
Wildlife Resource Bulletin No. 09-3

December 2009

Virginia Survey of Hunter Harvest, Effort, and Attitudes 2008-2009



Wildlife Division

Virginia Department of Game and Inland Fisheries

Wildlife Resource Bulletin

This publication series of the Virginia Department of Game and Inland Fisheries is intended to provide semi-technical and technical summaries of annual wildlife research projects, population monitoring surveys, wildlife harvest data, and species status information.

Copies of this publication may be obtained free of charge from the Wildlife Division, Virginia Department of Game and Inland Fisheries, P.O. Box 11104, Richmond, Virginia 23230.

Production Credits

Bob Ellis, editor
Emily Pels, graphic artist
Carol Kushlak, layout
Spike Knuth, cover illustration

This program received Federal financial assistance in Sport Fish and/or Wildlife Restoration. Under Title VI of the 1964 Civil Rights Act, Section 504 of the Rehabilitation Act of 1973, Title II of the Americans with Disabilities Act of 1990, the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, the U.S. Department of the Interior prohibits discrimination on the basis of race, color, national origin, age, sex, or disability. If you believe that you have been discriminated against in any program, activity or facility as described above, or if you desire further information please write to the Office for Human Resources, U.S. Fish and Wildlife Service, 4040 N. Fairfax Drive, Room 300, Arlington, VA 22203.

Contributors

Coren P. Jagnow, was the Principal Investigator, and is the Survey Coordinator for the Virginia Department of Game and Inland Fisheries, Richmond, VA.

Jay Howell, Data Analyst for the Virginia Department of Game and Inland Fisheries, Richmond, VA.

David E. Steffen, Forest Wildlife Program Manager for the Virginia Department of Game and Inland Fisheries, Roanoke, VA.

Acknowledgements

The authors would like to express their appreciation to the many people who assisted with this study. They are: Bob Duncan, Bob Ellis, Mike Fies, Cale Godfrey, Carman Houston, Matt Knox, Nelson Lafon, Gary Norman, K. Marc Puckett, and Jaime Sajecki. Without their dedication and perseverance, this study would not have been possible.



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

Table of Contents

Page

Contributors.....	iii
Acknowledgements.....	iii
List of Tables.....	v
List of Figures.....	x
Introduction.....	1
Methods.....	1
Generation of Sample.....	1
Development of the Survey Instrument.....	2
Administration of the Survey.....	3
Response Rate.....	3
Data Analyses.....	3
Results.....	4
Notes.....	5
Tables.....	7
References.....	60
Appendix A. Survey Instrument.....	61

List of Tables

Table	Page
1	2008-2009 Hunting Population and Survey Sample Statistics2
2	Expanded Statewide Summary of Game Harvest Based on the 2008-2009 Survey of Virginia Hunters.....8
3	Expanded Statewide Estimates of Total Harvest (with Std Errors) for Virginia Games Species During 2008-2009.....9
4	Expanded Statewide and Regional Summaries of DOVE Hunting in Virginia During the 2008-2009 Hunting Season.....10
5	Expanded Statewide and Regional Summaries of QUAIL Hunting in Virginia During the 2008-2009 Hunting Season.....11
6	Expanded Statewide and Regional Summaries of WOODCOCK Hunting in Virginia During the 2008-2009 Hunting Season.....12
7	Expanded Statewide and Regional Summaries of RUFFED GROUSE Hunting in Virginia During the 2008-2009 Hunting Season.....13
8	Expanded Statewide and Regional Summaries of CROW Hunting in Virginia During the 2008-2009 Hunting Season.....14
9	Expanded Statewide and Regional Summaries of RABBIT Hunting in Virginia During the 2008-2009 Hunting Season.....15
10	Expanded Statewide and Regional Summaries of GRAY SQUIRREL Hunting in Virginia During the 2008-2009 Hunting Season.....16
11	Expanded Statewide and Regional Summaries of FOX SQUIRREL Hunting in Virginia During the 2008-2009 Hunting Season.....17
12	Expanded Statewide Summary of TOTAL SQUIRREL Hunting in Virginia During the 2008-2009 Hunting Season.....18
13	Expanded Statewide and Regional Summaries of GROUNDHOG Hunting in Virginia During the 2008-2009 Hunting Season.....19
14	Expanded Statewide and Regional Summaries of ARCHERY DEER (Buck and Doe) Hunting in Virginia During the 2008-2009 Hunting Season.....20
15	Expanded Statewide and Regional Summaries of ARCHERY DEER (BUCK) Hunting in Virginia During the 2008-2009 Hunting Season.....21
16	Expanded Statewide and Regional Summaries of ARCHERY DEER (DOE) Hunting in Virginia During the 2008-2009 Hunting Season.....22
17	Expanded Statewide and Regional Summaries of MUZZLELOADER DEER (Buck and Doe) Hunting in Virginia During the 2008-2009 Hunting Season.....23

Table	Page
18 Expanded Statewide and Regional Summaries of MUZZLELOADER DEER (BUCK) Hunting in Virginia During the 2008-2009 Hunting Season.....	24
19 Expanded Statewide and Regional Summaries of MUZZLELOADER DEER (DOE) Hunting in Virginia During the 2008-2009 Hunting Season.....	25
20 Expanded Statewide and Regional Summaries of GUN DEER (Buck and Doe) Hunting in Virginia During the 2008-2009 Hunting Season.....	26
21 Expanded Statewide and Regional Summaries of GUN DEER (BUCK) Hunting in Virginia During the 2008-2009 Hunting Season.....	27
22 Expanded Statewide and Regional Summaries of GUN DEER (DOE) Hunting in Virginia During the 2008-2009 Hunting Season.....	28
23 Expanded Statewide Summary of TOTAL DEER Hunting in Virginia During the 2008-2009 Hunting Season (Archery, Muzzleloader, and Gun Combined).....	29
24 Expanded Statewide Summary of TOTAL DEER (BUCK) Hunting in Virginia During the 2008-2009 Hunting Season (Archery, Muzzleloader, and Gun Combined).....	29
25 Expanded Statewide Summary of TOTAL DEER (DOE) Hunting in Virginia During the 2008-2009 Hunting Season (Archery, Muzzleloader, and Gun Combined).....	29
26 Expanded Statewide and Regional Summaries of SPRING TURKEY Hunting in Virginia During the 2008-2009 Hunting Season.....	30
27 Expanded Statewide and Regional Summaries of FALL TURKEY Hunting in Virginia During the 2008-2009 Hunting Season.....	31
28 Expanded Statewide Summary of TOTAL TURKEY Hunting in Virginia during the 2008-2009 Hunting Season (Fall 2008 and Spring 2009 Combined).....	32
29 Expanded Statewide and Regional Summaries of BEAR Hunting in Virginia During the 2008-2009 Hunting Season.....	33
30 Expanded Statewide and Regional Summaries of MALLARD DUCK Hunting in Virginia During the 2008-2009 Hunting Season.....	34
31 Expanded Statewide and Regional Summaries of WOOD DUCK Hunting in Virginia During the 2008-2009 Hunting Season.....	35
32 Expanded Statewide and Regional Summaries of BLACK DUCK Hunting in Virginia During the 2008-2009 Hunting Season.....	36
33 Expanded Statewide and Regional Summaries of OTHER DUCK Hunting in Virginia During the 2008-2009 Hunting Season.....	37
34 Expanded Statewide and Regional Summaries of TOTAL DUCK (All Species) Hunting in Virginia During the 2008-2009 Hunting Season.....	38
35 Expanded Statewide and Regional Summaries of GOOSE (SEPTEMBER) Hunting in Virginia During the 2008-2009 Hunting Season.....	39

Table	Page
36	Expanded Statewide and Regional Summaries of GOOSE (NOVEMBER-MARCH) Hunting in Virginia During the 2008-2009 Hunting Season.....40
37	Expanded Statewide and Regional Summaries of TOTAL GOOSE Hunting in Virginia During the 2008-2009 Hunting Season.....41
38	Expanded Statewide and Regional Summaries of RED FOX Hunting in Virginia During the 2008-2009 Hunting Season.....42
39	Expanded Statewide and Regional Summaries of GRAY FOX Hunting in Virginia During the 2008-2009 Hunting Season.....43
40	Expanded Statewide and Regional Summaries of COYOTE Hunting in Virginia During the 2008-2009 Hunting Season.....44
41	Expanded Statewide and Regional Summaries of RACCOON Hunting in Virginia During the 2008-2009 Hunting Season.....45
42	Expanded Statewide and Regional Summaries of BOBCAT Hunting in Virginia During the 2008-2009 Hunting Season.....46
43	Responses to the question, ‘During the 2008-2009 hunting season did you introduce and take a new hunter (youth or adult) hunting in Virginia?’ (Q18)47
44	Responses to the question, ‘Are you aware of the new apprentice hunting license?’ (Q19).....47
45	Responses to the statement ‘Please indicate the level of importance you place on hunting each of the following species:’ (Q20).....47
46	Responses to the statement, ‘Please indicate the number of days spent during the 2008-2009 hunting season on each of these types of land.’ (Q21)48
47	Responses to the question, ‘Did you hunt with a dog during the 2008-2009 hunting season?’ (Q22).....48
48	Responses to the question, ‘Did you hunt during the 2008 June squirrel season?’ (Q23).....48
49	Responses to the question, ‘Did you hunt turkey during the 2008 fall season?’ (Q24)....49
50	Responses to the question, ‘If you did not hunt turkey during the Fall 2008 season, what can DGIF do to increase your interest in fall turkey hunting?’ (Q25).....49
51	Responses to the statement, ‘Some areas with low turkey densities have experienced long-term declines in turkey populations. Reducing the fall either-sex season may increase hen survival and promote higher populations. Would you support reducing the current 6-week fall season to a 2-week fall season in the following areas to increase turkey populations?’(Q26).....49
52	Perceptions of fall turkey hunters regarding the overall quality of the 2008 fall turkey season. (Q28).....50

Table	Page
53	Perceptions of spring turkey hunters regarding the overall quality of the 2009 spring turkey season. (Q30).....50
54	Responses to the question, ‘Did you take a youth hunting on the 2009 youth turkey hunting day—April 4, 2009? (Q31).....50
55	Responses to the statement, ‘How would you rate wildlife populations of each species on National Forests lands in Virginia?’ (Q32).....50
56	Responses to the statement, ‘Please indicate your level of agreement or disagreement with the following statements about National Forests:’ (Q33).....51
57	Responses to the statement, ‘Please indicate your level of agreement or disagreement with the following statements about Wildlife Management Areas:’ (Q34).....52
58	Responses to the question, ‘Even if you are not a bear hunter, what advice would you give to VDGIF regarding how to manage bear populations?’ (Q35).....53
59	Responses to the question, ‘If you killed a black bear during any of the 2008-2009 hunting seasons, did you kill it while?’(Q36).....53
60	Responses to the question, ‘During the 2008-2009 Bear season, did you:’ (Q37).....53
61	Responses to the question, ‘Did you participate in the 2008 bear chase season?’(Q38).....53
62	Responses to the question, ‘How would you rate the size of the deer herd in the area in which you hunted most in 2008-2009:’ (Q39).....54
63	Responses to the statement, ‘When compared to previous years, would say the number of deer in the area you hunted in 2008-2009:’ (Q40).....54
64	Responses to the statement, ‘What advice would you give to VDGIF regarding how to manage the deer herd?’ (Q41)54
65	Responses to the question, ‘In the past year, would you say you’ve heard a great deal, a moderate amount, a little, or nothing about Chronic Wasting Disease (CWD)?’ (Q42).....54
66	Responses to the statement, ‘Please indicate your level of support for a deer hound training season outside of the deer firearms season.’ (Q43).....55
67	Responses to the statement, ‘If a deer hound training season were established, please indicate your level of support or opposition for each of the following periods when the season could be held:’ (Q43).....55
68	Perceptions of deer hunters regarding the overall quality of the 2008-2009 deer seasons. (Q45).....55
69	Responses the statement, ‘Please indicate the number of days you hunted deer during the firearms season on each of the following land types during the 2008-2009 season.’ (Q46).....56
70	Responses to the question, ‘If you had the opportunity while hunting specifically for deer, would you kill a bear?’ (Q47).....56

Table	Page
71 Responses to the question, ‘The last time you had the opportunity to kill a bear, what happened?’ (Q48).....	56
72 Responses to the question, “While gun deer hunting during the 2008-2009 season, were you disturbed by:’ (Q49).....	57
73 Responses to the statement, “While gun deer hunting, how concerned are you about disturbance from:’ (Q50).....	57
74 Responses to the statement, ‘If you were asked to help set the yearly antlered buck limit for deer, please indicate the degree to which you would oppose or support each of the following bag limits:’ (Q51).....	57
75 Responses to the statement, ‘If you were asked to help set the opening date for archery deer season, please indicate the degree to which you support or oppose each of the following dates:’ (Q52).....	57
76 Responses to the statement, ‘Please indicate the degree to which you would support or oppose a reduction in the harvest of antlered bucks so that more bucks in the population will become older and larger:’ (Q53).....	58
77 Responses to the statement, ‘In order to reduce the harvest of antlered bucks so that more bucks in the population would become older and larger, please indicate the degree to which you would favor or oppose:’ (Q54)	58
78 Responses to the statement, ‘If you were asked to help set regulations to reduce the antlered buck harvest in the area where you hunt, to what extent would you favor or oppose each of the following approaches:’ (Q55).....	58
79 Responses to the question, ‘Did you hunt deer on National Forest land during the 2008-2009 hunting season?’ (Q56).....	59
80 Responses to the question, ‘Did you hunt on DMAP enrolled lands during the 2008-2009 hunting seasons?’ (Q57).....	59
81 Responses to the question, ‘Are you familiar with the regulatory input process DGIF has been conducting since September 2008?’ (Q58).....	59
82 Responses to the question, ‘How old are you?’ (Q59).....	59
83 Responses to the question, ‘Are you male or female?’ (Q60).....	59

List of Figures

Figure	Page
1	Five Regions of Virginia.....4

Introduction

The Virginia Department of Game and Inland Fisheries is the primary agency responsible for managing the state's fish and wildlife resources. Agency staff depend upon accurate population indices to monitor the health of wildlife species. Biologists and managers are also charged with making decisions that affect hunters across the Commonwealth. Surveying a sample of the statewide hunter population provides them with the opportunity to ask hunters questions about their preferences for season lengths and bag limits. Additionally, an annual survey of hunters gives DGIF staff an indication of hunter preferences, behavior, and potential constraints.

The Virginia Department of Game and Inland Fisheries has conducted 21 surveys since the program's inception during the 1965-1966 hunting season. These surveys provide valuable information to biologists and managers throughout Virginia. First, game harvest indices are used for monitoring changes in harvest and hunter effort across seasons. These data, in turn, are used to regulate harvests, evaluate habitat conditions, and monitor various aspects of the socio-economic environment (Steffen 1981). Socio-psychological questions about hunter behavior and their preferences for season lengths and bag limits also provide valuable information for determining regulations that affect hunters across Virginia.

The purpose of this survey 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 survey of Virginia resident hunting license buyers was conducted in Spring 2009. A random sample of 5,000 (2.41%) Virginia resident hunters was drawn out of a population of hunters who purchased a general state resident hunting license, a Sportsman's Hunting and Fishing license, a county/city license, or a senior (65+) license for the 2008-2009 season (N=207,550). The sample was drawn from 2008-2009 licenses sold by license vendors and internet licenses sold on the Virginia Department of Game and Inland Fisheries website. Name and address information was obtained from records maintained by Information Management Systems in the the Administrative Services Division of DGIF. A distribution proportionately representative of hunters among the four license categories was maintained (Table 1).

In general, the sampling procedures used in this study replicate and extend the work described by Steffen (1981) as employed in Mississippi, with one exception occurring for this survey. The 2008-2009 license year was the third year that all licenses were sold electronically, thus making it possible to obtain the sample from the current license year, instead of using data from the previous license year which had to be done in the past.

