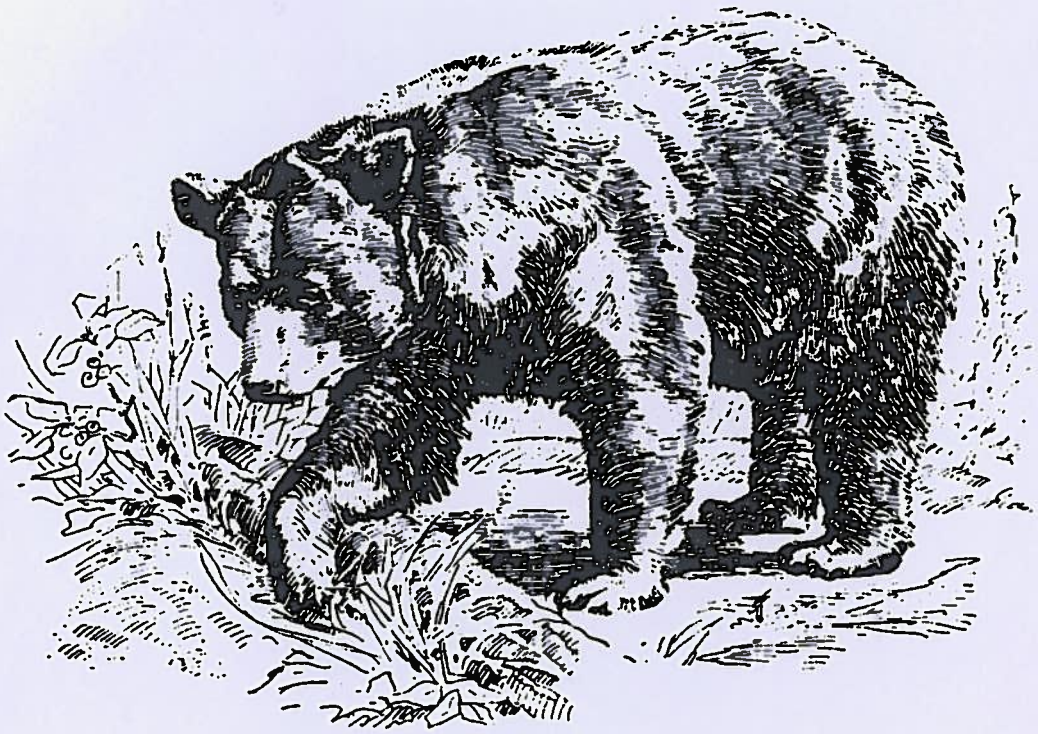
Virginia Survey of Hunter Harvest, Effort, and Attitudes

1997-98



Center For Recreation Resources Policy
George Mason University

Virginia Department of Game and Inland Fisheries
March 1999

Virginia Survey of Hunter Harvest, Effort, and Attitudes 1997-98

Conducted For:

Virginia Department of Game and Inland Fisheries
Wildlife Division
Richmond, Virginia

Center For Recreation Resources Policy
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Virginia Survey of Hunter Harvest, Effort and Attitudes
1997-98

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) estimate game harvest and hunter effort indices for major game and furbearing species in Virginia; and,

(b) collect and analyze other socio-psychological data deemed important to the agency, such as hunters' satisfaction, attitudes, beliefs, preferences, and constraints.

Methods

Generation of the Sample

A random sample of 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 1996-97 season were eligible to be drawn (N = 272,986). To ensure the representativeness of the sample, the number of license holders within each of the three categories was determined and the number of names selected was proportionate to the number of licenses sold (see Table 1).

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

Table 1.
1996-1997 Hunting Population and Survey Sample Statistics

License Type	Population	Sample	Pct.
State Resident Licenses	241,754	4,430	88.6%
County/City Licenses	16,733	305	6.1%
Senior (65+) Licenses	14,499	265	5.3%
TOTALS	272,986	5,000	100%

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

Development of Survey Instrument

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

Administration of the Survey

Procedures outlined by Dillman (1978) were employed to collect the data. A questionnaire, a self-addressed pre-stamped envelope, and a personalized cover letter explaining the importance of the study were mailed to each of the 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 716 surveys were returned as undeliverable (persons moved, wrong address given, etc.). They were removed from the original sample. Another 2,630 questionnaires had been returned. Of that total, 277 persons either did not purchase a license in 1996-97 (250 persons/5.0%) or refused to complete the survey (27 persons/0.5%), and were subsequently removed from the sample as well. Consequently, a total of 2,353 usable questionnaires were received, resulting in an effective response rate of 58.7% (effective n = 4,007).

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, 1997-98

	Population	Pct.
State Resident Licenses	**236,370**	**88.7%**
County/City Licenses	**15,853**	**5.9%**
Senior (65+) Licenses	**14,362**	**5.4%**
TOTALS	**266,585**	**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 40 game species (or subpopulations of game animals) during the 1996-97 hunting seasons. Statewide summaries are shown in Tables 3 and 4. Regional estimates are provided in Tables 5-43.

The second section assesses hunters' preferences for selected season dates, bag limits, shooting hours and other data pertinent to management of hunting in Virginia. This information is included in Tables 44-80.

Notes

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

1. When considering statistics given in this report, it is important to remember that they should not be viewed as absolute numbers, especially when comparing these statistics with other statistics from other studies. Rather, the data provided here are only indices of harvest and effort, for use in conjunction with past and future mail surveys in this ongoing research project to determine trends. Response and non-response biases exist in all survey efforts. However, when care is taken to fully replicate study methods in subsequent studies, biases should be constant, therefore providing indices of trends over time.

2. Total Harvest and Total Man-Days statistics are derived from a formula utilizing the total number of licenses sold for the 1997-98 hunting season (n=266,585). However, the statistics reported for Spring Turkey (1997) used a factor of 272,986 since this season was actually during the 1996-97 hunting season. Total Harvest statistics include all animals harvested regardless of whether or not a hunter was hunting specifically for that animal (incidental kills).

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

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

5. Regions were renumbered after the 1993-94 study. The composition of the regions, however, is consistent among studies. Please refer to the map included as part of the survey instrument, included as Appendix A.

6. Missing regional data for each species hunted were treated differently during this study as compared with previous studies. In the 1997-98 survey, respondents who did not provide information regarding the region where they hunted a particular species were eliminated from the regional estimates provided in Tables 5-41. Compared to previous surveys, this change particularly impacted the regional estimates reported for Average Daily Kill, Average Seasonal Harvest, Pct. Successful, Average Seasonal Days, and Total Hunters. While the parameter estimates for averages and totals remained approximately the same, the standard errors for these estimates generally increased. Care should be taken when comparing these regional data with regional data from previous studies conducted from 1993-94 through 1996-97. The statewide estimators remained unaffected by this change.

7. Parenthetical notations displayed immediately following table number (e.g., Q24) refer to question numbers in the survey instrument.

