

VIRGINIA SURVEY
OF
HUNTER HARVEST, EFFORT AND ATTITUDES

1993-94



By:

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1993-94**

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Virginia Department of Game and Inland Fisheries
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by

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Table of Contents

	<u>Page</u>
Contributors	ii
List of Tables	iv
Introduction	1
Methods	1
Generation of the Sample	1
Development of Survey Instrument	2
Administration of the Survey	3
Response Rate	3
Data Analyses	3
Results	4
References	64
Appendix	65

List of Tables

<u>Table</u>	<u>Page</u>
1 1992-1993 Hunting Population and Survey Sample Statistics	2
2 Distribution of Hunting License Holders Among Three License Categories, 1993-94	3
3 Expanded Statewide Summary of the 93-94 Virginia Survey of Game Harvest Based on 291,139 License Holders	7
4 Expanded Statewide Estimates of Total Harvest (with Standard Errors) for Virginia Game Species During 93-94	8
5 Expanded Statewide and Regional Summaries of QUAIL Hunting in Virginia During the 1993-94 Hunting Season	9
6 Expanded Statewide and Regional Summaries of WOODCOCK Hunting in Virginia During the 1993-94 Hunting Season	10
7 Expanded Statewide and Regional Summaries of RUFFED GROUSE Hunting in Virginia During the 1993-94 Hunting Season	11
8 Expanded Statewide and Regional Summaries of CROW Hunting in Virginia During the 1993-94 Hunting Season	12
9 Expanded Statewide and Regional Summaries of RABBIT Hunting in Virginia During the 1993-94 Hunting Season	13
10 Expanded Statewide and Regional Summaries of GRAY SQUIRREL Hunting in Virginia During the 1993-94 Hunting Season	14

Table

	Page
11 Expanded Statewide and Regional Summaries of FOX SQUIRREL Hunting in Virginia During the 1993-94 Hunting Season	15
12 Expanded Statewide and Regional Summaries of GROUNDHOG/WOODCHUCK Hunting in Virginia During the 1993-94 Hunting Season	16
13 Expanded Statewide and Regional Summaries of ARCHERY DEER Hunting in Virginia During the 1993-94 Hunting Season	17
14 Expanded Statewide and Regional Summaries of ARCHERY DEER (BUCK) Hunting in Virginia During the 1993-94 Hunting Season	18
15 Expanded Statewide and Regional Summaries of ARCHERY DEER (DOE) Hunting in Virginia During the 1993-94 Hunting Season	19
16 Expanded Statewide and Regional Summaries of MUZZLELOADER DEER Hunting in Virginia During the 1993-94 Hunting Season	20
17 Expanded Statewide and Regional Summaries of MUZZLELOADER DEER (BUCK) Hunting in Virginia During the 1993-94 Hunting Season	21
18 Expanded Statewide and Regional Summaries of MUZZLELOADER DEER (DOE) Hunting in Virginia During the 1993-94 Hunting Season	22
19 Expanded Statewide and Regional Summaries of GUN DEER Hunting in Virginia During the 1993-94 Hunting Season	23
20 Expanded Statewide and Regional Summaries of GUN DEER (BUCK) Hunting in Virginia During the 1993-94 Hunting Season	24
21 Expanded Statewide and Regional Summaries of GUN DEER (DOE) Hunting in Virginia During the 1993-94 Hunting Season	25

	<u>Table</u>	<u>Page</u>
22	Expanded Statewide Summary of TOTAL DEER Hunting in Virginia During the 1993-94 Hunting Season	26
23	Expanded Statewide Summary of TOTAL DEER (BUCKS) Hunting in Virginia During the 1993-94 Hunting Season	26
24	Expanded Statewide Summary of TOTAL DEER (DOES) Hunting in Virginia During the 1993-94 Hunting Season	26
25	Expanded Statewide and Regional Summaries of SPRING TURKEY (1993) Hunting in Virginia During the 1993-94 Hunting Season	27
26	Expanded Statewide and Regional Summaries of FALL TURKEY (1993) Hunting in Virginia During the 1993-94 Hunting Season	28
27	Expanded Statewide and Regional Summaries of SPRING TURKEY (1994) Hunting in Virginia During the 1993-94 Hunting Season	29
28	Expanded Statewide and Regional Summaries of BEAR Hunting in Virginia During the 1993-94 Hunting Season	30
29	Expanded Statewide and Regional Summaries of TOTAL DUCK Hunting in Virginia During the 1993-94 Hunting Season	31
30	Expanded Statewide and Regional Summaries of MALLARD DUCK Hunting in Virginia During the 1993-94 Hunting Season	32
31	Expanded Statewide and Regional Summaries of WOOD DUCK Hunting in Virginia During the 1993-94 Hunting Season	33
32	Expanded Statewide and Regional Summaries of BLACK DUCK Hunting in Virginia During the 1993-94 Hunting Season	34

Table

	Page
33 Expanded Statewide and Regional Summaries of ALL OTHER DUCKS Hunting in Virginia During the 1993-94 Hunting Season	35
34 Expanded Statewide and Regional Summaries of GEESE: SEPTEMBER Hunting in Virginia During the 1993-94 Hunting Season	36
35 Expanded Statewide and Regional Summaries of GEESE: NOVEMBER-JANUARY Hunting in Virginia During the 1993-94 Hunting Season	37
36 Expanded Statewide and Regional Summaries of RED FOX Hunting in Virginia During the 1993-94 Hunting Season	38
37 Expanded Statewide and Regional Summaries of GRAY FOX Hunting in Virginia During the 1993-94 Hunting Season	39
38 Expanded Statewide and Regional Summaries of COYOTE Hunting in Virginia During the 1993-94 Hunting Season	40
39 Expanded Statewide and Regional Summaries of RACCOON Hunting in Virginia During the 1993-94 Hunting Season	41
40 Expanded Statewide and Regional Summaries of BOBCAT Hunting in Virginia During the 1993-94 Hunting Season	42
41 Expanded Statewide and Regional Summaries of TOTAL DOVE Hunting in Virginia During the 1993-94 Hunting Season	43
42 Expanded Statewide and Regional Summaries of DOVE: OPENING DAY Hunting in Virginia During the 1993-94 Hunting Season	44
43 Expanded Statewide and Regional Summaries of DOVE: 1ST SEGMENT Hunting in Virginia During the 1993-94 Hunting Season	45

<u>Table</u>	<u>Page</u>
44 Expanded Statewide and Regional Summaries of DOVE: 2ND SEGMENT Hunting in Virginia During the 1993-94 Hunting Season	46
45 Expanded Statewide and Regional Summaries of DOVE: 3RD SEGMENT Hunting in Virginia During the 1993-94 Hunting Season	47
46 Expanded Statewide Summary of TOTAL SQUIRREL Hunting in Virginia During the 1993-94 Hunting Season	48
47 Expanded Statewide Summary of TOTAL GEESE Hunting in Virginia During the 1993-94 Hunting Season	48
48 Statewide and Regional Summaries of Preferences for RUFFED GROUSE Season	49
49 Statewide and Regional Summaries of Preferences for WOODCOCK Season	49
50 Statewide and Regional Summaries of Preferences for DEER-MUZZLELOADER Season	49
51 Statewide and Regional Summaries of Preferences for DUCK Season	49
52 Statewide and Regional Summaries of PREFERENCES FOR OPENING DOVE SEASON	50
53 Mean Rankings of MOST PREFERRED MONTHS TO DOVE HUNT	50
54 Respondents' Preferences for SHOOTING HOURS ON OPENING DAY OF DOVE SEASON	50
55 Respondents' Preferences for SHOOTING HOURS DURING THE 1ST SEGMENT OF DOVE SEASON	51
56 Respondents' Preferences for SHOOTING HOURS DURING THE 2ND SEGMENT OF DOVE SEASON	51

<u>Table</u>	<u>Page</u>
57 Respondents' Preferences for SHOOTING HOURS DURING THE 3RD SEGMENT OF DOVE SEASON	51
58 Respondents' Preferences for Selected SEASON LENGTHS AND BAG LIMITS FOR DOVES	51
59 Opinions of GUN-DEER Hunters Regarding the LENGTH OF THE EASTERN ZONE SEASON	52
60 Opinions of GUN-DEER Hunters Regarding the LENGTH OF THE WESTERN ZONE SEASON	52
61 Opinions of GUN-DEER Hunters Regarding the APPROPRIATE NUMBER OF DOE DAYS	52
62 Perceptions of Deer Hunters Regarding OVERALL QUALITY OF DEER HUNTING During 1993-94	52
63 Opinions of Rabbit Hunters Regarding OPENING RABBIT SEASON PRIOR TO 1ST MONDAY IN NOVEMBER	53
64 Perceptions of RABBIT HUNTERS WHO OPPOSED/STRONGLY OPPOSED OPENING RABBIT SEASON PRIOR TO 1ST MONDAY IN NOVEMBER	53
65 Opinions of Bear Hunters and Non-Bear Hunters Regarding the APPROPRIATENESS OF BEAR DOG TRAINING (CHASE) SEASON	54
66 Opinions of Waterfowl Hunters and Non-Waterfowl Hunters Regarding the APPROPRIATENESS OF SWAN HUNTING SEASON	54
67 Preferences of FALL TURKEY HUNTERS Regarding Season Dates	55
68 Statewide and Regional Summaries of Fall Turkey Hunters' Perceptions of the IMPORTANCE OF SELECTED ATTRIBUTES ASSOCIATED WITH HARVESTING FALL TURKEYS	55
69 Perceptions of Fall Turkey Hunters Regarding OVERALL QUALITY OF FALL TURKEY HUNTING During 1993-94	56

<u>Table</u>	<u>Page</u>
70 Perceptions of Fall Turkey Hunters Regarding TRENDS IN NUMBERS OF TURKEYS	56
71 Perceptions of Fall Turkey Hunters Regarding the MEAN NUMBER OF DAYS NEEDED IN ORDER TO HAVE AN "EXCELLENT SEASON"	56
72 Statewide Summary of Respondents' Perceptions Regarding the IMPORTANCE AND SATISFACTION OF SELECTED FALL TURKEY HUNTING ATTRIBUTES (1993)	57
73 Region 1 Summary of Respondents' Perceptions Regarding the IMPORTANCE AND SATISFACTION OF SELECTED FALL TURKEY HUNTING ATTRIBUTES (1993)	58
74 Region 2 Summary of Respondents' Perceptions Regarding the IMPORTANCE AND SATISFACTION OF SELECTED FALL TURKEY HUNTING ATTRIBUTES (1993)	59
75 Region 3 Summary of Respondents' Perceptions Regarding the IMPORTANCE AND SATISFACTION OF SELECTED FALL TURKEY HUNTING ATTRIBUTES (1993)	60
76 Region 4 Summary of Respondents' Perceptions Regarding the IMPORTANCE AND SATISFACTION OF SELECTED FALL TURKEY HUNTING ATTRIBUTES (1993)	61
77 Region 5 Summary of Respondents' Perceptions Regarding the IMPORTANCE AND SATISFACTION OF SELECTED FALL TURKEY HUNTING ATTRIBUTES (1993)	62
78 Statewide and Regional Distribution of DOVE HUNTING ACROSS EIGHT TYPES OF LAND During the 1993-94 Hunting Season	63
79 Statewide and Regional Distribution of DEER (GUN) HUNTING ACROSS EIGHT TYPES OF LAND During the 1993-94 Hunting Season	63
80 Statewide and Regional Distribution of RABBIT HUNTING ACROSS EIGHT TYPES OF LAND During the 1993-94 Hunting Season	63

**Virginia Survey of Hunter Harvest, Effort and Attitudes
1993-94**

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

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

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

The purpose of this study was to:

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

Methods

Generation of the Sample

A random sample of 5,000 Virginia hunters was drawn from license records maintained by the Administrative Services Division of the Department of Game and Inland Fisheries. A stratified, random sampling design was developed to select potential survey participants from these files. All persons who purchased a general state resident hunting license, a county-city license, or a senior license for the 1992-93 season were eligible to be drawn ($N = 299,578$). To ensure the representativeness of the sample, the number of license holders within each of the three categories

was determined and the number of names selected was proportionate to the number of licenses sold (see Table 1).

Consideration was also given to ensuring the representativeness of the sample geographically across the state. The most preferred method would be to select hunters based on where they hunted; but, there was no way to determine the distribution of hunting across the state. The most feasible strategy, then, was to select hunters proportionately, based on where they purchased their license (i.e., if a license agent sold 2% of the total licenses within one of the three categories, then 100

Table 1.
1991-1992 Hunting Population and Survey Sample Statistics

	Population	Sample	Pct.
State Resident Licenses	264,853	4,420	88.4%
County/City Licenses	22,911	380	7.6%
Senior (65+) Licenses	11,814	200	4.0%
TOTALS	299,578	5,000	100%

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

Development of Survey Instrument

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

Administration of the Survey

Procedures outlined by Dillman (1978) were employed to collect the data. A questionnaire, a self-addressed prestamped envelope, and a personalized cover letter explaining the importance of the study were mailed to each of the 5,000 study participants. One week after the initial mailing, a post card reminder was sent to each person to encourage early response. Non-respondents to the first mailing were identified and two follow-up mailings were sent, when necessary.

Response Rate

By the end of the data collection period, a total of 621 surveys were returned as undeliverable (persons moved, wrong address given, etc.). They were removed from the original sample. Another 2,887 questionnaires had been returned. Of that total, 412 persons either did not purchase a license in 1993-94 (314 persons/6.3%) or refused to complete the survey (98 persons/1.9%), and were subsequently removed from the sample as well. Consequently, a total of 2,475 usable questionnaires were received, resulting in an effective response rate of 62.4% (effective n = 3,967).

Data Analyses

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

Table 2.
Distribution of Hunting License Holders
Among Three License Categories, 1993-94

	Population	Pct.
State Resident Licenses	257,687	88.5%
County/City Licenses	20,885	7.2%
Senior (65+) Licenses	12,567	4.3%
TOTALS	291,139	100%

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

Results

Results are provided on the following pages in tabular form. Analyses are segmented into three sections of information. The first section provides estimates and standard errors of harvest and effort for 44 game species (or subpopulations of game animals) during the 1993-94 hunting seasons. Statewide summaries are shown in Tables 3 and 4. Regional estimates are provided in Tables 5-45. The second section assesses hunters' preferences for selected season dates, bag limits, shooting hours and other data pertinent to management of hunting in Virginia. This information is included in Tables 48-71.

The third section of assesses the importance hunters assign to specific attributes of a fall turkey hunting experience, as well as an evaluation of their actual experiences during the 1993 fall season. The differences found to occur between a hunter's perceptions of how "essential" a particular attribute of a fall turkey hunting experience is (scored as 1 to 7), and how they perceived their actual experiences to have been (also scored 1 to 7), result in a diagnostic evaluation of hunters' satisfaction with turkey hunting during a particular season. As with previous analyses, these data are summarized statewide and regionally in Tables 72-77.

Finally, an assessment of the types of land on which respondents hunted during the 1993-94 season was conducted. The number of days spent hunting on eight different types of land (VDGIF wildlife management areas, national forest, private land, etc.) is presented in the final three tables (Tables 78-80) for three species (dove, deer and rabbits).