Table 1.
2008-2009 Hunting Population and Survey Sample Statistics

License Type	Population	Percent
Sportsman's Licenses	3,446	1.7%
State Resident Licenses	185,969	89.6%
County/City Licenses	8,507	4.1%
Senior (65+) Licenses	9,628	4.6%
Total	207,550	100.0%

Development of the Survey Instrument

The survey instrument was developed to collect harvest data for selected Virginia game and furbearing species (Appendix A). This instrument was designed to allow the replication of data collection on an annual basis. VDGIF staff biologists and administrators were polled to determine general areas of data need. Game harvest data served as the core of the survey instrument. Hunter effort data, preferences for seasons and bag limits, and other social-psychological data were collected as well.

Questions were grouped by topic and efforts were made to create a logical order (Dillman 2000). Questions about hunter sociodemographic characteristics were placed at the end of the survey. As Dillman (2000) noted, questions about respondent income are often seen as objectionable. Placing income and other potentially offensive questions at the end of the survey makes the respondent less likely to “quit” the survey and contributes to these questions seeming “less objectionable in light of previous questions already answered” (Dillman 2000, p.88). To ensure that information was gathered only from active hunters, a screening question was included that restricted responses to those who purchased a hunting license in the 2008-2009 Virginia hunting season.

Administration of the Survey

Procedures outlined by Dillman (1978; 2000) were employed to collect survey data. A questionnaire, self-addressed pre-stamped envelope, and a cover letter explaining the importance of the study were mailed to each of the study participants. Two weeks after the initial mailing, a post card reminder was sent to each hunter to encourage an early response. Non-respondents to the first mailing were identified and, when necessary, one follow-up mailing (consisting of the questionnaire, return envelope and a revised cover letter) was distributed.

The following dates were used for the administration of the 2008-2009 Virginia Hunter Survey:

May 14, 2009—First copy of the survey mailed

May 28, 2009—Reminder postcard mailed

June 15, 2009—Follow up mailing

Response Rate

By the end of the data collection period, 283 surveys were returned as undeliverable (e.g., individual had moved, incorrect address given, forwarding order expired). These individuals were removed from the original sample. Another 30 questionnaires were returned by addressees for reasons that included: did not purchase a license or the hunter is now deceased. These individuals were also removed resulting in a sample size of 4,687. Of these, a total of 1,927 usable questionnaires were received.

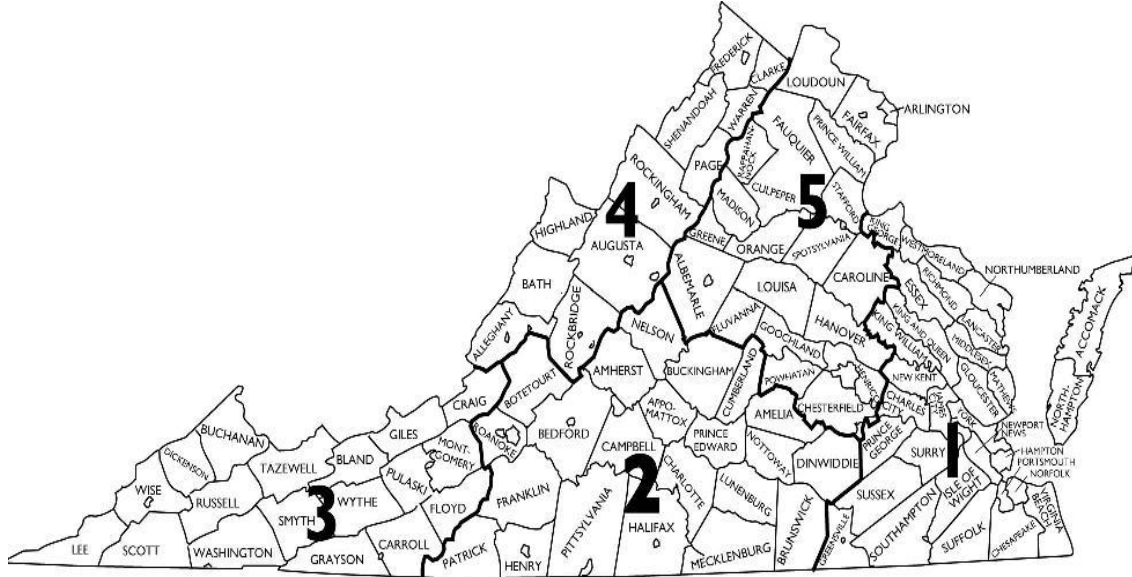
The response rate for the total sample was calculated using the following equation:

Response Rate= (Number of people responding ÷ Number of people sampled) (Fowler 1993). When calculating response rates, incorrect addresses, ineligible hunters, and deceased hunters were subtracted from the original sample, while hunters who did not respond to the survey remained in the sample. The effective response rate for this survey was 41.1 percent.

Data Analyses

Data from returned questionnaires were entered into a computer file and analyzed using standard statistical techniques. Estimates of statewide and regional harvests of each species were generated. For each estimate, the level of precision (standard error) is included. Estimates were calculated based on the total licenses sold in 2008-2009. 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 harvest estimates and standard errors, readers are referred to Steffen (1981).

Figure 1. Five Regions of Virginia



Results

Results of all data analyses are presented in tabular form and segmented into two sections of information. The first section includes tables that reference the estimates and standard errors of harvest and effort for 40 game species (or subpopulations of game animals) during the 2008-2009 hunting seasons. Statewide summaries are shown in Tables 2 and 3. Regional estimates are provided in Tables 4-42.

The second section includes tables that reference the analysis of hunters' preferences for selected season dates, bag limits, game management strategies, and other data pertinent to the management of hunting in Virginia. This information is included in Tables 43-83.

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 that they *not* be viewed as absolute numbers, especially when comparing these statistics with those from other studies. Rather, the data provided are only indices of harvest and effort, and should be used in conjunction with data from previous and future mail surveys (in this ongoing research project) to determine trends. Response and non-response biases exist in all survey efforts. Therefore, care must be taken to fully replicate study methods so that biases are held constant (known) and valid trend analyses can be made.
2. Total Harvest and Total Man-Days statistics are derived from a formula utilizing the total number of licenses sold for the 2008-2009 hunting season (n=207,550). 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 specifically hunting for that game animal.
4. Percentages may not always total 100 percent due to rounding or missing values.
5. Regions were renumbered after the 1993-1994 study. The composition of the regions, however, is consistent among studies. Please refer to the map, Figure 1 (page 4).
6. Missing regional data for each species hunted were treated differently prior to the 1997-1998 study. Beginning with the 1997-1998 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 4-42. Compared to previous surveys, this change particularly impacted the regional estimates reported for Average Daily Kill, Average Seasonal Harvest, Percent 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 studies conducted 1993-1994 through 1996-1997. The statewide estimators remained unaffected by this change.
7. Parenthetical notations displayed immediately following a table title (e.g. Q24) refer to the specific question number(s) in the survey instrument.

TABLES

Table 2. Expanded Statewide Summary of Game Harvest Based on the 2008-2009 Survey of Virginia Hunters.

SPECIES	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT TOTAL LICENSES
Dove	671226	4.23	14.93	78.1	156282	3.53	44267	21.3
Quail	79272	1.568	7.37	45.7	47606	4.7	10124	4.9
Woodcock	4093	0.468	1.2	46.7	8293	2.57	3231	1.6
Ruffed Grouse	11525	0.152	0.73	32.3	63870	4.78	13356	6.4
Crow	127309	1.752	7.46	79.7	65593	4.26	15402	7.4
Rabbit	303085	1.006	6.92	77.3	283806	6.88	41252	19.9
Gray Squirrel	539070	1.205	8.09	80	411330	6.71	61285	29.5
Fox Squirrel	68609	0.397	2.92	62.1	154774	7.37	21003	10.1
Total Squirrel	607679	0.987	8.92	81.4	566104	9.03	62685	30.2
Groundhog	227045	0.737	7.07	82.9	252810	9.61	26388	12.7
Archery Deer (Buck and Doe)	47822	0.057	0.6	35.9	769853	10.52	73240	35.3
Archery Deer (Buck)	21003	0.025	0.26	20.6	769853	10.52	73240	35.3
Archery Deer (Doe)	26819	0.032	0.34	23.7	769853	10.52	73240	35.3
Muzzleloader Deer (Buck and Doe)	72917	0.084	0.63	43.7	827506	7.46	111045	53.5
Muzzleloader Deer (Buck)	41036	0.047	0.35	31.4	827506	7.46	111045	53.5
Muzzleloader Deer (Doe)	31881	0.037	0.27	20.1	827506	7.46	111045	53.5
Gun Deer (Buck and Doe)	187301	0.095	1.06	50.5	1866226	11.13	167699	80.8
Gun Deer (Buck)	78410	0.04	0.44	34.6	1866226	11.13	167699	80.8
Gun Deer (Doe)	108891	0.055	0.62	34.5	1866226	11.13	167699	80.8
Total Deer	308040	0.086	1.67	63.7	3463585	19.47	177931	85.7
Total Deer (Buck)	140449	0.039	0.76	49	3463585	19.47	177931	85.7
Total Deer (Doe)	167591	0.046	0.91	44.5	3463585	19.47	177931	85.7
Spring Turkey 2009	26280	0.062	0.36	26	398836	5.84	68286	32.9
Fall Turkey 2008	6893	0.028	0.11	10.5	217028	4.05	53530	25.8
Total Turkey	33174	0.051	0.37	26	615865	7.21	85411	41.2
Bear	2154	0.011	0.08	7.6	152620	6.75	22618	10.9
Mallard Duck	79810	0.458	4.44	59.7	160698	9.69	16587	8
Wood Duck	40713	0.251	2.43	45.5	160698	9.69	16587	8
Black Duck	18525	0.109	1.05	31.2	160698	9.69	16587	8
Other Duck	94458	0.572	5.55	40.9	160698	9.69	16587	8
Total Duck (All Species)	233507	1.389	13.46	77.9	160698	9.69	16587	8
Goose (September)	35220	1.329	5.27	56.5	26496	3.97	6678	3.2
Goose (November-March)	111045	0.979	7.14	69.4	113092	7.29	15510	7.5
Total Goose	146265	1.046	8.69	68.6	139587	8.31	16802	8.1
Red Fox	10986	0.089	0.62	39.8	98982	6.91	14325	6.9
Gray Fox	18956	0.152	1.14	36	100382	7.46	13463	6.5
Coyote	24449	0.091	0.97	40.4	221236	9.92	22403	10.8
Raccoon	88319	0.365	6.5	66.9	225879	18.06	12709	6.1
Bobcat	2908	0.039	0.28	13.9	61285	7.2	8509	4.1

Table 3. Expanded Statewide Estimates of Total Harvest (With Standard Errors) for Virginia Game Species During 2008-2009.

SPECIES	TOTAL HARVEST	STANDARD ERROR		95% CONFIDENCE INTERVAL	
		SE	AS % OF TOTAL *	LOWER LIMIT	UPPER LIMIT
Dove	671226	49922	7.44	573379	769073
Quail	79272	24246	30.59	31750	126794
Woodcock	4093	1536	37.53	1082	7104
Ruffed Grouse	11525	2036	17.67	7534	15516
Crow	127309	18406	14.46	91233	163385
Rabbit	303085	29644	9.78	244983	361187
Gray Squirrel	539070	31584	5.86	477165	600975
Fox Squirrel	68609	7542	10.99	53827	83391
Total Squirrel	607679	34393	5.66	540269	675089
Groundhog	227045	22513	9.92	182920	271170
Archery Deer (Buck and Doe)	47822	3450	7.21	41060	54584
Archery Deer (Buck)	21003	1794	8.54	17487	24519
Archery Deer (Doe)	26819	2333	8.7	22246	31392
Muzzleloader Deer (Buck and Doe)	72917	3601	4.94	65859	79975
Muzzleloader Deer (Buck)	41036	2175	5.3	36773	45299
Muzzleloader Deer (Doe)	31881	2486	7.8	27008	36754
Gun Deer (Buck and Doe)	187301	7041	3.76	173501	201101
Gun Deer (Buck)	78410	3102	3.96	72330	84490
Gun Deer (Doe)	108891	5456	5.01	98197	119585
Total Deer	308040	9658	3.14	289110	326970
Total Deer (Buck)	140449	4480	3.19	131668	149230
Total Deer (Doe)	167591	7031	4.2	153810	181372
Spring Turkey 2009	26280	2098	7.98	22168	30392
Fall Turkey 2008	6893	913	13.25	5104	8682
Total Turkey	33174	2382	7.18	28505	37843
Bear	2154	479	22.24	1215	3093
Mallard Duck	79810	11021	13.81	58209	101411
Wood Duck	40713	6880	16.9	27228	54198
Black Duck	18525	3532	19.07	11602	25448
Other Duck	94458	17559	18.59	60042	128874
Total Duck (All Species)	233507	32901	14.09	169021	297993
Goose (September)	35220	7507	21.31	20506	49934
Goose (November-March)	111045	17012	15.32	77701	144389
Total Goose	146265	22084	15.1	102980	189550
Red Fox	10986	1563	14.23	7923	14049
Gray Fox	18956	4455	23.5	10224	27688
Coyote	24449	5283	21.61	14094	34804
Raccoon	88319	16931	19.17	55134	121504
Bobcat	2908	879	30.23	1185	4631

* % = 100(SE/Total harvest)

Table 4. Expanded Statewide and Regional Summaries of Dove Hunting in Virginia During the 2008-2009 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	196328	3.9	14.53	73.4	50335	3.73	13510	31.9
	(SE)	31013	0.462	1.92	4	6477	0.36	1173	2.4
	N	1905	124	124	124	1905	124	1905	389
2	ESTIMATE	159721	4.044	13.24	80.9	39222	3.27	11985	28.3
	(SE)	21919	0.405	1.36	3.8	4987	0.29	1109	2.3
	N	1905	110	110	110	1905	110	1905	389
3	ESTIMATE	28763	2.694	11	75	10677	4.08	2615	6.2
	(SE)	7878	0.64	2.07	9	3375	1.01	531	1.2
	N	1905	24	24	24	1905	24	1905	389
4	ESTIMATE	49463	3.948	16.81	74.1	12529	4.26	2942	6.9
	(SE)	14632	0.592	3.87	8.6	3181	0.73	562	1.3
	N	1905	27	27	27	1905	27	1905	389
5	ESTIMATE	208857	5.126	18.43	84.6	40747	3.6	11331	26.7
	(SE)	29880	0.461	1.97	3.6	5147	0.3	1081	2.2
	N	1905	104	104	104	1905	104	1905	389
STATEWIDE	ESTIMATE	671226	4.23	14.93	78.1	156282	3.53	44267	21.3
	(SE)	49922	0.234	0.91	2	10207	0.17	1937	0.9
	N	1927	411	411	411	1927	411	1927	1927

Table 5. Expanded Statewide and Regional Summaries of Quail Hunting in Virginia During the 2008-2009 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	13635	1.071	4.29	42.9	9090	4	2272	24.7
	(SE)	6978	0.618	2.6	11.1	2921	0.97	493	4.7
	N	1918	21	21	21	1918	21	1918	85
2	ESTIMATE	36576	2.38	11.27	63.3	15366	4.73	3246	35.3
	(SE)	16166	0.645	4.62	8.9	4396	1.07	588	5.2
	N	1918	30	30	30	1918	30	1918	85
3	ESTIMATE	108	0.022	0.11	11.1	4978	5.11	974	10.6
	(SE)	108	0.024	0.11	11.1	2079	1.37	324	3.4
	N	1918	9	9	9	1918	9	1918	85
4	ESTIMATE	216	0.047	0.4	20	4653	8.6	541	5.9
	(SE)	216	0.018	0.4	20	3326	5.36	242	2.6
	N	1918	5	5	5	1918	5	1918	85
5	ESTIMATE	26836	2.365	12.3	40	11254	5.2	2164	23.5
	(SE)	16865	1.245	7.48	11.2	3939	1.44	482	4.6
	N	1918	20	20	20	1918	20	1918	85
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	79272	1.568	7.37	45.7	47606	4.7	10124	4.9
	(SE)	24246	0.419	2.27	5.2	7625	0.59	1019	0.5
	N	1927	94	94	94	1927	94	1927	1927

