerald. 1997. Virginia survey of hunter harvest, effort, and attitudes 1995-96. Richmond, VA: Department of Game & Inland Fisheries. 74 pp.
- Wright, B.A. and N.D. Emerald. 1998. Virginia survey of hunter harvest, effort, and attitudes 1996-97. Richmond, VA: Department of Game & Inland Fisheries. 74 pp.
- Wright, B.A. and N.D. Emerald. 1999. Virginia survey of hunter harvest, effort, and attitudes 1997-98. Richmond, VA: Department of Game & Inland Fisheries. 74 pp.
- Wright, B.A. and N.D. Emerald. 2000. Virginia survey of hunter harvest, effort, and attitudes 1998-99. Richmond, VA: Department of Game & Inland Fisheries. 80 pp.

Appendix

1999-2000
Virginia Hunter Survey



**Virginia Department of Game and Inland Fisheries
and George Mason University**

VIRGINIA DEPARTMENT OF GAME AND INLAND FISHERIES

HUNTER QUESTIONNAIRE



Please answer each of the following questions completely. All responses to questions will be kept in strictest confidence. Results from this study will be reported only in an aggregate total, never attributed to any individual.

1. Did you purchase a Virginia resident hunting license for the 1999-00 hunting season (July 1, 1999 - June 30, 2000)?
 Yes
 No (If no, do not go further. Please fold the questionnaire, place it in the return envelope, and return it as soon as possible.)
2. What type of license(s) did you purchase? (✓ Check all that apply.)
 State resident license (allowing you to hunt statewide)
 County/City license (allowing you to hunt only in the county/city where purchased)
 Senior license (for residents 65 years or older)
 Big game license (deer, bear, and turkey permit)
 Other (please specify) _____

On the next page, we would like information regarding the number of game animals you harvested during the 1999-00 hunting season.

INSTRUCTIONS:

- Put the number of animals you **harvested personally** in 1999-00 in each of the boxes below. Be as accurate as possible.
- Do not include game taken by anyone other than you.
- If you hunted an animal, but were unsuccessful, place a zero (0) in the space.
- If you did not hunt a particular animal, leave the space blank.

3. Small Game (Birds) Harvest:

Dove	Quail	Woodcock	Ruffed Grouse	Crow

4. Small Game (Mammals) Harvest:

Rabbit	Gray Squirrel	Fox Squirrel	Groundhog/Woodchuck

5. Big Game Harvest:

Deer						Turkey			Bear	
Archery		Muzzleloader		Gun		Spring 1999	Fall 1999	Spring 2000		
Bucks	Does	Bucks	Does	Bucks	Does					

6. Waterfowl Harvest:

Ducks				Geese	
Mallard	Wood	Black	All Others	Sept. Season	Nov.-Mar. Season

7. Furbearer Harvest:

Red Fox	Gray Fox	Coyote	Raccoon	Bobcat

Next, we would like to know more about the time you spent afield. Below, please indicate the number of days in which each species was the primary animal you hunted. Count partial days as 1 day hunted.

8. Small Game (Birds) Days Hunted:

Dove	Quail	Woodcock	Ruffed Grouse	Crow

9. Small Game (Mammals) Days Hunted:

Rabbit	Gray Squirrel	Fox Squirrel	Groundhog/Woodchuck

10. Big Game Days Hunted:

Deer			Turkey			Bear
Archery	Muzzleloader	Gun	Spring '99	Fall '99	Spring '00	

11. Waterfowl Days Hunted:

Ducks	Geese	
	Sept. Season	Nov.-Mar. Season

12. Furbearer Days Hunted:

Red Fox	Gray Fox	Coyote	Raccoon	Bobcat

Using the map at the bottom of this page, indicate the region of the state where you most often hunted each species by placing the number corresponding to that region in the space provided. If you did not hunt an animal, leave the space blank.