Notes

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

1. When considering statistics given in this report, it is important to remember that they should not be viewed as absolute numbers, especially when comparing these statistics with other statistics from other studies. Rather, the data provided here are only indices of harvest and effort, for use in conjunction with future mail surveys to determine trends. Response and non-response biases exist in all survey efforts. However, when care is taken to fully replicate study methods in subsequent studies, biases should be constant, therefore providing indices of trends over time.
2. Total Harvest and Total Man-Days statistics are derived from a formula utilizing the total number of licenses sold for the 1993-94 hunting season ($n=291,139$). However, the statistics reported for Spring Turkey (1993) used a factor of 299,578 since this season was actually during the 1992-93

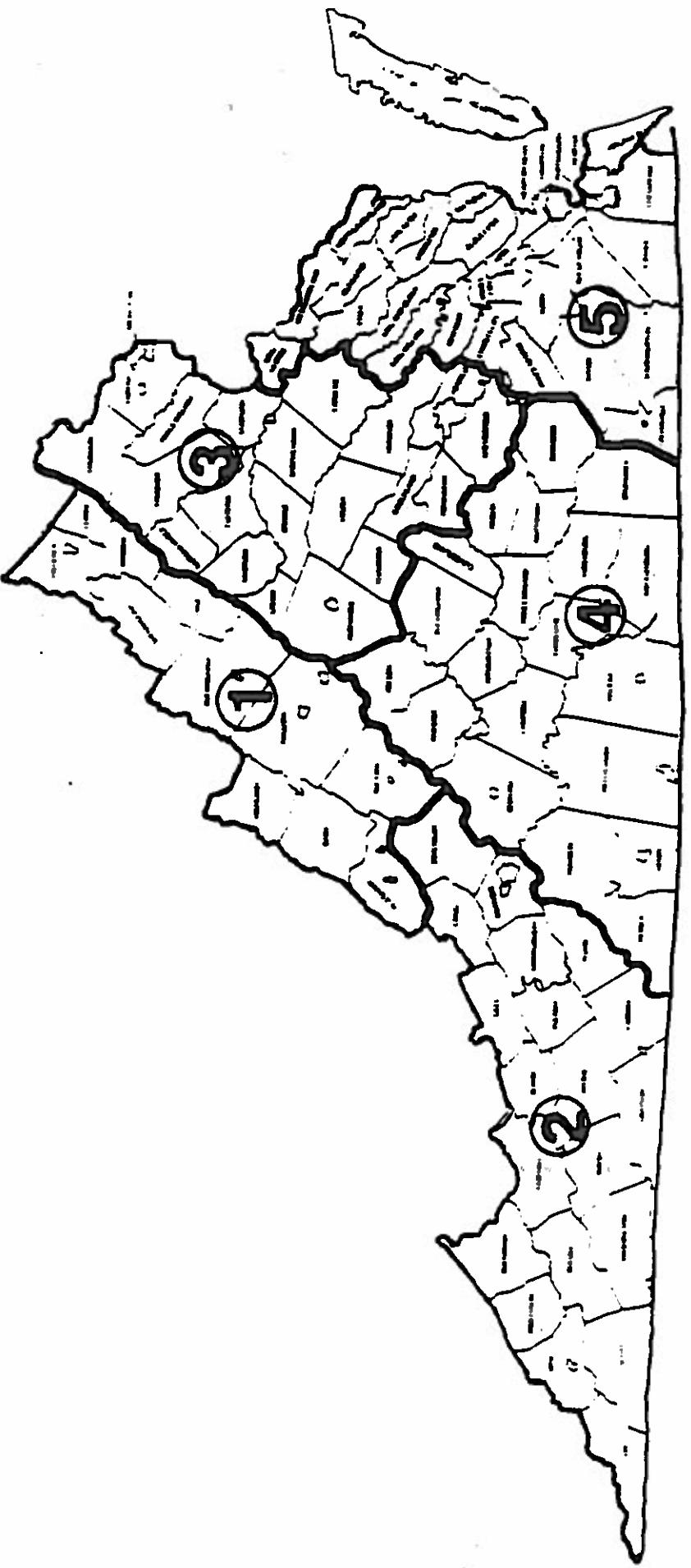


fig. 1

hunting season. Total Harvest statistics include all animals harvested regardless of whether or not a hunter was hunting specifically for that animal (incidental kills).

3. Statistics for (a) Average Daily Kill, (b) Average Seasonal Harvest, (c) Percent Successful Hunters, (d) Average Seasonal Days Hunting, (e) Total Hunters, and (f) Percent of Total Licenses/Hunters Per Region were calculated using data only from those hunters who reported hunting specifically for that game animal.

4. Totals may not always total 100 percent due to rounding errors and missing values.

Table 3. EXPANDED STATEWIDE SUMMARY OF THE 93-94 VIRGINIA SURVEY OF GAME HARVEST BASED ON 291,139 LICENSE HOLDERS.

Species	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT TOTAL LICENSEES
QUAIL	258,738	1.321	8.17	60.8	190,677	6.18	30,621	10.5
WOODCOCK	12,131	0.497	2.38	43.2	21,426	4.79	4,356	1.5
RUFFED GROUSE	51,800	0.314	1.60	47.7	146,512	5.12	28,619	9.8
CROW	201,549	1.444	11.03	84.7	129,500	7.64	16,953	5.8
RABBIT	608,359	1.144	7.14	75.5	504,633	6.24	80,473	27.6
TOTAL SQUIRREL	1,316,485	1.189	10.43	87.0	1,039,059	8.77	118,433	40.7
GRAY SQUIRREL	1,178,246	1.412	9.43	86.9	769,969	6.68	114,877	39.5
FOX SQUIRREL	140,623	0.484	3.37	66.9	269,713	6.96	38,732	13.3
GROUNDHOG/WOODCHUCK	539,256	0.889	9.69	92.2	559,783	10.90	51,232	17.6
TOTAL DEER	310,329	0.076	1.21	54.2	3,796,476	15.85	239,512	82.3
BUCK	175,766	0.043	0.69	41.7	—	—	—	—
DOE	134,562	0.033	0.53	33.2	—	—	—	—
ARCHERY	35,789	0.039	0.41	26.9	812,591	10.39	78,188	26.9
BUCK	17,424	0.019	0.20	15.9	—	—	—	—
DOE	18,365	0.020	0.21	16.5	—	—	—	—
MUZZLELOADER	44,265	0.069	0.49	32.8	574,604	7.06	81,344	27.9
BUCK	30,268	0.048	0.34	26.3	—	—	—	—
DOE	14,015	0.021	0.15	11.6	—	—	—	—
GUN	230,460	0.087	0.92	48.4	2,432,538	10.56	230,153	79.1
BUCK	128,764	0.048	0.51	35.7	—	—	—	—
DOE	102,644	0.039	0.41	28.7	—	—	—	—
TURKEY 1993	42,611	0.032	0.30	22.2	1,150,808	9.48	120,483	41.4
SPRING 1993 *	15,512	0.038	0.26	21.1	301,625	6.99	43,005	14.8
FALL 1993	27,099	0.027	0.21	18.2	840,440	7.94	105,762	36.3
SPRING 1994	16,842	0.039	0.24	20.3	361,979	6.11	59,171	20.3
BEAR	824	0.005	0.04	4.1	151,227	7.59	19,920	6.8
TOTAL DUCKS	207,906	1.519	11.94	83.6	129,605	7.86	16,482	5.7
MALLARD	72,049	0.531	4.17	60.0	—	—	—	—
WOOD	57,686	0.411	3.23	57.1	—	—	—	—
BLACK	31,315	0.237	1.86	27.9	—	—	—	—
ALL OTHERS	46,855	0.340	2.67	31.4	—	—	—	—
TOTAL GEESE	30,256	0.540	2.56	56.5	47,562	4.75	10,007	3.4
SEPT.	5,415	0.231	0.56	18.5	7,655	2.41	3,180	1.1
NOV-JAN	24,840	0.596	2.66	61.8	39,926	4.46	8,951	3.1
RED FOX	11,890	0.157	0.87	53.7	53,116	5.50	9,658	3.3
GRAY FOX	13,421	0.219	1.19	42.9	40,413	5.44	7,423	2.5
COYOTE	1,295	0.060	0.47	33.3	13,780	7.80	1,767	0.6
RACCOON	177,087	0.380	9.32	85.5	361,361	24.54	14,610	5.0
BOBCAT	2,944	0.090	0.40	21.4	22,133	4.48	4,945	1.7
TOTAL DOVE	1,172,444	4.137	20.87	89.4	275,599	5.05	54,625	18.8
OPENING DAY	289,020	7.361	7.36	91.7	34,463	1.00	33,905	11.6
1ST SEG.	666,236	3.948	15.72	85.8	165,053	3.98	41,322	14.2
2ND SEG.	166,668	2.774	11.23	67.8	58,628	4.05	14,245	4.5
3RD SEG.	51,800	2.359	6.56	70.9	18,019	2.78	6,478	2.2

* N=299,578 TOTAL LICENSES '92-'93

Table 4. EXPANDED STATEWIDE ESTIMATES OF TOTAL HARVEST (WITH STD ERRORS) FOR VIRGINIA GAME SPECIES DURING 93-94.

Species	TOTAL HARVEST	SE	STANDARD ERROR		LOWER LIMIT	UPPER LIMIT
			AS % OF TOTAL *			
QUAIL	258,738	32,008	12.4		194,722	322,753
WOODCOCK	12,131	4,304	35.5		3,524	20,738
RUFFED GROUSE	51,800	7,810	15.1		36,179	67,421
CROW	201,549	42,947	21.3		115,655	287,442
RABBIT	608,359	44,968	7.4		518,424	698,294
TOTAL SQUIRREL	1,316,485	54,086	4.1		1,208,313	1,424,658
GRAY SQUIRREL	1,178,246	49,410	4.2		1,079,426	1,277,066
FOX SQUIRREL	140,623	11,961	8.5		116,702	164,544
GROUNDHOG/WOODCHUCK	539,256	41,347	7.7		456,562	621,949
TOTAL DEER	310,329	10,615	3.4		289,099	331,558
BUCK	175,766	6,244	3.6		163,279	188,254
DOE	134,562	6,267	4.7		122,028	147,096
ARCHERY DEER	35,789	3,081	8.6		29,627	41,951
BUCK	17,424	2,030	11.6		13,364	21,483
DOE	18,365	1,802	9.8		14,762	21,969
MUZZLELOADER	44,265	3,278	7.4		37,710	50,821
BUCK	30,268	2,297	7.6		25,674	34,862
DOE	14,015	1,720	12.3		10,574	17,456
GUN	230,460	8,353	3.6		213,755	247,166
BUCK	128,764	4,902	3.8		118,960	138,568
DOE	102,644	5,051	4.9		92,541	112,746
TURKEY 1993	42,611	3,653	8.6		35,306	49,917
SPRING 1993 **	15,512	1,596	10.3		12,320	18,704
FALL 1993	27,099	2,057	7.6		22,986	31,212
SPRING 1994	16,842	1,601	9.5		13,640	20,044
BEAR	824	311	37.8		202	1,447
TOTAL DUCKS	207,906	48,445	23.3		111,015	304,796
MALLARD	72,049	17,575	24.4		36,900	107,198
WOOD	57,686	8,300	14.4		41,086	74,287
BLACK	31,315	14,215	45.4		2,886	59,745
ALL OTHERS	46,855	15,107	32.2		16,642	77,069
TOTAL GEESE	30,256	6,400	21.2		17,456	43,056
SEPT.	5,415	3,519	65.0		0	12,453
NOV-JAN	24,840	4,924	19.8		14,992	34,689
RED FOX	11,890	1,916	16.1		8,058	15,723
GRAY FOX	13,421	2,697	20.1		8,026	18,816
COYOTE	1,295	634	48.9		28	2,562
RACCOON	177,087	27,697	15.6		121,693	232,481
BOBCAT	2,944	1,182	40.2		580	5,309
TOTAL DOVE	1,172,444	78,797	6.7		1,014,850	1,330,038
OPENING DAY	289,020	18,287	6.3		252,445	325,594
1ST SEG.	666,236	47,701	7.2		570,834	761,637
2ND SEG.	166,668	25,917	15.6		114,833	218,503
3RD SEG.	51,800	10,142	19.6		31,517	72,083

* % = 100(SE/TOTAL HARVEST)

** N=299,578 TOTAL LICENSES '92-'93

TABLE 5. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF QUAIL HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

		EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF QUAIL HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON								
REGION	STATISTIC	TOTAL HARVEST		AVERAGE SEASONAL HARVEST		PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
		AVERAGE DAILY KILL	TOTAL HARVEST	AVERAGE SEASONAL HARVEST	AVERAGE DAILY KILL					
1	ESTIMATE	8,598	0.485	1.97	36.4	15,775	4.06	3,885	13.3	
	(SE)	2,719	0.151	0.61	8.6	3,821	0.70	672	2.2	
	N	2,472	32	32	32	2,473	33	2,473	249	
2	ESTIMATE	13,544	0.501	3.19	37.8	27,784	6.38	4,356	14.9	
	(SE)	5,766	0.204	1.27	8.2	7,076	1.26	711	2.3	
	N	2,472	36	36	36	2,473	37	2,473	249	
3	ESTIMATE	24,026	1.146	4.51	60.9	21,317	3.93	5,418	18.5	
	(SE)	7,059	0.303	1.17	7.4	4,211	0.53	791	2.5	
	N	2,472	45	45	45	2,472	46	2,473	249	
4	ESTIMATE	62,681	1.101	7.43	63.9	57,215	6.75	8,476	28.9	
	(SE)	14,104	0.232	1.48	5.8	13,268	1.36	984	2.9	
	N	2,471	70	70	70	2,473	72	2,473	249	
5	ESTIMATE	118,010	1.842	16.25	80.3	63,337	6.82	7,181	24.5	
	(SE)	24,037	0.222	2.70	5.2	13,376	1.50	908	2.7	
	N	2,472	60	60	60	2,473	61	2,473	249	
								PERCENT OF TOTAL LICENSEES		

THE JOURNAL OF CLIMATE

TABLE 7. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF RUFFED GROUSE HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

REGION	STATISTIC				PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
		TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST					
1	ESTIMATE	12,950	0.257	1.26	46.3	47,228	4.89	9,658	36.4
	(SE)	2,982	0.055	0.28	5.5	7,392	0.55	1,049	3.2
	N	2,473	82	82	82	2,472	82	2,472	225
2	ESTIMATE	28,254	0.328	2.00	56.6	81,232	6.11	13,309	50.2
	(SE)	6,572	0.069	0.46	4.7	11,829	0.69	1,223	3.3
	N	2,473	113	113	113	2,473	113	2,472	225
3	ESTIMATE	353	0.111	0.23	7.7	3,179	2.08	1,531	5.8
	(SE)	353	0.108	0.23	7.7	1,004	0.33	424	1.6
	N	2,473	13	13	13	2,473	13	2,472	225
4	ESTIMATE	5,415	1.049	2.69	50.0	4,827	2.56	1,884	7.1
	(SE)	2,523	0.398	1.19	12.9	1,581	0.56	470	1.7
	N	2,473	16	16	16	2,473	16	2,472	225
5	ESTIMATE	0	0	0	0	236	2.00	118	0.4
	(SE)	0	0	0	0	236	0	118	0.4
	N	2,473	1	1	1	2,473	1	2,472	225
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	51,800	0.314	1.60	47.7	146,512	5.12	28,619	9.8
	(SE)	7,810	0.045	0.25	3.2	14,240	0.39	1,744	0.6
	N	2,473	243	243	243	2,472	243	2,472	2,472

EXPADED STATEWIDE AND REGIONAL SUMMARIES OF CROW HUNTING IN VIRGINIA DURING THE 1993-94 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	
									Percent Hunters	Total Hunters
1	ESTIMATE	17,188	1,030	8.18	88.2	15,893	7.94	2,001	13.0	
	(SE)	6,794	0.547	2.83	8.1	7,614	3.39	484	2.9	
	N	2,473	17	17	17	2,473	17	2,473	131	
2	ESTIMATE	31,433	1,255	4.80	82.5	18,012	3.83	4,709	30.5	
	(SE)	7,773	0.301	0.93	6.1	4,920	0.87	739	4.0	
	N	2,473	40	40	40	2,473	40	2,473	131	
3	ESTIMATE	5,251	1,835	20.18	95.5	28,490	11.00	2,590	16.8	
	(SE)	32,946	1,232	12.26	4.5	13,413	4.73	550	3.3	
	N	2,473	22	22	22	2,473	22	2,473	131	
4	ESTIMATE	57,098	2,479	14.58	84.8	22,639	5.88	3,885	25.2	
	(SE)	20,303	0.979	4.65	6.3	6,388	1.31	672	3.8	
	N	2,473	33	33	33	2,473	33	2,473	131	
5	ESTIMATE	35,907	2,098	15.79	94.7	16,835	7.53	2,237	14.5	
	(SE)	15,680	0.921	6.17	5.3	6,851	2.60	511	3.1	
	N	2,473	19	19	19	2,473	19	2,473	131	
									Percent of Total Licensees	
									Total Licensees	

TABLE 9.