Table 6. Expanded Statewide and Regional Summaries of Woodcock Hunting in Virginia During the 2008-2009 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	2803	0.806	3.13	87.5	3342	3.88	863	28.6
	(SE)	1462	0.364	1.37	12.5	1542	1.23	304	8.7
	N	1925	8	8	8	1925	8	1925	28
2	ESTIMATE	108	0.167	0.33	33.3	647	2	323	10.7
	(SE)	108	0.127	0.33	33.3	403	0.58	187	6
	N	1925	3	3	3	1925	3	1925	28
3	ESTIMATE	0	0	0	0	1078	3.33	323	10.7
	(SE)	0	0	0	0	792	1.86	187	6
	N	1925	3	3	3	1925	3	1925	28
4	ESTIMATE	108	0.111	0.25	25	970	2.25	431	14.3
	(SE)	108	0.134	0.25	25	539	0.63	215	6.7
	N	1925	4	4	4	1925	4	1925	28
5	ESTIMATE	970	0.474	0.9	50	2049	1.9	1078	35.7
	(SE)	444	0.237	0.31	16.7	895	0.6	340	9.2
	N	1925	10	10	10	1925	10	1925	28
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	4093	0.468	1.2	46.7	8293	2.57	3231	1.6
	(SE)	1536	0.16	0.43	9.3	2061	0.44	585	0.3
	N	1927	30	30	30	1927	30	1927	1927

Table 7. Expanded Statewide and Regional Summaries of Ruffed Grouse Hunting in Virginia During the 2008-2009 Hunting Season.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	AVERAGE SEASONAL SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	0	0	0	0	1405	6.5	216	1.7
	(SE)	0	0	0	0	1128	3.5	153	1.2
	N	1920	2	2	2	1920	2	1920	117
2	ESTIMATE	108	0.067	0.13	12.5	1621	1.88	865	6.8
	(SE)	108	0.067	0.13	12.5	620	0.3	305	2.3
	N	1920	8	8	8	1920	8	1920	117
3	ESTIMATE	4864	0.152	0.88	35.3	31997	5.8	5513	43.6
	(SE)	1450	0.037	0.24	6.8	6638	0.91	762	4.6
	N	1920	51	51	51	1920	51	1920	117
4	ESTIMATE	4756	0.18	0.83	37	22809	4.59	4973	39.3
	(SE)	1209	0.045	0.19	7.2	5167	0.8	725	4.5
	N	1920	46	46	46	1920	46	1920	117
5	ESTIMATE	540	0.156	0.5	30	3459	3.2	1081	8.5
	(SE)	358	0.046	0.31	15.3	1768	1.36	341	2.6
	N	1920	10	10	10	1920	10	1920	117
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	11525	0.152	0.73	32.3	63870	4.78	13356	6.4
	(SE)	2036	0.024	0.12	4.2	8666	0.5	1160	0.6
	N	1927	124	124	124	1927	124	1927	1927

Table 8. Expanded Statewide and Regional Summaries of Crow Hunting in Virginia During the 2008-2009 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	12864	1.455	5.6	80	8324	3.85	2162	14.7
	(SE)	4048	0.38	1.41	9.2	2339	0.68	481	3
	N	1920	20	20	20	1920	20	1920	136
2	ESTIMATE	36970	1.347	8.25	85	26484	6.13	4324	29.4
	(SE)	9817	0.264	1.87	5.7	6458	1.16	677	3.9
	N	1920	40	40	40	1920	40	1920	136
3	ESTIMATE	18161	2.435	5.79	75.9	7459	2.38	3135	21.3
	(SE)	6644	0.711	1.86	8.1	1698	0.32	578	3.5
	N	1920	29	29	29	1920	29	1920	136
4	ESTIMATE	11242	1.46	4.29	82.4	5405	2.94	1838	12.5
	(SE)	3863	0.479	1.47	9.5	1621	0.54	444	2.8
	N	1920	17	17	17	1920	17	1920	136
5	ESTIMATE	39024	2.342	11.87	80	16431	5.07	3243	22.1
	(SE)	12712	0.521	3.33	7.4	4608	1.1	588	3.6
	N	1920	30	30	30	1920	30	1920	136
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	127309	1.752	7.46	79.7	65593	4.26	15402	7.4
	(SE)	18406	0.208	1.01	3.4	8503	0.43	1240	0.6
	N	1927	143	143	143	1927	143	1927	1927

Table 9. Expanded Statewide and Regional Summaries of Rabbit Hunting in Virginia During the 2008-2009 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	61569	1.36	7.22	80.8	45034	5.31	8485	21.4
	(SE)	11033	0.147	1.03	4.5	7389	0.65	941	2.2
	N	1908	78	78	78	1908	78	1908	364
2	ESTIMATE	98880	0.936	7.15	83.1	103122	7.65	13489	34.1
	(SE)	16309	0.107	1.04	3.4	16985	1.07	1172	2.5
	N	1908	124	124	124	1908	124	1908	364
3	ESTIMATE	31655	0.947	5.4	73.6	32851	5.7	5765	14.6
	(SE)	6750	0.115	0.92	6.1	6305	0.78	781	1.9
	N	1908	53	53	53	1908	53	1908	364
4	ESTIMATE	19145	0.413	3.91	68.9	46340	9.47	4895	12.4
	(SE)	4406	0.149	0.7	7	18906	3.64	721	1.7
	N	1908	45	45	45	1908	45	1908	364
5	ESTIMATE	44599	1.158	6.61	73.8	37855	5.7	6636	16.8
	(SE)	10502	0.205	1.35	5.7	7190	0.82	836	2
	N	1908	61	61	61	1908	61	1908	364
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	303085	1.006	6.92	77.3	283806	6.88	41252	19.9
	(SE)	29644	0.098	0.63	2.1	28377	0.61	1887	0.9
	N	1927	383	383	383	1927	383	1927	1927

Table 10. Expanded Statewide and Regional Summaries of Gray Squirrel Hunting in Virginia During the 2008-2009 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	83064	1.557	8.11	83.3	51259	5.21	9836	16.6
	(SE)	13792	0.157	1.12	4	7805	0.59	1012	1.6
	N	1899	90	90	90	1899	90	1899	541
2	ESTIMATE	130716	1.425	8.63	86	89949	6.05	14864	25.1
	(SE)	16190	0.146	0.82	3	12216	0.65	1228	1.9
	N	1899	136	136	136	1899	136	1899	541
3	ESTIMATE	84375	0.895	7.16	78.4	89184	8	11148	18.9
	(SE)	11751	0.17	0.76	4.1	18560	1.48	1074	1.7
	N	1899	102	102	102	1899	102	1899	541
4	ESTIMATE	112573	1.225	9.4	80.2	88856	7.67	11585	19.6
	(SE)	18050	0.167	1.28	3.9	14097	0.98	1094	1.7
	N	1899	106	106	106	1899	106	1899	541
5	ESTIMATE	96288	1.207	7.86	79.2	75413	6.51	11585	19.6
	(SE)	12978	0.168	0.82	4	12101	0.85	1094	1.7
	N	1899	106	106	106	1899	106	1899	541
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	539070	1.205	8.09	80	411330	6.71	61285	29.5
	(SE)	31584	0.076	0.42	1.7	28976	0.41	2157	1
	N	1927	569	569	569	1927	569	1927	1927

Table 11. Expanded Statewide and Regional Summaries of Fox Squirrel Hunting in Virginia During the 2008-2009 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	217	0.4	1	50	542	2.5	217	1.1
	(SE)	217	0.16	1	50	447	1.5	153	0.8
	N	1913	2	2	2	1913	2	1913	181
2	ESTIMATE	2387	0.177	1.18	47.1	12260	6.65	1844	9.4
	(SE)	981	0.081	0.45	12.5	4462	1.86	445	2.2
	N	1913	17	17	17	1913	17	1913	181
3	ESTIMATE	28968	0.474	3.26	70.1	57502	6.88	8354	42.5
	(SE)	4947	0.059	0.45	5.3	9407	0.83	933	3.7
	N	1913	77	77	77	1913	77	1913	181
4	ESTIMATE	27124	0.409	3.25	64.4	62927	7.95	7920	40.3
	(SE)	4826	0.096	0.47	5.6	12832	1.35	909	3.7
	N	1913	73	73	73	1913	73	1913	181
5	ESTIMATE	2821	0.125	0.8	40	6944	6.4	1085	5.5
	(SE)	2018	0.09	0.42	16.3	3579	2.75	342	1.7
	N	1913	10	10	10	1913	10	1913	181
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	68609	0.397	2.92	62.1	154774	7.37	21003	10.1
	(SE)	7542	0.047	0.28	3.5	17363	0.66	1426	0.7
	N	1927	195	195	195	1927	195	1927	1927

Table 12. Expanded Statewide Summary of Total Squirrel Hunting in Virginia During the 2008-2009 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 OF TOTAL LICENSES
Statewide	ESTIMATE	607679	0.987	8.92	81.4	566104	9.03	62685	30.2
	(SE)	34393	0.062	0.44	1.6	41322	0.58	2171	1
	N	1927	582	582	582	1927	582	1927	1927

Table 13. Expanded Statewide and Regional Summaries of Groundhog Hunting in Virginia During the 2008-2009 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	29743	0.992	8.7	93.3	28564	8.77	3257	13
	(SE)	7249	0.15	1.58	4.6	6783	1.37	590	2.2
	N	1912	30	30	30	1911	30	1912	230
2	ESTIMATE	40924	0.616	6.44	85.2	61038	10.6	5862	23.5
	(SE)	7981	0.102	1.04	4.9	13322	1.83	787	2.8
	N	1912	53	54	54	1911	53	1912	230
3	ESTIMATE	58183	0.831	6.65	82.3	53870	8	6730	27
	(SE)	13628	0.147	1.2	4.9	9503	1	841	2.9
	N	1912	62	62	62	1911	62	1912	230
4	ESTIMATE	47111	0.598	7.98	83.3	69509	13.33	5210	20.9
	(SE)	9982	0.168	1.45	5.4	18644	3.06	743	2.7
	N	1912	48	48	48	1911	48	1912	230
5	ESTIMATE	32674	0.871	7.69	77.8	34537	8.83	3908	15.7
	(SE)	10623	0.264	2.4	7	9146	1.85	645	2.4
	N	1912	36	36	36	1911	36	1912	230
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	227045	0.737	7.07	82.9	252810	9.61	26388	12.7
	(SE)	22513	0.077	0.62	2.4	26703	0.84	1575	0.8
	N	1927	244	245	245	1926	244	1927	1927

Table 14. Expanded Statewide and Regional Summaries of Archery Deer (Buck and Doe) Hunting in Virginia During the 2008-2009 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	7047	0.058	0.61	35.2	121291	10.49	11561	16.5
	(SE)	1477	0.01	0.11	4.7	15984	0.96	1097	1.5
	N	1885	105	105	105	1884	105	1885	638
2	ESTIMATE	10130	0.056	0.57	37.6	177145	10.24	17287	24.6
	(SE)	1540	0.008	0.08	3.9	18630	0.74	1321	1.7
	N	1885	157	157	157	1884	157	1885	638
3	ESTIMATE	8478	0.052	0.59	38.5	163925	11.45	14314	20.4
	(SE)	1444	0.007	0.09	4.3	17181	0.71	1212	1.6
	N	1885	130	130	130	1884	130	1885	638
4	ESTIMATE	7707	0.051	0.62	36.4	142222	12.07	11781	16.8
	(SE)	1739	0.01	0.13	4.7	18157	1.05	1106	1.5
	N	1885	107	107	107	1884	107	1885	638
5	ESTIMATE	10570	0.073	0.68	36.7	142333	9.36	15305	21.8
	(SE)	1615	0.009	0.09	4.1	14754	0.6	1250	1.6
	N	1885	138	139	139	1884	138	1885	638
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	47822	0.057	0.6	35.9	769853	10.52	73240	35.3
	(SE)	3450	0.004	0.04	1.8	34490	0.34	2260	1.1
	N	1927	679	680	680	1926	679	1927	1927

Table 15. Expanded Statewide and Regional Summaries of Archery Deer (Buck) Hunting in Virginia During the 2008-2009 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	3744	0.031	0.32	25.7	121291	10.49	11561	16.5
	(SE)	774	0.005	0.06	4.3	15984	0.96	1097	1.5
	N	1885	105	105	105	1884	105	1885	638
2	ESTIMATE	4184	0.024	0.24	21	177145	10.24	17287	24.6
	(SE)	788	0.004	0.04	3.3	18630	0.74	1321	1.7
	N	1885	157	157	157	1884	157	1885	638
3	ESTIMATE	3083	0.019	0.22	17.7	163925	11.45	14314	20.4
	(SE)	727	0.004	0.05	3.4	17181	0.71	1212	1.6
	N	1885	130	130	130	1884	130	1885	638
4	ESTIMATE	3083	0.02	0.24	21.5	142222	12.07	11781	16.8
	(SE)	675	0.004	0.05	4	18157	1.05	1106	1.5
	N	1885	107	107	107	1884	107	1885	638
5	ESTIMATE	4735	0.033	0.3	20.1	142333	9.36	15305	21.8
	(SE)	960	0.006	0.06	3.4	14754	0.6	1250	1.6
	N	1885	138	139	139	1884	138	1885	638
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	21003	0.025	0.26	20.6	769853	10.52	73240	35.3
	(SE)	1794	0.002	0.02	1.6	34490	0.34	2260	1.1
	N	1927	679	680	680	1926	679	1927	1927

Table 16. Expanded Statewide and Regional Summaries of Archery Deer (Doe) Hunting in Virginia During the 2008-2009 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	3303	0.027	0.29	19	121291	10.49	11561	16.5
	(SE)	892	0.006	0.07	3.9	15984	0.96	1097	1.5
	N	1885	105	105	105	1884	105	1885	638
2	ESTIMATE	5946	0.032	0.33	24.2	177145	10.24	17287	24.6
	(SE)	1024	0.005	0.05	3.4	18630	0.74	1321	1.7
	N	1885	157	157	157	1884	157	1885	638
3	ESTIMATE	5395	0.033	0.38	27.7	163925	11.45	14314	20.4
	(SE)	971	0.005	0.06	3.9	17181	0.71	1212	1.6
	N	1885	130	130	130	1884	130	1885	638
4	ESTIMATE	4624	0.031	0.37	23.4	142222	12.07	11781	16.8
	(SE)	1326	0.008	0.11	4.1	18157	1.05	1106	1.5
	N	1885	107	107	107	1884	107	1885	638
5	ESTIMATE	5836	0.04	0.38	27.3	142333	9.36	15305	21.8
	(SE)	1006	0.006	0.06	3.8	14754	0.6	1250	1.6
	N	1885	138	139	139	1884	138	1885	638
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	26819	0.032	0.34	23.7	769853	10.52	73240	35.3
	(SE)	2333	0.003	0.03	1.6	34490	0.34	2260	1.1
	N	1927	679	680	680	1926	679	1927	1927