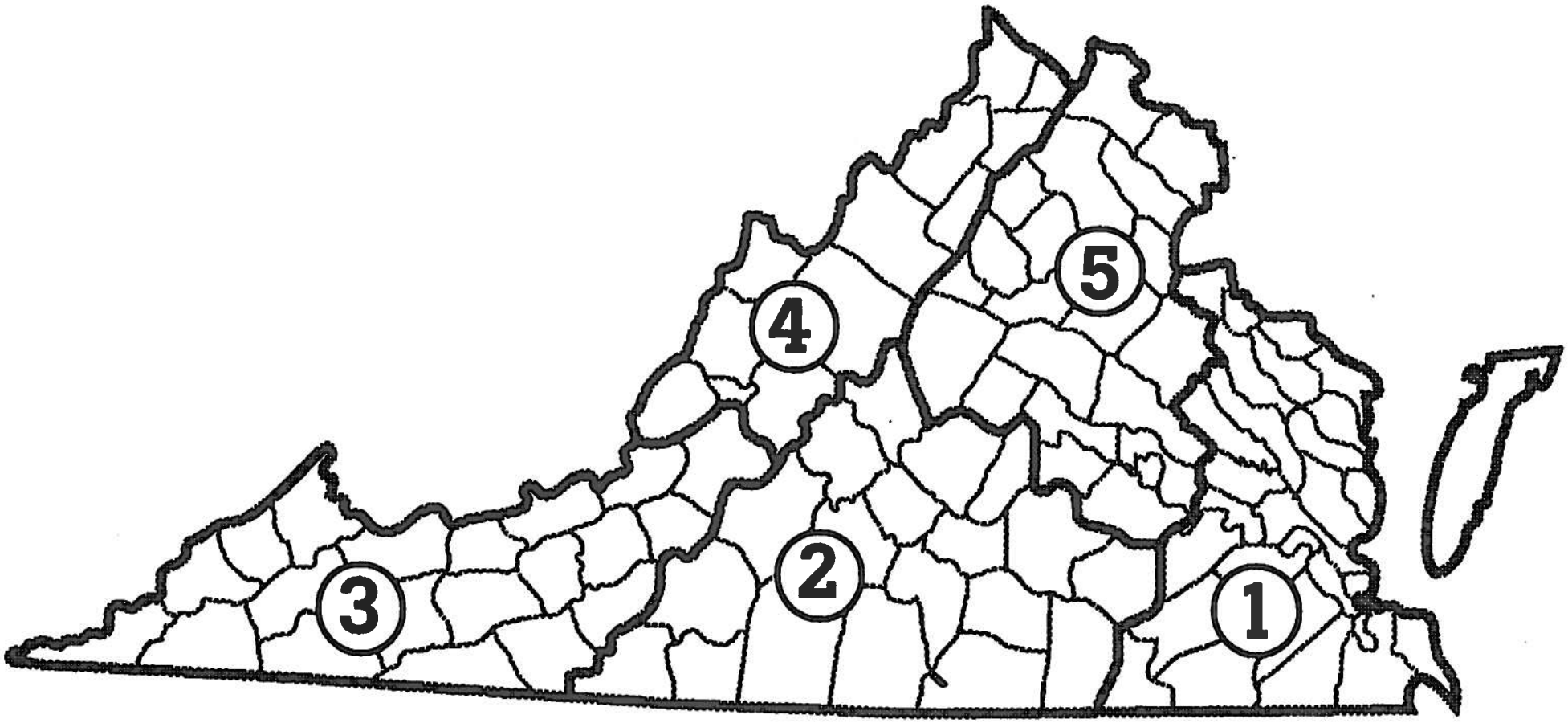

fig. 1

ABLE 3. EXPANDED STATEWIDE SUMMARY OF THE 1997-98 VA SURVEY OF GAME HARVEST BASED ON 266,585 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
OVE	929,705	4.607	15.54	81.6	195,322	3.37	57,894	21.7
UAIL	163,599	1.363	6.59	61.6	111,257	4.84	22,999	8.6
OODCOCK	11,443	0.718	2.10	50.0	13,256	2.93	4,532	1.7
UFFED GROUSE	51,889	0.378	1.82	61.0	128,704	4.81	26,738	10.0
ROW	285,513	2.727	13.46	85.2	94,489	4.93	19,147	7.2
ABBIT	448,651	1.187	7.01	80.4	359,487	5.91	60,840	22.8
OTAL SQUIRREL	1,229,033	1.538	11.30	91.0	749,452	7.35	101,966	38.2
GRAY SQUIRREL	1,084,241	1.750	10.29	90.8	574,750	5.88	97,774	36.7
FOX SQUIRREL	144,792	0.709	3.98	74.5	174,702	5.61	31,156	11.7
ROUNDHOG/ OODCHUCK	486,265	0.985	10.51	91.0	402,766	10.68	37,727	14.2
OTAL DEER	311,677	0.078	1.29	60.2	3,875,962	16.66	232,710	87.3
BUCK	175,382	0.044	0.73	47.0	----	----	----	----
DOE	136,295	0.034	0.56	36.6	----	----	----	----
RCHERY	36,028	0.043	0.45	31.3	787,519	10.47	75,228	28.2
BUCK	17,108	0.020	0.21	17.5	----	----	----	----
DOE	18,920	0.023	0.24	19.7	----	----	----	----
UZZLELOADER	67,978	0.083	0.54	40.0	788,425	6.52	120,887	45.3
BUCK	42,826	0.053	0.35	29.2	----	----	----	----
DOE	25,152	0.030	0.20	16.8	----	----	----	----
UN	207,671	0.085	0.88	50.9	2,300,018	10.36	222,060	83.3
BUCK	115,513	0.048	0.49	37.9	----	----	----	----
DOE	92,223	0.038	0.39	28.4	----	----	----	----
URKEY LY 97-98	49,623	0.059	0.42	29.0	771,884	7.20	107,178	40.2
SPRING 1997 *	24,812	0.061	0.35	26.0	408,761	5.68	71,952	24.6
FALL 1997	28,437	0.064	0.30	24.4	386,905	4.77	81,120	30.4
SPRING 1998	21,186	0.053	0.31	23.7	384,979	5.87	65,598	24.6
EAR	453	0.003	0.02	1.8	102,419	5.55	18,467	6.9
OTAL DUCKS	200,873	1.449	9.90	83.2	124,625	6.83	18,241	6.8
MALLARD	74,322	0.522	3.57	58.4	----	----	----	----
WOOD	37,841	0.280	1.91	47.8	----	----	----	----
BLACK	17,108	0.125	0.85	24.8	----	----	----	----
ALL OTHERS	71,603	0.523	3.57	35.4	----	----	----	----
OTAL GEESE	48,490	0.774	3.86	67.6	62,653	4.98	12,576	4.7
SEPT	18,354	0.824	2.37	58.2	21,866	2.88	7,591	2.8
NOV - MARCH	30,137	0.739	3.37	67.1	40,786	4.56	8,950	3.4
ED FOX	24,359	0.165	1.40	55.9	106,385	8.46	12,576	4.7
RAY FOX	30,816	0.326	2.82	51.8	83,386	8.66	9,630	3.6
OYOTE	3,739	0.097	0.65	45.0	30,363	6.70	4,532	1.7
ACCOON	136,748	0.497	10.74	84.3	264,659	21.63	12,236	4.6
OBCAT	4,872	0.067	0.46	27.1	37,387	6.88	5,438	2.0

* N=272,986 TOTAL LICENSES 1996-97

TABLE 4. EXPANDED STATEWIDE ESTIMATES OF TOTAL HARVEST (WITH STD ERRORS) FOR VIRGINIA GAME SPECIES DURING 1997-98.

SPECIES	TOTAL HARVEST	STANDARD ERROR		95% CONFIDENCE INTERVAL	
		SE	AS % OF TOTAL *	LOWER LIMIT	UPPER LIMIT
DOVE	929,705	57,128	6.1	815,449	1,043,962
QUAIL	163,599	22,780	13.9	118,039	209,160
WOODCOCK	11,443	3,907	34.1	3,629	19,257
RUFFED GROUSE	51,889	6,191	11.9	39,507	64,272
CROW	285,513	46,749	16.4	192,016	379,011
RABBIT	448,651	32,689	7.3	383,272	514,030
TOTAL SQUIRREL	1,229,033	53,469	4.4	1,122,094	1,335,972
GRAY SQUIRREL	1,084,241	47,817	4.4	988,606	1,179,875
FOX SQUIRREL	144,792	13,692	9.5	117,407	172,177
GROUNDHOG/ WOODCHUCK	486,265	46,664	9.6	392,937	579,594
TOTAL DEER	311,677	8,316	2.7	295,046	328,308
BUCK	175,382	5,170	2.9	165,042	185,722
DOE	136,295	4,947	3.6	126,400	146,189
ARCHERY	36,028	2,722	7.6	30,584	41,472
BUCK	17,108	1,584	9.3	13,940	20,275
DOE	18,920	1,715	9.1	15,489	22,351
MUZZLELOADER	67,978	3,329	4.9	61,319	74,636
BUCK	42,826	2,386	5.6	38,054	47,598
DOE	25,152	1,893	7.5	21,366	28,938
GUN	207,671	6,365	3.1	194,941	220,402
BUCK	115,513	3,885	3.4	107,742	123,284
DOE	92,223	3,952	4.3	84,318	100,127
TURKEY LY 96-97	49,623	3,210	6.5	43,203	56,044
SPRING 1996 **	24,812	2,236	9.0	20,341	29,283
FALL 1996	28,437	2,127	7.5	24,184	32,691
SPRING 1997	21,186	1,903	9.0	17,379	24,993
BEAR	453	226	49.9	1	906
TOTAL DUCKS	200,873	27,150	13.5	146,573	255,174
MALLARD	74,322	11,217	15.1	51,889	96,755
WOOD	37,841	5,104	13.5	27,633	48,049
BLACK	17,108	3,921	22.9	9,265	24,950
ALL OTHERS	71,603	14,692	20.5	42,218	100,987
TOTAL GEESE	48,490	8,013	16.5	32,464	64,517
SEPT	18,354	4,253	23.2	9,847	26,861
NOV - MARCH	30,137	5,512	18.3	19,113	41,160
RED FOX	24,359	4,839	19.9	14,681	34,036
GRAY FOX	30,816	7,135	23.2	16,546	45,087
COYOTE	3,739	821	22.0	2,096	5,382
RACCOON	136,748	19,457	14.2	97,835	175,661
BOBCAT	4,872	1,800	36.9	1,272	8,471

* % = 100 (SE/TOTAL HARVEST)