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF RABBIT HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEES	TOTAL
1	ESTIMATE (SE)	68,690 11,938	1,079 0.135	6.16 0.90	68.1 4.9	63,219 9,057	5.71 0.58	11,066 1,120	14.9 1.4	
2	N	2,471	92	92		2,473	94	2,473	630	
3	ESTIMATE (SE)	114,452 14,762	1,039 0.091	6.69 0.70	76.1 3.6	107,720 13,122	6.44 0.59	16,717 1,362	22.5 1.7	
4	N	2,470	140	140		2,473	142	2,473	630	
5	ESTIMATE (SE)	59,971 11,968	1,004 0.146	4.38 0.82	66.1 4.5	57,592 8,479	4.37 0.50	13,185 1,218	17.8 1.5	
	N	2,471	110	110		2,472	112	2,473	630	
6	ESTIMATE (SE)	158,300 31,489	1,197 0.173	8.10 1.54	76.1 3.4	129,905 17,496	6.77 0.76	19,190 1,453	25.9 1.7	
	N	2,470	161	161		2,472	163	2,473	630	
STATEWIDE	ESTIMATE (SE)	141,387 21,227	1,321 0.129	9.74 1.25	103,364 3.1	7.38 0.76	14,010 1,253		27.6	
	N	2,471	117	117		2,473	119	2,473	630	
									PERCENT OF TOTAL	
									LICENSEES	

TABLE 10. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF GRAY SQUIRREL HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									TOTAL HUNTERS	HUNTERS PER REGION
1	ESTIMATE	205,364	1.385	9.05	87.0	141,626	6.54	21,662	20.8	
1	(SE)	20,550	0.102	0.69	2.5	15,446	0.54	1,537	1.4	
1	N	2,471	182	182		2,473		184	2,473	884
2	ESTIMATE	307,988	1.325	10.35	89.5	227,095	7.81	29,079	27.9	
2	(SE)	26,858	0.101	0.67	2.0	21,702	0.58	1,756	1.5	
2	N	2,471	245	245		2,473		247	2,473	884
3	ESTIMATE	161,888	1.685	8.08	85.0	63,031	4.80	17,306	16.6	
3	(SE)	17,847	0.152	0.69	3.0	10,442	0.47	1,385	1.3	
3	N	2,471	145	145		2,472		147	2,473	884
4	ESTIMATE	212,842	1.416	9.89	88.5	146,394	6.98	20,955	20.1	
4	(SE)	25,218	0.165	0.97	2.6	19,322	0.77	1,513	1.3	
4	N	2,469	175	175		2,472		178	2,473	884
5	ESTIMATE	159,885	1.580	10.01	85.9	95,477	6.34	15,069	14.5	
5	(SE)	20,747	0.115	1.06	3.1	11,875	0.57	1,297	1.2	
5	N	2,471	126	126		2,473		128	2,473	884
PERCENT OF TOTAL LICENSEES										
STATEWIDE	ESTIMATE	1,178,246	1.412	9.43	86.9	769,969	6.68	114,877	39.5	
STATEWIDE	(SE)	49,410	0.056	0.35	1.1	3,590	0.26	2,863	1.0	
STATEWIDE	N	2,467	975	975		2,471		979	2,471	2,471

TABLE 11.

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF FOX SQUIRREL HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEES	TOTAL
1	ESTIMATE	51,800	0.636	3.80	68.2	77,347	5.97	12,950	36.1	36.1
	(SE)	7,728	0.099	0.48	4.5	11,671	0.71	1,207	2.9	2.9
	N	2,473	110	110	110	2,473	110	2,473	289	289
2	ESTIMATE	69,694	0.495	3.92	79.3	135,386	7.93	17,070	50.2	50.2
	(SE)	8,509	0.067	0.38	3.4	19,639	0.96	1,376	2.9	2.9
	N	2,473	145	145	145	2,473	145	2,473	289	289
3	ESTIMATE	3,885	0.478	1.60	50.0	7,888	3.35	2,355	6.9	6.9
	(SE)	1,492	0.199	0.54	11.5	2,269	0.63	524	1.5	1.5
	N	2,473	20	20	20	2,473	20	2,473	289	289
4	ESTIMATE	2,708	0.480	1.50	50.0	2,943	3.13	942	2.8	2.8
	(SE)	1,262	0.176	0.76	18.9	1,326	0.93	333	1.0	1.0
	N	2,473	8	8	8	2,473	8	2,473	289	289
5	ESTIMATE	3,179	1.136	4.17	66.7	2,590	3.67	706	2.1	2.1
	(SE)	2,392	0.719	3.19	21.1	1,331	1.26	288	0.8	0.8
	N	2,473	6	6	6	2,473	6	2,473	289	289
PERCENT OF TOTAL LICENSEES										
STATEWIDE	ESTIMATE	140,623	0.484	3.37	66.9	269,713	6.96	38,732	13.3	
	(SE)	11,961	0.050	0.25	2.6	26,506	0.58	1,989	0.7	
	N	2,472	329	329	329	2,473	329	2,473	2,473	

TABLE 12. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF GROUNDHOG/WOODCHUCK HUNTING IN VA DURING THE '93-94 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEES	TOTAL
1	ESTIMATE	111,370	0.878	8.98	93.9	117,983	10.22	11,537	25.5	
	(SE)	17,561	0.099	1.16	2.4	18,072	1.20	1,142	2.2	
	N	2,473	98	98	98	2,473	.98	2,473	384	
2	ESTIMATE	195,780	1.116	12.38	95.3	167,240	11.09	15,069	33.3	
	(SE)	29,180	0.147	1.60	1.9	22,408	1.14	1,297	2.4	
	N	2,473	128	128	128	2,472	128	2,473	384	
3	ESTIMATE	79,466	0.968	9.91	90.8	76,758	10.03	7,652	16.9	
	(SE)	15,860	0.177	1.66	3.6	17,302	1.91	937	1.9	
	N	2,473	65	65	65	2,473	.65	2,473	384	
4	ESTIMATE	66,072	0.680	8.32	88.5	87,824	12.23	7,181	15.9	
	(SE)	15,235	0.125	1.82	4.1	17,780	1.95	908	1.9	
	N	2,472	60	60	60	2,473	.61	2,473	384	
5	ESTIMATE	32,375	0.658	8.25	93.8	47,208	12.53	3,767	8.3	
	(SE)	8,085	0.147	1.59	4.3	15,412	3.50	662	1.4	
	N	2,473	32	32	32	2,473	.32	2,473	384	
PERCENT OF TOTAL LICENSEES										
STATEWIDE										
ESTIMATE	539,256	0.889	9.69	92.2	559,783	10.90	51,232	17.6		
(SE)	41,347	0.063	0.67	1.3	42,840	0.69	2,230	0.8		
N	2,470	435	435	435	2,472	436	2,472	2,472		

TABLE 13

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF ARCHERY DEER HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

Region	Statistic	Total Harvest	Average Daily Kill	Average Seasonal Harvest	Percent Successful Hunters	Total Man-Days	Average Seasonal Days Hunting	Total Hunters	Percent Hunters Per Region	
									Licenses	Total
1	ESTIMATE	5,180	0.036	0.34	25.2	134,444	9.60	14,010	18.9	
	(SE)	994	0.006	0.06	4.0	15,325	0.68	1,253	1.6	
	N	2,473	119	119	2,473		119	2,473	631	
2	ESTIMATE	8,476	0.033	0.37	26.9	255,100	11.22	22,731	30.6	
	(SE)	1,268	0.005	0.05	3.2	25,811	0.83	1,571	1.8	
	N	2,473	193	193	2,472		193	2,472	631	
3	ESTIMATE	4,591	0.041	0.34	18.9	109,339	8.36	13,078	17.6	
	(SE)	1,510	0.012	0.11	3.7	13,171	0.65	1,213	1.5	
	N	2,473	111	111	2,471		111	2,471	631	
4	ESTIMATE	8,476	0.049	0.51	32.0	155,706	10.32	15,087	20.3	
	(SE)	1,657	0.009	0.09	4.1	17,644	0.76	1,299	1.6	
	N	2,473	128	128	2,470		128	2,470	631	
5	ESTIMATE	5,769	0.053	0.56	33.8	99,206	10.53	9,426	12.7	
	(SE)	1,246	0.011	0.12	5.3	13,364	0.82	1,037	1.3	
	N	2,473	80	80	2,471		80	2,471	631	
									PERCENT OF TOTAL	LICENSEES

TABLE 14. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF ARCHERY DEER (BUCK) HUNTING IN VA DURING THE 1993-94 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST		AVERAGE SEASONAL HARVEST		PERCENT SUCCESSFUL HUNTERS		AVERAGE SEASONAL DAYS HUNTING		TOTAL HUNTERS		PERCENT HUNTERS PER REGION	
		AVERAGE DAILY KILL	TOTAL HARVEST	AVERAGE DAILY KILL	TOTAL HARVEST	PERCENT SUCCESSFUL HUNTERS	AVERAGE SEASONAL DAYS HUNTING	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	PERCENT OF TOTAL LICENSEES	PERCENT OF TOTAL LICENSEES
1	ESTIMATE	2,237	0.016	0.15	13.4	134,444	9.60	14,010	18.9				
	(SE)	563	0.004	0.04	3.1	15,325	0.68	1,253	1.6				
	N	2,473	119	119	119	2,473	119	2,473	119	2,473	631		
2	ESTIMATE	3,767	0.014	0.16	15.5	255,100	11.22	22,731	30.6				
	(SE)	682	0.002	0.03	2.6	25,811	0.83	1,571	1.8				
	N	2,473	193	193	193	2,472	193	2,472	193	2,472	631		
3	ESTIMATE	2,708	0.025	0.21	10.8	109,339	8.36	13,078	17.6				
	(SE)	1,367	0.012	0.10	3.0	13,171	0.65	1,213	1.5				
	N	2,473	111	111	111	2,471	111	2,471	111	2,471	631		
4	ESTIMATE	4,120	0.025	0.26	19.5	155,706	10.32	15,087	20.3				
	(SE)	931	0.005	0.06	3.5	17,644	0.76	1,289	1.6				
	N	2,473	128	128	128	2,470	128	2,470	128	2,470	631		
5	ESTIMATE	2,943	0.026	0.28	22.5	99,206	10.53	9,426	12.7				
	(SE)	674	0.006	0.06	4.7	13,364	0.82	1,037	1.3				
	N	2,473	80	80	80	2,471	80	2,471	80	2,471	631		
STATEWIDE	ESTIMATE	17,424	0.019	0.20	15.9	812,591	10.39	78,188	26.9				
	(SE)	2,030	0.002	0.02	1.4	41,552	0.40	2,600	0.9				
	N	2,473	662	662	662	2,465	662	2,465	662	2,465	2,465		

TABLE 15. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF ARCHERY DEER (DOE) HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

TABLE 16. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF MUZZLELOADER DEER HUNTING IN VA DURING THE 1993-94 HUNTING SEASON

TABLE 17. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF MUZZLELOADER DEER (BUCK) HUNTING IN VIRGINIA

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEEES	TOTAL
1	ESTIMATE	7,299	0.046	0.33	24.6	156,876	7.12	22,024	28.5	28.5
	(SE)	1,132	0.006	0.05	3.2	13,912	0.39	1,549	1.8	1.8
	N	2,473	187	187	187	2,472	187	2,472	657	657
2	ESTIMATE	7,420	0.042	0.29	24.3	179,371	6.99	25,675	33.2	33.2
	(SE)	1,063	0.005	0.04	2.9	15,429	0.40	1,661	1.8	1.8
	N	2,472	217	217	217	2,472	218	2,472	657	657
3	ESTIMATE	3,649	0.032	0.37	28.6	38,850	4.52	6,594	11.1	11.1
	(SE)	838	0.017	0.08	5.3	5,401	0.35	991	1.2	1.2
	N	2,473	73	73	73	2,473	73	2,473	657	657
4	ESTIMATE	5,886	0.058	0.37	29.7	95,121	6.30	15,087	19.5	19.5
	(SE)	992	0.008	0.06	4.1	9,908	0.37	1,299	1.5	1.5
	N	2,473	128	128	128	2,470	128	2,470	657	657
5	ESTIMATE	2,943	0.060	0.49	29.4	48,739	8.12	6,004	7.8	7.8
	(SE)	887	0.018	0.13	6.4	11,817	1.63	832	1.0	1.0
	N	2,473	51	51	51	2,473	51	2,473	657	657
PERCENT OF TOTAL LICENSEES										
STATEWIDE	ESTIMATE	30,268	0.048	0.34	26.3	574,604	7.06	81,344	27.9	27.9
	(SE)	2,297	0.004	0.02	1.7	28,981	0.27	2,631	0.9	0.9
	N	2,472	688	688	688	2,466	689	2,466	2,466	2,466

TABLE 18. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF MUZZLELOADER DEER (DOE) HUNTING IN VIRGINIA

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									TOTAL HUNTERS	TOTAL HUNTERS
1	ESTIMATE	2,944	0.017	0.12	10.2	156,876	7.12	22,024	28.5	28.5
	(SE)	694	0.004	0.03	2.2	13,912	0.39	1,549	1.8	1.8
	N	2,472	186	186	186	2,472	187	2,472	657	657
2	ESTIMATE	2,472	0.014	0.10	8.7	179,371	6.99	25,675	33.2	33.2
	(SE)	587	0.003	0.02	1.9	15,429	0.40	1,661	1.8	1.8
	N	2,473	218	218	218	2,472	218	2,472	657	657
3	ESTIMATE	1,648	0.036	0.16	15.1	38,850	4.52	8,594	11.1	11.1
	(SE)	498	0.011	0.05	4.2	5,401	0.35	991	1.2	1.2
	N	2,473	73	73	73	2,473	73	2,473	657	657
4	ESTIMATE	2,943	0.029	0.18	15.6	95,121	6.30	15,087	19.5	19.5
	(SE)	674	0.006	0.04	3.2	9,908	0.37	1,299	1.5	1.5
	N	2,473	128	128	128	2,470	128	2,470	657	657
5	ESTIMATE	2,354	0.048	0.39	13.7	48,739	8.12	6,004	7.8	7.8
	(SE)	1,052	0.022	0.17	4.9	11,817	1.63	832	1.0	1.0
	N	2,473	51	51	51	2,473	51	2,473	657	657
PERCENT OF TOTAL LICENSEES										LICENSEES
STATEWIDE	ESTIMATE	14,015	0.021	0.15	11.6	574,604	7.06	81,344	27.9	27.9
STATEWIDE	(SE)	1,720	0.003	0.02	1.2	28,981	0.27	2,631	0.9	0.9
STATEWIDE	N	2,472	688	688	688	2,466	689	2,466	2,466	2,466

TABLE 19. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF GUN DEER HUNTING IN VIRGINIA DURING THE 1993-94 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		
									PERCENT HUNTERS	TOTAL HUNTERS	
1	ESTIMATE	28,266	0.080	0.62	42.6	335,694	7.82	42,905	19.5	19.5	
	(SE)	2,410	0.006	0.05	2.6	19,703	0.26	2,077			
	N	2,472	364	364	2,470		364	2,470			
2	ESTIMATE	31,799	0.077	0.57	37.0	371,926	7.32	50,787	23.1	23.1	
	(SE)	2,858	0.007	0.05	2.3	21,973	0.29	2,226			
	N	2,472	430	430	2,465		430	2,465			
3	ESTIMATE	44,754	0.090	1.11	53.8	455,465	12.30	37,041	16.8	16.8	
	(SE)	3,838	0.006	0.08	2.8	31,491	0.55	1,953			
	N	2,472	314	314	2,468		314	2,468			
4	ESTIMATE	52,174	0.079	0.93	51.7	578,379	11.82	48,917	22.2	22.2	
	(SE)	4,419	0.005	0.06	2.5	33,161	0.42	2,193			
	N	2,472	414	414	2,464		414	2,464			
5	ESTIMATE	63,271	0.100	1.46	57.3	586,530	14.52	40,393	18.3	18.3	
	(SE)	5,977	0.008	0.12	2.7	37,256	0.57	2,027			
	N	2,471	341	341	2,465		342	2,465			
STATEWIDE										PERCENT OF LICENSEES	
										TOTAL	

TABLE 20.

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF GUN DEER (BUCK) HUNTING IN VIRGINIA DURING THE 1993-94 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	
									PERCENT HUNTERS	TOTAL HUNTERS
1	ESTIMATE	14,521	0.041	0.32	26.4	335,694	7.82	42,905	19.5	
	(SE)	1,498	0.004	0.03	2.3	19,703	0.26	2,077	0.9	
	N	2,466	361	361	361	2,470	364	2,470	1,864	
2	ESTIMATE	19,936	0.048	0.35	27.9	371,926	7.32	50,787	23.1	
	(SE)	2,076	0.005	0.04	2.2	21,973	0.29	2,226	1.0	
	N	2,468	429	429	429	2,465	430	2,465	1,864	
3	ESTIMATE	24,183	0.048	0.59	39.2	455,465	12.30	37,041	16.8	
	(SE)	2,348	0.004	0.05	2.8	31,491	0.55	1,953	0.9	
	N	2,468	313	313	313	2,468	314	2,468	1,864	
4	ESTIMATE	28,819	0.044	0.52	38.6	578,379	11.82	48,917	22.2	
	(SE)	2,483	0.003	0.04	2.4	33,161	0.42	2,193	1.0	
	N	2,465	410	410	410	2,464	414	2,464	1,864	
5	ESTIMATE	33,765	0.053	0.78	44.7	586,530	14.52	40,393	18.3	
	(SE)	3,045	0.004	0.06	2.7	37,256	0.57	2,027	0.9	
	N	2,466	339	339	339	2,465	342	2,465	1,864	
PERCENT OF TOTAL LICENSEES										LICENSEES
STATEWIDE										
ESTIMATE	128,764	0.048	0.51	35.7	2,432,538	10.56	230,153	79.1		
(SE)	4,902	0.002	0.02	1.1	51,967	0.20	2,395	0.8		
N	2,460	1,928	1,928	1,928	2,449	1,937	2,449	2,449		

TABLE 21.