Table 17. Expanded Statewide and Regional Summaries of Muzzleloader Deer (Buck and Doe) Hunting in Virginia During the 2008-2009 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	12384	0.111	0.71	47.4	109196	6.41	17029	15.7
	(SE)	1608	0.012	0.08	4	10852	0.4	1315	1.2
	N	1877	154	154	154	1876	154	1877	981
2	ESTIMATE	24548	0.103	0.78	51.2	237311	7.63	31072	28.6
	(SE)	2492	0.009	0.07	3	17430	0.37	1710	1.4
	N	1877	281	281	281	1876	281	1877	981
3	ESTIMATE	9841	0.053	0.44	35.8	177347	8.31	21341	19.7
	(SE)	1303	0.006	0.05	3.5	15132	0.43	1455	1.3
	N	1877	193	193	193	1876	193	1877	981
4	ESTIMATE	9731	0.061	0.48	38.9	157543	7.91	19904	18.3
	(SE)	1231	0.007	0.05	3.6	14836	0.49	1411	1.2
	N	1877	180	180	180	1876	180	1877	981
5	ESTIMATE	14596	0.108	0.75	48.3	129663	6.85	19019	17.5
	(SE)	1779	0.01	0.08	3.8	12825	0.46	1383	1.2
	N	1877	171	172	172	1876	171	1877	981
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	72917	0.084	0.63	43.7	827506	7.46	111045	53.5
	(SE)	3601	0.004	0.03	1.5	27232	0.19	2359	1.1
	N	1927	1030	1031	1031	1926	1030	1927	1927

Table 18. Expanded Statewide and Regional Summaries of Muzzleloader Deer (Buck) Hunting in Virginia During the 2008-2009 Hunting Season.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL HUNTING DAYS	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	6745	0.06	0.38	32.5	109196	6.41	17029	15.7
	(SE)	996	0.008	0.05	3.8	10852	0.4	1315	1.2
	N	1877	154	154	154	1876	154	1877	981
2	ESTIMATE	13822	0.057	0.44	38.4	237311	7.63	31072	28.6
	(SE)	1402	0.005	0.04	2.9	17430	0.37	1710	1.4
	N	1877	281	281	281	1876	281	1877	981
3	ESTIMATE	5971	0.033	0.27	25.4	177347	8.31	21341	19.7
	(SE)	874	0.005	0.04	3.1	15132	0.43	1455	1.3
	N	1877	193	193	193	1876	193	1877	981
4	ESTIMATE	5197	0.032	0.26	25.6	157543	7.91	19904	18.3
	(SE)	749	0.004	0.03	3.3	14836	0.49	1411	1.2
	N	1877	180	180	180	1876	180	1877	981
5	ESTIMATE	8735	0.064	0.45	37.8	129663	6.85	19019	17.5
	(SE)	1104	0.007	0.05	3.7	12825	0.46	1383	1.2
	N	1877	171	172	172	1876	171	1877	981
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	41036	0.047	0.35	31.4	827506	7.46	111045	53.5
	(SE)	2175	0.003	0.02	1.4	27232	0.19	2359	1.1
	N	1927	1030	1031	1031	1926	1030	1927	1927

Table 19. Expanded Statewide and Regional Summaries of Muzzleloader Deer (Doe) Hunting in Virginia During the 2008-2009 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	5639	0.052	0.33	23.4	109196	6.41	17029	15.7
	(SE)	1035	0.009	0.06	3.4	10852	0.4	1315	1.2
	N	1877	154	154	154	1876	154	1877	981
2	ESTIMATE	10726	0.045	0.35	24.2	237311	7.63	31072	28.6
	(SE)	1763	0.007	0.05	2.6	17430	0.37	1710	1.4
	N	1877	281	281	281	1876	281	1877	981
3	ESTIMATE	3870	0.02	0.17	13	177347	8.31	21341	19.7
	(SE)	800	0.004	0.03	2.4	15132	0.43	1455	1.3
	N	1877	193	193	193	1876	193	1877	981
4	ESTIMATE	4534	0.029	0.23	20.6	157543	7.91	19904	18.3
	(SE)	767	0.005	0.04	3	14836	0.49	1411	1.2
	N	1877	180	180	180	1876	180	1877	981
5	ESTIMATE	5860	0.044	0.3	19.8	129663	6.85	19019	17.5
	(SE)	1103	0.007	0.05	3	12825	0.46	1383	1.2
	N	1877	171	172	172	1876	171	1877	981
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	31881	0.037	0.27	20.1	827506	7.46	111045	53.5
	(SE)	2486	0.003	0.02	1.2	27232	0.19	2359	1.1
	N	1927	1030	1031	1031	1926	1030	1927	1927

Table 20. Expanded Statewide and Regional Summaries of Gun Deer (Buck and Doe) Hunting in Virginia During the 2008-2009 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	52001	0.114	1.56	60.4	445270	13.72	32430	19.6
	(SE)	4748	0.008	0.12	2.9	30592	0.58	1765	1
	N	1824	285	285	285	1823	285	1824	1454
2	ESTIMATE	51546	0.088	1.1	54.6	569823	12.54	45402	27.4
	(SE)	3745	0.005	0.07	2.5	31364	0.41	2010	1.2
	N	1824	399	399	399	1823	399	1824	1454
3	ESTIMATE	21165	0.094	0.72	48.2	218366	7.58	28788	17.4
	(SE)	2192	0.008	0.06	3.1	14877	0.27	1680	1
	N	1824	253	253	253	1823	253	1824	1454
4	ESTIMATE	20709	0.091	0.76	44.4	225994	8.31	27195	16.4
	(SE)	2276	0.008	0.07	3.2	16584	0.35	1640	1
	N	1824	239	239	239	1823	239	1824	1454
5	ESTIMATE	42443	0.103	1.3	52.3	395745	12.59	31519	19.1
	(SE)	4638	0.009	0.13	3	29489	0.63	1745	1
	N	1824	276	277	277	1823	276	1824	1454
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	187301	0.095	1.06	50.5	1866226	11.13	167699	80.8
	(SE)	7041	0.003	0.04	1.3	41568	0.21	1863	0.9
	N	1927	1556	1557	1557	1926	1556	1927	1927

Table 21. Expanded Statewide and Regional Summaries of Gun Deer (Buck) Hunting in Virginia During the 2008-2009 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	20709	0.046	0.63	42.5	445270	13.72	32430	19.6
	(SE)	2016	0.004	0.05	2.9	30592	0.58	1765	1
	N	1824	285	285	285	1823	285	1824	1454
2	ESTIMATE	22758	0.039	0.48	36.8	569823	12.54	45402	27.4
	(SE)	1939	0.003	0.04	2.4	31364	0.41	2010	1.2
	N	1824	399	399	399	1823	399	1824	1454
3	ESTIMATE	10355	0.046	0.35	30.4	218366	7.58	28788	17.4
	(SE)	1239	0.005	0.04	2.9	14877	0.27	1680	1
	N	1824	253	253	253	1823	253	1824	1454
4	ESTIMATE	10241	0.045	0.37	33.1	225994	8.31	27195	16.4
	(SE)	1169	0.004	0.04	3	16584	0.35	1640	1
	N	1824	239	239	239	1823	239	1824	1454
5	ESTIMATE	13882	0.034	0.42	34.7	395745	12.59	31519	19.1
	(SE)	1439	0.003	0.04	2.9	29489	0.63	1745	1
	N	1824	276	277	277	1823	276	1824	1454
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	78410	0.04	0.44	34.6	1866226	11.13	167699	80.8
	(SE)	3102	0.002	0.02	1.2	41568	0.21	1863	0.9
	N	1927	1556	1557	1557	1926	1556	1927	1927

Table 22. Expanded Statewide and Regional Summaries of Gun Deer (Doe) Hunting in Virginia During the 2008-2009 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	31292	0.068	0.94	44.2	445270	13.72	32430	19.6
	(SE)	3478	0.007	0.09	2.9	30592	0.58	1765	1
	N	1824	285	285	285	1823	285	1824	1454
2	ESTIMATE	28788	0.049	0.62	39.6	569823	12.54	45402	27.4
	(SE)	2403	0.004	0.04	2.5	31364	0.41	2010	1.2
	N	1824	399	399	399	1823	399	1824	1454
3	ESTIMATE	10810	0.048	0.36	25.7	218366	7.58	28788	17.4
	(SE)	1467	0.006	0.05	2.8	14877	0.27	1680	1
	N	1824	253	253	253	1823	253	1824	1454
4	ESTIMATE	10469	0.046	0.38	26.4	225994	8.31	27195	16.4
	(SE)	1490	0.006	0.05	2.9	16584	0.35	1640	1
	N	1824	239	239	239	1823	239	1824	1454
5	ESTIMATE	28561	0.069	0.88	40.1	395745	12.59	31519	19.1
	(SE)	3877	0.008	0.11	2.9	29489	0.63	1745	1
	N	1824	276	277	277	1823	276	1824	1454
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	108891	0.055	0.62	34.5	1866226	11.13	167699	80.8
	(SE)	5456	0.003	0.03	1.2	41568	0.21	1863	0.9
	N	1927	1556	1557	1557	1926	1556	1927	1927

Table 23. Expanded Statewide Summary of Total Deer Hunting in Virginia During the 2008-2009 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 OF TOTAL LICENSES
Statewide	ESTIMATE	308040	0.086	1.67	63.7	3463585	19.47	177931	85.7
	(SE)	9658	0.002	0.05	1.2	73897	0.37	1654	0.8
	N	1927	1651	1652	1652	1926	1651	1927	1927

Table 24. Expanded Statewide Summary of Total Deer (Buck) Hunting in Virginia During the 2008-2009 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 OF TOTAL LICENSES
Statewide	ESTIMATE	140449	0.039	0.76	49	3463585	19.47	177931	85.7
	(SE)	4480	0.001	0.02	1.2	73897	0.37	1654	0.8
	N	1927	1651	1652	1652	1926	1651	1927	1927

Table 25. Expanded Statewide Summary of Total Deer (Doe) Hunting in Virginia During the 2008-2009 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 OF TOTAL LICENSES
Statewide	ESTIMATE	167591	0.046	0.91	44.5	3463585	19.47	177931	85.7
	(SE)	7031	0.002	0.04	1.2	73897	0.37	1654	0.8
	N	1927	1651	1652	1652	1926	1651	1927	1927

Table 26. Expanded Statewide and Regional Summaries of Spring Turkey Hunting in Virginia During the 2008-2009 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	5816	0.085	0.41	28.8	58377	4.88	11955	17.5
	(SE)	1069	0.014	0.07	4.3	7686	0.46	1102	1.5
	N	1927	111	111	111	1927	111	1927	634
2	ESTIMATE	7432	0.064	0.4	29.2	112122	6.2	18095	26.5
	(SE)	1133	0.008	0.05	3.5	11056	0.41	1334	1.8
	N	1927	168	168	168	1927	168	1927	634
3	ESTIMATE	6032	0.062	0.4	27.2	93704	6.4	14648	21.5
	(SE)	1058	0.008	0.06	3.8	10978	0.53	1211	1.6
	N	1927	136	136	136	1927	136	1927	634
4	ESTIMATE	2370	0.035	0.23	18.9	64516	6.66	9694	14.2
	(SE)	588	0.008	0.05	4.1	9050	0.64	998	1.4
	N	1927	90	90	90	1927	90	1927	634
5	ESTIMATE	3231	0.058	0.32	23.1	54069	5.52	9801	14.4
	(SE)	743	0.011	0.07	4.4	7744	0.56	1003	1.4
	N	1927	91	91	91	1927	91	1927	634
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	26280	0.062	0.36	26	398836	5.84	68286	32.9
	(SE)	2098	0.004	0.03	1.7	19722	0.22	2222	1.1
	N	1927	634	634	634	1927	634	1927	1927

Table 27. Expanded Statewide and Regional Summaries of Fall Turkey Hunting in Virginia During the 2008-2009 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	969	0.036	0.11	11.5	21218	3.23	6670	12.3
	(SE)	322	0.014	0.04	4.1	4300	0.52	828	1.5
	N	1927	61	61	61	1927	61	1927	497
2	ESTIMATE	2046	0.029	0.12	9.9	62470	4.08	15294	28.6
	(SE)	537	0.008	0.03	2.5	7252	0.34	1236	2
	N	1927	142	142	142	1927	142	1927	497
3	ESTIMATE	1939	0.039	0.15	15.4	49329	3.91	12602	23.5
	(SE)	455	0.009	0.03	3.3	5641	0.28	1129	1.9
	N	1927	117	117	117	1927	117	1927	497
4	ESTIMATE	539	0.016	0.06	6.3	33604	3.95	8509	15.9
	(SE)	241	0.007	0.03	2.8	5401	0.46	938	1.6
	N	1927	79	79	79	1927	79	1927	497
5	ESTIMATE	1185	0.036	0.17	13.3	29942	4.63	6462	12.1
	(SE)	416	0.013	0.06	4.4	5506	0.62	821	1.5
	N	1927	60	60	60	1927	60	1927	497
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	6893	0.028	0.11	10.5	217028	4.05	53530	25.8
	(SE)	913	0.004	0.02	1.4	12911	0.18	2069	1
	N	1927	497	497	497	1927	497	1927	1927

Table 28. Expanded Statewide Summary of Total Turkey Hunting in Virginia During the 2008-2009 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 OF TOTAL LICENSES
Statewide	ESTIMATE	33174	0.051	0.37	26	615865	7.21	85411	41.2
	(SE)	2382	0.003	0.03	1.6	26267	0.24	2327	1.1
	N	1927	793	793	793	1927	793	1927	1927

Table 29. Expanded Statewide and Regional Summaries of Bear Hunting in Virginia During the 2008-2009 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	0	0	0	0	2831	3.25	871	4.2
	(SE)	0	0	0	0	1191	0.8	307	1.5
	N	1906	8	8	8	1906	8	1906	189
2	ESTIMATE	218	0.006	0.05	4.8	37568	8.21	4574	22.2
	(SE)	154	0.004	0.03	3.3	9730	1.74	698	3
	N	1906	42	42	42	1906	42	1906	189
3	ESTIMATE	327	0.011	0.06	5.7	29619	5.13	5771	28
	(SE)	189	0.006	0.03	3.2	5775	0.73	782	3.3
	N	1906	53	53	53	1906	53	1906	189
4	ESTIMATE	871	0.017	0.13	13.1	51724	7.79	6642	32.3
	(SE)	307	0.005	0.04	4.4	9028	0.95	837	3.4
	N	1906	61	61	61	1906	61	1906	189
5	ESTIMATE	544	0.029	0.12	12	11325	4.16	2722	13.2
	(SE)	243	0.019	0.07	6.6	3888	1.19	541	2.5
	N	1906	25	25	25	1906	25	1906	189
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	2154	0.011	0.08	7.6	152620	6.75	22618	10.9
	(SE)	479	0.003	0.02	1.8	17174	0.62	1474	0.7
	N	1927	210	210	210	1927	210	1927	1927

Table 30. Expanded Statewide and Regional Summaries of Mallard Duck Hunting in Virginia During the 2008-2009 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	43849	0.393	4.37	60.9	104587	11.1	9419	60.4
	(SE)	8383	0.071	0.71	5.3	17272	1.43	987	4.1
	N	1917	87	87	87	1917	87	1917	144
2	ESTIMATE	6604	0.331	3.73	27.3	13425	11.27	1191	7.6
	(SE)	3750	0.119	2.43	14.1	6270	4.22	358	2.2
	N	1917	11	11	11	1917	11	1917	144
3	ESTIMATE	2707	1.136	2.78	66.7	2382	2.44	974	6.3
	(SE)	1338	0.436	1.08	16.7	891	0.44	324	2
	N	1917	9	9	9	1917	9	1917	144
4	ESTIMATE	2923	1.133	3.4	60	1624	3	541	3.5
	(SE)	1637	0.345	1.89	24.5	845	0.89	242	1.5
	N	1917	5	5	5	1917	5	1917	144
5	ESTIMATE	15699	0.512	4.53	62.5	30640	8.84	3465	22.2
	(SE)	4546	0.07	1.06	8.7	7588	1.57	607	3.5
	N	1917	32	32	32	1917	32	1917	144
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	79810	0.458	4.44	59.7	160698	9.69	16587	8
	(SE)	11021	0.055	0.53	4	19996	0.95	1282	0.6
	N	1927	154	154	154	1927	154	1927	1927