** n=272,986 TOTAL LICENSES 1996-97

TABLE 3. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF DOVE HUNTING IN VIRGINIA DURING THE 1997-98 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	338,981	5.122	16.69	86.7	67,978	3.26	18,807	34.0
	(SE)	34,368	0.314	1.28	2.6	6,232	0.21	1,408	2.1
	N	2,353	166	166	166	2,353	166	2,353	488
2	ESTIMATE	245,852	4.656	14.95	83.3	54,722	3.21	14,955	27.0
	(SE)	27,848	0.337	1.28	3.3	5,322	0.20	1,265	2.0
	N	2,353	132	132	132.0	2,353	132	2,353	488
3	ESTIMATE	47,018	3.438	10.46	75.0	14,955	3.04	2,719	4.9
	(SE)	11,038	0.520	2.44	9.0	2,674	0.47	552	1.0
	N	2,353	24	24	24	2,353	24	2,353	488
4	ESTIMATE	160,200	5.167	22.13	86.8	32,403	4.28	6,005	10.9
	(SE)	30,263	0.487	3.74	4.7	4,688	0.45	816	1.4
	N	2,353	53	53	53	2,353	53	2,353	488
5	ESTIMATE	211,976	4.155	14.71	78.8	52,003	3.54	12,802	23.2
	(SE)	26,820	0.362	1.50	3.9	5,462	0.25	1,175	1.9
	N	2,353	113	113	113	2,353	113	2,353	488
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	929,705	4.607	15.54	81.6	195,322	3.37	57,894	21.7
	(SE)	57,128	0.173	0.76	1.7	10,178	0.12	2,266	0.9
	N	2,353	511	511	511	2,353	511	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	90,184	2.265	12.67	76.9	38,407	5.60	5,891	28.1
	(SE)	19,001	0.329	2.59	5.9	6,223	0.68	808	3.3
	N	2,353	52	52	52	2,353	52	2,353	185
2	ESTIMATE	59,707	1.223	6.39	64.2	45,092	5.22	7,591	36.2
	(SE)	12,016	0.212	1.27	5.9	7,309	0.70	914	3.5
	N	2,353	67	67	67	2,353	67	2,353	185
3	ESTIMATE	15,182	0.706	4.00	58.3	13,142	5.67	1,360	6.5
	(SE)	5,395	0.104	2.42	14.9	4,948	3.15	392	1.8
	N	2,353	12	12	12	2,353	12	2,353	185
4	ESTIMATE	12,349	0.523	1.77	30.8	10,423	3.38	1,473	7.0
	(SE)	4,374	0.338	0.98	13.3	2,814	1.28	407	1.9
	N	2,353	13	13	13	2,353	13	2,353	185
5	ESTIMATE	25,152	0.707	3.12	56.1	25,945	4.41	4,645	22.2
	(SE)	6,193	0.183	0.87	7.8	5,701	0.97	719	3.1
	N	2,353	41	41	41	2,353	41	2,353	185
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	163,599	1.363	6.59	61.6	111,257	4.84	22,999	8.6
	(SE)	22,780	0.155	0.87	3.4	11,941	0.41	1,543	0.6
	N	2,353	203	203	203	2,353	203	2,353	2,353

TABLE 7. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF WOODCOCK HUNTING IN VIRGINIA DURING THE 1997-98 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	6,911	1.068	4.27	63.6	5,212	4.00	1,246	28.2
	(SE)	3,586	0.289	2.62	15.2	2,292	1.45	375	7.3
	N	2,353	11	11	11	2,353	11	2,353	39
2	ESTIMATE	3,965	0.897	2.17	58.3	3,512	2.42	1,360	30.8
	(SE)	1,497	0.294	0.89	14.9	1,202	0.54	392	7.5
	N	2,353	12	12	12	2,353	12	2,353	39
3	ESTIMATE	906	0.133	0.50	25.0	1,926	3.75	453	10.3
	(SE)	392	0.151	0.50	25.0	1,056	1.49	226	4.9
	N	2,353	4	4	4	2,353	4	2,353	39
4	ESTIMATE	1,246	0.278	0.83	33.3	2,266	3.00	680	15.4
	(SE)	519	0.209	0.54	21.1	974	0.73	277	5.9
	N	2,353	6	6	6	2,353	6	2,353	39
5	ESTIMATE	1,133	0.444	0.67	50.0	1,246	1.50	680	15.4
	(SE)	423	0.244	0.33	22.4	519	0.34	277	5.9
	N	2,353	6	6	6	2,353	6	2,353	39
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	11,443	0.718	2.10	50.0	13,256	2.93	4,532	1.7
	(SE)	3,907	0.186	0.79	8.0	2,962	0.47	711	0.3
	N	2,353	40	40	40	2,353	40	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	4,645	0.381	2.67	100.0	10,197	7.00	340	1.4
	(SE)	1,201	0.253	0.88	0.0	2,786	3.79	196	0.8
	N	2,353	3	3	3	2,353	3	2,353	216
2	ESTIMATE	6,458	0.356	1.05	40.0	14,502	2.95	2,266	9.3
	(SE)	1,476	0.149	0.39	11.2	2,883	0.53	505	2.0
	N	2,353	20	20	20	2,353	20	2,353	216
3	ESTIMATE	25,832	0.372	2.34	71.1	66,845	6.28	9,404	38.4
	(SE)	5,083	0.073	0.47	5.0	10,457	0.86	1,014	3.3
	N	2,353	83	83	83	2,353	83	2,353	216
4	ESTIMATE	23,792	0.424	1.83	62.4	53,249	4.31	10,537	43.1
	(SE)	3,439	0.062	0.25	5.1	7,247	0.49	1,071	3.4
	N	2,353	93	93	93	2,353	93	2,353	216
5	ESTIMATE	6,118	0.323	1.24	53	15,182	3.82	1,926	7.9
	(SE)	1,446	0.120	0.43	12.5	3,258	0.88	466	1.8
	N	2,353	17	17	17	2,353	17	2,353	216
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	51,889	0.378	1.82	61.0	128,704	4.81	26,738	10.0
	(SE)	6,191	0.042	0.20	3.2	12,868	0.38	1,651	0.6
	N	2,353	236	236	236	2,353	236	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	112,842	3.546	20.57	90.0	25,718	5.80	3,399	19.2
	(SE)	33,197	0.693	5.99	5.6	5,806	1.18	617	3.2
	N	2,353	30	30	30	2,353	30	2,353	156
2	ESTIMATE	99,474	2.283	10.76	85.7	28,437	4.71	4,758	26.9
	(SE)	27,300	0.472	2.43	5.5	5,242	0.69	728	3.6
	N	2,353	42	42	42	2,353	42	2,353	156
3	ESTIMATE	94,829	2.747	16.29	85.7	24,812	5.93	3,172	17.9
	(SE)	34,935	1.285	7.77	6.7	5,928	1.34	596	3.1
	N	2,353	28	28	28	2,353	28	2,353	156
4	ESTIMATE	70,357	2.637	10.00	83.3	16,314	3.79	2,719	15.4
	(SE)	25,151	0.659	2.92	7.8	3,402	0.50	552	2.9
	N	2,353	24	24	24	2,353	24	2,353	156
5	ESTIMATE	78,321	1.779	8.45	90.6	23,226	4.75	3,625	20.5
	(SE)	25,938	0.412	2.44	5.2	4,967	0.89	637	3.2
	N	2,353	32	32	32	2,353	32	2,353	156

REGION	STATISTIC	PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	7.2
	(SE)	0.5
	N	2,353