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF GUN DEER (DOE) HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEES	TOTAL
1	ESTIMATE	13,802	0.039	0.31	24.5	335,694	7.82	42,905	19.5	
	(SE)	1,518	0.004	0.03	2.3	19,703	0.26	2,077	0.9	
	N	2,468	364	361	364	2,470	364	2,470	1,864	
2	ESTIMATE	11,910	0.029	0.21	17.4	371,926	7.32	50,787	23.1	
	(SE)	1,370	0.003	0.02	1.8	21,973	0.29	2,226	1.0	
	N	2,469	439	429	430	2,465	430	2,465	1,864	
3	ESTIMATE	20,636	0.043	0.53	35.4	455,465	12.30	37,041	16.8	
	(SE)	2,131	0.004	0.05	2.7	31,491	0.55	1,953	0.9	
	N	2,469	314	312	314	2,468	314	2,468	1,864	
4	ESTIMATE	23,447	0.035	0.42	30.7	578,379	11.82	48,917	22.2	
	(SE)	2,441	0.003	0.04	2.3	33,161	0.42	2,193	1.0	
	N	2,471	414	414	414	2,464	414	2,464	1,864	
5	ESTIMATE	29,585	0.047	0.69	38.9	586,530	14.52	40,393	18.3	
	(SE)	3,682	0.006	0.08	2.6	37,256	0.57	2,027	0.9	
	N	2,470	342	341	342	2,465	342	2,465	1,864	
PERCENT OF TOTAL										LICENSEES
STATEWIDE	ESTIMATE	102,644	0.039	0.41	28.7	2,432,538	10.56	230,153	79.1	
	(SE)	5,051	0.002	0.02	1.0	51,967	0.20	2,395	0.8	
	N	2,462	1,929	1,929	1,929	2,449	1,937	2,449	2,449	

TABLE 22. EXPANDED STATEWIDE SUMMARY OF TOTAL DEER HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

TABLE 23. EXPANDED STATEWIDE SUMMARY OF TOTAL DEER (BUCKS) HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENSEES
ESTIMATE	175,766	0.043	0.69	41.7	3,796,476	15,85	239,512	82.3	
STATEWIDE (SE)	6,244	0.001	0.02	1.1	87,964	0.34	2,238	0.8	
N	2,473	2,032	2,032	2,032	2,470	2,032	2,470	2,470	

TARI F 24 EXPANDED STATEWIDE SUMMARY OF TOTAL DEER (DOES) HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS		PERCENT OF TOTAL LICENSEES
							HUNTERS	HUNTERS	
ESTIMATE	134,562	0.033	0.53	33.2	3,796,476	15.85	239,512	239,512	82.3
(SE)	6,267	0.002	0.02	1.0	87,964	0.34	2,238	2,238	0.8
N	2,473	2,032	2,032	2,032	2,470	2,032	2,470	2,470	2,470

TABLE 25.

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF SPRING TURKEY (1993) HUNTING IN VIRGINIA

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									HUNTERS	HUNTING
1	ESTIMATE	2,181	0.037	0.24	22.1	52,453	6.37	8,237	20.4	
	(SE)	540	0.008	0.06	5.1	7,941	0.60	985	2.2	
	N	2,473	68	68	68	2,473	68	2,473	334	
2	ESTIMATE	3,998	0.048	0.28	21.2	61,104	5.93	10,297	25.4	
	(SE)	844	0.010	0.06	4.5	8,114	0.47	1,098	2.4	
	N	2,473	85	85	85	2,471	85	2,473	334	
3	ESTIMATE	2,181	0.050	0.32	24.0	38,401	6.34	6,057	15.0	
	(SE)	616	0.013	0.09	6.1	7,276	0.82	848	2.0	
	N	2,473	50	50	50	2,473	50	2,473	334	
4	ESTIMATE	3,150	0.036	0.30	23.3	73,047	6.26	8,843	21.9	
	(SE)	744	0.010	0.07	5.0	14,860	1.39	1,020	2.3	
	N	2,473	73	73	73	2,473	73	2,473	334	
5	ESTIMATE	2,545	0.051	0.28	22.4	38,764	5.52	7,026	17.4	
	(SE)	651	0.014	0.07	5.6	6,768	0.65	912	2.1	
	N	2,472	57	57	57	2,473	58	2,473	334	
STATEWIDE	ESTIMATE	15,512	0.038	0.26	21.1	301,625	6.99	43,005	14.8	
	(SE)	1,596	0.005	0.03	2.1	25,627	0.49	2,079	0.7	
	N	2,472	365	365	365	2,471	366	2,471	2,471	
										LICENSEES
										PERCENT OF TOTAL LICENSEES

TABLE 26.

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF FALL TURKEY (1993) HUNTING IN VIRGINIA

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEES	TOTAL
1	ESTIMATE	4,238	0.023	0.20	16.9	155,400	8.57	18,130	21.8	21.8
	(SE)	811	0.004	0.04	3.0	16,295	0.60	1,415	1.6	1.6
	N	2,473	154	154	2,473	154	2,473	706	706	
2	ESTIMATE	7,184	0.027	0.24	20.5	230,367	9.10	25,311	30.5	30.5
	(SE)	1,151	0.004	0.03	2.8	23,362	0.71	1,650	1.7	1.7
	N	2,472	215	215	2,472	215	2,473	706	706	
3	ESTIMATE	3,061	0.024	0.21	17.9	117,374	8.90	13,185	15.9	15.9
	(SE)	704	0.006	0.05	3.6	17,585	1.05	1,218	1.4	1.4
	N	2,473	112	112	2,473	112	2,473	706	706	
4	ESTIMATE	5,771	0.030	0.25	23.1	151,986	8.28	18,365	22.1	22.1
	(SE)	897	0.006	0.04	3.4	19,117	0.82	1,424	1.6	1.6
	N	2,472	155	155	2,473	155	2,473	706	706	
5	ESTIMATE	2,943	0.065	0.35	26.1	43,559	5.36	8,123	9.8	9.8
	(SE)	770	0.017	0.08	5.3	7,036	0.59	964	1.1	1.1
	N	2,473	69	69	2,473	69	2,473	706	706	
PERCENT OF TOTAL LICENSEES										
STATEWIDE										36.3
ESTIMATE										105,762
(SE)										2,817
N										1.0
ESTIMATE										2,472
(SE)										2,472
N										

TABLE 27. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF SPRING TURKEY (1994) HUNTING IN VIRGINIA

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEES	TOTAL
1	ESTIMATE	1,648	0.034	0.17	13.4	48,975	5.07	9,654	17.7	
	(SE)	526	0.009	0.05	3.8	7,242	0.51	1,048	1.8	
	N	2,473	82	82	2,473		82	2,473	464	
2	ESTIMATE	3,296	0.031	0.19	17.1	91,312	6.01	15,187	27.8	
	(SE)	683	0.006	0.04	3.3	11,493	0.56	1,302	2.1	
	N	2,473	129	129	2,471		129	2,473	464	
3	ESTIMATE	2,590	0.043	0.25	22.2	49,328	5.82	8,476	15.5	
	(SE)	598	0.009	0.06	4.9	8,478	0.74	984	1.7	
	N	2,473	72	72	2,473		72	2,473	464	
4	ESTIMATE	4,944	0.055	0.36	28.2	85,740	6.62	12,950	23.7	
	(SE)	922	0.009	0.06	4.3	11,386	0.63	1,207	2.0	
	N	2,473	110	110	2,472		110	2,473	464	
5	ESTIMATE	2,944	0.055	0.31	28.2	48,150	5.76	8,359	15.3	
	(SE)	631	0.013	0.06	5.4	7,687	0.63	978	1.7	
	N	2,472	70	70	2,473		71	2,473	464	
PERCENT OF LICENSEES										
STATEWIDE	ESTIMATE	16,842	0.039	0.24	20.3	361,979	6.11	59,171	20.3	
	(SE)	1,601	0.004	0.02	1.8	25,485	0.35	2,358	0.8	
	N	2,472	502	502	2,470		503	2,470	2,470	

TABLE 28.

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF BEAR HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEES	TOTAL
1	ESTIMATE	353	0.06	0.04	4.2	59,123	7.07	8,362	48.3	
	(SE)	204	0.04	0.02	2.4	10,014	0.87	978	4.1	
	N	2,473	71	71	2,472	71	2,472	147		
2	ESTIMATE	236	0.008	0.05	5.3	30,975	6.92	4,475	25.9	
	(SE)	167	0.005	0.04	3.7	6,936	1.09	721	3.6	
	N	2,473	38	38	2,472	38	2,472	147		
3	ESTIMATE	0	0	0	0	10,831	4.84	2,238	12.9	
	(SE)	0	0	0	0	3,736	1.28	511	2.8	
	N	2,473	19	19	2,473	19	2,472	147		
4	ESTIMATE	0	0	0	0	12,008	6.38	1,884	10.9	
	(SE)	0	0	0	0	4,789	2.05	470	2.6	
	N	2,473	16	16	2,473	16	2,472	147		
5	ESTIMATE	0	0	0	0	1,884	5.33	353	2.0	
	(SE)	0	0	0	0	1,117	0.88	204	1.2	
	N	2,473	3	3	2,473	3	2,472	147		
PERCENT OF TOTAL LICENSEES										
STATEWIDE										
ESTIMATE	824	0.005	0.04	4.1	151,227	7.59	19,920	6.8		
(SE)	311	0.002	0.02	1.5	20,749	0.88	1,479	0.5		
N	2,473	169	169	169	2,470	169	2,470	2,470		

TABLE 29.

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF TOTAL DUCK HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

Region	Statistic	Average Seasonal Harvest		Percent Successful Hunters		Average Seasonal Days Hunting		Total Hunters		Percent Hunters Per Region	
		Total Harvest	Average Daily Kill	Total Man-Days	Successful Hunters	Total Days	Hunting	Total	Hunters	Total	Licenses
1	ESTIMATE	6,122	1,182	8.67	100	5,180	7.33	706	46	4.6	
	(SE)	4,244	0.364	5.32	0	2,789	2.82	288	1.8	1.8	
	N	2,473	6	6	6	2,473	6	2,473	131	131	
2	ESTIMATE	6,593	2,000	6.50	100	3,061	3.25	942	6.1	6.1	
	(SE)	3,040	0.507	2.37	0	1,188	0.56	333	2.1	2.1	
	N	2,473	8	8	8	2,473	8	2,473	131	131	
3	ESTIMATE	32,846	1,070	8.30	84.8	30,138	7.76	3,885	25.2	25.2	
	(SE)	7,281	0.211	1.21	6.3	7,139	1.27	672	3.8	3.8	
	N	2,473	33	33	33	2,473	33	2,473	131	131	
4	ESTIMATE	18,718	1,660	10.40	80.0	11,066	6.27	1,766	11.5	11.5	
	(SE)	6,873	0.192	2.92	10.7	3,784	1.46	455	2.8	2.8	
	N	2,473	15	15	15	2,473	15	2,473	131	131	
5	ESTIMATE	140,566	2,007	16.32	85.5	66,072	8.13	8,126	52.7	52.7	
	(SE)	47,175	0.607	5.49	4.3	11,077	0.97	965	4.4	4.4	
	N	2,473	69	69	69	2,472	69	2,472	131	131	
STATEWIDE	ESTIMATE	207,906	1,519	11.94	83.6	129,605	7.86	16,482	5.7	5.7	
	(SE)	48,445	0.345	2.77	3.1	17,531	0.85	1,354	0.5	0.5	
	N	2,473	140	140	140	2,471	140	2,471	2,471	2,471	

TABLE 30.

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF MALLARD DUCK HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST		AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
		AVERAGE DAILY KILL	TOTAL HARVEST						
1	ESTIMATE	3,649	0.705	5.17	66.7	5,180	7.33	706	4.6
	(SE)	2,971	0.324	3.99	21.1	2,789	2.82	288	1.8
	N	2,473	6	6	2,473	6	2,473	131	
2	ESTIMATE	2,590	0.731	2.38	87.5	3,061	3.25	942	6.1
	(SE)	1,176	0.220	0.91	12.5	1,188	0.56	333	2.1
	N	2,473	8	8	2,473	8	2,473	131	
3	ESTIMATE	12,479	0.402	3.12	66.7	30,138	7.76	3,885	25.2
	(SE)	3,321	0.101	0.67	8.3	7,139	1.27	672	3.8
	N	2,473	33	33	2,473	33	2,473	131	
4	ESTIMATE	6,946	0.628	3.93	40.0	11,066	6.27	1,766	11.5
	(SE)	3,734	0.226	1.92	13.1	3,784	1.46	455	2.8
	N	2,473	15	15	2,473	15	2,473	131	
5	ESTIMATE	46,031	0.658	5.35	62.3	66,072	8.13	8,126	52.7
	(SE)	16,576	0.220	1.94	5.9	11,077	0.97	965	4.4
	N	2,473	69	69	2,472	69	2,472	131	
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	72,049	0.531	4.17	60.0	129,605	7.86	16,482	5.7
STATEWIDE	(SE)	17,575	0.127	1.01	4.2	17,531	0.85	1,354	0.5
STATEWIDE	N	2,473	140	140	2,471	140	2,471	2,471	

TAB E 31

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF WOOD DUCK HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

Region	Statistic	Total Harvest	Average Daily Kill	Average Seasonal Harvest	Percent Successful Hunters	Total Man-Days	Average Seasonal Days Hunting	Total Hunters	Percent Hunters Per Region	
									Licenses	Total
1	ESTIMATE	2,354	0.455	3.33	83.3	5,180	7.33	706	4.6	
	(SE)	1,402	0.125	1.58	16.7	2,789	2.82	288	1.8	
	N	2,473	6	6	6	2,473	6	2,473	131	
2	ESTIMATE	2,354	0.769	2.50	75.0	3,061	3.25	942	6.1	
	(SE)	1,393	0.331	1.27	16.4	1,188	0.56	333	2.1	
	N	2,473	8	8	8	2,473	8	2,473	131	
3	ESTIMATE	12,715	0.414	3.21	66.7	30,138	7.76	3,885	25.2	
	(SE)	3,100	0.093	0.58	8.3	7,139	1.27	672	3.8	
	N	2,473	33	33	33	2,473	33	2,473	131	
4	ESTIMATE	9,300	0.809	5.07	73.3	11,066	6.27	1,766	11.5	
	(SE)	2,952	0.133	1.06	11.8	3,784	1.46	455	2.8	
	N	2,473	15	15	15	2,473	15	2,473	131	
5	ESTIMATE	29,079	0.408	3.32	50.7	66,072	8.13	8,126	52.7	
	(SE)	6,744	0.083	0.71	6.1	11,077	0.97	965	4.4	
	N	2,473	69	69	69	2,472	69	2,472	131	
									Percent of Total Licensees	

TABLE 32.

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF BLACK DUCK HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									TOTAL	HUNTERS
1	ESTIMATE	118	0.023	0.17	16.7	5,180	7.33	706	4.6	
	(SE)	118	0.025	0.17	16.7	2,789	2.82	288	1.8	
	N	2,473	6	6	6	2,473	6	2,473	131	
2	ESTIMATE	353	0.077	0.25	12.5	3,061	3.25	942	6.1	
	(SE)	263	0.072	0.25	12.5	1,188	0.56	333	2.1	
	N	2,473	8	8	8	2,473	8	2,473	131	
3	ESTIMATE	3,532	0.117	0.91	27.3	30,138	7.76	3,885	25.2	
	(SE)	1,506	0.048	0.36	7.9	7,139	1.27	672	3.8	
	N	2,473	33	33	33	2,473	33	2,473	131	
4	ESTIMATE	824	0.074	0.47	20.0	11,066	6.27	1,766	11.5	
	(SE)	539	0.038	0.29	10.7	3,784	1.46	455	2.8	
	N	2,473	15	15	15	2,473	15	2,473	131	
5	ESTIMATE	26,489	0.394	3.20	36.2	86,072	8.13	8,126	52.7	
	(SE)	14,125	0.197	1.71	5.8	11,077	0.97	965	4.4	
	N	2,473	69	69	69	2,472	69	2,472	131	
STATEWIDE	ESTIMATE	31,315	0.237	1.86	27.9	129,605	7.86	16,482	5.7	
	(SE)	14,215	0.106	0.85	3.8	17,531	0.85	1,354	0.5	
	N	2,473	140	140	140	2,471	140	2,471	2,471	
	LICENSEES									
	ESTIMATE									
	(SE)									
	N									

TABLE 33.