Table 31. Expanded Statewide and Regional Summaries of Wood Duck Hunting in Virginia During the 2008-2009 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	21545	0.206	2.29	43.7	104587	11.1	9419	60.4
	(SE)	4520	0.04	0.42	5.3	17272	1.43	987	4.1
	N	1917	87	87	87	1917	87	1917	144
2	ESTIMATE	7687	0.54	6.09	45.5	13425	11.27	1191	7.6
	(SE)	4242	0.144	3.18	15.7	6270	4.22	358	2.2
	N	1917	11	11	11	1917	11	1917	144
3	ESTIMATE	1407	0.591	1.44	44.4	2382	2.44	974	6.3
	(SE)	925	0.359	0.87	17.6	891	0.44	324	2
	N	1917	9	9	9	1917	9	1917	144
4	ESTIMATE	433	0.267	0.8	20	1624	3	541	3.5
	(SE)	433	0.205	0.8	20	845	0.89	242	1.5
	N	1917	5	5	5	1917	5	1917	144
5	ESTIMATE	6713	0.219	1.94	50	30640	8.84	3465	22.2
	(SE)	2378	0.074	0.61	9	7588	1.57	607	3.5
	N	1917	32	32	32	1917	32	1917	144
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	40713	0.251	2.43	45.5	160698	9.69	16587	8
	(SE)	6880	0.037	0.37	4	19996	0.95	1282	0.6
	N	1927	154	154	154	1927	154	1927	1927

Table 32. Expanded Statewide and Regional Summaries of Black Duck Hunting in Virginia During the 2008-2009 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	15266	0.138	1.53	40.2	104587	11.1	9419	60.4
	(SE)	3374	0.029	0.31	5.3	17272	1.43	987	4.1
	N	1917	87	87	87	1917	87	1917	144
2	ESTIMATE	433	0.016	0.18	18.2	13425	11.27	1191	7.6
	(SE)	265	0.006	0.12	12.2	6270	4.22	358	2.2
	N	1917	11	11	11	1917	11	1917	144
3	ESTIMATE	0	0	0	0	2382	2.44	974	6.3
	(SE)	0	0	0	0	891	0.44	324	2
	N	1917	9	9	9	1917	9	1917	144
4	ESTIMATE	108	0.067	0.2	20	1624	3	541	3.5
	(SE)	108	0.051	0.2	20	845	0.89	242	1.5
	N	1917	5	5	5	1917	5	1917	144
5	ESTIMATE	1624	0.053	0.47	15.6	30640	8.84	3465	22.2
	(SE)	831	0.023	0.23	6.5	7588	1.57	607	3.5
	N	1917	32	32	32	1917	32	1917	144
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	18525	0.109	1.05	31.2	160698	9.69	16587	8
	(SE)	3532	0.019	0.19	3.7	19996	0.95	1282	0.6
	N	1927	154	154	154	1927	154	1927	1927

Table 33. Expanded Statewide and Regional Summaries of Other Duck Hunting in Virginia During the 2008-2009 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	59656	0.55	6.1	50.6	104587	11.1	9419	60.4
	(SE)	12057	0.09	1.09	5.4	17272	1.43	987	4.1
	N	1917	87	87	87	1917	87	1917	144
2	ESTIMATE	11476	0.855	9.64	27.3	13425	11.27	1191	7.6
	(SE)	8091	0.321	6.44	14.1	6270	4.22	358	2.2
	N	1917	11	11	11	1917	11	1917	144
3	ESTIMATE	0	0	0	0	2382	2.44	974	6.3
	(SE)	0	0	0	0	891	0.44	324	2
	N	1917	9	9	9	1917	9	1917	144
4	ESTIMATE	866	0.533	1.6	40	1624	3	541	3.5
	(SE)	612	0.193	0.98	24.5	845	0.89	242	1.5
	N	1917	5	5	5	1917	5	1917	144
5	ESTIMATE	13750	0.449	3.97	28.1	30640	8.84	3465	22.2
	(SE)	7234	0.199	2	8.1	7588	1.57	607	3.5
	N	1917	32	32	32	1917	32	1917	144
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	94458	0.572	5.55	40.9	160698	9.69	16587	8
	(SE)	17559	0.084	0.96	4	19996	0.95	1282	0.6
	N	1927	154	154	154	1927	154	1927	1927

Table 34. Expanded Statewide and Regional Summaries of Total Duck (All Species) Hunting in Virginia During the 2008-2009 Hunting Season.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	AVERAGE SEASONAL SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	140315	1.287	14.29	82.8	104587	11.1	9419	60.4
	(SE)	23715	0.178	1.94	4.1	17272	1.43	987	4.1
	N	1917	87	87	87	1917	87	1917	144
2	ESTIMATE	26201	1.742	19.64	45.5	13425	11.27	1191	7.6
	(SE)	15613	0.559	12.02	15.7	6270	4.22	358	2.2
	N	1917	11	11	11	1917	11	1917	144
3	ESTIMATE	4114	1.727	4.22	77.8	2382	2.44	974	6.3
	(SE)	1941	0.614	1.5	14.7	891	0.44	324	2
	N	1917	9	9	9	1917	9	1917	144
4	ESTIMATE	4331	2	6	60	1624	3	541	3.5
	(SE)	2529	0.675	3.65	24.5	845	0.89	242	1.5
	N	1917	5	5	5	1917	5	1917	144
5	ESTIMATE	37786	1.233	10.91	78.1	30640	8.84	3465	22.2
	(SE)	12400	0.26	3.07	7.4	7588	1.57	607	3.5
	N	1917	32	32	32	1917	32	1917	144
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	233507	1.389	13.46	77.9	160698	9.69	16587	8
	(SE)	32901	0.147	1.65	3.4	19996	0.95	1282	0.6
	N	1927	154	154	154	1927	154	1927	1927

Table 35. Expanded Statewide and Regional Summaries of Goose (September) Hunting in Virginia During the 2008-2009 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	10475	1	4.62	47.6	10475	4.62	2268	36.8
	(SE)	4350	0.467	1.68	11.2	4200	1.6	492	6.4
	N	1922	21	21	21	1922	21	1922	57
2	ESTIMATE	5183	1.455	6	62.5	3564	4.13	864	14
	(SE)	3026	0.426	2.98	18.3	1498	1.01	305	4.6
	N	1922	8	8	8	1922	8	1922	57
3	ESTIMATE	324	0.75	1	33.3	432	1.33	324	5.3
	(SE)	324	0.563	1	33.3	264	0.33	187	3
	N	1922	3	3	3	1922	3	1922	57
4	ESTIMATE	2592	2	8	100	1296	4	324	5.3
	(SE)	1700	0	3.06	0	850	1.53	187	3
	N	1922	3	3	3	1922	3	1922	57
5	ESTIMATE	13390	1.699	5.64	59.1	7883	3.32	2376	38.6
	(SE)	4643	0.347	1.58	10.7	2095	0.54	504	6.5
	N	1922	22	22	22	1922	22	1922	57
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	35220	1.329	5.27	56.5	26496	3.97	6678	3.2
	(SE)	7507	0.253	0.92	6.3	5279	0.62	835	0.4
	N	1927	62	62	62	1927	62	1927	1927

Table 36. Expanded Statewide and Regional Summaries of Goose (November-March) Hunting in Virginia During the 2008-2009 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	30780	0.747	5.07	71.4	41185	6.79	6069	42.4
	(SE)	6373	0.109	0.82	6.1	7513	0.86	799	4.3
	N	1915	56	56	56	1915	56	1915	132
2	ESTIMATE	19942	1.213	12.13	66.7	16257	10	1626	11.4
	(SE)	9592	0.398	5.18	12.6	6805	3.42	418	2.8
	N	1915	15	15	15	1915	15	1915	132
3	ESTIMATE	1626	0.319	2.5	66.7	5094	7.83	650	4.5
	(SE)	1131	0.278	1.54	21.1	3448	4.64	265	1.8
	N	1915	6	6	6	1915	6	1915	132
4	ESTIMATE	9321	1.72	10.75	75	5419	6.25	867	6.1
	(SE)	4218	0.228	3.26	16.4	2224	1.4	306	2.1
	N	1915	8	8	8	1915	8	1915	132
5	ESTIMATE	40968	1.167	8.22	69.6	35116	7.04	4986	34.8
	(SE)	11376	0.248	1.96	6.9	7477	1.11	726	4.2
	N	1915	46	46	46	1915	46	1915	132
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	111045	0.979	7.14	69.4	113092	7.29	15510	7.5
	(SE)	17012	0.111	0.94	3.9	13514	0.65	1244	0.6
	N	1927	144	144	144	1927	144	1927	1927

Table 37. Expanded Statewide Summary of Total Goose Hunting in Virginia During the 2008-2009 Hunting Season.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	AVERAGE SEASONAL SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENSES
Statewide	ESTIMATE	146265	1.046	8.69	68.6	139587	8.31	16802	8.1
	(SE)	22084	0.105	1.14	3.7	16422	0.74	1290	0.6
	N	1927	156	156	156	1927	156	1927	1927

Table 38. Expanded Statewide and Regional Summaries of Red Fox Hunting in Virginia During the 2008-2009 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	2274	0.083	0.71	50	22087	8.5	2598	19.5
	(SE)	639	0.034	0.18	10.4	8005	2.61	527	3.6
	N	1917	24	24	24	1917	24	1917	123
2	ESTIMATE	2707	0.105	0.61	31.6	23819	5.79	4114	30.9
	(SE)	973	0.042	0.21	7.6	6030	1.15	661	4.2
	N	1917	38	38	38	1917	38	1917	123
3	ESTIMATE	866	0.049	0.35	35.3	13317	7.24	1841	13.8
	(SE)	342	0.023	0.12	11.9	4314	1.61	445	3.1
	N	1917	17	17	17	1917	17	1917	123
4	ESTIMATE	2923	0.232	0.96	60.9	10285	4.13	2490	18.7
	(SE)	815	0.058	0.19	10.4	2595	0.61	516	3.5
	N	1917	23	23	23	1917	23	1917	123
5	ESTIMATE	1191	0.049	0.48	28.6	22087	9.71	2274	17.1
	(SE)	496	0.028	0.19	10.1	8319	3.06	494	3.4
	N	1917	21	21	21	1917	21	1917	123
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	10986	0.089	0.62	39.8	98982	6.91	14325	6.9
	(SE)	1563	0.017	0.09	4.3	14083	0.8	1199	0.6
	N	1927	133	133	133	1927	133	1927	1927

Table 39. Expanded Statewide and Regional Summaries of Gray Fox Hunting in Virginia During the 2008-2009 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	5413	0.237	2.23	45.5	22412	9.41	2382	19.1
	(SE)	2995	0.108	1.19	10.9	8131	2.83	505	3.7
	N	1917	22	22	22	1917	22	1917	115
2	ESTIMATE	8337	0.199	1.17	47.8	29449	5.91	4980	40
	(SE)	2890	0.066	0.32	7.4	6876	1.09	726	4.6
	N	1917	46	46	46	1917	46	1917	115
3	ESTIMATE	1299	0.105	0.92	15.4	12343	8.77	1407	11.3
	(SE)	1104	0.097	0.77	10.4	4274	1.9	389	3
	N	1917	13	13	13	1917	13	1917	115
4	ESTIMATE	2274	0.257	1.12	35.3	8012	4.35	1841	14.8
	(SE)	1140	0.117	0.56	11.9	2361	0.76	445	3.3
	N	1917	17	17	17	1917	17	1917	115
5	ESTIMATE	1191	0.034	0.41	23.5	22195	12.06	1841	14.8
	(SE)	519	0.022	0.21	10.6	8527	3.71	445	3.3
	N	1917	17	17	17	1917	17	1917	115
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	18956	0.152	1.14	36	100382	7.46	13463	6.5
	(SE)	4455	0.036	0.27	4.3	14451	0.86	1165	0.6
	N	1927	125	125	125	1927	125	1927	1927

Table 40. Expanded Statewide and Regional Summaries of Coyote Hunting in Virginia During the 2008-2009 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	1195	0.059	0.56	44.4	18463	9.44	1955	9.4
	(SE)	447	0.027	0.18	12.1	7115	2.97	459	2.1
	N	1911	18	18	18	1911	18	1911	192
2	ESTIMATE	4453	0.072	0.56	33.9	49960	7.8	6408	30.7
	(SE)	1249	0.014	0.17	6.2	17480	2.56	821	3.3
	N	1911	59	59	59	1911	59	1911	192
3	ESTIMATE	11621	0.183	1.87	44.4	60060	10.24	5865	28.1
	(SE)	4759	0.055	0.78	6.8	14570	2.09	787	3.3
	N	1911	54	54	54	1911	54	1911	192
4	ESTIMATE	2389	0.084	0.56	38.2	24437	6.62	3693	17.7
	(SE)	811	0.036	0.19	8.5	8408	2.01	628	2.8
	N	1911	34	34	34	1911	34	1911	192
5	ESTIMATE	1738	0.089	0.56	48.1	18246	6.22	2932	14.1
	(SE)	484	0.031	0.12	9.8	4992	1.24	560	2.5
	N	1911	27	27	27	1911	27	1911	192
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	24449	0.091	0.97	40.4	221236	9.92	22403	10.8
	(SE)	5283	0.025	0.23	3.4	46938	2.01	1468	0.7
	N	1927	207	208	208	1926	207	1927	1927

Table 41. Expanded Statewide and Regional Summaries of Raccoon Hunting in Virginia During the 2008-2009 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	4872	0.21	2.63	68.8	21676	12.5	1732	14.8
	(SE)	1577	0.059	0.64	12	6823	2.48	431	3.4
	N	1917	16	16	16	1915	16	1917	108
2	ESTIMATE	29232	0.388	6.95	71.1	73482	18.32	4114	35.2
	(SE)	7794	0.047	1.55	7.5	19218	3.8	661	4.6
	N	1917	37	38	38	1915	37	1917	108
3	ESTIMATE	19272	0.407	8.09	81.8	47363	19.86	2382	20.4
	(SE)	9091	0.123	3.49	8.4	16998	5.89	505	3.9
	N	1917	22	22	22	1915	22	1917	108
4	ESTIMATE	6929	0.28	2.84	42.1	20918	10.16	2057	17.6
	(SE)	2873	0.103	1.21	11.6	9089	3.86	470	3.7
	N	1917	19	19	19	1915	19	1917	108
5	ESTIMATE	12559	0.416	8.92	69.2	29696	22.83	1407	12
	(SE)	9806	0.322	6.78	13.3	13582	8.47	389	3.1
	N	1917	12	13	13	1915	12	1917	108
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	88319	0.365	6.5	66.9	225879	18.06	12709	6.1
	(SE)	16931	0.056	1.19	4.3	36965	2.48	1134	0.5
	N	1927	116	118	118	1925	116	1927	108

Table 42. Expanded Statewide and Regional Summaries of Bobcat Hunting in Virginia During the 2008-2009 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	324	0.024	0.3	20	13512	12.5	1081	13.9
	(SE)	242	0.02	0.21	13.3	5870	3.93	341	4.1
	N	1920	10	10	10	1920	10	1920	72
2	ESTIMATE	1189	0.065	0.32	20	13296	4.92	2702	34.7
	(SE)	445	0.027	0.14	8.2	4110	1.19	537	5.7
	N	1920	25	25	25	1920	25	1920	72
3	ESTIMATE	1189	0.056	0.45	10	17512	8.1	2162	27.8
	(SE)	709	0.038	0.31	6.9	5587	1.9	481	5.3
	N	1920	20	20	20	1920	20	1920	72
4	ESTIMATE	0	0	0	0	5621	4.73	1189	15.3
	(SE)	0	0	0	0	2244	1.3	358	4.3
	N	1920	11	11	11	1920	11	1920	72
5	ESTIMATE	216	0.038	0.33	33.3	5621	8.67	649	8.3
	(SE)	153	0.039	0.21	21.1	3505	4.48	264	3.3
	N	1920	6	6	6	1920	6	1920	72
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	2908	0.039	0.28	13.9	61285	7.2	8509	4.1
	(SE)	879	0.014	0.1	3.9	10479	0.95	938	0.5
	N	1927	79	79	79	1927	79	1927	1927