13. Small Game (Birds) Region Hunted:

Dove	Quail	Woodcock	Ruffed Grouse	Crow

14. Small Game (Mammals) Region Hunted:

Rabbit	Gray Squirrel	Fox Squirrel	Groundhog/Woodchuck

15. Big Game Region Hunted:

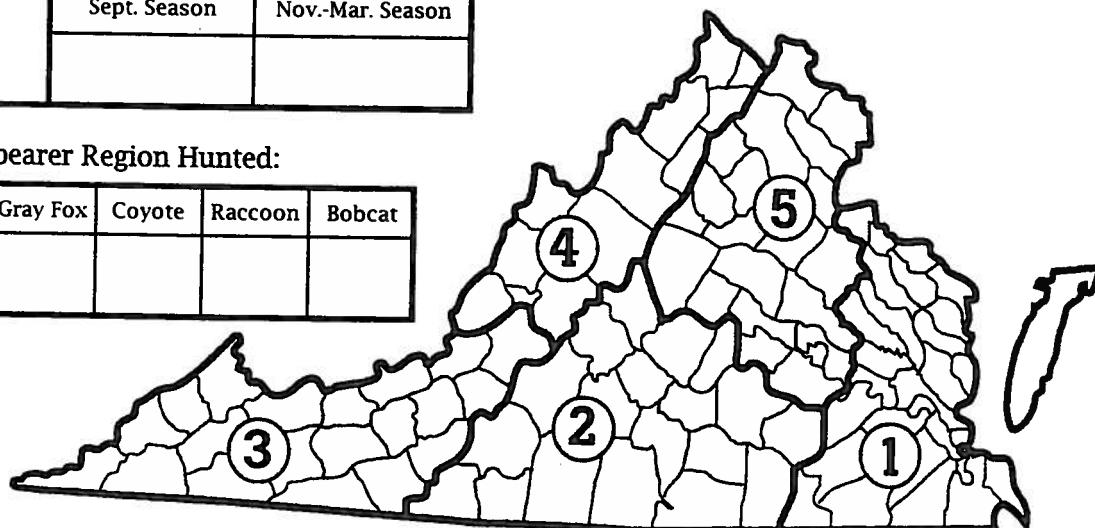
Deer			Turkey			Bear
Archery	Muzzleloader	Gun	Spring '99	Fall '99	Spring '00	

16. Waterfowl Region Hunted:

Ducks	Geese	
	Sept. Season	Nov.-Mar. Season

17. Furbearer Region Hunted:

Red Fox	Gray Fox	Coyote	Raccoon	Bobcat



The next question asks your views regarding managing DEER, whether or not you hunted deer in 1999-00.

18. If you were asked to help set the season length of the GUN DEER season in the WESTERN ZONE (West of Blue Ridge), to what extent would you favor or oppose each of the following season lengths.

	Strongly Oppose		Does Not Matter		Strongly Favor	
a. 1 week	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6
b. 2 weeks	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 7
c. 3 weeks	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6
d. 4 weeks	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 7
e. 7 weeks (same as eastern zone)	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6

The next few questions ask your views regarding your experiences hunting DEER. (If you did not hunt DEER with a GUN in 1999-00, skip to question #22.)

19. Please indicate the county where you most often hunted DEER with a GUN during 1999-00.

_____ County.

20. Overall, how do you rate the quality of your 1999-00 DEER (GUN) season?

Poor	Adequate	Excellent
<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3

21. Compared to previous years, did you take a young person hunting more often this year because of the new regulation which allowed young deer hunters (15 years old and younger) to harvest an antlerless deer anytime during the season?

- Yes
 No

Next, we would like some idea of the number of animals you saw while ARCHERY DEER HUNTING in 1999. (If you did not hunt during ARCHERY DEER season, please skip to question #23.)

22. In the blank next to each species, place the number of animals you saw during the 1999 ARCHERY DEER SEASON. If you did not see a particular animal, place a zero (0) in the blank.

_____ a. Bear
_____ b. Bobcat
_____ c. Red Fox
_____ d. Gray Fox

_____ e. Mink
_____ f. Weasel
_____ g. Raccoon
_____ h. Coyote

_____ i. River Otter
_____ j. Turkey
_____ k. Grouse

The next three questions pertain to TURKEY hunting. (If you did not hunt TURKEYS during EITHER 1999-00 season, skip to question #26.)