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF ALL OTHER DUCKS HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEES	TOTAL
1	ESTIMATE (SE)	0 0	0 0	0 0	0 0	0 0	5,180 2,789	7.33 2.82	706 288	4.6 1.8
	N	2,473	6	6	6	6	2,473	6	2,473	131
2	ESTIMATE (SE)	1,295 824	0.423 0.209	1.38 0.78	37.5 18.3	3,061 1,188	3.25 0.56	942 333	6.1 2.1	
	N	2,473	8	8	8	8	2,473	8	2,473	131
3	ESTIMATE (SE)	4,120 1,492	0.137 0.049	1.06 0.34	24.2 7.6	30,138 7,139	7.76 1.27	3,885 672	25.2 3.8	
	N	2,473	33	33	33	33	2,473	33	2,473	131
4	ESTIMATE (SE)	1,648 896	0.149 0.055	0.93 0.46	26.7 11.8	11,066 3,784	6.27 1.46	1,766 455	11.5 2.8	
	N	2,473	15	15	15	15	2,473	15	2,473	131
5	ESTIMATE (SE)	38,968 14,891	0.547 0.197	4.45 1.77	40.6 6.0	66,072 11,077	8.13 0.97	8,126 965	52.7 4.4	
	N	2,473	69	69	69	69	2,472	69	2,472	131
STATEWIDE									PERCENT OF TOTAL	
									LICENSEES	

TABLE 34.

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF GEESE: SEPT. HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

TABLE 35.
EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF GEESE: NOV.-JAN. HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

Region	Statistic	Average Seasonal Harvest			Percent Successful Hunters			Average Seasonal Days Hunting			Total Hunters			Percent Hunters Per Region	
		Total Harvest	Average Daily Kill	Average Seasonal Harvest	Percent Successful Hunters	Total Man-Days	Average Seasonal Days Hunting	Hunters	Hunters	Hunters	Hunters	Hunters	Hunters	Licenses	Total
1	ESTIMATE	1,766	0.577	2.14	42.9	3,061	3.71	824	9.7						
	(SE)	1,059	0.287	1.08	20.2	1,441	1.13	311	3.5						
	N	2,473	7	7	2,473	7	2,473	7	72						
2	ESTIMATE	942	1,000	2.67	66.7	942	2.67	353	4.2						
	(SE)	744	0.459	1.76	33.3	552	0.33	204	2.4						
	N	2,473	3	3	2,473	3	2,473	3	72						
3	ESTIMATE	8,594	0.605	2.40	70.0	14,010	3.97	3,532	41.7						
	(SE)	2,148	0.101	0.43	8.5	3,202	0.56	641	5.9						
	N	2,473	30	30	2,473	30	2,473	30	72						
4	ESTIMATE	2,237	0.760	3.17	66.7	2,943	4.17	706	8.3						
	(SE)	1,251	0.238	1.33	21.1	1,455	1.28	288	3.3						
	N	2,473	6	6	2,473	6	2,473	6	72						
5	ESTIMATE	12,126	0.699	3.85	69.2	16,842	5.50	3,061	36.1						
	(SE)	4,197	0.233	1.16	9.2	4,603	1.07	597	5.7						
	N	2,473	26	26	2,472	26	2,472	26	72						
												Percent of Total Licensees			
												Percent of Total Licensees			
												Percent of Total Licensees			

TABLE 36.

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF RED FOX HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST		AVERAGE SEASONAL HARVEST		PERCENT SUCCESSFUL HUNTERS		AVERAGE SEASONAL DAYS HUNTING		TOTAL HUNTERS		PERCENT HUNTERS PER REGION	
		ESTIMATE	(SE)	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	TOTAL HUNTERS	SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS	TOTAL	LICENSEES
1	ESTIMATE	3,532	0.239	1.08	44.0	13,303	4,52	2,943	32.5				
	(SE)	1,440	0.089	0.44	10.1	3,322	0.70	586	5.4				
	N	2,473	25	25	25	2,473	25	2,473	77				
2	ESTIMATE	942	0.103	0.53	46.7	9,183	5.20	1,766	19.5				
	(SE)	372	0.044	0.17	13.3	3,279	1.33	455	4.5				
	N	2,473	15	15	15	2,473	15	2,473	77				
3	ESTIMATE	1,648	0.064	0.77	46.2	18,483	12.08	1,530	16.9				
	(SE)	599	0.037	0.28	14.4	7,914	4.11	423	4.3				
	N	2,473	13	13	13	2,473	13	2,473	77				
4	ESTIMATE	2,590	0.206	1.00	69.2	7,420	4.85	1,530	16.9				
	(SE)	831	0.060	0.36	13.3	3,924	2.27	423	4.3				
	N	2,473	13	13	13	2,472	13	2,473	77				
5	ESTIMATE	1,295	0.407	1.00	81.8	3,179	2.45	1,295	14.3				
	(SE)	455	0.180	0.19	12.2	1,377	0.80	390	4.0				
	N	2,473	11	11	11	2,473	11	2,473	77				
STATEWIDE	PERCENT OF TOTAL												
	LICENSEES												
	ESTIMATE	11,890	0.157	0.87	53.7	53,116	5.50	9,658	3.3				
	(SE)	1,916	0.036	0.16	5.5	10,077	0.86	1,049	0.4				
	N	2,473	82	82	82	2,472	82	2,472	2,472				

TABLE 37.

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF GRAY FOX HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION		
										LICENSEEES	TOTAL
1	ESTIMATE	2,826	0.313	1.54	46.2	7,534	4.92	1,530	23.6		
	(SE)	1,164	0.115	0.61	14.4	2,368	0.16	423	5.8		
	N	2,473	13	13	13	2,473	13	2,473	55		
2	ESTIMATE	706	0.071	0.42	25.0	8,241	5.83	1,413	21.8		
	(SE)	408	0.045	0.26	13.1	3,216	1.60	407	5.6		
	N	2,473	12	12	12	2,473	12	2,473	55		
3	ESTIMATE	1,295	0.103	0.78	44.4	8,005	7.56	1,060	16.4		
	(SE)	588	0.080	0.36	17.6	5,213	4.48	353	5.0		
	N	2,473	9	9	9	2,473	9	2,473	55		
4	ESTIMATE	3,532	0.318	2.10	50.0	7,776	6.60	1,177	18.2		
	(SE)	1,655	0.155	1.21	16.7	4,052	2.88	372	5.2		
	N	2,473	10	10	10	2,471	10	2,473	55		
5	ESTIMATE	3,414	0.400	2.00	81.8	6,475	5.00	1,295	20.0		
	(SE)	1,538	0.119	1.02	12.2	2,893	1.73	390	5.4		
	N	2,473	11	11	11	2,473	11	2,473	55		
PERCENT OF LICENSEEES											
STATEWIDE											
ESTIMATE	13,421	0.219	1.19	42.9	40,413	5.44	7,423	2.5			
(SE)	2,697	0.054	0.30	6.3	8,269	0.89	923	0.3			
N	2,473	63	63	63	2,471	63	2,471	2,471			

TABLE 38.

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF COYOTE HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEEES	TOTAL
1	ESTIMATE	236	0.026	0.33	33.3	9,065	12.83	706	40.0	
	(SE)	167	0.030	0.21	21.1	7,179	9.54	288	13.1	
	N	2,473	6	6	6	2,473	6	2,473	15	
2	ESTIMATE	589	0.125	0.56	33.3	4,709	4.44	1,060	60.0	
	(SE)	390	0.087	0.34	16.7	1,940	1.14	353	13.1	
	N	2,473	9	9	9	2,473	9	2,473	15	
3	ESTIMATE	0	0	0	0	0	0	0	0	
	(SE)	0	0	0	0	0	0	0	0	
	N	2,473	0	0	0	2,473	0	2,473	15	
4	ESTIMATE	0	0	0	0	0	0	0	0	
	(SE)	0	0	0	0	0	0	0	0	
	N	2,473	0	0	0	2,473	0	2,473	15	
5	ESTIMATE	0	0	0	0	0	0	0	0	
	(SE)	0	0	0	0	0	0	0	0	
	N	2,473	0	0	0	2,473	0	2,473	15	
STATEWIDE	ESTIMATE	1,295	0.060	0.47	33.3	13,780	7.80	1,767	0.6	
	(SE)	634	0.044	0.22	12.6	7,437	3.83	455	0.2	
	N	2,473	15	15	15	2,472	15	2,472	2,472	

TABLE 39.

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF RACCOON HUNTING IN VIRGINIA DURING THE 1993-94 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	
									AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS
1	ESTIMATE	14,245	0.253	6.00	77.8	50,270	23.72	2,119	16.5	
	(SE)	4,750	0.056	1.68	10.1	17,964	6.57	498	3.6	
	N	2,473	18	18		2,473	18	2,473	109	
2	ESTIMATE	42,634	0.291	7.91	75.0	140,741	27.16	5,180	40.4	
	(SE)	10,415	0.061	1.67	6.7	28,686	3.81	774	4.7	
	N	2,472	43	43		2,472	44	2,473	109	
3	ESTIMATE	15,775	0.370	6.46	92.3	26,724	17.46	1,530	11.9	
	(SE)	7,386	0.171	2.40	7.7	14,139	8.19	423	3.1	
	N	2,473	13	13		2,473	13	2,473	109	
4	ESTIMATE	36,731	0.556	14.86	95.2	56,045	26.71	2,472	19.3	
	(SE)	13,793	0.115	4.66	4.8	28,330	10.12	537	3.8	
	N	2,473	21	21		2,473	21	2,473	109	
5	ESTIMATE	18,248	0.498	9.62	92.3	29,549	19.31	1,530	11.9	
	(SE)	7,783	0.124	3.82	7.7	14,812	8.40	423	3.1	
	N	2,473	13	13		2,473	13	2,473	109	
									PERCENT OF TOTAL LICENSEES	
STATEWIDE	ESTIMATE	177,087	0.380	9.32	85.5	361,361	24.54	14,610	5.0	
	(SE)	27,697	0.039	1.19	3.2	51,442	2.77	1,279	0.4	
	N	2,471	124	124		2,471	125	2,471	2,471	

TABLE 40.

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF BOBCAT HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEES	TOTAL
1	ESTIMATE	471	0.074	0.33	33.3	6,357	4.50	1,413	32.4	
	(SE)	235	0.034	0.14	14.2	2,049	0.68	407	7.8	
	N	2,473	12	12	12	2,473	12	2,473	2,473	37
2	ESTIMATE	1,413	0.174	1.00	33.3	8,123	5.75	1,413	32.4	
	(SE)	1,079	0.136	0.74	14.2	2,863	1.22	407	7.8	
	N	2,473	12	12	12	2,473	12	2,473	2,473	37
3	ESTIMATE	0	0	0	0	471	2.00	235	5.4	
	(SE)	0	0	0	0	372	1.00	166	3.8	
	N	2,473	2	2	2	2,473	2	2,473	2,473	37
4	ESTIMATE	353	0	0	0	4,003	3.78	1,060	24.3	
	(SE)	263	0	0	0	1,745	1.13	353	7.2	
	N	2,473	9	9	9	2,473	9	2,473	2,473	37
5	ESTIMATE	0	0	0	0	471	2.00	235	5.4	
	(SE)	0	0	0	0	372	1.00	166	3.8	
	N	2,473	2	2	2	2,473	2	2,473	2,473	37
STATEWIDE	ESTIMATE	2,944	0.090	0.40	21.4	22,133	4.48	4,945	1.7	
	(SE)	1,182	0.050	0.22	6.4	4,255	0.53	757	0.3	
	N	2,472	42	42	42	2,473	42	2,473	2,473	37

TABLE 41.

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF TOTAL DOVE HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEES	TOTAL
1	ESTIMATE	160,933	3.818	23.67	98	40,145	6.20	6,475	2.2	
	(SE)	27,402	0.685	2.77	2	6,926	0.68	863	0.3	
	N	2,473	55	55	55	2,473	55	2,473	2,473	
2	ESTIMATE	86,294	2.631	16.20	91	31,904	6.16	5,180	1.8	
	(SE)	20,020	0.635	3.03	4	8,129	1.29	774	0.3	
	N	2,473	44	44	44	2,473	44	2,473	2,473	
3	ESTIMATE	205,198	4.933	19.67	83.7	40,380	3.99	10,125	3.5	
	(SE)	32,789	0.820	2.48	4.0	6,203	0.45	1,073	0.4	
	N	2,473	86	86	86	2,473	86	2,473	2,473	
4	ESTIMATE	243,931	4.418	19.90	90.1	53,566	4.50	11,890	4.1	
	(SE)	35,150	0.662	2.22	3.0	7,872	0.50	1,159	0.4	
	N	2,473	101	101	101	2,473	101	2,473	2,473	
5	ESTIMATE	440,417	4.926	24.70	94.0	87,942	5.01	17,541	6.0	
	(SE)	55,173	0.636	2.46	2.0	10,435	0.44	1,393	0.5	
	N	2,473	149	149	149	2,473	149	2,473	2,473	
STATEWIDE	ESTIMATE	1,172,444	4.137	20.87	89.4	275,599	5.05	54,625	18.8	
	(SE)	78,797	0.235	1.15	1.4	18,443	0.26	2,286	0.8	
	N	2,473	464	464	464	2,473	464	2,473	2,473	

TABLE 42. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF DOVE: OPENING DAY HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
								LICENSEES	TOTAL
1	ESTIMATE	33,552	6,229	6.23	94.3	4,132	1,00	4,132	12.5
	(SE)	6,032	0.561	0.56	4.0	693	0	694	2.0
	N	2,473	35	35	35	2,466	35	2,466	281
2	ESTIMATE	19,425	6,091	6.09	95.5	2,597	1,00	2,597	7.8
	(SE)	4,140	0.741	0.74	4.5	551	0	551	1.6
	N	2,473	22	22	22	2,466	22	2,466	281
3	ESTIMATE	56,391	6,917	6.92	86.7	7,087	1,00	7,084	21.4
	(SE)	7,798	0.535	0.53	4.4	904	0	903	2.4
	N	2,473	60	60	60	2,465	60	2,466	281
4	ESTIMATE	68,282	7,232	7.23	88.4	8,156	1,00	8,146	24.6
	(SE)	10,230	0.840	0.84	3.9	968	0	967	2.6
	N	2,473	69	69	69	2,463	69	2,466	281
5	ESTIMATE	104,071	8,411	8.41	94.7	11,234	1,00	11,216	33.8
	(SE)	11,583	0.527	0.53	2.3	1,130	0	1,129	2.8
	N	2,473	95	95	95	2,462	95	2,466	281
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	289,020	7,361	7.36	91.7	34,463	1	33,905	11.6
	(SE)	18,287	0.485	0.30	1.6	1,907	0	1,894	0.7
	N	2,473	288	288	288	2,433	288	2,433	2,433

TABLE 43.

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF DOVE: 1ST SEG. HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEES	TOTAL
1	ESTIMATE (SE)	99,244 17,388	3.794 0.447	16.92 1.85	97.9 2.1	25,194 4,739	4.46 0.55	5,651 808	14.2 1.9	
	N	2,473	48	48		2,473	48	2,473		339
2	ESTIMATE (SE)	45,207 11,880	0.273 0.047	12.13 2.54	90.0 5.6	15,775 4,029	44.47 0.82	3,532 641	8.8 1.5	
	N	2,473	30	30		2,473	30	2,473		339
3	ESTIMATE (SE)	113,607 19,469	4.421 0.614	15.02 1.85	71.4 5.7	25,194 4,405	3.40 0.42	7,417 923	18.6 2.1	
	N	2,473	63	63		2,473	63	2,473		339
4	ESTIMATE (SE)	137,976 21,396	4.234 0.450	15.39 1.70	86.5 4.0	31,669 4,617	3.64 0.33	8,712 998	21.8 2.2	
	N	2,473	74	74		2,473	74	2,473		339
5	ESTIMATE (SE)	248,976 32,610	4.159 0.493	17.11 1.68	87.9 3.0	60,041 8,191	4.11 0.43	14,598 1,278	36.6 2.6	
	N	2,472	123	123		2,473	124	2,473		339
STATEWIDE	ESTIMATE (SE)	666,236 47,701	3.948 0.238	15.72 0.85	85.8 1.9	165,053 12,122	3.98 0.22	41,322 2,044	14.2 0.7	
	N	2,469	351	351		2,473	352	2,473		2,473

TABLE 44.