Table 43. Responses to the question, 'During the 2008-2009 hunting season did you introduce and take a new hunter (youth or adult) hunting in Virginia?' (Q18)		
		Responses (%)
	Yes	35.7
	No	64.3
		Mean
	If yes, how many hunters did you take?	1.5

Table 44. Responses to the question, 'Are you aware of the new apprentice hunting license?' (Q19)		
		Responses (%)
	Yes	46.0
	No	54.0

Table 45. Responses to the statement, 'Please indicate the level of importance you place on hunting each of the following species:' (Q20)								
	Mean Score	Responses (%)						
		1	2	3	4	5	6	7
Deer	6.3	2.3	1.0	1.5	6.1	7.1	12.9	69.2
Fall Turkey	4.4	12.4	7.8	10.4	25.2	12.8	8.8	22.6
Spring Turkey	4.8	12.1	6.4	7.1	18.7	11.9	10.6	33.2
Bear	3.3	33.9	11.0	9.6	16.0	8.5	6.4	14.6
Rabbit	3.5	24.8	11.6	12.2	21.1	9.8	7.8	12.7
Gray Squirrel	3.7	20.8	9.9	12.8	22.4	12.4	9.1	12.6
Fox Squirrel	3.0	37.1	11.6	11.6	16.8	8.5	5.4	8.9
Ruffed Grouse	2.8	42.1	13.0	9.8	14.3	6.2	5.2	9.4
Quail	2.9	40.6	13.3	10.3	14.9	5.4	5.7	10.0
Woodcock	2.3	53.4	15.4	9.5	9.8	3.4	2.2	6.3
Raccoon	2.6	48.8	12.5	9.7	11.0	5.1	3.8	9.0
Fox	2.9	42.0	12.3	9.2	13.1	6.6	5.7	11.1
Waterfowl	3.1	44.0	10.0	8.1	10.5	5.5	5.7	16.4
Mean score, where 1=Not at all important; 4=Moderately Important; 7=Extremely Important								

Table 46. Responses of hunters to statement 'Please indicate the number of days spent during the 2008-2009 hunting season on each of these types of land. ' (Q21)

Type of land	Mean number of days hunted
National Forest	3.07
Military Land	0.24
WMA's	0.64
State Parks	0.15
State Forest	0.32
Private Land	19.5
Shooting Preserves	0.10

Table 47. Responses to the question, 'Did you hunt with a dog during the 2008-2009 hunting season?' (Q22)

	Responses (%)
Yes	39.4
No	60.6
If yes, which species did you hunt while using a dog?	Responses (%)
Deer	63.9
Bear	7.6
Rabbit	36.1
Waterfowl	11.1
Raccoon	13.1
Quail	7.1
Fox	5.0
Bobcat	0.9
Squirrel	5.9
Turkey	4.7
Other	6.6

Table 48. Responses to the question, 'Did you hunt during the 2008 June squirrel season?' (Q23)

	Responses (%)
Yes	5.6
No	94.4
If yes, did you harvest a squirrel?	Yes 81.7

Table 49. Responses to the question, 'Did you hunt turkey during the 2008 fall season?' (Q24)

	Responses (%)
Yes	38.4
No	61.6
If yes, which best describes your hunts? (Q24a)	Responses (%)
Hunted primarily for turkey	20.7
Hunted primarily for small game, but also interested in harvesting a turkey	4.7
Hunted primarily for deer, but also interested in harvesting a turkey	74.6
If you did not hunt turkeys, why not? (Q24b)	
Wanted to save my tags for spring gobbler season	5.2
Hunted deer instead	37.5
Hunted small game instead	3.6
Chose to pursue other hobbies instead of fall turkey hunting	6.2
Not enough time	19.8
Not interested	18.9
Other reasons	8.8

Table 50. Responses to the question, 'If you did not hunt turkey during the Fall 2008 season, what can DGIF do to increase your interest in fall turkey hunting?' (Q25)

	Responses (%)
Add a fall-only tag	14.0
Open the fall turkey season earlier to reduce overlap with deer muzzleloader	36.2
Extend the fall turkey season later into January	42.0

Table 51. Responses to the statement, 'Some areas with low turkey densities have experienced long-term declines in turkey populations. Reducing the fall either-sex season may increase hen survival and promote higher populations. Would you support reducing the current 6-week fall season to a 2-week fall season in the following areas to increase turkey populations?' (Q26)

	Responses (%)
Northern Piedmont (e.g., Albemarle, Greene, Madison, Orange)	27.8
Southwest (e.g., Dickenson, Wise, Lee, Scott, Russell)	25.9
Central Mountain (e.g., Rockingham, Augusta, Bath, Highland)	28.7
Other areas of concern	11.9
I do not support reducing the current fall season in any of these counties	38.3

Table 52. Perceptions of fall turkey hunters regarding overall quality of 2008 fall turkey season (Q28)						
	Regions					
Statewide	1	2	3	4	5	
3.43	3.53	3.59	3.49	2.93	3.59	
Mean scores, where 1=Poor, 4=Adequate, 7=Excellent						

Table 53. Perceptions of spring turkey hunters regarding overall quality of 2009 spring turkey season (Q30)						
	Regions					
Statewide	1	2	3	4	5	
4.06	4.62	4.45	3.91	3.40	4.10	
Mean scores, where 1=Poor, 4=Adequate, 7=Excellent						

Table 54. Responses to the question, 'Did you take a youth hunting on the 2009 youth turkey hunting day--April 4, 2009?' (Q31)		
		Responses (%)
	Yes	13.8
	No	86.2

Table 55. Responses to the statement, 'How would you rate wildlife populations of each species on National Forest lands in Virginia:' (Q32)								
	Responses (%)							
	1	2	3	4	5	6	7	8
Deer	6.0	3.6	6.7	12.3	8.9	6.9	11.0	44.6
Fall Turkey	5.0	4.5	7.5	14.8	7.0	3.7	4.6	53.0
Spring Turkey	4.1	3.8	8.2	12.3	7.2	3.7	4.6	56.0
Bear	3.9	2.9	7.2	12.3	6.3	5.1	6.0	56.2
Grouse	10.6	6.2	8.1	7.5	3.8	2.3	1.6	60.1
Squirrel	1.7	1.8	1.6	9.9	6.3	9.4	17.6	51.6
1=Poor; 4=Adequate; 7=Excellent; 8=Don't Know								

Table 56. Responses to the statement, 'Please indicate your level of agreement or disagreement with the following statements about NATIONAL FORESTS:' (Q33)

	Mean Score	Responses (%)						
		1	2	3	4	5	6	7
Gaining access to suitable hunting is no problem	4.52	12.2	6.9	8.2	21.2	14.8	14.7	22.0
Ruffed grouse populations provide good hunting	3.37	17.5	12.6	9.5	46.6	7.0	3.5	3.3
Gray squirrel populations provide good hunting	4.90	3.1	4.0	4.3	33.6	17.9	17.5	19.6
Fox squirrel populations provide good hunting	4.17	6.7	6.9	9.0	44.3	14.2	10.3	8.5
Deer populations provide good hunting	4.35	9.6	8.1	13.4	20.2	18.2	15.6	14.8
Turkey populations provide good hunting	4.12	7.5	9.9	13.9	31.3	16.1	11.1	10.1
Bear populations provide good hunting	4.36	6.3	5.8	9.3	39.5	13.4	13.8	11.8
Fox populations provide good hunting	3.72	7.2	9.6	10.3	59.9	5.8	4.7	2.5
Raccoon populations provide good hunting	4.08	4.2	5.4	8.1	61.6	7.7	6.8	6.1
I feel reasonably safe while hunting	5.08	6.5	4.3	5.5	17.7	15.9	23.7	26.3
Compared to other types of land, hunter numbers are fewer	3.92	15.1	11.9	13.1	24.6	10.6	10.9	13.9
I enjoy hunting in remote areas	5.96	1.8	1.0	1.3	13.4	9.3	23.6	49.5
I don't have to worry about locations of property lines	4.84	9.8	5.5	5.8	23.5	9.6	17.5	28.4
I like to have a large hunting area where I can scout and explore	5.97	1.5	1.0	1.2	13.4	11.7	21.0	50.3
I have no other land where I can hunt	3.53	27.8	9.5	8.0	26.3	7.4	6.7	14.2
It is easier to spend time with my hunting companions	4.63	6.4	4.5	5.2	40.4	9.9	14.3	19.3
I don't have to worry about getting permission to hunt	5.50	6.2	1.5	2.5	19.5	8.5	19.9	41.9
There are abundant opportunities to see other wildlife while hunting	5.02	5.0	2.5	7.0	26.9	15.3	16.3	27.2
Forest management practices benefit wildlife	5.00	7.5	3.3	5.7	26.0	11.3	15.0	31.2
Lands are close to my home	4.78	9.9	7.4	5.9	21.3	11.2	15.7	28.5
Mean score, where 1=Strongly Disagree; 4=Neither agree nor disagree; 7=Strongly Agree								

Table 57. Responses to the statement, 'Please indicate your level of agreement or disagreement with the following statements about WILDLIFE MANAGEMENT AREAS:' (Q34)

	Mean Score	Responses (%)						
		1	2	3	4	5	6	7
Gaining access to suitable hunting is no problem	4.49	11.5	8.5	6.7	23.9	12.7	15.5	21.2
Dove populations provide good hunting	3.64	13.4	10.2	6.2	53.4	7.5	4.3	4.9
Quail populations provide good hunting	3.27	21.3	10.5	5.6	53.4	3.9	2.0	3.3
Ruffed grouse populations provide good hunting	3.35	19.5	8.1	8.1	53.7	6.4	2.0	2.3
Gray squirrel populations provide good hunting	4.61	5.9	3.6	3.6	43.2	11.9	17.5	14.2
Fox squirrel populations provide good hunting	3.95	8.4	6.4	6.7	56.5	9.7	7.4	5.0
Deer populations provide good hunting	4.51	7.1	5.0	9.6	30.3	17.6	17.0	13.3
Turkey populations provide good hunting	4.32	5.1	5.8	9.9	38.3	21.4	10.9	8.6
Bear populations provide good hunting	3.96	8.8	5.5	8.5	54.4	9.8	7.2	5.9
Fox populations provide good hunting	3.80	6.4	7.1	8.1	65.2	7.4	3.0	2.7
Raccoon populations provide good hunting	3.95	6.4	4.7	8.4	63.4	7.0	5.4	4.7
I feel reasonably safe while hunting	4.85	4.0	5.6	10.2	23.2	15.8	21.4	19.8
Compared to other types of land, hunter numbers are fewer	3.70	18.1	13.1	10.6	27.2	11.3	8.8	10.9
I enjoy hunting in remote areas	5.62	2.8	1.2	1.6	21.7	11.2	20.8	40.7
I don't have to worry about locations of property lines	4.49	12.6	4.9	6.2	28.9	11.7	15.7	20.0
I like to have a large hunting area where I can scout and explore	5.71	2.5	0.0	1.9	21.7	11.5	18.0	44.4
I have no other land where I can hunt	3.61	26.5	8.5	7.9	28.4	6.3	7.9	14.5
It is easier to spend time with my hunting companions	4.53	6.0	2.9	4.1	46.3	14.3	12.4	14.0
I don't have to worry about getting permission to hunt	5.16	7.5	2.5	2.5	26.5	8.4	20.6	32.1
There are abundant opportunities to see other wildlife while hunting	4.77	5.6	3.8	6.0	29.8	20.7	15.7	18.5
Forest management practices benefit wildlife	5.21	5.6	3.1	4.0	23.3	12.1	19.3	32.6
Agricultural management practices benefit wildlife	5.37	4.4	2.5	1.9	24.4	13.1	17.2	36.6
Lands are close to my home	4.79	6.1	4.3	7.0	30.3	14.4	15.6	22.3
Mean score, where 1=Strongly Disagree; 4=Neither agree nor disagree; 7=Strongly Agree								

Table 58. Responses to the question, 'Even if you are not a bear hunter, what advice would you give to VDGIF regarding how to manage bear populations?' (Q35)

	Responses (%)
Increase the population size	28.3
Stabilize the population size	29.8
Decrease the population size	5.9
No opinion	36.1

Table 59. Responses to the question, 'If you killed a black bear during any of the 2008-2009 hunting seasons, did you kill it while:' (Q36)

	Responses (%)
Deer hunting?	44.2
Hunting for other game?	9.3
Hunting for bears?	46.5

Table 60. Responses to the question, 'During the 2008-2009 bear season, did you:' (Q37)

	Responses (%)	
	Yes	No
Hunt during the bear archery season?	62.1	37.9
Hunt during the bear muzzleloader	44.0	56.0
Hunt with a gun without dogs	78.9	21.1
Hunt with a gun using dogs	35.7	64.3

Table 61. Responses to the question, 'Did you participate in the 2008 bear chase season?' (Q38)

	Responses (%)	
	Yes	No
	18.7	81.3

Table 62. Responses to the question, 'How would you rate the size of the deer herd in the area in which you hunted most in 2008-2009:' (Q39)						
		Regions				
	Statewide	1	2	3	4	5
	4.70	5.14	4.78	4.32	3.68	5.12
Mean scores, where 1=Low, 4=Moderate, 7=High						

Table 63. Responses to the statement, 'When compared to previous years, would you say the number of deer in the area you hunted in 2008-2009:' (Q40)						
Responses (%)		Regions				
	Statewide	1	2	3	4	5
Declined dramatically	4.8	3.1	3.2	5.1	12.8	3.9
Declined	18.2	11.4	16.5	24.1	30.6	16.8
Remained about the same	48.4	52.8	53.7	48.1	42.3	48.2
Increased	20.1	21.3	20.3	18.6	9.8	24.6
Increased dramatically	4.8	8.0	4.9	2.7	1.9	3.9
No opinion	3.6	3.4	1.5	1.4	2.6	2.7

Table 64. Responses to the statement, 'What advice would you give to VDGF regarding how to manage the deer herd?' (Q41)						
Responses (%)		Regions				
	Statewide	1	2	3	4	5
Increase the herd	24.3	16.2	24.6	32.6	42.2	16.6
Stabilize the herd	44.4	52.6	44.0	44.0	36.9	50.0
Decrease the herd	18.4	17.1	19.4	16.2	9.1	21.4
No opinion	12.8	14.0	12.0	7.2	11.8	12.0

Table 65. Responses to the question, 'In the past year, would you say you've heard a great deal, a moderate amount, a little, or nothing about Chronic Wasting Disease (CWD)?' (Q42)						
Responses (%)		Regions				
	Statewide	1	2	3	4	5
A great deal	7.9	5.9	7.0	8.1	15.4	7.5
A moderate amount	25.8	24.4	21.7	30.2	31.5	29.0
A little	39.6	38.6	43.0	39.7	37.8	36.8
Nothing	20.8	27.8	22.6	16.9	11.6	20.4
Don't know	5.9	3.4	5.7	5.1	3.7	6.3

Table 66. Responses to the statement, 'Please indicate your level of support for a deer hound training season outside of the deer firearms season.' (Q43)						
	Regions					
	Statewide	1	2	3	4	5
	3.36	4.31	3.88	2.30	2.28	3.42
Mean scores, where 1=Strongly oppose, 4=Neither oppose nor support, 7=Strongly support						

Table 67. Responses to the statement, 'If a deer hound training season were established, please indicate your level of support or opposition for each of the following periods when the season could be held:' (Q43)						
	Regions					
	Statewide	1	2	3	4	5
September (4 weeks)	2.84	3.52	3.19	2.10	2.04	2.74
Mid-August to September (6 weeks)	2.79	3.40	3.20	2.11	1.97	2.68
October (4 weeks)	2.31	2.72	2.64	1.73	1.71	2.12
October to mid-November (6 weeks)	2.17	2.53	2.42	1.75	1.59	2.01
October, Sundays and nights only	2.25	2.54	2.48	1.76	1.75	2.13
January-March (12 weeks)	3.10	3.61	3.62	2.40	2.16	3.22
Mean scores, where 1=Strongly oppose, 4=Neither oppose nor support, 7=Strongly support						