TABLE 10. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF RABBIT HUNTING IN VIRGINIA DURING THE 1997-98 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	126,551	1.263	7.40	87.6	111,936	5.86	11,896	21.2
	(SE)	14,131	0.096	0.72	3.2	15,304	0.60	1,135	1.8
	N	2,353	105	105	105	2,353	105	2,353	495
2	ESTIMATE	161,560	1.239	8.14	80.5	141,167	6.56	15,068	26.9
	(SE)	22,157	0.100	1.21	3.5	19,060	0.83	1,269	2.0
	N	2,353	133	133	133	2,353	133	2,353	495
3	ESTIMATE	103,552	1.297	5.93	75.5	93,016	4.57	11,103	19.8
	(SE)	14,021	0.165	0.92	4.4	13,589	0.39	1,098	1.8
	N	2,353	98	98	98	2,353	98	2,353	495
4	ESTIMATE	96,981	1.411	6.86	77.0	83,046	4.86	8,384	14.9
	(SE)	16,035	0.299	1.48	4.9	13,833	0.64	959	1.6
	N	2,353	74	74	74	2,353	74	2,353	495
5	ESTIMATE	100,040	1.129	6.69	82.4	99,360	5.93	9,630	17.2
	(SE)	13,753	0.211	1.00	4.2	16,460	1.01	1,026	1.7
	N	2,353	85	85	85	2,353	85	2,353	495
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	448,651	1.187	7.01	80.4	359,487	5.91	60,840	22.8
	(SE)	32,689	0.070	0.46	1.7	25,290	0.35	2,307	0.9
	N	2,353	537	537	537	2,353	537	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	267,605	1.983	11.85	88.9	124,512	5.97	13,256	14.9
	(SE)	27,988	0.153	1.43	2.9	13,247	0.67	1,195	1.3
	N	2,353	117	117	117	2,353	117	2,353	783
2	ESTIMATE	341,020	1.865	10.89	94.1	169,037	5.84	21,186	23.9
	(SE)	28,390	0.147	0.85	1.7	14,394	0.44	1,487	1.5
	N	2,353	187	187	187	2,353	187	2,353	783
3	ESTIMATE	271,797	1.364	8.69	87.5	160,880	6.38	18,127	20.4
	(SE)	23,360	0.130	0.71	2.6	16,927	0.71	1,384	1.4
	N	2,353	160	160	160	2,353	160	2,353	783
4	ESTIMATE	325,385	1.679	10.79	91.2	169,151	6.43	19,260	21.7
	(SE)	27,162	0.118	0.80	2.2	14,351	0.46	1,423	1.5
	N	2,353	170	170	170	2,353	170	2,353	783
5	ESTIMATE	288,564	1.997	10.31	94.0	132,443	5.16	16,881	19.0
	(SE)	25,954	0.176	0.91	2.0	12,448	0.46	1,339	1.4
	N	2,353	149	149	149	2,353	149	2,353	783
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	1,084,241	1.750	10.29	90.8	574,750	5.88	97,774	36.7
	(SE)	47,817	0.064	0.39	1.0	2,967	0.23	2,649	1.0
	N	2,353	863	863	863	2,353	863	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	19,827	0.654	3.40	80.0	21,300	5.20	566	2.0
	(SE)	4,978	0.604	1.78	20.0	5,202	3.29	253	0.9
	N	2,353	5	5	5	2,353	5	2,353	244
2	ESTIMATE	22,546	0.506	2.44	50.0	27,078	4.81	1,813	6.6
	(SE)	5,255	0.221	1.01	12.9	5,364	0.72	452	1.6
	N	2,353	16	16	16	2,353	16	2,353	244
3	ESTIMATE	72,396	0.723	4.39	78.6	89,164	6.07	11,669	42.2
	(SE)	10,974	0.077	0.73	4.1	14,131	0.99	1,125	3.2
	N	2,353	103	103	103	2,353	103	2,353	244
4	ESTIMATE	77,268	0.816	4.74	82.8	83,499	5.81	11,216	40.6
	(SE)	9,164	0.100	0.49	3.8	10,320	0.59	1,104	3.1
	N	2,353	99	99	99	2,353	99	2,353	244
5	ESTIMATE	24,359	0.532	1.95	71.4	27,078	3.67	2,379	8.6
	(SE)	5,271	0.166	0.44	10.1	5,355	0.70	517	1.8
	N	2,353	21	21	21	2,353	21	2,353	244

REGION	STATISTIC	PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	11.7
	(SE)	0.7
	N	2,353

TABLE 12. ESTIMATES, STATEWIDE AND REGIONAL SUMMARIES OF GROUNDHOG/WOODCHUCK HUNTING IN VA DURING THE 1997-98 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	110,690	1.142	11.38	96.6	76,588	9.97	3,286	10.2
	(SE)	17,472	0.156	2.35	3.4	12,178	1.73	606	1.8
	N	2,353	29	29	29	2,353	29	2,353	284
2	ESTIMATE	113,636	0.564	6.90	88.0	113,182	12.24	5,665	17.6
	(SE)	16,072	0.062	0.92	4.6	16,412	1.75	793	2.3
	N	2,353	50	50	50	2,353	50	2,353	284
3	ESTIMATE	227,385	1.147	12.95	93.4	160,200	11.29	10,310	32.0
	(SE)	34,871	0.161	2.44	2.6	19,203	1.19	1,060	2.8
	N	2,353	91	91	91	2,353	91	2,353	284
4	ESTIMATE	159,294	0.973	9.55	89.3	106,158	9.82	6,345	19.7
	(SE)	26,062	0.166	1.89	4.2	17,028	1.90	838	2.4
	N	2,353	56	56	56	2,353	56	2,353	284
5	ESTIMATE	159,407	1.013	12.05	94.8	122,020	11.90	6,571	20.4
	(SE)	24,080	0.168	2.43	2.9	19,432	2.15	852	2.4
	N	2,353	58	58	58	2,353	58	2,353	284
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	486,265	0.985	10.51	91.0	402,766	10.68	37,727	14.2
	(SE)	46,664	0.072	0.93	1.6	32,928	0.68	1,916	0.7
	N	2,353	333	333	333	2,353	333	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	5,665	0.027	0.29	21.3	145,585	10.64	10,650	14.9
	(SE)	994	0.007	0.06	4.2	16,742	0.95	1,077	1.4
	N	2,353	94	94	94	2,353	94	2,353	631
2	ESTIMATE	7,591	0.034	0.33	26.2	174,929	9.68	14,728	20.6
	(SE)	1,117	0.006	0.05	3.9	17,245	0.69	1,256	1.6
	N	2,353	130	130	130	2,353	130	2,353	631
3	ESTIMATE	12,576	0.045	0.55	36.2	243,133	12.24	17,221	24.1
	(SE)	1,687	0.007	0.08	3.9	22,927	0.84	1,351	1.7
	N	2,353	152	152	152	2,353	152	2,353	631
4	ESTIMATE	9,517	0.047	0.47	35.1	178,214	9.83	14,842	20.8
	(SE)	1,355	0.008	0.07	4.2	16,971	0.64	1,260	1.6
	N	2,353	131	131	131	2,353	131	2,353	631
5	ESTIMATE	10,650	0.057	0.58	36.3	174,816	10.15	14,049	19.7
	(SE)	1,612	0.010	0.09	4.3	18,379	0.83	1,228	1.6
	N	2,353	124	124	124	2,353	124	2,353	631
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	36,028	0.043	0.45	31.3	787,519	10.47	75,228	28.2
	(SE)	2,722	0.001	0.03	1.8	36,567	0.34	2,474	0.9
	N	2,353	664	664	664	2,353	664	2,353	2,353

[illegible] ESTIMATES AND REGIONAL SUMMARIES OF ARCHERY DEER (BUCK) HUNTING IN VA DURING THE 1997-98 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	2,946	0.015	0.16	14.9	145,585	10.64	10,650	14.9
	(SE)	618	0.004	0.04	3.7	16,742	0.95	1,077	1.4
	N	2,353	94	94	94	2,353	94	2,353	631
2	ESTIMATE	4,192	0.021	0.20	16.9	174,929	9.68	14,728	20.6
	(SE)	772	0.004	0.04	3.3	17,245	0.69	1,256	1.6
	N	2,353	130	130	130	2,353	130	2,353	631
3	ESTIMATE	5,438	0.018	0.22	18.4	243,133	12.24	17,221	24.1
	(SE)	914	0.004	0.04	3.2	22,927	0.84	1,351	1.7
	N	2,353	152	152	152	2,353	152	2,353	631
4	ESTIMATE	3,626	0.017	0.17	15.3	178,214	9.83	14,842	20.8
	(SE)	694	0.004	0.04	3.2	16,971	0.64	1,260	1.6
	N	2,353	131	131	131	2,353	131	2,353	631
5	ESTIMATE	5,438	0.030	0.31	21.8	174,816	10.15	14,049	19.7
	(SE)	955	0.005	0.06	3.7	18,379	0.83	1,228	1.6
	N	2,353	124	124	124	2,353	124	2,353	631

									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	17,108	0.020	0.21	17.5	787,519	10.47	75,228	28.2
	(SE)	1,584	0.002	0.02	1.5	36,567	0.34	2,474	0.9
	N	2,353	664	664	664	2,353	664	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	2,719	0.012	0.13	10.6	145,585	10.64	10,650	14.9
	(SE)	638	0.004	0.04	3.2	16,742	0.95	1,077	1.4
	N	2,353	94	94	94	2,353	94	2,353	631
2	ESTIMATE	3,399	0.014	0.13	12.3	174,929	9.68	14,728	20.6
	(SE)	676	0.003	0.03	2.9	17,245	0.69	1,256	1.6
	N	2,353	130	130	130	2,353	130	2,353	631
3	ESTIMATE	7,138	0.027	0.33	27.0	243,133	12.24	17,221	24.1
	(SE)	1,059	0.004	0.05	3.6	22,927	0.84	1,351	1.7
	N	2,353	152	152	152	2,353	152	2,353	631
4	ESTIMATE	5,891	0.030	0.30	26.0	178,214	9.83	14,842	20.8
	(SE)	954	0.004	0.05	3.8	16,971	0.64	1,260	1.6
	N	2,353	131	131	131	2,353	131	2,353	631
5	ESTIMATE	5,212	0.027	0.27	20.2	174,816	10.15	14,049	19.7
	(SE)	982	0.005	0.06	3.6	18,379	0.83	1,228	1.6
	N	2,353	124	124	124	2,353	124	2,353	631