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF DOVE: 2ND SEG. HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									TOTAL	AVERAGE
1	ESTIMATE	26,018	3.113	11.63	78.9	8,359	3.74	2,237	17.3	
	(SE)	9,220	0.636	3.24	9.6	2,268	0.56	511	3.6	
	N	2,473	19	19	2,473	19	2,473	123	110	
2	ESTIMATE	14,951	1.416	9.69	69.2	10,478	6.85	1,530	11.8	
	(SE)	5,483	0.390	2.47	13.3	4,014	1.89	423	3.1	
	N	2,473	13	13	2,473	13	2,473	110	110	
3	ESTIMATE	29,079	4.574	15.44	68.8	6,357	3.38	1,884	14.5	
	(SE)	10,473	0.997	4.14	12.0	1,857	0.53	469	3.4	
	N	2,473	16	16	2,473	16	2,473	110	110	
4	ESTIMATE	30,844	2.875	9.37	70.4	10,360	3.26	3,179	24.5	
	(SE)	10,854	0.801	2.95	9.0	2,976	0.71	609	4.1	
	N	2,473	27	27	2,473	27	2,473	110	110	
5	ESTIMATE	60,325	5.118	15.06	74.3	12,126	2.94	4,120	31.8	
	(SE)	17,958	0.899	3.86	7.7	2,682	0.43	692	4.5	
	N	2,471	33	33	2,473	35	2,473	110	110	
PERCENT OF TOTAL LICENSEES										
STATEWIDE	ESTIMATE	166,668	2.774	11.23	67.8	58,628	4.05	14,245	4.9	
	(SE)	25,917	0.374	1.50	4.3	7,300	0.36	1,263	0.4	
	N	2,470	121	121	2,473	123	2,473	2,473	2,473	

TABLE 45.

EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF DOVE: 3RD SEG. HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION	
									LICENSEEES	TOTAL
1	ESTIMATE (SE)	2,119 1,352	0.857 0.459	3.00 1.61	50.0 22.4	1,017 1,110	3.50 0.72	706 288	11.8 4.6	
	N	2,473	6	6	6	2,473	6	2,473		51
2	ESTIMATE (SE)	6,710 3,926	2.192 1.130	7.13 3.55	62.5 18.3	3,061 1,431	3.25 1.06	942 333	15.7 5.1	
	N	2,473	8	8	8	2,473	8	2,473		51
3	ESTIMATE (SE)	6,122 2,784	3.467 1.085	6.50 1.99	62.5 18.3	1,766 696	1.88 0.35	942 333	15.7 5.1	
	N	2,473	8	8	8	2,473	8	2,473		51
4	ESTIMATE (SE)	6,828 2,386	1.759 0.794	4.25 1.05	75.0 13.1	3,414 1,464	2.42 0.80	1,413 407	23.5 6.0	
	N	2,473	12	12	12	2,473	12	2,473		51
5	ESTIMATE (SE)	27,195 8,202	4.154 0.825	9.53 1.54	88.2 8.1	4,593 1,282	2.29 0.33	2,001 484	33.3 6.7	
	N	2,473	17	17	17	2,472	17	2,473		51
									PERCENT OF TOTAL LICENSEEES	
STATEWIDE	ESTIMATE (SE)	51,800 10,142	2,359 0.385	6.56 0.90	70.9 6.2	18,019 3,111	2.78 0.31	6,478 864	2.2 0.3	
	N	2,473	55	55	55	2,472	55	2,472		2,472

TABLE 46. EXPANDED STATEWIDE SUMMARY OF TOTAL SQUIRREL HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

TABLE 46. EXPANDED STATEWIDE SUMMARY OF TOTAL SQUIRREL HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON								
	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENSEES
ESTIMATE	1,316,485	1,189	10.43	87.0	1,039,059	8.77	118,433	40.7
(SE)	54,086	0.055	0.37	1.1	54,810	0.41	2,877	1.0
N	2,472	1,006	1,006	1,006	2,473	1,006	2,473	2,473

TABLE 47. EXPANDED STATEWIDE SUMMARY OF TOTAL GEESE HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

TABLE 47. EXPANDED STATEWIDE SUMMARY OF TOTAL GEESE HUNTING IN VIRGINIA DURING THE 1993-94 HUNTING SEASON

	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENSEES
ESTIMATE		30,256	0.540	2.56	56.5	47,562	4.75	10,007	3.4
STATEWIDE (SE)		6,400	0.097	0.47	5.4	6,738	0.45	1,067	0.4
N		2,473	85	85	85	2,473	85	2,473	2,473

TABLE 48. STATEWIDE AND REGIONAL SUMMARIES OF PREFERENCES FOR RUFFED GROUSE

SEASON. *	STATEWIDE	REGIONS				
		1	2	3	4	5
OCT. 17 - JAN. 28	3.16	3.16	3.04	3.08	3.4	5.00
OCT. 31 - FEB. 11	3.46	3.49	3.44	3.39	3.54	-
NOV. 14 - FEB. 25	3.53	3.61	3.5	3.85	3.47	-

* MEAN SCORES, WHERE 1=STRONGLY OPPOSE, 5=STRONGLY FAVOR.

TABLE 49. STATEWIDE AND REGIONAL SUMMARIES OF PREFERENCES FOR WOODCOCK

SEASON. *	STATEWIDE	REGIONS				
		1	2	3	4	5
OCT. 31 - NOV. 19 &	3.09	3.33	3.00	3.11	2.00	3.25
DEC. 14 - JAN. 7						
OCT. 31 - NOV. 26 &	3.26	3.33	3.00	3.22	3.00	3.71
DEC. 21 - JAN. 7						
OCT. 31 - DEC. 3 &	3.23	3.50	2.67	3.67	2.75	3.00
DEC. 28 - JAN. 7						

* MEAN SCORES, WHERE 1=STRONGLY OPPOSE, 5=STRONGLY FAVOR.

TABLE 50. STATEWIDE AND REGIONAL SUMMARIES OF PREFERENCES FOR DEER-MUZZLELOADER

SEASON. *	STATEWIDE	REGIONS				
		1	2	3	4	5
NOV. 7 - NOV. 19	4.38	4.26	4.24	4.72	4.52	4.66
NOV. 14 - NOV. 19	3.24	3.23	3.29	3.22	3.28	2.76
NO SEASON (BEFORE GUN SEASON)	1.73	1.87	1.86	1.32	1.57	1.10

* MEAN SCORES, WHERE 1=STRONGLY OPPOSE, 5=STRONGLY FAVOR.

TABLE 51. STATEWIDE AND REGIONAL SUMMARIES OF PREFERENCES FOR DUCK SEASON. *

DATE	STATEWIDE	REGIONS				
		1	2	3	4	5
OCTOBER 5-8	3.29	3.50	3.67	3.52	3.23	3.15
OCTOBER 12-15	3.96	4.20	3.63	3.90	4.21	4.00

* MEAN SCORES, WHERE 1=STRONGLY OPPOSE, 5=STRONGLY FAVOR.

TABLE 52. STATEWIDE AND REGIONAL SUMMARIES OF PREFERENCES FOR OPENING DOVE SEASON. (PCT)

	STATEWIDE	1	2	3	4	5	REGIONS
SEPTEMBER 1 (THURSDAY)	15.2	14.5	11.4	18.6	11.0	18.2	
SEPTEMBER 3 (SATURDAY)	52.8	58.2	50.0	55.8	51.0	53.4	
SEPTEMBER 17 (SATURDAY)	17.3	10.9	15.9	16.3	21.0	17.6	
DOES NOT MATTER	13.2	14.5	20.5	8.1	16.0	10.1	
NOT SURE	1.5	1.8	2.3	1.2	1.0	0.7	

TABLE 53. MEAN RANKINGS OF MOST PREFERRED MONTHS TO DOVE HUNT. *

	STATEWIDE	1	2	3	4	5	REGIONS
SEPTEMBER	1.28	1.19	1.27	1.28	1.28	1.33	
OCTOBER	2.13	2.14	2.07	2.17	2.11	2.20	
NOVEMBER	3.32	3.48	3.19	3.39	3.38	3.30	
DECEMBER	3.80	3.89	3.76	3.59	3.94	3.76	
JANUARY	4.34	4.34	4.51	4.42	4.26	4.26	

* 1=MOST PREFERRED, 5=LEAST PREFERRED

TABLE 54. RESPONDENTS' PREFERENCES FOR SHOOTING HOURS ON OPENING DAY OF DOVE SEASON. (PCT)

HOURS	STATEWIDE	1	2	3	4	5	REGIONS
NOON - SUNSET	43.1	38.9	43.2	38.8	43.0	49.7	
ALL DAY	54.7	59.3	54.5	61.2	55.0	49.7	
NO OPINION	2.2	1.9	2.3	-	2.0	-	

TABLE 55. RESPONDENTS' PREFERENCES FOR SHOOTING HOURS DURING THE

1ST SEGMENT OF DOVE SEASON. (SEPT. 6 - SEPT. 30) (PCT)						
HOURS	STATEWIDE	1	2	3	4	5
NOON - SUNSET	43.0	37.7	35.7	38.3	46.9	49.0
ALL DAY	52.1	56.6	59.5	58.0	48.0	48.3
NO OPINION	4.9	5.7	4.8	3.7	5.1	2.8

TABLE 56. RESPONDENTS' PREFERENCES FOR SHOOTING HOURS DURING THE

2ND SEGMENT OF DOVE SEASON. (OCT. 1 - OCT. 30) (PCT)						
HOURS	STATEWIDE	1	2	3	4	5
NOON - SUNSET	30.2	21.8	23.3	25.0	34.0	36.1
ALL DAY	58.2	63.6	69.8	58.3	57.0	55.1
NO OPINION	11.6	14.5	7.0	16.7	9.0	8.8

TABLE 57. RESPONDENTS' PREFERENCES FOR SHOOTING HOURS DURING THE

3RD SEGMENT OF DOVE SEASON. (DEC. 27 - JAN. 8) (PCT)						
HOURS	STATEWIDE	1	2	3	4	5
NOON - SUNSET	24.7	10.9	19.0	20.7	29.3	30.6
ALL DAY	61.1	67.3	71.4	63.4	61.6	56.5
NO OPINION	14.1	21.8	9.5	15.9	9.1	12.9

**TABLE 58. RESPONDENTS' PREFERENCES FOR SELECTED SEASON LENGTHS & BAG LIMITS
FOR DOVES. (PCT)**

SEASON LENGTHS & BAG LIMITS FOR DOVES. (PCT)						
DAYS / LIMIT	STATEWIDE	1	2	3	4	5
70 DAYS - 12 DOVES / DAY	40.3	45.5	37.2	46.5	36.6	41.5
60 DAYS - 15 DOVES / DAY	40.1	40.0	30.2	39.5	40.6	42.2
DOES NOT MATTER	19.5	14.5	32.6	14.0	22.8	16.3

TABLE 59. OPINIONS OF GUN - DEER HUNTERS REGARDING THE LENGTH OF THE EASTERN

	STATEWIDE	REGIONS				
		1	2	3	4	5
TOO LONG	14.4	25.0	29.1	1.3	9.4	1.8
TOO SHORT	30.8	10.3	10.0	44.7	36.7	60.1
THE RIGHT LENGTH	41.1	42.5	31.8	49.3	48.4	35.0
NO OPINION	13.7	22.1	29.1	4.6	5.5	3.0

TABLE 60. OPINIONS OF GUN - DEER HUNTERS REGARDING THE LENGTH OF THE WESTERN
ZONE SEASON. (CURRENTLY 12 DAYS) (PCT)

	STATEWIDE	REGIONS				
		1	2	3	4	5
TOO LONG	2.3	7.6	1.0	1.3	1.0	1.2
TOO SHORT	60.6	54.5	60.9	63.7	68.4	54.6
THE RIGHT LENGTH	22.2	35.3	33.3	12.0	12.0	13.9
NO OPINION	14.9	2.5	4.8	23.0	18.5	30.2

TABLE 61. OPINIONS OF GUN - DEER HUNTERS REGARDING THE APPROPRIATE NUMBER OF
DOE DAYS. (PCT)

	STATEWIDE	REGIONS				
		1	2	3	4	5
INCREASE DAYS	46.1	32.6	39.3	54.3	49.1	58.9
DECREASE DAYS	14.2	27.2	18.1	6.3	9.6	5.1
KEEP DAYS THE SAME	38.2	39.1	41.4	38.1	40.0	34.1
NO OPINION	1.5	1.1	1.2	1.3	1.2	1.8

TABLE 62. PERCEPTIONS OF DEER HUNTERS REGARDING OVERALL QUALITY OF DEER
HUNTING DURING 1993-94. *

	STATEWIDE	REGIONS				
		1	2	3	4	5
	4.18	3.64	3.75	4.60	4.32	4.83

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

TABLE 63. OPINIONS OF RABBIT HUNTERS REGARDING OPENING RABBIT SEASON PRIOR TO 1ST MONDAY IN NOVEMBER. *

	STATEWIDE	1	2	3	4	5	REGIONS
	3.38	3.31	3.29	3.59	3.36	3.33	

* MEAN SCORES, WHERE 1=STRONGLY OPPOSE, 5=STRONGLY FAVOR

TABLE 64. PERCEPTIONS OF RABBIT HUNTERS WHO OPPOSED/STRONGLY OPPOSED OPENING RABBIT SEASON PRIOR TO THE 1ST MONDAY IN NOVEMBER. (PCT)

REASONS	STATEWIDE	1	2	3	4	5	REGIONS
WEATHER TOO WARM	36.2	12.5	34.8	34.4	36.2	56.8	
TOO MANY YOUNG RABBITS	9.9	18.8	8.7	9.4	6.9	10.8	
POPS. WOULD BE REDUCED	14.4	15.6	13.0	9.4	22.4	8.1	
TOO MANY WARBLES	23.5	37.5	28.3	25.0	17.2	10.8	
CROPS NOT HARVESTED	6.2	-	6.5	6.3	10.3	5.4	
OTHER	9.9	15.6	8.7	15.6	6.9	8.1	

TABLE 65. OPINIONS OF BEAR HUNTERS & NON-BEAR HUNTERS REGARDING THE APPROPRIATENESS

	BEAR HUNTERS	NON-BEAR HUNTERS
STRONGLY OPPOSE	35.8	20.4
OPPOSE	7.9	12.1
NEUTRAL	20.0	48.6
FAVOR	10.9	12.4
STRONGLY FAVOR	25.5	6.6

TABLE 66. OPINIONS OF WATERFOWL HUNTERS & NON-WATERFOWL HUNTERS REGARDING THE APPROPRIATENESS OF SWAN HUNTING SEASON. (PCT)

	WATERFOWL HUNTERS	NON-WATERFOWL HUNTERS
STRONGLY OPPOSE	12.3	22.9
OPPOSE	7.1	14.0
NEUTRAL	33.8	53.9
FAVOR	20.8	6.1
STRONGLY FAVOR	26.0	3.1

TABLE 67. PREFERENCES OF FALL TURKEY HUNTERS REGARDING SEASON DATES. *

DATES	STATEWIDE	REGIONS				
		1	2	3	4	5
OCT. 10 - OCT 29	3.22	3.12	3.42	3.12	3.34	2.80
OCT. 31 - NOV 19	2.14	3.05	2.01	2.18	2.24	2.30
NOV. 21 - DEC 10	2.15	2.27	2.04	2.39	2.08	2.51
DEC. 12 - DEC 31	3.10	3.04	3.15	3.20	3.05	3.31
JAN. 2 - JAN. 21	4.08	4.23	4.28	3.84	4.08	3.81

* MEAN RANKINGS, WHERE 1=MOST PREFERRED, 5=LEAST PREFERRED

TABLE 68. STATEWIDE & REGIONAL SUMMARIES OF FALL TURKEY HUNTERS' PERCEPTIONS OF THE IMPORTANCE OF SELECTED ATTRIBUTES ASSOCIATED WITH HARVESTING FALL TURKEYS. *

	STATEWIDE	REGIONS				
		1	2	3	4	5
Q40U	5.327	5.310	5.522	5.250	5.043	5.016
Q40V	4.262	4.357	4.488	4.010	3.929	3.891
Q40W	4.193	4.218	4.335	4.038	4.114	3.766
Q40X	4.038	4.056	4.049	3.953	3.914	3.810
Q40Y	4.830	4.754	4.856	4.619	4.693	4.683
Q40Z	3.985	4.142	3.970	4.113	3.921	3.578

* MEAN SCORES, WHERE 1=NOT IMPORTANT, 7=EXTREMELY IMPORTANT

TABLE 69. PERCEPTIONS OF FALL TURKEY HUNTERS REGARDING OVERALL QUALITY OF FALL TURKEY HUNTING DURING 1993-94.*

					REGIONS	
	STATEWIDE	1	2	3	4	5
	3.92	3.64	3.97	3.86	4.03	4.79

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

TABLE 70. PERCEPTIONS OF FALL TURKEY HUNTERS REGARDING TRENDS IN NUMBERS OF TURKEYS. (PCT)

					REGIONS	
	STATEWIDE	1	2	3	4	5
INCREASED	27.5	15.1	22.4	26.2	34.2	49.2
DECREASED	30.8	40.3	37.6	33.6	19.2	15.4
REMAINS THE SAME	32.7	38.8	30.7	24.3	39.0	24.6
NOT SURE	9.1	5.8	9.3	15.9	7.5	10.8

TABLE 71. PERCEPTIONS OF FALL TURKEY HUNTERS REGARDING THE MEAN NUMBER OF DAYS NEEDED IN ORDER TO HAVE AN "EXCELLENT SEASON".