Table 68. Perceptions of deer hunters regarding the overall quality of the 2008-2009 deer seasons (Q45)						
	Regions					
	Statewide	1	2	3	4	5
Archery	4.53	4.97	4.65	4.16	4.04	4.72
Muzzleloader	4.53	4.98	4.83	4.17	3.70	4.91
Firearms	4.64	5.19	4.91	4.03	3.68	4.98
Mean scores, where 1=Poor, 4=Adequate, 7=Excellent						

Table 69. Responses to the statement, 'Please indicate the number of days you hunted deer during the firearms season on each of the following land types during the 2008-2009 season.' (Q46)

	Regions					
	Statewide	1	2	3	4	5
National Forest Lands	2.10	0.26	0.83	4.70	5.82	0.38
State Wildlife	0.55	0.63	0.67	0.32	0.58	0.60
Private Land	11.42	10.44	12.51	10.32	10.05	13.04
Corporate Land	0.08	0.21	0.14	0.00	0.00	0.00
Military Lands	0.17	0.19	0.08	0.06	0.04	0.55
Hunt Club (on leased private land)	4.62	10.55	6.10	0.75	0.71	3.90
Hunt Club (on leased corporate land)	1.55	3.58	2.25	0.10	0.08	1.22
Other	0.26	0.37	0.28	0.16	0.13	0.03

Table 70. Responses to the question, 'If you had the opportunity while hunting specifically for deer, would you kill a bear?' (Q47)

	Responses (%)	
	Yes	No
	70.3	29.7

Table 71. Responses to the question, 'The last time you had the opportunity to kill a bear, what happened?:' (Q48)

	Responses (%)
Although the bear was legal, I chose not to kill it	22.4
I passed it up because it was too small (i.e., less than 100 pounds)	9.2
I passed it up because I was uncertain if it was legal weight	8.6
I passed it up because it was a female with cubs	8.8
I attempted to kill it (either harvested, missed, or wounded the bear)	4.8

Table 72. Responses to the question, 'While gun deer hunting during the 2008-2009 season were you disturbed by:' (Q49)

Responses (%)	Regions					
	Statewide	1	2	3	4	5
Hunting dogs	27.7	27.2	32.2	24.4	21.4	30.6
Other hunters	40.7	28.2	36.2	49.8	53.0	41.2
Other outdoor users	24.9	19.8	20.5	24.4	32	30.6

Table 73. Responses to the statement, 'While gun deer hunting, how concerned are you about disturbance from:' (Q50)

	Regions					
	Statewide	1	2	3	4	5
Hunting dogs	3.46	2.84	3.21	3.99	4.23	3.39
Other hunters	4.11	3.73	3.89	4.59	4.47	4.13
Other outdoor users	3.85	3.68	3.61	3.97	4.14	4.02

Mean scores, where 1=Not at all concerned; 4=Neither concerned nor unconcerned; 7=Very concerned

Table 74. Responses to the statement, 'If you were asked to help set the yearly antlered buck limit for deer, please indicate the degree to which you would oppose or support each of the following bag limits:' (Q51)

	Regions					
	Statewide	1	2	3	4	5
One antlered buck per year	2.61	2.32	2.04	2.86	3.57	2.65
Two antlered bucks per year	4.11	3.77	3.61	4.57	4.84	4.13
Three antlered bucks per year	4.06	4.53	4.20	3.92	3.22	4.18
Four antlered bucks per year	2.96	3.59	3.36	2.29	1.96	3.14
Unlimited antlered buck bag limit	2.01	2.10	2.29	1.59	1.63	1.98

Mean scores, where 1=Strongly Oppose, 4=Does not matter, 7=Strongly Support

Table 75. Responses to the statement, 'If you were asked to help set the opening date for archery deer season, please indicate the degree to which you support or oppose each of the following dates:' (Q52)

	Regions					
	Statewide	1	2	3	4	5
1st Saturday in September	3.46	3.69	3.54	3.00	2.98	3.80
2nd Saturday in September	3.42	3.75	3.52	3.03	3.07	3.55
3rd Saturday in September	3.71	3.81	3.85	3.32	3.46	4.02
4th Saturday in September	3.99	4.04	4.02	3.95	3.94	4.02
1st Saturday in October	4.94	4.78	4.85	5.23	5.39	4.65

Mean scores, where 1=Strongly Oppose, 4=Does not matter, 7=Strongly Support

Table 76. Responses to the statement, 'Please indicate the degree to which you would support or oppose a reduction in the harvest of antlered bucks so that more bucks in the population will become older and larger:' (Q53)						
		Regions				
	Statewide	1	2	3	4	5
	4.64	4.29	4.50	4.55	5.22	4.66
Mean scores, where 1=Strongly Oppose, 4=Does not matter, 7=Strongly Support						

Table 77. Responses to the statement, 'In order to reduce the harvest of antlered bucks so that more bucks in the population would become older and larger, please indicate the degree to which you would favor or oppose:' (Q54)						
		Regions				
	Statewide	1	2	3	4	5
Voluntary restraint on the part of hunters to pass young bucks	5.43	5.65	5.30	5.29	5.39	5.54
Education to assist hunters in passing up young bucks	5.53	5.57	5.48	5.42	5.55	5.75
A requirement for hunters to pass up young bucks (based on antler criteria)	4.67	4.30	4.56	4.74	5.25	4.54
Mean scores, where 1=Strongly Oppose, 4=Does not matter, 7=Strongly Support						

Table 78. Responses to the statement, 'If you were asked to help set regulations to reduce the antlered buck harvest in the area where you hunt, to what extent would you favor or oppose each of the following approaches:' (Q55)						
		Regions				
	Statewide	1	2	3	4	5
Legal bucks must have at least a 15 inch outside antler spread	3.23	3.39	3.21	3.23	3.14	3.20
All legal bucks for the license year must have at least 4 points on one side	3.46	3.13	3.42	3.61	3.79	3.40
At least one legal buck for the license year must have at least 4 points on one side	4.41	4.19	4.43	4.37	4.78	4.33
Reduce the yearly antlered buck limit	3.51	3.07	3.28	3.37	4.28	3.73
Delay opening of deer gun season until after the peak rut	2.18	2.36	1.93	2.05	2.45	2.25
Mean scores, where 1=Strongly Oppose, 4=Does not matter, 7=Strongly Support						

Table 79. Responses to the question, 'Did you hunt deer on National Forest land during the 2008-2009 season?' (Q56)		
		Responses (%)
	Yes	27.4
	No	72.6
	If yes, when compared to previous years, would you say the number of deer on National Forest lands you hunted during 2008-2009:	Responses (%)
	Declined dramatically	15.2
	Declined	31.3
	Remained about the same	39.1
	Increased	9.5
	Increased dramatically	0.7
	No opinion	4.2

Table 80. Responses to the question, 'Did you hunt on DMAP enrolled lands during the 2008-2009 hunting season?' (Q57)		
		Responses (%)
	Yes	13.9
	No	86.1
		Mean
	If yes, how do you rate the quality of your 2008-2009 hunting on DMAP lands?	5.25
Mean scores, where 1=Poor, 4=Adequate, 7=Excellent		

Table 81. Responses to the question, 'Are you familiar with the regulatory input process DGIF has been conducting since September 2008?' (Q58)		
		Responses (%)
	Yes	12.2
	No	87.8
	If yes, have you participated in the current regulations process?	Responses (%)
	Yes	41.1
	No	58.9
	If yes, how did you participate?	Responses (%)
	Attended meeting	41.2
	Attended meeting and submitted a comment	22.4
	Commented using online form	36.5
	Emailed comments	21.2
	Sent letter to DGIF	10.6

Table 82. Responses to the question, 'How old are you?' (Q59)	
	Years (Mean)
	45.8

Table 83. Responses to the question, 'Are you Male or Female?' (Q60)		
		Responses (%)
	Male	95.9
	Female	4.1

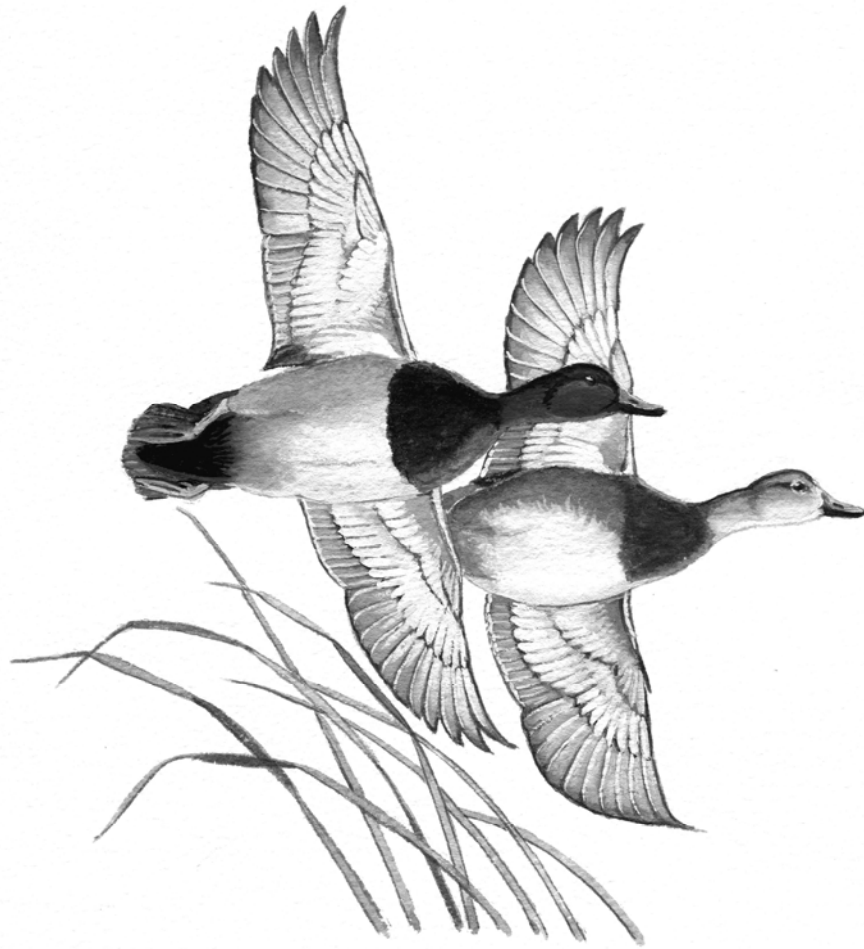
References

- Cochran, W.G. (1977). *Sampling Techniques* (3rd ed.). New York: John Wiley and Sons, Inc.
- Davis, D.E. & Winstead, R.L. (1980). Estimating the numbers of wildlife populations. In S.D. Schemnitz (Ed.), *Wildlife management techniques manual* (4th ed.) (pp.221-246). Washington, DC: The Wildlife Society.
- Dillman, D.A. (1978). *Mail and telephone surveys: The total design method*. New York: John Wiley & Sons, Inc.
- Dillman, D.A. (2000). *Mail and internet surveys: The tailored design method* (2nd edition). New York: John Wiley & Sons, Inc.
- Filion, F.L. (1980). Human surveys in wildlife management. In S.D. Schemnitz (Ed.), *Wildlife management techniques manual* (4th ed.) (pp.441-453). Washington, DC: The Wildlife Society.
- Fowler, F.J. (1993). *Survey Research Methods* (2nd edition). Newbury Park, CA: SAGE Publications, Inc.
- Jagnow, C.P., Howell, J., and D.E. Steffen. (2008). *Virginia survey of hunter harvest, effort and attitudes 2007-2008*. Wildlife Resource Bulletin No. 08-6. Richmond, VA: Department of Game and Inland Fisheries.
- Jagnow, C.P., Howell, J., & D.E. Steffen. (2008) *Virginia survey of hunter harvest, effort and attitudes 2006-2007*. Wildlife Resource Bulletin No. 08-2. Richmond, VA: Department of Game and Inland Fisheries.
- Jagnow, C.P. & Steffen, D.E. (2005). *Virginia survey of hunter harvest, effort and attitudes 2004-2005*. Wildlife Resource Bulletin No. 05-7. Richmond, VA: Department of Game and Inland Fisheries.
- Jagnow, C.P. , Steffen, D.E., & Howell, J. (2007). *Virginia survey of hunter harvest, effort and attitudes 2005-2006*. Wildlife Resource Bulletin No. 07-5. Richmond, VA: Department of Game and Inland Fisheries.
- Rodgers, E.B., Wright, B.A., Cavin, D., & Steffen, D.E. (2003). *Virginia survey of hunter harvest, effort and attitudes 2001-2002*. Richmond, VA: Department of Game and Inland Fisheries.
- Steffen, D. E. 1981. *Mississippi mail survey of game harvest and hunter effort for 1980-81*. Federal Aid Project W-48-28, Job VI-1, Mississippi Department of Wildlife Conservation, Jackson. 87pp.
- Wright, B.A. (1995). *Virginia survey of hunter harvest, effort and attitudes 1993-1994*. Richmond, VA: Department of Game and Inland Fisheries.
- Wright, B.A., & McFarland, M.R. (1996). *Virginia survey of hunter harvest, effort and attitudes 1994-1995*. Richmond, VA: Department of Game and Inland Fisheries.
- Wright, B.A., & Emerald, N.D. (1997). *Virginia survey of hunter harvest, effort and attitudes 1995-1996*. Richmond, VA: Department of Game and Inland Fisheries.
- Wright, B.A., & Emerald, N.D. (1998). *Virginia survey of hunter harvest, effort and attitudes 1996-1997*. Richmond, VA: Department of Game and Inland Fisheries.
- Wright, B.A., & Emerald, N.D. (1999). *Virginia survey of hunter harvest, effort and attitudes 1997-1998*. Richmond, VA: Department of Game and Inland Fisheries.
- Wright, B.A., & Emerald, N.D. (2000). *Virginia survey of hunter harvest, effort and attitudes 1998-1999*. Richmond, VA: Department of Game and Inland Fisheries.

APPENDIX A

SURVEY INSTRUMENT

**2008-2009
Virginia Hunter Survey**



Virginia Department of Game and Inland Fisheries

Virginia Department of Game and Inland Fisheries

Hunter Survey

Please answer each of the following questions completely. Results from the study will be reported only as a combined total. No individual responses will be reported.

1. Did you purchase a Virginia resident hunting license for the 2008-2009 hunting season (July 1, 2008-June 30, 2009)?

Yes

(If no, do not go any further. Please place the questionnaire in the return envelope and return it as soon as possible. Thank you for your time)

2. What type(s) of licenses did you purchase? (✓ 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)
- Sportsman's License (combined hunting and fishing)
- Archery license
- Muzzleloading license
- Crossbow license
- Other (please specify) _____

INSTRUCTIONS:

- In each box below, record the number of animals you personally harvested in 2008-2009. Be as accurate as possible.
- Do not include game taken by anyone other than yourself
- 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.

The following questions relate to the number of game animals you harvested during the 2008-2009 hunting season.