									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	18,920	0.023	0.24	19.7	787,519	10.47	75,228	28.2
	(SE)	1,715	0.002	0.02	1.5	36,567	0.34	2,474	0.9
	N	2,353	664	664	664	2,353	664	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	9,743	0.091	0.54	39.0	112,163	5.87	13,935	12.1
	(SE)	1,286	0.014	0.07	4.4	9,725	0.29	1,223	1.0
	N	2,353	123	123	123	2,353	123	2,353	1,020
2	ESTIMATE	20,053	0.087	0.60	41.5	222,626	6.84	28,097	24.3
	(SE)	1,975	0.010	0.06	3.1	15,297	0.31	1,688	1.3
	N	2,353	248	248	248	2,353	248	2,353	1,020
3	ESTIMATE	13,256	0.062	0.45	33.8	209,484	7.22	24,812	21.5
	(SE)	1,483	0.008	0.05	3.2	15,064	0.34	1,597	1.3
	N	2,353	219	219	219	2,353	219	2,353	1,020
4	ESTIMATE	18,014	0.088	0.59	42.9	210,843	6.69	26,964	23.3
	(SE)	1,835	0.010	0.05	3.2	14,457	0.29	1,657	1.3
	N	2,353	238	238	238	2,353	238	2,353	1,020
5	ESTIMATE	15,522	0.105	0.60	45.3	154,762	5.72	21,753	18.8
	(SE)	1,638	0.013	0.06	3.6	11,947	0.30	1,505	1.2
	N	2,353	192	192	192	2,353	192	2,353	1,020
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	67,978	0.083	0.54	40.0	788,425	6.52	120,887	45.3
	(SE)	3,329	0.001	0.02	1.5	24,516	0.14	2,737	1.0
	N	2,353	1,067	1,067	1,067	2,353	1,067	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	6,458	0.061	0.36	29.3	112,163	5.87	13,935	12.1
	(SE)	972	0.009	0.05	4.1	9,725	0.29	1,223	1.0
	N	2,353	123	123	123	2,353	123	2,353	1,020
2	ESTIMATE	12,236	0.053	0.36	29.8	222,626	6.84	28,097	24.3
	(SE)	1,374	0.006	0.04	2.9	15,297	0.31	1,688	1.3
	N	2,353	248	248	248	2,353	248	2,353	1,020
3	ESTIMATE	8,157	0.038	0.27	22.8	209,484	7.22	24,812	21.5
	(SE)	1,086	0.005	0.04	2.8	15,064	0.34	1,597	1.3
	N	2,353	219	219	219	2,353	219	2,353	1,020
4	ESTIMATE	10,990	0.053	0.36	31.1	210,843	6.69	26,964	23.3
	(SE)	1,236	0.005	0.04	3.0	14,457	0.29	1,657	1.3
	N	2,353	238	238	238	2,353	238	2,353	1,020
5	ESTIMATE	10,423	0.072	0.41	35.4	154,762	5.72	21,753	18.8
	(SE)	1,201	0.007	0.04	3.5	11,947	0.30	1,505	1.2
	N	2,353	192	192	192	2,353	192	2,353	1,020

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	42,826	0.053	0.35	29.2	788,425	6.52	120,887	45.3
	(SE)	2,386	0.003	0.02	1.4	24,516	0.14	2,737	1.0
	N	2,353	1,067	1,067	1,067	2,353	1,067	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	3,286	0.030	0.18	16.3	112,163	5.87	13,935	12.1
	(SE)	667	0.006	0.04	3.3	9,725	0.29	1,223	1.0
	N	2,353	123	123	123	2,353	123	2,353	1,020
2	ESTIMATE	7,817	0.034	0.23	19.0	222,626	6.84	28,097	24.3
	(SE)	1,104	0.005	0.03	2.5	15,297	0.31	1,688	1.3
	N	2,353	248	248	248	2,353	248	2,353	1,020
3	ESTIMATE	5,098	0.024	0.17	15.5	209,484	7.22	24,812	21.5
	(SE)	849	0.004	0.03	2.5	15,064	0.34	1,597	1.3
	N	2,353	219	219	219	2,353	219	2,353	1,020
4	ESTIMATE	7,024	0.035	0.23	19.7	210,843	6.69	26,964	23.3
	(SE)	1,003	0.005	0.03	2.6	14,457	0.29	1,657	1.3
	N	2,353	238	238	238	2,353	238	2,353	1,020
5	ESTIMATE	5,098	0.033	0.19	14.6	154,762	5.72	21,753	18.8
	(SE)	922	0.006	0.04	2.6	11,947	0.30	1,505	1.2
	N	2,353	192	192	192	2,353	192	2,353	1,020
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	25,152	0.030	0.20	16.8	788,425	6.52	120,887	45.3
	(SE)	1,893	0.002	0.01	1.1	24,516	0.14	2,737	1.0
	N	2,353	1,067	1,067	1,067	2,353	1,067	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	58,234	0.085	1.17	58.8	625,166	13.76	38,521	18.2
	(SE)	4,252	0.006	0.08	2.7	34,579	0.51	1,933	0.9
	N	2,353	340	340	340	2,353	340	2,353	1,868
2	ESTIMATE	60,953	0.081	0.91	53.4	681,474	11.32	51,776	24.5
	(SE)	3,911	0.005	0.06	2.3	3,302	0.38	2,175	1.0
	N	2,353	457	457	457	2,353	457	2,353	1,868
3	ESTIMATE	32,856	0.087	0.59	40.1	339,547	6.80	35,915	17.0
	(SE)	2,668	0.007	0.05	2.8	18,538	0.21	1,877	0.9
	N	2,353	317	317	317	2,353	317	2,353	1,868
4	ESTIMATE	40,673	0.091	0.71	47.4	413,983	7.75	41,126	19.4
	(SE)	3,007	0.007	0.05	2.6	22,178	0.28	1,986	0.9
	N	2,353	363	363	363	2,353	363	2,353	1,868
5	ESTIMATE	56,648	0.086	1.02	54.0	620,974	11.87	44,299	20.9
	(SE)	3,948	0.005	0.07	2.5	33,745	0.48	2,046	0.9
	N	2,353	391	391	391	2,353	391	2,353	1,868
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	207,671	0.085	0.88	50.9	2,300,018	10.36	222,060	83.3
	(SE)	6,365	0.002	0.03	1.1	45,487	0.18	2,050	0.8
	N	2,353	1,960	1,960	1,960	2,353	1,960	2,353	2,353

TABLE 21. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF GUN DEER (BUCK) HUNTING IN VIRGINIA DURING THE 1997-98 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	30,590	0.045	0.62	44.7	635,506	13.76	38,521	18.2
	(SE)	2,358	0.003	0.05	2.7	33,622	0.51	1,933	0.9
	N	2,353	340	340	340	2,353	340	2,353	1,868
2	ESTIMATE	33,536	0.045	0.51	39.6	746,085	11.32	51,776	24.5
	(SE)	2,313	0.003	0.03	2.3	32,843	0.38	2,175	1.0
	N	2,353	457	457	457	2,353	457	2,353	1,868
3	ESTIMATE	20,507	0.058	0.39	31.9	412,093	6.80	35,915	17.0
	(SE)	1,796	0.005	0.04	2.6	20,620	0.21	1,877	0.9
	N	2,353	317	317	317	2,353	317	2,353	1,868
4	ESTIMATE	22,772	0.052	0.40	33.9	408,365	7.75	41,126	19.4
	(SE)	1,805	0.004	0.03	2.5	20,629	0.28	1,986	0.9
	N	2,353	363	363	363	2,353	363	2,353	1,868
5	ESTIMATE	30,250	0.046	0.54	39.1	604,992	11.87	44,299	20.9
	(SE)	2,291	0.003	0.04	2.5	30,634	0.48	2,046	0.9
	N	2,353	391	391	391	2,353	391	2,353	1,868

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	115,513	0.048	0.49	37.9	2,300,018	10.36	222,060	83.3
	(SE)	3,885	0.002	0.02	1.1	45,487	0.18	2,050	0.8
	N	2,353	1,960	1,960	1,960	2,353	1,960	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	27,644	0.040	0.55	35.9	625,166	13.76	38,521	18.2
	(SE)	2,591	0.004	0.05	2.6	34,579	0.51	1,933	0.9
	N	2,353	340	340	340	2,353	340	2,353	1,868
2	ESTIMATE	27,417	0.036	0.41	29.5	681,474	11.32	51,776	24.5
	(SE)	2,364	0.005	0.04	2.1	3,302	0.38	2,175	1.0
	N	2,353	457	457	457	2,353	457	2,353	1,868
3	ESTIMATE	12,349	0.029	0.20	17.0	339,547	6.80	35,915	17.0
	(SE)	1,570	0.004	0.03	2.1	18,538	0.21	1,877	0.9
	N	2,353	317	317	317	2,353	317	2,353	1,868
4	ESTIMATE	17,901	0.039	0.31	25.1	413,983	7.75	41,126	19.4
	(SE)	1,894	0.004	0.03	2.3	22,178	0.28	1,986	0.9
	N	2,353	363	363	363	2,353	363	2,353	1,868
5	ESTIMATE	26,398	0.041	0.48	34.5	620,974	11.87	44,299	20.9
	(SE)	2,333	0.003	0.04	2.4	33,745	0.48	2,046	0.9
	N	2,353	391	391	391	2,353	391	2,353	1,868
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	92,223	0.038	0.39	28.4	2,300,018	10.36	222,060	83.3
	(SE)	3,952	0.002	0.02	1.0	45,487	0.18	2,050	0.8
	N	2,353	1,960	1,960	1,960	2,353	1,960	2,353	2,353