					REGIONS	
	STATEWIDE	1	2	3	4	5
DAYS	23.76	20.42	23.18	24.45	26.91	24.43

TABLE 72. STATEWIDE SUMMARY OF RESPONDENTS' PERCEPTIONS REGARDING THE
IMPORTANCE AND SATISFACTION OF SELECTED FALL TURKEY HUNTING

ATTRIBUTES (1993)				
ATTRIBUTE	IMPORTANCE *	PERFORMANCE	SATISFACTION DIFFERENCE **	
Q40A	5.368	5.535	0.167	
Q40B	5.829	6.045	0.216	
Q40C	5.531	5.724	0.193	
Q40D	5.167	5.038	-0.129	
Q40E	5.583	4.779	-0.804	
Q40F	4.268	3.928	-0.34	
Q40G	3.440	3.149	-0.291	
Q40H	3.765	3.619	-0.146	
Q40I	3.212	2.590	-0.622	
Q40J	5.829	4.305	-1.524	
Q40K	5.889	4.497	-1.392	
Q40L	5.431	5.167	-0.264	
Q40M	5.617	4.683	-0.934	
Q40N	6.326	5.529	-0.797	
Q40O	4.757	5.017	0.26	
Q40P	4.656	3.616	-1.04	
Q40Q	5.572	4.185	-1.387	
Q40R	1.906	1.833	-0.073	
Q40S	4.288	5.056	0.768	
Q40T	5.288	4.548	-0.74	
* MEAN SCORES, WHERE 1=NOT IMPORTANT, 7=EXTREMELY IMPORTANT				
** PERFORMANCE - IMPORTANCE				

**TABLE 73. REGION 1 SUMMARY OF RESPONDENTS' PERCEPTIONS REGARDING THE
IMPORTANCE AND SATISFACTION OF SELECTED FALL TURKEY HUNTING
ATTRIBUTES (1993)**

ATTRIBUTE	IMPORTANCE *	PERFORMANCE	SATISFACTION DIFFERENCE **
Q40A	5.271	5.528	0.257
Q40B	5.794	6.085	0.291
Q40C	5.446	5.787	0.341
Q40D	5.338	5.291	-0.047
Q40E	5.589	4.887	-0.702
Q40F	4.302	4.092	-0.210
Q40G	3.236	3.086	-0.15
Q40H	3.600	3.652	0.052
Q40I	3.058	2.507	-0.551
Q40J	5.879	4.035	-1.844
Q40K	5.986	4.321	-1.665
Q40L	5.364	4.964	-0.4
Q40M	5.671	4.695	-0.976
Q40N	6.326	5.564	-0.762
Q40O	4.915	5.057	0.142
Q40P	4.553	3.629	-0.924
Q40Q	5.662	4.204	-1.458
Q40R	1.525	1.496	-0.029
Q40S	4.070	4.858	0.788
Q40T	5.199	4.507	-0.692

* MEAN SCORES, WHERE 1=NOT IMPORTANT, 7=EXTREMELY IMPORTANT

** PERFORMANCE - IMPORTANCE

**TABLE 74. REGION 2 SUMMARY OF RESPONDENTS' PERCEPTIONS REGARDING THE
IMPORTANCE AND SATISFACTION OF SELECTED FALL TURKEY HUNTING
ATTRIBUTES (1993)**

ATTRIBUTE	IMPORTANCE *	PERFORMANCE	SATISFACTION DIFFERENCE **
Q40A	5.431	5.589	0.158
Q40B	5.946	6.059	0.113
Q40C	5.562	5.714	0.152
Q40D	5.256	5.104	-0.152
Q40E	5.593	4.772	-0.821
Q40F	4.470	3.985	-0.485
Q40G	3.485	3.056	-0.429
Q40H	3.807	3.645	-0.162
Q40I	3.188	2.645	-0.543
Q40J	5.970	4.386	-1.584
Q40K	5.971	4.448	-1.523
Q40L	5.507	5.010	-0.497
Q40M	5.597	4.562	-1.035
Q40N	6.312	5.500	-0.812
Q40O	4.589	4.955	0.366
Q40P	4.724	3.599	-1.125
Q40Q	5.724	4.224	-1.5
Q40R	1.598	1.462	-0.136
Q40S	4.488	5.286	0.798
Q40T	5.406	4.547	-0.859

* MEAN SCORES, WHERE 1=NOT IMPORTANT, 7=EXTREMELY IMPORTANT

** PERFORMANCE - IMPORTANCE

**TABLE 75. REGION 3 SUMMARY OF RESPONDENTS' PERCEPTIONS REGARDING THE
IMPORTANCE AND SATISFACTION OF SELECTED FALL TURKEY HUNTING
ATTRIBUTES (1993)**

ATTRIBUTE	IMPORTANCE *	PERFORMANCE	SATISFACTION DIFFERENCE **
Q40A	5.343	5.337	-0.006
Q40B	5.673	5.895	0.222
Q40C	5.442	5.481	0.039
Q40D	5.140	4.981	-0.159
Q40E	5.740	4.657	-1.083
Q40F	4.223	3.864	-0.359
Q40G	3.481	3.154	-0.327
Q40H	3.904	3.590	-0.314
Q40I	3.317	2.538	-0.779
Q40J	5.914	4.152	-1.762
Q40K	5.971	4.305	-1.666
Q40L	5.333	5.371	0.038
Q40M	5.471	4.695	-0.776
Q40N	6.276	5.486	-0.79
Q40O	4.610	5.029	0.419
Q40P	4.615	3.635	-0.98
Q40Q	5.581	4.269	-1.312
Q40R	2.476	2.524	0.048
Q40S	4.308	5.029	0.721
Q40T	5.381	4.314	-1.067

* MEAN SCORES, WHERE 1=NOT IMPORTANT, 7=EXTREMELY IMPORTANT

** PERFORMANCE - IMPORTANCE

TABLE 76. REGION 4 SUMMARY OF RESPONDENTS' PERCEPTIONS REGARDING THE IMPORTANCE AND SATISFACTION OF SELECTED FALL TURKEY HUNTING ATTRIBUTES (1993)

ATTRIBUTE	IMPORTANCE *	PERFORMANCE	SATISFACTION DIFFERENCE **
Q40A	5.274	5.619	0.345
Q40B	5.738	6.051	0.313
Q40C	5.552	5.871	0.319
Q40D	5.049	4.878	-0.171
Q40E	5.555	4.676	-0.879
Q40F	4.193	3.705	-0.488
Q40G	3.493	3.151	-0.342
Q40H	3.771	3.576	-0.195
Q40I	3.281	2.478	-0.803
Q40J	5.734	4.435	-1.299
Q40K	5.710	4.681	-1.029
Q40L	5.357	5.331	-0.026
Q40M	5.557	4.588	-0.969
Q40N	6.357	5.410	-0.947
Q40O	4.593	4.827	0.234
Q40P	4.583	3.442	-1.141
Q40Q	5.338	4.080	-1.258
Q40R	1.914	1.761	-0.153
Q40S	4.143	5.259	1.116
Q40T	5.064	4.691	-0.373

* MEAN SCORES, WHERE 1=NOT IMPORTANT, 7=EXTREMELY IMPORTANT

** PERFORMANCE - IMPORTANCE

TABLE 77. REGION 5 SUMMARY OF RESPONDENTS' PERCEPTIONS REGARDING THE
IMPORTANCE AND SATISFACTION OF SELECTED FALL TURKEY HUNTING
ATTRIBUTES (1993)

ATTRIBUTE	IMPORTANCE *	PERFORMANCE	SATISFACTION DIFFERENCE **
Q40A	5.323	5.422	0.099
Q40B	5.578	5.922	0.344
Q40C	5.444	5.828	0.384
Q40D	5.188	5.000	-0.188
Q40E	5.400	4.625	-0.775
Q40F	4.015	3.859	-0.156
Q40G	3.484	3.094	-0.390
Q40H	3.765	3.651	-0.114
Q40I	3.422	2.714	-0.708
Q40J	5.719	4.672	-1.047
Q40K	5.844	4.828	-1.016
Q40L	5.349	5.484	0.135
Q40M	5.844	4.952	-0.892
Q40N	6.381	5.828	-0.553
Q40O	4.922	5.413	0.491
Q40P	4.556	3.790	-0.766
Q40Q	5.734	4.524	-1.210
Q40R	2.524	2.328	-0.196
Q40S	3.859	4.453	0.594
Q40T	5.109	4.641	-0.468

* MEAN SCORES, WHERE 1=NOT IMPORTANT, 7=EXTREMELY IMPORTANT

** PERFORMANCE - IMPORTANCE

TABLE 78. STATEWIDE AND REGIONAL DISTRIBUTION OF DOVE HUNTING ACROSS EIGHT TYPES OF LAND DURING THE 1993-94 HUNTING SEASON. (PCT)

TYPE	STATEWIDE	REGIONS				
		1	2	3	4	5
VDGIF WMA	3.4	1.7	0.0	8.7	2.9	2.4
NAT'L FORESTS	8.9	9.8	18.2	1.3	1.8	0.3
PRIVATE LAND	68.2	83.5	71.9	62.1	81.9	71.7
CORPORATE LAND	1.5	0.5	1.2	3.1	1.0	1.2
HUNT CLUB - PVT. LAND	12.5	1.7	7.5	19.5	8.8	20.4
HUNT CLUB - CORP. LAND	1.3	2.4	0.0	4.6	2.0	1.2
MILITARY LAND	1.2	0.5	0.0	0.4	1.9	1.5
OTHER	2.6	0.0	1.2	0.2	0.0	1.2

TABLE 79. STATEWIDE AND REGIONAL DISTRIBUTION OF DEER (GUN) HUNTING ACROSS EIGHT TYPES OF LAND DURING THE 1993-94 HUNTING SEASON. (PCT)

TYPE	STATEWIDE	REGIONS				
		1	2	3	4	5
VDGIF WMA	2.5	3.0	1.7	3.5	2.8	1.9
NAT'L FORESTS	16.1	38.0	34.6	5.6	3.9	2.0
PRIVATE LAND	51.4	49.8	55.2	58.0	56.8	36.6
CORPORATE LAND	4.0	1.6	2.6	3.6	6.7	4.5
HUNT CLUB - PVT. LAND	17.6	4.9	3.4	20.4	20.5	37.5
HUNT CLUB - CORP. LAND	5.8	0.4	0.4	5.1	7.2	14.8
MILITARY LAND	1.4	0.5	0.5	3.6	1.0	1.9
OTHER	1.1	1.8	1.6	0.2	1.3	0.7

TABLE 80. STATEWIDE AND REGIONAL DISTRIBUTION OF RABBIT HUNTING ACROSS EIGHT TYPES OF LAND DURING THE 1993-94 HUNTING SEASON. (PCT)

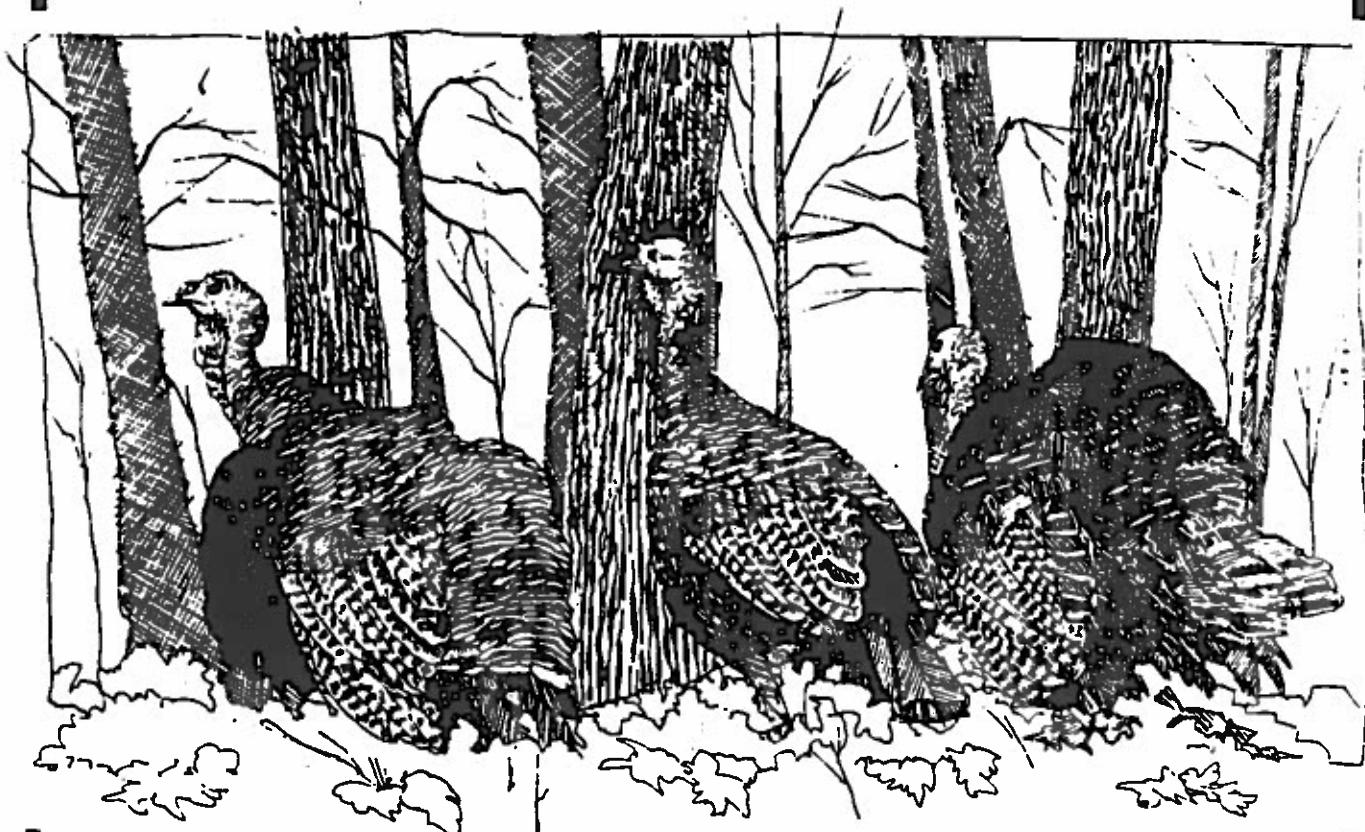
TYPE	STATEWIDE	REGIONS				
		1	2	3	4	5
VDGIF WMA	1.9	0.6	0.0	6.4	2.6	1.1
NAT'L FORESTS	3.5	14.8	5.4	0.0	0.0	0.4
PRIVATE LAND	74.0	76.3	89.2	62.6	76.4	59.8
CORPORATE LAND	2.7	1.6	0.3	4.3	4.7	2.5
HUNT CLUB - PVT. LAND	11.1	0.6	4.0	15.3	11.5	22.9
HUNT CLUB - CORP. LAND	4.4	2.0	0.0	5.4	2.0	13.3
MILITARY LAND	1.1	0.0	1.1	5.8	0.0	0.0
OTHER	1.3	4.1	0.0	0.2	2.8	0.0

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Appendix

VIRGINIA HUNTER SURVEY



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

VIRGINIA DEPT. OF GAME AND INLAND FISHERIES

Hunter Questionnaire

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

1. Did you purchase a Virginia resident hunting license for the 1993-94 hunting season (July 1, 1993 - June 30, 1994)?
 Yes
 No (If no, do not go further. Please fold the questionnaire, place it in the return envelope, and return it as soon as possible)
2. What type of license(s) did you purchase? (Check all that apply).
 State resident license (allowing you to hunt statewide)
 County/City license (allowing you to hunt only in the county/city where purchased)
 Senior license (for residents 65 years or older)
 Big game license (deer, bear, and turkey permit)
 Other (please specify) _____

On the next page, we would like information regarding the number of game animals you harvested during the 1993-94 hunting season.

INSTRUCTIONS:

- Put the number of animals you harvested personally in 1993-94 in each of the boxes below. Be as accurate as possible.
- Do not include game taken by anyone other than you.
- If you hunted an animal, but were unsuccessful, place a zero (0) in the space.
- If you did not hunt a particular animal, leave the space blank.