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/Crossbow		Muzzleloader		Gun		Fall 2008	Spring 2009	
Bucks	Does	Bucks	Does	Bucks	Does			

6. Waterfowl Harvest:

Ducks				Geese	
Mallard	Wood Duck	Black	All others	September Season	November-March Season

7. Furbearer Harvest (only include animals you hunted, do not include animals you trapped):

Red Fox	Gray Fox	Coyote	Raccoon	Bobcat

The following questions relate to the amount of 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/Crossbow	Muzzleloader	Gun	Fall 08	Spring 09	

11. Waterfowl Days Hunted:

Ducks	Geese	
	September Season	November-March Season

12. Furbearer Days Hunted:

Red Fox	Gray Fox	Coyote	Raccoon	Bobcat

Using the map at the bottom of this page, **indicate in each box below the region of the state where you MOST OFTEN hunted each species.** If you did not hunt a species, 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:

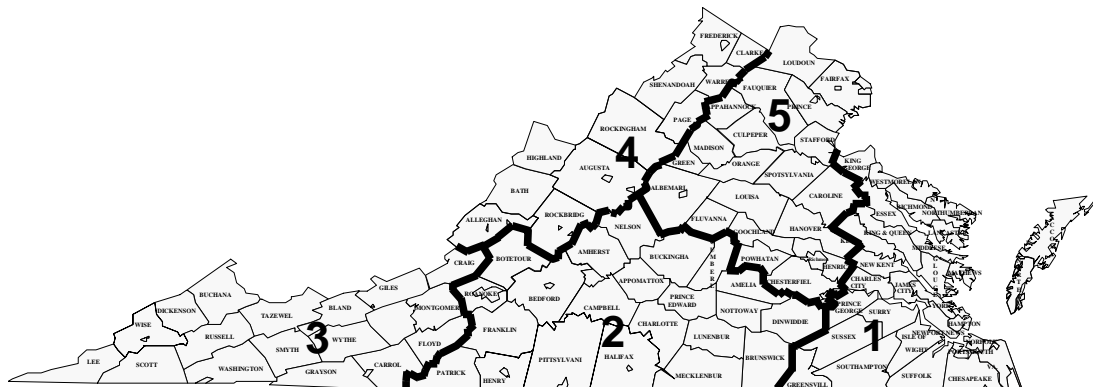
Deer			Turkey		Bear
Archery/Crossbow	Muzzleloader	Gun	Fall 08	Spring 09	

16. Waterfowl Region Hunted:

Ducks	Geese	
	September Season	November-March Season

17. Furbearer Region Hunted:

Red Fox	Gray Fox	Coyote	Raccoon	Bobcat



18. During the 2008-2009 hunting season, did you take a new hunter (youth or adult) hunting in Virginia?
 Yes No

If yes, how many new hunters did you take? _____ Hunters

19. Are you aware of the new **Apprentice Hunting License** that exempts a new hunter from the hunter education course if they are accompanied by a licensed hunter?
 Yes No

20. Please indicate the level of importance you place on hunting each of the following species:

	Not at all		Moderately			Extremely	
	Important		Important			Important	
	<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
Deer	<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
Fall Turkey	<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
Spring Turkey	<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
Bear	<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
Rabbit	<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
Gray Squirrel	<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
Fox Squirrel	<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
Grouse	<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
Quail	<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
Woodcock	<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
Raccoon	<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
Fox	<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
Waterfowl	<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

21. Please indicate the number of days spent during the 2008-2009 hunting season on each of these types of land. If you did not hunt on a type of land, please indicate that you hunted **0 days** for that category.

- a. National Forest: _____ Days
- b. Military Lands: _____ Days
- c. VDGIF WMA's: _____ Days
- d. State Parks: _____ Days
- e. State Forest: _____ Days
- f. Private Lands: _____ Days
- g. Shooting Preserves: _____ Days

22. Did you hunt with a dog during the 2008-2009 hunting season?
 Yes No

If yes, which species did you hunt while using a dog? (✓ all that apply)

- Deer
- Bear
- Rabbit
- Waterfowl
- Raccoon
- Quail
- Fox
- Bobcat
- Squirrel
- Turkey
- Other

23. Did you hunt during the **2008 June squirrel** season?
 Yes No

If yes, did you harvest a squirrel?
 Yes No

The next few questions ask your views about **FALL TURKEYS, regardless of the species you hunted.**

24. Did you hunt turkey during the 2008 fall season?

- Yes No (Skip to Question 24b)

24a. If **you hunted turkeys in the 2008 fall season**, which best describes your hunts: (✓ only one)

- Hunted primarily for turkey
 Hunted primarily for small game (e.g., squirrel) but also interested in harvesting a turkey
 Hunted primarily for deer but also interested in harvesting a turkey

24b. If you **did not hunt turkeys in the 2008 fall season**, why not?(✓ only one)

- Wanted to save my tags for spring gobbler season
 Hunted deer instead
 Hunted small game instead
 Chose to pursue other hobbies instead of fall turkey hunting
 Not enough time
 Not interested
 Other reasons

25. If you did not hunt turkey during the **Fall 2008** season, what can DGIF do to increase your interest in fall turkey hunting?

- Add a fall-only tag
 Open the fall turkey season earlier to reduce overlap with deer muzzleloader
 Extend the fall turkey season later into January

26. Some areas with low turkey densities have experienced long-term declines in turkey populations. Reducing the fall either-sex season may increase hen survival and promote higher population. Would you support **reducing the current 6-week fall season to a 2-week fall season** in the following areas to increase turkey populations?

- Northern Piedmont (e.g., Albemarle, Greene, Madison, Orange)
 Southwest (e.g., Dickenson, Wise, Lee, Scott, and Russell)
 Central Mountain (e.g., Rockingham, Augusta, Bath, Highland)
 Other areas of concern? _____
 I do not support reducing the current fall season in any of these counties

The following questions pertain to Turkey hunting in 2008-2009. **If you did not hunt Turkeys during the 2008-2009 season, skip to Question 32.**

27. Please indicate the county where you most often hunted **Fall Turkeys** during 2008. **If you did not hunt turkeys in the Fall, skip to Question 29.**

_____ County

28. Overall, how do you rate the quality of your 2008 Fall turkey season?

- Poor** **Adequate** **Excellent**
¹ ² ³ ⁴ ⁵ ⁶ ⁷

29. Please indicate the county where you most often hunted **Spring Turkeys** during 2009 (Spring turkey season this year). **If you did not hunt turkeys in Spring 2009, skip to Question 32.**

_____ County

30. Overall, how do you rate the quality of your 2009 Spring turkey season?

- Poor** **Adequate** **Excellent**
¹ ² ³ ⁴ ⁵ ⁶ ⁷

31. Did you take a youth hunting on the 2009 youth turkey hunting day—April 4, 2009?

- Yes No

32. How would you rate wildlife populations of each species on **National Forest lands** in Virginia:

	Poor			Adequate			Excellent	Don't Know
Deer	<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"/> ⁸
Fall Turkey	<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"/> ⁸
Spring Turkey	<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"/> ⁸
Bear	<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"/> ⁸
Grouse	<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"/> ⁸
Squirrel	<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"/> ⁸

33. Please indicate your level of agreement or disagreement with the following statements about NATIONAL FORESTS. (If you did not hunt on National Forests during the 2008-2009 season, please skip to Question 34).

I hunt on NATIONAL FORESTS 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. 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
c. Gray 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
d. Fox 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
e. 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
f. 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
g. 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
h. 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
i. 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
j. 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
k. 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
l. 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
m. 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
n. I like to have a large hunting area where I can 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
o. I have no other land where I can 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
p. 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
q. 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
r. 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
s. 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
t. 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

34. Please indicate your level of agreement or disagreement with the following statements about WILDLIFE MANAGEMENT AREAS. (If you did not hunt on Wildlife Management Areas during the 2008-2009 season, please skip to Question 35).

I hunt on WILDLIFE MANAGEMENT AREAS because:

	Strongly Disagree			Neither agree nor disagree			Strongly Agree
	<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
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. Gray 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. Fox 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
g. 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
h. 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
i. 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
j. 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
k. 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
l. 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
m. 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
n. 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
o. 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
p. I like to have a large hunting area where I can 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
q. I have no other land where I can 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
r. 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
s. 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
t. 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
u. 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
v. 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
w. 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

35. Even if you are not a bear hunter, what advice would you give to VDGIF regarding how to **manage bear populations**? (✓ only one)

- Increase the population size
- Stabilize the population size
- Decrease the population size
- No opinion

The following questions pertain to **BEAR** hunting in 2008-2009. **If you did not hunt BEARS during the 2008-2009 season, skip to Question 39.**

36. If you killed a black bear during the 2008-2009 hunting seasons, did you kill it while: (✓ only one)

- Deer Hunting?
- Hunting for other game?
- Hunting specifically for bears?

37. During the 2008-2009 BEAR season, did you:

- Hunt during the Bear Archery season? Yes No
- Hunt during the Bear muzzleloader season? Yes No
- Hunt with a gun without dogs? Yes No
- Hunt with a gun using dogs? Yes No

38. Did you participate in the 2008 bear chase season? Yes No

The next few questions ask your views about **DEER** management, **regardless of the species you hunted.**

39. How would you rate the size of the DEER HERD in the area you hunted most in 2008-2009:

- Low** ¹ ² ³ **Moderate** ⁴ ⁵ ⁶ **High** ⁷

40. When compared to previous years, would you say the number of DEER in the area you hunted in 2008-2009: (✓ only one)

- Declined dramatically
- Declined
- Remained about the same
- Increased
- Increased dramatically
- No opinion

41. What advice would you give to VDGIF regarding how to manage the deer herd? (✓ only one)

- Increase the herd
- Stabilize the herd
- Decrease the herd
- No opinion

42. In the past year, would you say you've heard a great deal, a moderate amount, a little, or nothing about Chronic Wasting Disease (CWD)? (✓ only one)

- A great deal
- A moderate amount
- A little
- Nothing
- Don't Know

43. Please indicate your level of support for a deer hound training season outside of the deer firearms season.
 NOTE: During a training season, deer could be pursued with hounds but not harvested.

Strongly Oppose **Does not Matter** **Strongly Support**
¹ ² ³ ⁴ ⁵ ⁶ ⁷

If a deer hound training season were established, please indicate your level of support or opposition for each of the following periods when the season could be held:

	Strongly Oppose		Does not Matter		Strongly Support
a. September (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"/> ⁶ <input type="checkbox"/> ⁷
b. Mid-August through September (6 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 <input type="checkbox"/> ⁷
c. October (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"/> ⁶ <input type="checkbox"/> ⁷
d. October through mid-November (6 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 <input type="checkbox"/> ⁷
e. October, Sundays and nights only	<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. January-March (12 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 <input type="checkbox"/> ⁷

The following questions pertain to hunting DEER. **If you did not hunt DEER during the 2008-2009 season, skip to Question 58.**

44. Please indicate the county where you most often hunted DEER during the 2008-2009 firearms season.

_____ County

45. Overall, how do you rate the quality of the following DEER seasons during 2008-2009?

	Poor		Adequate		Excellent
Archery	<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
Muzzleloader	<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
Firearms	<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

46. In the spaces below, please indicate the number of days you hunted DEER during the firearms season on each of the following land types during the 2008-2009 season.

If you did not hunt on a particular type of land, place a zero (0) in the space.

_____ National Forest Lands	_____ Military Lands
_____ State Wildlife Management Areas	_____ Hunt Club(s) on leased private land
_____ Private land (excluding club or lease)	_____ Hunt Club(s) on leased corporate land
_____ Corporate Land (excluding hunt club or leased land)	_____ Other

47. If you had the opportunity while specifically hunting for deer, would you kill a bear?
 Yes No

48. The last time you had the opportunity to kill a bear, what happened? (check all that apply)

- Although the bear was legal, I chose not to kill it.
- I passed it up because it was too small (i.e., less than 100 pounds).
- I passed it up because I was uncertain if it was legal weight
- I passed it up because it was a female with cubs.
- I attempted to kill it (either harvested, missed, or wounded the bear)

49. While gun deer hunting during the 2008-2009 season, were you disturbed by:

- Hunting Dogs? Yes No
 Other hunters? Yes No
 Other outdoor users? Yes No

50. While gun deer hunting, how concerned are you about disturbance from:

- | | Not at all
Concerned | | Neither concerned
nor unconcerned | | | Very
Concerned | |
|---------------------|---------------------------------------|---------------------------------------|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Hunting Dogs | <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 |
| Other Hunters | <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 |
| Other Outdoor Users | <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 |

51. If you were asked to help set the **YEARLY ANTLERED BUCK LIMIT** for DEER, please indicate the degree to which you would oppose or support each of the following bag limits:

- | | Strongly
Oppose | | Does not
Matter | | | Strongly
Support | |
|--------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| a. 1 antlered buck per year | <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. 2 antlered bucks per year | <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. 3 antlered bucks per year | <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. 4 antlered bucks per year | <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. Unlimited antlered buck bag limit | <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 |

52. If you were asked to help set the **OPENING DATE for ARCHERY DEER** season, please indicate the degree to which you would support or oppose each of the following dates:

- | | Strongly
Oppose | | Does not
Matter | | | Strongly
Support | |
|------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| a. 1st Saturday in September | <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. 2nd Saturday in September | <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. 3rd Saturday in September | <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. 4th Saturday in September | <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. 1st Saturday in October | <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 |

53. Please indicate the degree to which you would support or oppose a **reduction in the harvest of antlered bucks** so that more bucks in the population will become older and larger:

- | | Strongly
Oppose | | Does not
Matter | | | Strongly
Support | |
|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| | <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 |

54. In order to reduce the harvest of antlered bucks so that more bucks in the population would become older and larger, please indicate the degree to which you would favor or oppose:

- | | Strongly
Oppose | | Does not
Matter | | | Strongly
Support | |
|---|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| a. Voluntary restraint on the part of hunters to pass up young bucks. | <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. Education to assist hunters in passing up young bucks. | <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. A requirement for hunters to pass up young bucks (based on antler criteria). | <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 |

55. If you were asked to help set regulations to reduce the antlered buck harvest in the area where you hunt, to what extent would you favor or oppose each of the following approaches:

- | | Strongly Oppose | | | Does not Matter | | | Strongly Support |
|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| a. Legal bucks must have at least a 15 inch outside antler spread. | <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. All legal bucks for the license year must have at least 4 points on one side. | <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. At least one legal buck for the license year must have at least 4 points on one side. | <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. Reduce the yearly antlered buck limit. | <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. Delay opening of deer gun season until after the peak rut (Dec. 1). | <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 |

56. Did you hunt deer on National Forest land during the 2008-2009 season?
 Yes No (Skip to Question 57)

- 56a. **If yes**, When compared to previous years, would you say the number of deer on **National Forest** lands you hunted during 2008-2009: (✓ only one)
- Declined dramatically
 - Declined
 - Remained about the same
 - Increased
 - Increased dramatically
 - No opinion

57. Did you hunt on DMAP enrolled lands during the 2008-2009 hunting season?
 Yes No (Skip to Question 58)

- If yes**, how do you rate the quality of your 2008-2009 hunting on DMAP lands?
- | | | | | | | |
|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| 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 |

58. Are you familiar with the regulatory input process DGIF has been conducting since September 2008?
 Yes No (Skip to Question 59)

If yes, have you participated in the current regulations process?
 Yes No (Skip Question 59)

- If yes, how did you participate? (✓ all that apply)
- Attended meeting
 - Attended meeting and submitted comment (orally or in writing)
 - Commented using online form
 - Emailed comments
 - Sent letter to DGIF

59. How old are you? _____ Years

60. Are you? Male Female

61. Please indicate where you reside in Virginia _____
County (or Independent City)

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 agency's Survey Coordinator, Coren Jagnow at 804-367-0730 or email her at coren.jagnow@dgif.virginia.gov

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

THANKS AGAIN!

Hunter Survey, VDGIF
4010 West Broad Sreet
P.O. Box 11104
Richmond, VA 23230-1104

This program received Federal financial assistance in Sport Fish and/or Wildlife Restoration. Under Title VI of the 1964 Civil Rights Act, Section 504 of the Rehabilitation Act of 1973, Title II of the Americans with Disabilities Act of 1990, the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, the U.S. Department of the Interior prohibits discrimination on the basis of race, color, national origin, age, sex, or disability. If you believe that you have been discriminated against in any program, activity or facility as described above, or if you desire further information please write to the Office for Human Resources, U.S. Fish and Wildlife Service, 4040 N. Fairfax Drive, Room 300, Arlington, VA 22203.