TABLE 23. EXPANDED STATEWIDE SUMMARY OF **TOTAL DEER** HUNTING IN VIRGINIA DURING THE 1997-98 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
STATEWIDE	ESTIMATE	311,677	0.078	1.29	60.2	3,875,962	16.66	232,710	87.3
	(SE)	8,316	0.002	0.03	1.1	74,682	0.29	1,831	0.7
	N	2,353	2,054	2,054	2,054	2,353	2,054	2,353	2,353

TABLE 24. EXPANDED STATEWIDE SUMMARY OF **TOTAL DEER (BUCKS)** HUNTING IN VIRGINIA DURING THE 1997-98 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
STATEWIDE	ESTIMATE	175,382	0.044	0.73	47.0	3,875,962	16.66	232,710	87.3
	(SE)	5,170	0.001	0.02	1.1	74,682	0.29	1,831	0.7
	N	2,353	2,054	2,054	2,054	2,353	2,054	2,353	2,353

TABLE 25. EXPANDED STATEWIDE SUMMARY OF **TOTAL DEER (DOES)** HUNTING IN VIRGINIA DURING THE 1997-98 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
STATEWIDE	ESTIMATE	136,295	0.034	0.56	36.6	3,875,962	16.66	232,710	87.3
	(SE)	4,947	0.001	0.02	1.1	74,682	0.29	1,831	0.7
	N	2,353	2,054	2,054	2,054	2,353	2,054	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	6,845	0.073	0.46	35.8	9,629	6.28	9,397	15.1
	(SE)	1,073	0.012	0.07	5.4	1,354	0.73	1,026	1.6
	N	2,353	81	81	81	2,353	81	2,353	535
2	ESTIMATE	9,629	0.065	0.41	28.7	132,723	6.32	16,590	26.7
	(SE)	1,354	0.009	0.06	3.8	13,338	0.51	1,345	1.9
	N	2,353	143	143	143	2,353	143	2,353	535
3	ESTIMATE	6,033	0.042	0.22	18.5	102,210	5.17	14,386	23.2
	(SE)	977	0.008	0.04	3.5	10,403	0.39	1,258	1.8
	N	2,353	124	124	124	2,353	124	2,353	535
4	ESTIMATE	6,497	0.053	0.31	23.7	93,393	5.82	11,254	18.1
	(SE)	1,042	0.009	0.06	4.3	10,898	0.57	1,119	1.7
	N	2,353	97	97	97	2,353	97	2,353	535
5	ESTIMATE	6,613	0.080	0.39	27.8	78,427	4.84	10,441	16.8
	(SE)	1,158	0.016	0.08	4.7	9,511	0.51	1,080	1.6
	N	2,353	90	90	90	2,353	90	2,353	535