3. Small Game Harvest:

Quail	Woodcock	Ruffed Grouse	Crow	Rabbit	Gray Squirrel	Fox Squirrel	Groundhog/Woodchuck

4. Big Game Harvest:

Deer						Turkey			Bear
Archery		Muzzleloader		Gun		Spring 1993	Fall 1993	Spring 1994	
Bucks	Does	Bucks	Does	Bucks	Does				

5. Waterfowl Harvest:

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

6. Furbearer Harvest:

Red Fox	Gray Fox	Coyote	Raccoon	Bobcat

7. Dove Harvest (Please note that this is divided into opening day, and three season segments):

Dove			
Opening Day Sept. 4	1st Segment Sept. 6-30	2nd Segment Oct. 1-30	3rd Segment Dec. 27-Jan. 8

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

8. Small Game Days Hunted:

Quail	Woodcock	Ruffed Grouse	Crow	Rabbit	Gray Squirrel	Fox Squirrel	Groundhog/Woodchuck

9. Big Game Days Hunted:

Deer			Turkey					Bear
Archery	Muzzle-loader	Gun	Spring 1993	Nov. 1-13, 1993 prior to gun/deer season	Nov. 15-27, 1993 1st two weeks of gun/deer season	Nov. 29, 1993-Jan. 1, 1994 Remainder of fall turkey season	Spring 1994	

10. If you hunted bear, did you hunt bear with dogs? (If you did not hunt bear in 1993-94, skip to Question #11)

Yes

No

11. Waterfowl Days Hunted:

Ducks	Geese	
	Sept. Season	Nov.-Jan Season

12. Furbearers Days Hunted:

Red Fox	Gray Fox	Coyote	Raccoon	Bobcat

13. Doves Days Hunted:

Dove			
Opening Day Sept. 4	1st Segment Sept. 6-30	2nd Segment Oct. 1-31	3rd Segment Dec. 27-Jan. 8

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

14. Small Game Region Hunted:

Quail	Woodcock	Ruffed Grouse	Crow	Rabbit	Gray Squirrel	Fox Squirrel	Groundhog/Woodchuck

15. Big Game Region Hunted:

Deer			Turkey			Bear
Archery	Muzzleloader	Gun	Spring 1993	Fall 1993	Spring 1994	

16. Waterfowl Region Hunted:

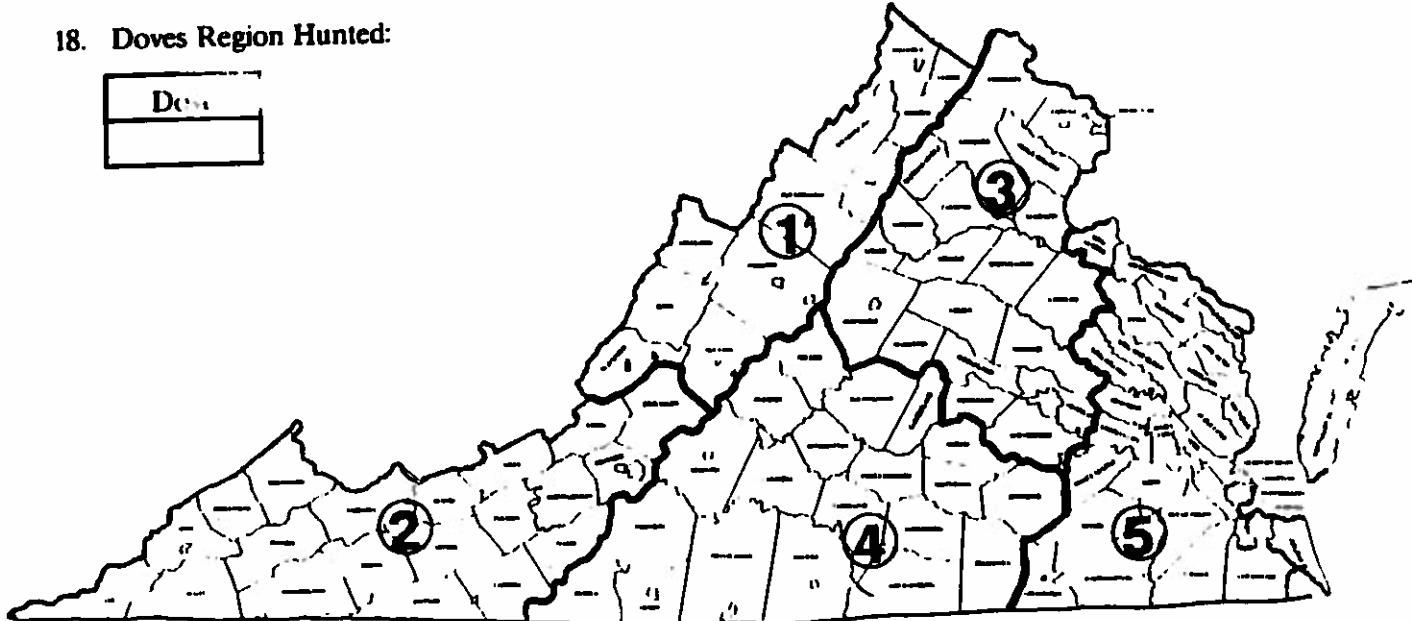
Ducks	Geese	
	Sept. Season	Nov.-Jan Season

17. Furbearers Region Hunted:

Red Fox	Gray Fox	Coyote	Raccoon	Bobcat

18. Doves Region Hunted:

Dove



19. Next, indicate the county where you most often hunted **DEER** (Gun Season). If you did not hunt deer, leave the space blank.

_____ County.

20. Now, indicate the county where you most often hunted **TURKEYS** during Fall 1993. If you did not hunt turkeys, leave the space blank.

_____ County.

Below are sets of questions regarding several season options for specific game animals which could potentially be incorporated into future hunting regulations. **Please answer all questions, even for species you did not hunt.**

21. Please indicate the degree to which you favor or oppose each of the dates below for **RUFFED GROUSE** season, by placing a "check" in the appropriate boxes.

	Strongly Oppose	Oppose	Neutral	Favor	Strongly Favor
Oct. 17 - Jan. 28	<input type="checkbox"/>				
Oct. 31 - Feb. 11	<input type="checkbox"/>				
Nov. 14 - Feb. 25	<input type="checkbox"/>				

22. Please indicate the degree to which you favor or oppose each of the dates below for **WOODCOCK** season, by placing a "check" in the appropriate boxes.

	Strongly Oppose	Oppose	Neutral	Favor	Strongly Favor
Oct. 31 - Nov. 19 & Dec. 14 - Jan. 7	<input type="checkbox"/>				
Oct. 31 - Nov. 26 & Dec. 21 - Jan. 7	<input type="checkbox"/>				
Oct. 31 - Dec. 3 & Dec. 28 - Jan. 7	<input type="checkbox"/>				

23. Please indicate the degree to which you favor or oppose each of the dates below for **DEER - MUZZLELOADER** season, by placing a "check" in the appropriate boxes.

	Strongly Oppose	Oppose	Neutral	Favor	Strongly Favor
Nov. 7 - Nov. 19	<input type="checkbox"/>				
Nov. 14 - Nov. 19	<input type="checkbox"/>				
No muzzleloading season (before gun season)	<input type="checkbox"/>				

24. To what degree would you favor or oppose each of the dates below for the October segment of **DUCK** season.

	Strongly Oppose	Oppose	Neutral	Favor	Strongly Favor
October 5-8	<input type="checkbox"/>				
October 12-15	<input type="checkbox"/>				

25. Please indicate the degree to which you favor or oppose each of the following hunting seasons:

	Strongly Oppose	Oppose	Neutral	Favor	Strongly Favor
--	-----------------	--------	---------	-------	----------------

Bear dog training season (chase)

<input type="checkbox"/>				
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Swan hunting season

<input type="checkbox"/>				
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

In the next few questions, we would like your views regarding *DOVE* season.

26. Given an equal number of days under each option, which of the following dates would you prefer for the opening of *DOVE* season? (Check only 1)

- September 1 (Thursday)
- September 3 (Saturday)
- September 17 (Saturday)
- Does not matter
- Not sure

27. We would now like to know which months are most preferred for *DOVE* hunting. Place a "1" next to the month you prefer *most*. Place a "2" next to the 2nd most preferred month, through "5" for the least preferred month. Place a rank next to each month and do not use the same number twice.

- ____ September
- ____ October
- ____ November
- ____ December
- ____ January

28. What shooting hours for DOVES would you prefer most for each of these season segments?

	Noon till Sunset	All day	No opinion
Opening Day	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1st Segment (Sept. 6-30)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2nd Segment (Oct. 1-30)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3rd Segment (Dec. 27-Jan. 8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

29. The Department can vary, to some degree, the season length and bag limits for DOVES. Of the following choices, which would you prefer? (Check only 1).

- Season length of 70 days, bag limit of 12 doves/day
- Season length of 60 days, bag limit of 15 doves/day
- Does not matter

Next, we would like your views on a few issues regarding *DEER* season.

30. The **GUN** season in the **EASTERN ZONE** is currently 42 days. Is it too long? Too short? Or, the right length? (Check only 1)

- Too long
 - Too short
 - The right length
 - No opinion

31. The **GUN** season in the **WESTERN ZONE** is currently **12 days**. Is it too long? Too short? Or, the right length? (Check only 1).

- Too long
 - Too short
 - The right length
 - No opinion

32. In the area where you hunt during Gun-Deer season, would you increase, decrease, or keep the number of **DEER DAYS** as it is now? (Check only 1).

- Increase the number of doe days
 - Decrease the number of doe days
 - Keep the number of doe days the same
 - No opinion

Now, we would like for you to tell us your overall impression of the quality of your *DEER* hunting experiences in Virginia during the 1993-94 season. (If you did not hunt deer in 1993-94, please skip Question 34).

Poor

Adequate

Exceller

33. Overall, how do you rate the quality of your deer hunting during 1993-94?

□ □ □ □ □ □ □

Now, think about RABBIT season.

34. How do you feel about opening rabbit season earlier than it is now (the first Monday in November). (Check only)

Strongly Oppose	Oppose	Neutral	Favor	Strongly Favor
<input type="checkbox"/>				

35. If you *opposed* or *strongly opposed* opening the rabbit season earlier, please indicate the most important reason (check only 1). (If you favored, strongly favored, or were neutral, skip to Question 36).

- The weather is too warm earlier in the year.
 - There are too many young, undersized rabbits earlier in the year.
 - Rabbit population levels would be reduced too low by extra hunting pressure.
 - There are too many warbles (bot flies, "wolves") on rabbits earlier in the year.
 - Too many crops are not harvested earlier in the year.
 - Other (Please specify) _____

Now, think about *FALL TURKEY* hunting.

36. Suppose you were restricted to hunting only 20 days each fall. Indicate the season you prefer to hunt *most* by placing a "1" next to that choice. Place a "2" next to your *2nd most preferred* season, through "5" for the least preferred season. Do not use the same number twice.

Oct. 10-29 _____
Oct. 31 - Nov. 19 _____
Nov. 21 - Dec. 10 _____
Dec. 12-31 _____
Jan. 2-21 _____

Next, we would like to know more about the *types of land* on which you hunt.

37. Please indicate the number of days you spent hunting on each type of land *and* the average distance (1-way) you traveled to get there. If you did not hunt on a particular type of land, leave the spaces blank.

The first species is *DOVE*:

- I did not hunt doves in 1993-94 (Skip to Question 38).

No. of Days	Average Miles Traveled (1-way)
_____ VDGIF Wildlife Management Area	_____
_____ National Forests (U.S. Forest Service)	_____
_____ Private Land (excluding hunt club or leased land)	_____
_____ Corporate Land (e.g., Westvaco) (excluding hunt club or leased land)	_____
_____ Hunt Club(s) or Leased Land (Private land)	_____
_____ Hunt Club(s) or Leased Land (Corporate land)	_____
_____ Military Land	_____
_____ Other (please specify) _____	_____

38. The next species is *DEER*:

- _____ I did not hunt deer in 1993-94 (Skip to Question 39).

No. of Days	Average Miles Traveled (1-way)
_____ VDGIF Wildlife Management Area	_____
_____ National Forests (U.S. Forest Service)	_____
_____ Private Land (excluding hunt club or leased land)	_____
_____ Corporate Land (e.g., Westvaco) (excluding hunt club or leased land)	_____
_____ Hunt Club(s) or Leased Land (Private land)	_____
_____ Hunt Club(s) or Leased Land (Corporate land)	_____
_____ Military Land	_____
_____ Other (please specify) _____	_____

39. The next species is **RABBITS**:

I did not hunt rabbits in 1993-94 (Skip to Question 40).

No. of Days	Average Miles Traveled (1-way)
<input type="checkbox"/> VDGIF Wildlife Management Area	_____
<input type="checkbox"/> National Forests (U.S. Forest Service)	_____
<input type="checkbox"/> Private Land (excluding hunt club or leased land)	_____
<input type="checkbox"/> Corporate Land (e.g., Westvaco) (excluding hunt club or leased land)	_____
<input type="checkbox"/> Hunt Club(s) or Leased Land (Private land)	_____
<input type="checkbox"/> Hunt Club(s) or Leased Land (Corporate land)	_____
<input type="checkbox"/> Military Land	_____
<input type="checkbox"/> Other (please specify) _____	_____

In the next section, we would like to know to what degree you are satisfied with your **FALL TURKEY** hunting experiences in Virginia in 1993. If you did not hunt turkeys in the fall of 1993, you have now completed the questionnaire. Please fold the questionnaire, place it in the return envelope and mail it as soon as possible.

40. First, we'd like you to imagine an **EXCELLENT TURKEY SEASON**. In the next few questions, please indicate how essential the following attributes are to an excellent turkey season. Please put a "check" in the box which best describes your feelings about each one.

You may feel some attributes are more essential than others. Check the first box if you feel an attribute is **not at all essential** to an excellent season. Check the last box if an attribute is **absolutely essential**. When you feel less certain about how essential the attribute is, check one of the boxes toward the middle.

	Not At All Essential for Excellence	Nice But Not Essential	Absolutely Essential for Excellence
a. Getting away from civilization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Being close to nature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Getting away from everyday problems (job, family, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Maintaining and/or using my calls and hunting equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Spending sufficient time scouting the areas I intend to hunt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. Being able to spend plenty of time patterning my shotgun	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g. Watching TV programs about turkey hunting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

40. (continued)

	Not At All Essential for Excellence	Nice' But Not Essential	Absolute Essential Excellen
h. Reading magazines about turkey hunting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i. Attending seminars to learn more about turkey hunting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j. Seeing turkeys while hunting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k. Hearing turkeys while hunting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
l. Seeing and hearing other wildlife while hunting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
m. Seeing very few other hunters while hunting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
n. Feeling reasonably safe while in the woods	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
o. Being with my hunting companions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
p. Teaching someone the skills of hunting turkeys	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
q. Calling turkeys successfully	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
r. Hunting turkeys with dogs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
s. Combining turkey hunting with hunting other species	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
t. Getting a shot at a turkey	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
u. Bagging a turkey	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
v. Bagging a limit of turkeys	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
w. Being thought of as a skilled turkey hunter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
x. Showing a turkey I bagged to family and friends	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
y. Bringing home a turkey to eat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
z. Displaying a trophy turkey, beard, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In the last section you told us about the attributes that make for an excellent turkey season. Now, we would like to ask you specifically about your fall turkey hunting during 1993.

41. Please tell us the degree to which you agree or disagree with the following statements.

	Strongly Disagree	Neither Agree Nor Disagree	Strongly Agree				
During the 1993 fall turkey season, I:							
a. Was able to get away from civilization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Felt close to nature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Was able to get away from everyday problems (job, family, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Spent sufficient time maintaining and using my calls and hunting equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Spent sufficient time scouting the areas I hunted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. Spent plenty of time patterning my shotgun	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g. Watched plenty of TV programs about turkey hunting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h. Read plenty of magazines about turkey hunting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i. Was able to attend a seminar(s) to learn more about turkey hunting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j. Saw plenty of turkeys	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k. Heard plenty of turkeys	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
l. Saw and heard plenty of other wildlife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
m. Saw very few other hunters while hunting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
n. Felt reasonably safe while I was in the woods	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
o. Was able to spend plenty of time with my hunting companions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
p. Taught someone the skills of hunting turkeys	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
q. Felt I was able to call turkeys successfully	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
r. Had the opportunity to hunt turkeys with dogs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
s. Was able to combine my turkey hunting with hunting other species	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
t. Had the opportunity to shoot at a turkey	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Finally, we would like for you to tell us your overall impression of fall turkey hunting 1993 in Virginia.

	Poor	Adequate	Excellent				
42. Overall, how do you rate the quality of your 1993 fall turkey season?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
43. When compared to other years, would you say the number of turkeys in the areas you hunted in 1993: (Check only 1)	 <input type="checkbox"/> Increased <input type="checkbox"/> Decreased <input type="checkbox"/> Remained about the same <input type="checkbox"/> Not sure						
44. If being able to hunt enough days for turkeys (Fall Season) was the sole criterion for an excellent season, how many days do you feel you need to hunt in order to have an excellent season?	 _____ days (Please specify)						

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

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