23. Please indicate the county where you most often hunted FALL TURKEYS during 1999. (If you did not hunt TURKEYS in the fall, skip to question #25.)

_____ County.

24. Overall, how do you rate the quality of your 1999 FALL TURKEY season?

Poor	Adequate	Excellent				
<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷

25. Overall, how do you rate the quality of your 2000 SPRING TURKEY season? (If you did not hunt TURKEYS in the spring, skip to question #26.)

Poor	Adequate	Excellent				
<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷

The next question pertains to BEAR hunting in 1999-00. (If you did not hunt BEARS during the 1999-00 season, skip to question #27.)

26. During the 1999-00 BEAR season, did you:

- a. Hunt during the BEAR Archery Season? Yes No
- b. Hunt with a GUN WITHOUT DOGS? Yes No
- c. Hunt with a GUN USING DOGS? Yes No

Now, we would like your view on TRAPPING, regardless of whether or not you actively trapped wildlife during the 1999-00 seasons.

27. Please indicate the extent to which you approve or disapprove of legal TRAPPING:

Strongly Disapprove	Neutral	Strongly Approve				
<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷

Next, we would like to know about hunting foxes. (If you did not hunt FOXES during the 1999-00 season, skip to question #30.)

28. If you killed a RED FOX during any of the 1999-00 hunting seasons, how many did you kill while:

- a. deer hunting during the regular gun season? _____ Red Foxes
- b. hunting for other game? _____ Red Foxes
- c. hunting specifically for foxes without an electronic calling device? _____ Red Foxes
- d. hunting for foxes, using an electronic calling device? _____ Red Foxes

29. If you killed a GRAY FOX during any of the 1999-00 hunting seasons, how many did you kill while:

- a. deer hunting during the regular gun season? _____ Gray Foxes
- b. hunting for other game? _____ Gray Foxes
- c. hunting specifically for foxes without an electronic calling device? _____ Gray Foxes
- d. hunting for foxes, using an electronic calling device? _____ Gray Foxes

The next series of questions is related to HUNTING LANDS. We want to know your views about 4 different types of land - National Forest Lands, State Wildlife Management Areas, Corporate Lands (i.e., WESTVACO, Union Camp, etc.) and Private Lands.

30. In the spaces below, please indicate the number of days you hunted each species on each of the 4 types of land during the 1999-00 seasons:

	National Forest Lands	State Wildlife Management Areas	Corporate Lands	Private Lands
a. Doves	_____	_____	_____	_____
b. Quail	_____	_____	_____	_____
c. Ruffed Grouse	_____	_____	_____	_____
d. Squirrel	_____	_____	_____	_____
e. Deer	_____	_____	_____	_____
f. Fall Turkey	_____	_____	_____	_____
g. Spring Turkey	_____	_____	_____	_____
h. Bear	_____	_____	_____	_____
i. Fox	_____	_____	_____	_____
j. Raccoon	_____	_____	_____	_____

31. In the spaces below, please indicate the number of animals you harvested on each of the 4 types of land during the 1999-00 seasons:

	National Forest Lands	State Wildlife Management Areas	Corporate Lands	Private Lands
a. Doves	_____	_____	_____	_____
b. Quail	_____	_____	_____	_____
c. Ruffed Grouse	_____	_____	_____	_____
d. Squirrel	_____	_____	_____	_____
e. Deer	_____	_____	_____	_____
f. Fall Turkey	_____	_____	_____	_____
g. Spring Turkey	_____	_____	_____	_____
h. Bear	_____	_____	_____	_____
i. Fox	_____	_____	_____	_____
j. Raccoon	_____	_____	_____	_____

Please indicate the extent to which you agree or disagree with the following statements about NATIONAL FORESTS. (If you did not hunt on NATIONAL FORESTS during the 1999-00 seasons, please skip to question #33.)