									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	24,812	0.061	0.35	26.0	408,761	5.68	71,952	24.6
	(SE)	2,236	0.004	0.02	1.8	20,756	0.21	2,426	0.9
	N	2,353	580	580	580	2,353	580	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	6,798	0.098	0.36	31.9	64,919	3.67	8,157	11.3
	(SE)	1,004	0.018	0.07	5.5	7,340	0.48	947	1.3
	N	2,353	72	72	72	2,353	72	2,353	637
2	ESTIMATE	12,123	0.077	0.41	30.5	140,600	5.27	20,053	27.8
	(SE)	1,521	0.011	0.06	3.5	12,218	0.41	1,450	1.8
	N	2,353	177	177	177	2,353	177	2,353	637
3	ESTIMATE	9,290	0.063	0.30	22.1	117,374	4.72	17,448	24.2
	(SE)	1,247	0.010	0.05	3.4	9,850	0.32	1,359	1.7
	N	2,353	154	154	154	2,353	154	2,353	637
4	ESTIMATE	6,458	0.042	0.19	17.5	96,981	4.56	13,595	18.8
	(SE)	972	0.009	0.04	3.5	8,799	0.34	1,209	1.6
	N	2,353	120	120	120	2,353	120	2,353	637
5	ESTIMATE	7,817	0.057	0.32	26.3	107,065	5.58	12,916	17.9
	(SE)	1,093	0.010	0.05	4.1	10,446	0.49	1,180	1.5
	N	2,353	114	114	114	2,353	114	2,353	637
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	28,437	0.064	0.30	24.4	386,905	4.77	81,120	30.4
	(SE)	2,127	0.005	0.02	1.6	18,338	0.17	2,529	0.9
	N	2,353	716	716	716	2,353	716	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	4,759	0.055	0.35	30.1	81,346	6.34	9,404	15.4
	(SE)	842	0.010	0.06	5.1	10,521	0.73	1,014	1.6
	N	2,353	83	83	83	2,353	83	2,353	539
2	ESTIMATE	8,724	0.062	0.42	27.8	137,768	6.78	17,108	28.0
	(SE)	1,353	0.009	0.07	3.7	13,641	0.53	1,347	1.9
	N	2,353	151	151	151	2,353	151	2,353	539
3	ESTIMATE	4,079	0.038	0.20	18.9	93,469	5.19	13,822	22.6
	(SE)	747	0.007	0.04	3.6	9,977	0.44	1,219	1.8
	N	2,353	122	122	122	2,353	122	2,353	539
4	ESTIMATE	3,512	0.031	0.18	15.3	86,558	5.84	11,103	18.2
	(SE)	740	0.008	0.05	3.7	10,012	0.55	1,098	1.7
	N	2,353	98	98	98	2,353	98	2,353	539
5	ESTIMATE	5,551	0.082	0.44	28.2	72,849	5.31	9,630	15.8
	(SE)	1,014	0.014	0.08	4.9	8,634	0.49	1,026	1.6
	N	2,353	85	85	85	2,353	85	2,353	539
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	21,186	0.053	0.31	23.7	384,979	5.87	65,598	24.6
	(SE)	1,903	0.004	0.03	1.8	20,783	0.24	2,368	0.9
	N	2,353	579	579	579	2,353	579	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	0	0.000	0.00	0.0	15,522	8.50	453	2.9
	(SE)	0	0.000	0.00	0.0	4,977	7.17	226	1.4
	N	2,353	4	4	4	2,353	4	2,353	137
2	ESTIMATE	113	0.009	0.05	4.8	24,472	5.38	2,379	15.3
	(SE)	113	0.009	0.05	4.8	5,332	1.19	517	3.1
	N	2,353	21	21	21	2,353	21	2,353	137
3	ESTIMATE	0	0.000	0.00	0.0	30,816	5.45	3,512	22.6
	(SE)	0	0.000	0.00	0.0	5,948	0.95	627	3.6
	N	2,353	31	31	31	2,353	31	2,353	137
4	ESTIMATE	113	0.003	0.02	1.5	56,988	6.06	7,478	48.2
	(SE)	113	0.003	0.02	1.5	9,035	0.84	908	4.3
	N	2,353	66	66	66	2,353	66	2,353	137
5	ESTIMATE	227	0.012	0.07	6.7	21,300	5.67	1,699	10.9
	(SE)	160	0.013	0.07	6.7	4,968	1.46	437	2.7
	N	2,353	15	15	15	2,353	15	2,353	137
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	453	0.003	0.02	1.8	102,419	5.55	18,467	6.9
	(SE)	226	0.002	0.01	1.1	11,836	0.49	1,396	0.5
	N	2,353	163	163	163	2,353	163	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	157,141	1.741	13.14	83.0	80,553	7.55	9,970	57.5
	(SE)	26,243	0.176	1.99	4.0	11,681	0.82	1,043	4.0
	N	2,353	88	88	88	2,353	88	2,353	153
2	ESTIMATE	25,832	1.136	5.26	73.7	15,295	4.63	2,153	12.4
	(SE)	6,919	0.144	1.22	10.4	4,263	0.91	492	2.7
	N	2,353	19	19	19	2,353	19	2,353	153
3	ESTIMATE	18,580	1.200	9.00	100.0	8,724	7.50	453	2.6
	(SE)	6,383	0.592	3.51	0.0	3,652	2.66	226	1.3
	N	2,353	4	4	4	2,353	4	2,353	153
4	ESTIMATE	19,827	0.940	7.83	66.7	10,990	8.33	680	3.9
	(SE)	6,524	0.280	2.87	21.1	4,034	2.03	277	1.6
	N	2,353	6	6	6	2,353	6	2,353	153
5	ESTIMATE	37,501	0.919	5.64	94.4	30,363	6.14	4,079	23.5
	(SE)	7,876	0.122	0.90	3.9	6,978	1.17	675	3.4
	N	2,353	36	36	36	2,353	36	2,353	153
									PERCENT OF TOTAL
STATEWIDE	ESTIMATE	200,873	1.449	9.90	83.2	124,625	6.83	18,241	6.8
	(SE)	27,150	0.122	1.16	3.0	13,860	0.56	1,388	0.5
	N	2,353	161	161	161	2,353	161	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	55,628	0.571	4.31	55.7	80,553	7.55	9,970	57.5
	(SE)	10,712	0.083	0.74	5.3	11,681	0.82	1,043	4.0
	N	2,353	88	88	88	2,353	88	2,353	153
2	ESTIMATE	10,083	0.386	1.79	57.9	15,295	4.63	2,153	12.4
	(SE)	3,319	0.085	0.50	11.6	4,263	0.91	492	2.7
	N	2,353	19	19	19	2,353	19	2,353	153
3	ESTIMATE	8,271	0.600	4.50	100.0	8,724	7.50	453	2.6
	(SE)	3,226	0.216	1.26	0.0	3,652	2.66	226	1.3
	N	2,353	4	4	4	2,353	4	2,353	153
4	ESTIMATE	9,064	0.500	4.17	66.7	10,990	8.33	680	3.9
	(SE)	3,428	0.246	1.83	21.1	4,034	2.03	277	1.6
	N	2,353	6	6	6	2,353	6	2,353	153
5	ESTIMATE	16,201	0.398	2.44	63.9	30,363	6.14	4,079	23.5
	(SE)	3,913	0.082	0.47	8.1	6,978	1.17	675	3.4
	N	2,353	36	36	36	2,353	36	2,353	153
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	74,322	0.522	3.57	58.4	124,625	6.83	18,241	6.8
	(SE)	11,217	0.056	0.44	3.9	13,860	0.56	1,388	0.5
	N	2,353	161	161	161	2,353	161	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	21,073	0.220	1.66	37.5	80,553	7.55	9,970	57.5
	(SE)	3,931	0.037	0.31	5.2	11,681	0.82	1,043	4.0
	N	2,353	88	88	88	2,353	88	2,353	153
2	ESTIMATE	8,610	0.534	2.47	73.7	15,295	4.63	2,153	12.4
	(SE)	2,196	0.092	0.57	10.4	4,263	0.91	492	2.7
	N	2,353	19	19	19	2,353	19	2,353	153
3	ESTIMATE	3,739	0.133	1.00	50.0	8,724	7.50	453	2.6
	(SE)	1,427	0.090	0.58	28.9	3,652	2.66	226	1.3
	N	2,353	4	4	4	2,353	4	2,353	153
4	ESTIMATE	5,212	0.340	2.83	50.0	10,990	8.33	680	3.9
	(SE)	1,893	0.144	1.64	22.4	4,034	2.03	277	1.6
	N	2,353	6	6	6	2,353	6	2,353	153
5	ESTIMATE	12,349	0.362	2.22	58.3	30,363	6.14	4,079	23.5
	(SE)	2,867	0.059	0.50	8.3	6,978	1.17	675	3.4
	N	2,353	36	36	36	2,353	36	2,353	153
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	37,841	0.280	1.91	47.8	124,625	6.83	18,241	6.8
	(SE)	5,104	0.029	0.23	3.9	13,860	0.56	1,388	0.5
	N	2,353	161	161	161	2,353	161	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	15,522	0.182	1.38	25.0	80,553	7.55	9,970	57.5
	(SE)	3,888	0.038	0.35	4.6	11,681	0.82	1,043	4.0
	N	2,353	88	88	88	2,353	88	2,353	153
2	ESTIMATE	1,246	0.034	0.16	15.8	15,295	4.63	2,153	12.4
	(SE)	743	0.014	0.09	8.6	4,263	0.91	492	2.7
	N	2,353	19	19	19	2,353	19	2,353	153
3	ESTIMATE	1,133	0.067	0.50	50.0	8,724	7.50	453	2.6
	(SE)	734	0.045	0.29	28.9	3,652	2.66	226	1.3
	N	2,353	4	4	4	2,353	4	2,353	153
4	ESTIMATE	1,133	0.040	0.33	33.3	10,990	8.33	680	3.9
	(SE)	734	0.019	0.21	21.1	4,034	2.03	277	1.6
	N	2,353	6	6.00	6	2,353	6	2,353	153
5	ESTIMATE	1,699	0.032	0.19	11.1	30,363	6.14	4,079	23.5
	(SE)	840	0.017	0.10	5.3	6,978	1.17	675	3.4
	N	2,353	36	36	36	2,353	36	2,353	153
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	17,108	0.125	0.85	24.8	124,625	6.83	18,241	6.8
	(SE)	3,921	0.026	0.20	3.4	13,860	0.56	1,388	0.5
	N	2,353	161	161	161	2,353	161	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	64,919	0.768	5.80	0.0	80,553	7.55	9,970	57.5
	(SE)	14,536	0.010	1.27	0	11,681	0.82	1,043	4.0
	N	2,353	88	88	88	2,353	88	2,353	153
2	ESTIMATE	5,891	0.182	0.84	21.1	15,295	4.63	2,153	12.4
	(SE)	3,631	0.097	0.51	9.6	4,263	0.91	492	2.7
	N	2,353	19	19	19	2,353	19	2,353	153
3	ESTIMATE	5,438	0.400	3.00	50.0	8,724	7.50	453	2.6
	(SE)	3,582	0.279	1.78	28.9	3,652	2.66	226	1.3
	N	2,353	4	4	4	2,353	4	2,353	153
4	ESTIMATE	4,419	0.060	0.50	33.3	10,990	8.33	680	3.9
	(SE)	3,457	0.035	0.34	21.1	4,034	2.03	277	1.6
	N	2,353	6	6	6	2,353	6	2,353	153
5	ESTIMATE	7,251	0.127	0.78	16.7	30,363	6.14	4,079	23.5
	(SE)	3,810	0.061	0.38	6.3	6,978	1.17	675	3.4
	N	2,353	36	36	36	2,353	36	2,353	153
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	71,603	0.523	3.57	35.4	124,625	6.83	18,241	6.8
	(SE)	14,692	0.093	0.73	3.8	13,860	0.56	1,388	0.5
	N	2,353	161	161	161	2,353	161	2,353	2,353

TABLE 20. EXPANDED STATEWIDE AND REGIONAL SUMMARIES OF GOOSE (SEPT.) HUNTING IN VIRGINIA DURING THE 1997-98 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	5,551	1.194	2.39	66.7	7,591	2.00	2,039	30.0
	(SE)	2,289	0.466	0.98	11.4	2,689	0.32	479	6.0
	N	2,353	18	18	18	2,353	18	2,353	60
2	ESTIMATE	1,586	0.889	1.60	60.0	4,532	1.80	566	8.3
	(SE)	751	0.475	0.93	24.5	2,486	0.49	253	0.0
	N	2,353	5	5	5	2,353	5	2,353	60
3	ESTIMATE	906	0.667	2.00	100.0	3,852	3.00	113	1.7
	(SE)	480	0.667	2.00	100.0	2,456	3.00	113	1.7
	N	2,353	1	1	1	2,353	1	2,353	60
4	ESTIMATE	3,965	1.182	3.71	42.9	6,005	3.14	793	11.7
	(SE)	2,163	0.672	2.42	20.2	2,638	0.55	299	4.2
	N	2,353	7	7	7	2,353	7	2,353	60
5	ESTIMATE	9,064	0.804	2.55	58.6	13,935	3.17	3,286	48.3
	(SE)	2,861	0.209	0.73	9.3	3,332	0.38	606	6.5
	N	2,353	29	29	29	2,353	29	2,353	60