	Strongly Disagree		Neither Agree Nor Disagree		Strongly Agree		
32. I hunt on NATIONAL FORESTS because:							
a. Gaining access to suitable hunting is no problem.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
b. Dove populations provide good hunting.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
c. Quail populations provide good hunting.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
d. Ruffed grouse populations provide good hunting.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
e. Squirrel populations provide good hunting.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
f. Deer populations provide good hunting.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
g. Turkey populations provide good hunting.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
h. Bear populations provide good hunting.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
i. Fox populations provide good hunting.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
j. Raccoon populations provide good hunting.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
k. I feel reasonably safe while hunting.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
l. Compared to other types of land, hunter numbers are fewer.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
m. I enjoy hunting in remote areas.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
n. I don't have to worry about locations of property lines.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
o. I like to have a large hunting area in which to scout and explore.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
p. I have no other land on which to hunt.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
q. It is easier to spend time with my hunting companions.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
r. I do not have to worry about getting permission to hunt.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
s. There are abundant opportunities to see other wildlife while hunting.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
t. Forest management practices benefit wildlife.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
u. Agricultural management practices benefit wildlife.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
v. Lands are close to my home.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7

Please indicate the extent to which you agree or disagree with the following statements about WILDLIFE MANAGEMENT AREAS. (If you did not hunt on WILDLIFE MANAGEMENT AREAS during the 1999-00 seasons, please skip to question #34.)

33. I hunt on WILDLIFE MANAGEMENT AREAS because:	Strongly Disagree	Neither Agree Nor Disagree	Strongly Agree
a. Gaining access to suitable hunting is no problem.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
b. Dove populations provide good hunting.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
c. Quail populations provide good hunting.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
d. Ruffed grouse populations provide good hunting.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
e. Squirrel populations provide good hunting.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
f. Deer populations provide good hunting.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
g. Turkey populations provide good hunting.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
h. Bear populations provide good hunting.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
i. Fox populations provide good hunting.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
j. Raccoon populations provide good hunting.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
k. I feel reasonably safe while hunting.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
l. Compared to other types of land, hunter numbers are fewer.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
m. I enjoy hunting in remote areas.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
n. I don't have to worry about locations of property lines.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
o. I like to have a large hunting area in which to scout and explore.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
p. I have no other land on which to hunt.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
q. It is easier to spend time with my hunting companions.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
r. I do not have to worry about getting permission to hunt.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
s. There are abundant opportunities to see other wildlife while hunting.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
t. Forest management practices benefit wildlife.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
u. Agricultural management practices benefit wildlife.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
v. Lands are close to my home.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		

Please indicate the extent to which you agree or disagree with the following statements about CORPORATE LANDS (i.e., WESTVACO, Union Camp, etc.). (If you did not hunt on CORPORATE LANDS during the 1999-00 seasons, please skip to question #35.)

	Strongly Disagree	Neither Agree Nor Disagree			Strongly Agree		
34. I hunt on CORPORATE LANDS because:							
a. Gaining access to suitable hunting is no problem.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
b. Dove populations provide good hunting.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
c. Quail populations provide good hunting.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
d. Ruffed grouse populations provide good hunting.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
e. Squirrel populations provide good hunting.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
f. Deer populations provide good hunting.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
g. Turkey populations provide good hunting.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
h. Bear populations provide good hunting.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
i. Fox populations provide good hunting.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
j. Raccoon populations provide good hunting.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
k. I feel reasonably safe while hunting.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
l. Compared to other types of land, hunter numbers are fewer.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
m. I enjoy hunting in remote areas.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
n. I don't have to worry about locations of property lines.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
o. I like to have a large hunting area in which to scout and explore.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
p. I have no other land on which to hunt.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
q. It is easier to spend time with my hunting companions.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
r. I do not have to worry about getting permission to hunt.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
s. There are abundant opportunities to see other wildlife while hunting.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
t. Forest management practices benefit wildlife.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
u. Agricultural management practices benefit wildlife.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7
v. Lands are close to my home.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7

Please indicate the extent to which you agree or disagree with the following statements about PRIVATE LANDS. (If you did not hunt on PRIVATE LANDS during the 1999-00 seasons, please skip to question #36.)

	Strongly Disagree	Neither Agree Nor Disagree	Strongly Agree
35. I hunt on PRIVATE LANDS because:			
a. Gaining access to suitable hunting is no problem.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
b. Dove populations provide good hunting.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
c. Quail populations provide good hunting.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
d. Ruffed grouse populations provide good hunting.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
e. Squirrel populations provide good hunting.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
f. Deer populations provide good hunting.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
g. Turkey populations provide good hunting.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
h. Bear populations provide good hunting.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
i. Fox populations provide good hunting.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
j. Raccoon populations provide good hunting.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
k. I feel reasonably safe while hunting.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
l. Compared to other types of land, hunter numbers are fewer.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
m. I enjoy hunting in remote areas.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
n. I don't have to worry about locations of property lines.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
o. I like to have a large hunting area in which to scout and explore.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
p. I have no other land on which to hunt.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
q. It is easier to spend time with my hunting companions.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
r. I do not have to worry about getting permission to hunt.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
s. There are abundant opportunities to see other wildlife while hunting.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
t. Forest management practices benefit wildlife.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 ⁷⁷		
u. Agricultural management practices benefit wildlife.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		
v. Lands are close to my home.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		

36. Overall, how would you rate the quality of the hunting on the 4 types of land during the 1999-00 hunting season?

	Poor		Adequate		Excellent
a. National Forests	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5
b. Wildlife Management Areas	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5
c. Corporate Lands	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5
d. Private Lands	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5
				<input type="checkbox"/> 6	<input type="checkbox"/> 7
				<input type="checkbox"/> 6	<input type="checkbox"/> 7
				<input type="checkbox"/> 6	<input type="checkbox"/> 7

37. When compared to previous years, would you say the number of deer hunters on the following 4 types of land has increased, remained the same or decreased?

	Declined Dramatically	Declined	Remained About the Same	Increased	Increased Dramatically
a. National Forests	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5
b. Wildlife Management Areas	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5
c. Corporate Lands	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5
d. Private Lands	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5

38. Did you hunt on CORPORATE LAND as a member of a HUNT CLUB in 1999-00?

- Yes
- No

39. Did you hunt on PRIVATE LAND as a member of a HUNT CLUB in 1999-00?

- Yes
- No

Hunting on Private Shooting Preserves

40. Did you hunt game birds on a licensed private shooting preserve during the 1999-00 hunting seasons?

- Yes
- No

41. If yes, which species did you hunt? (✓ Check all that apply.)

- a. Bobwhite quail
- b. Ring-necked pheasants
- c. Chukars
- d. Mallards
- e. Hungarian partridges
- f. Other (Please specify) _____

42. Did you also hunt WILD BOBWHITE QUAIL on other lands outside a preserve during the 1999-00 hunting season?

- Yes
 No

43. Approximately how much did you pay to hunt on a SHOOTING PRESERVE?

\$ _____ per season

44. How would you rate the quality of hunting on SHOOTING PRESERVES compared to other areas you hunted?

Poor	Adequate	Excellent
<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³
<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶
		<input type="checkbox"/> ⁷

Finally, we would like to ask a few questions about you.

45. How old are you? _____ years.

46. Gender: Male Female

47. In what type of area do you currently reside? (✓ Check only one.)

- Farm
 Rural, but not farm
 Town (less than 50,000 in population)
 Urban (city over 50,000 in population)
 Suburban (adjacent to city over 50,000 in population)

48. Do you own land on which you hunt?

- Yes No

If yes, how many acres of land, suitable for hunting, do you own?

_____ Acres

Thank you for taking the time to complete this survey. Your answers are very important to the successful management of wildlife in Virginia. If you have questions regarding the study or this questionnaire, please contact the Center for Recreation Resources Policy at (703) 993-2064.

PLEASE FOLD THE QUESTIONNAIRE,
PLACE IT IN THE RETURN ENVELOPE, AND
RETURN IT TO US AS SOON AS POSSIBLE.
THANKS AGAIN!

Hunter Survey
Center for Recreation Resources Policy
George Mason University
Mail Stop 1F6
Fairfax, VA 22030-4444