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	18,354	0.824	2.37	58.2	21,866	2.88	7,591	2.8
	(SE)	4,253	0.176	0.48	6.1	3,709	0.35	914	0.3
	N	2,353	67	67	67	2,353	67	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	6,684	0.600	2.75	75.0	12,463	4.58	1,360	17.1
	(SE)	2,709	0.305	0.84	13.1	4,134	1.47	392	4.5
	N	2,353	12	12	12	2,353	12	2,353	70
2	ESTIMATE	5,098	0.950	2.71	57.1	8,497	2.86	793	10.0
	(SE)	2,514	0.195	1.13	20.2	3,386	0.96	299	3.6
	N	2,353	7	7	7	2,353	7	2,353	70
3	ESTIMATE	3,626	0.600	2.00	100.0	7,364	3.33	340	4.3
	(SE)	2,282	0.269	1.00	0.0	3,275	0.88	196	2.4
	N	2,353	3	3	3	2,353	3	2,353	70
4	ESTIMATE	6,005	0.540	3.00	77.8	11,896	5.56	1,020	12.9
	(SE)	2,569	0.214	0.80	14.7	3,997	1.55	339	4.0
	N	2,353	9	9	9	2,353	9	2,353	70
5	ESTIMATE	20,507	0.912	3.97	71.8	25,492	4.36	4,419	55.7
	(SE)	5,000	0.154	0.80	7.3	4,873	0.47	702	6.0
	N	2,353	39	39	39	2,353	39	2,353	70
STATEWIDE	ESTIMATE	30,137	0.739	3.37	67.1	40,786	4.56	8,950	3.4
	(SE)	5,512	0.117	0.49	5.3	6,141	0.47	990	0.4
	N	2,353	79	79	79	2,353	79	2,353	2,353

PERCENT OF TOTAL LICENSEES

TABLE 37. ESTIMATES STATEWIDE AND REGIONAL SUMMARIES OF RED FOX HUNTING IN VIRGINIA DURING THE 1997-98 HUNTING SEASON

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	6,118	0.176	1.10	60.0	16,881	6.25	2,266	19.2
	(SE)	1,115	0.069	0.29	11.2	5,391	1.86	505	3.9
	N	2,353	20	20	20	2,353	20	2,353	104
2	ESTIMATE	8,384	0.207	1.87	65.2	26,285	9.04	2,606	22.1
	(SE)	2,349	0.065	0.79	10.2	8,135	2.48	541	4.1
	N	2,353	23	23	23	2,353	23	2,353	104
3	ESTIMATE	4,985	0.176	1.25	58.3	12,349	7.08	1,360	11.5
	(SE)	1,184	0.073	0.64	14.9	4,614	2.60	392	3.1
	N	2,353	12	12	12	2,353	12	2,353	104
4	ESTIMATE	8,271	0.183	1.69	50.0	29,910	9.23	2,946	25.0
	(SE)	2,319	0.072	0.69	10.0	9,578	2.71	575	4.3
	N	2,353	26	26	26	2,353	26	2,353	104
5	ESTIMATE	9,743	0.097	1.09	43.5	31,836	11.17	2,606	22.1
	(SE)	3,450	0.045	0.39	10.6	10,870	3.50	541	4.1
	N	2,353	23	23	23	2,353	23	2,353	104
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	24,359	0.165	1.40	55.9	106,385	8.46	12,576	4.7
	(SE)	4,839	0.031	0.26	4.7	17,722	1.18	1,165	0.4
	N	2,353	111	111	111	2,353	111	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	13,142	0.587	4.79	47.4	20,620	8.16	2,153	23.8
	(SE)	5,017	0.229	2.08	11.8	6,092	2.05	492	4.8
	N	2,353	19	19	19	2,353	19	2,353	80
2	ESTIMATE	10,650	0.311	3.14	63.6	28,211	10.09	2,493	27.5
	(SE)	3,919	0.098	1.42	10.5	8,291	2.52	529	5.0
	N	2,353	22	22	22	2,353	22	2,353	80
3	ESTIMATE	3,286	0.143	0.91	54.5	10,990	6.36	1,246	13.8
	(SE)	953	0.082	0.37	15.7	4,474	2.88	375	3.9
	N	2,353	11	11	11	2,353	11	2,353	80
4	ESTIMATE	7,591	0.245	3.13	40.0	24,812	12.80	1,699	18.8
	(SE)	3,263	0.108	1.74	13.1	9,352	4.46	437	4.4
	N	2,353	15	15	15	2,353	15	2,353	80
5	ESTIMATE	4,759	0.257	1.38	61.5	10,990	5.38	1,473	16.3
	(SE)	1,216	0.091	0.49	14.0	3,435	1.48	407	4.2
	N	2,353	13	13	13	2,353	13	2,353	80
									PERCENT OF TOTAL
STATEWIDE	ESTIMATE	30,816	0.326	2.82	51.8	83,386	8.66	9,630	LICENSEES 3.6
	(SE)	7,135	0.066	0.68	5.5	14,578	1.21	1,026	0.4
	N	2,353	85	85	85	2,353	85	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	227	0.200	0.50	50.0	1,699	2.50	227	5.1
	(SE)	160	0.113	0.50	50.0	1,204	0.50	160	3.6
	N	2,353	2	2	2	2,353	2	2,353	39
2	ESTIMATE	227	0.125	0.25	25.0	2,039	2.00	453	10.3
	(SE)	160	0.147	0.25	25.0	1,230	0.41	226	4.9
	N	2,353	4	4	4	2,353	4	2,353	39
3	ESTIMATE	2,719	0.117	0.71	54.2	17,561	6.04	2,719	61.5
	(SE)	658	0.039	0.15	10.4	5,031	1.35	552	7.9
	N	2,353	24	24	24	2,353	24	2,353	39
4	ESTIMATE	680	0.052	0.71	28.6	12,009	13.71	793	17.9
	(SE)	424	0.047	0.47	18.4	7,223	7.95	299	6.2
	N	2,353	7	7	7	2,353	7	2,353	39
5	ESTIMATE	340	0.500	1.00	50.0	1,586	2.00	227	5.1
	(SE)	253	0.530	1.00	50.0	1,188	1.00	160	3.6
	N	2,353	2	2	2	2,353	2	2,353	39
									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	3,739	0.097	0.65	45.0	30,363	6.70	4,532	1.7
	(SE)	821	0.032	0.13	8.0	8,748	1.64	711	0.3
	N	2,353	40	40	40	2,353	40	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	28,211	0.420	7.85	100.0	61,066	18.69	1,473	13.7
	(SE)	10,958	0.252	2.25	0.0	22,623	11.03	407	3.5
	N	2,353	13	13	13	2,353	13	2,353	95
2	ESTIMATE	44,639	0.575	9.11	81.5	82,026	15.85	3,059	28.4
	(SE)	12,812	0.098	2.01	7.6	19,407	3.00	585	4.7
	N	2,353	27	27	27	2,353	27	2,353	95
3	ESTIMATE	56,535	0.496	12.43	92.9	112,956	25.04	3,172	29.5
	(SE)	13,887	0.097	1.99	5.0	24,388	4.10	596	4.7
	N	2,353	28	28	28	2,353	28	2,353	95
4	ESTIMATE	39,880	0.564	13.27	86.7	73,529	23.53	1,699	15.8
	(SE)	12,737	0.098	3.18	9.1	19,269	4.54	437	3.8
	N	2,353	15	15	15	2,353	15	2,353	95
5	ESTIMATE	30,930	0.422	11.08	75.0	69,224	26.25	1,360	12.6
	(SE)	11,907	0.115	3.74	13.1	21,310	9.04	392	3.4
	N	2,353	12	12	12	2,353	12	2,353	95

									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	136,748	0.497	10.74	84.3	264,659	21.63	12,236	4.6
	(SE)	19,457	0.057	1.22	3.5	38,044	2.36	1,150	0.4
	N	2,353	108	108	108	2,353	108	2,353	2,353

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	1,133	0.089	2.00	50.0	7,477	22.50	227	4.4
	(SE)	531	0.042	2.00	50.0	4,124	7.50	160	3.1
	N	2,353	2	2	2	2,353	2	2,353	45
2	ESTIMATE	1,699	0.049	0.53	41.2	23,112	10.76	1,926	37.8
	(SE)	493	0.016	0.17	12.3	7,083	2.54	466	7.3
	N	2,353	17	17	17	2,353	17	2,353	45
3	ESTIMATE	1,473	0.250	0.86	28.6	5,098	3.43	793	15.6
	(SE)	566	0.139	0.55	18.4	1,976	0.72	299	5.5
	N	2,353	7	7	7	2,353	7	2,353	45
4	ESTIMATE	2,493	0.039	0.13	13.3	8,157	3.40	1,699	33.3
	(SE)	1,618	0.028	0.09	9.1	2,414	0.62	437	7.1
	N	2,353	15	15	15	2,353	15	2,353	45
5	ESTIMATE	793	0.167	0.25	25.0	3,059	1.50	453	8.9
	(SE)	299	0.187	0.25	25.0	1,645	0.29	226	4.3
	N	2,353	4	4	4	2,353	4	2,353	45

									PERCENT OF TOTAL LICENSEES
STATEWIDE	ESTIMATE	4,872	0.067	0.46	27.1	37,387	6.88	5,438	2.0
	(SE)	1,800	0.018	0.13	6.5	8,305	1.18	777	0.3
	N	2,353	48	48	48	2,353	48	2,353	2,353

TABLE 42. EXPANDED STATEWIDE SUMMARY OF **TOTAL SQUIRREL** HUNTING IN VIRGINIA DURING THE 1997-98 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
STATEWIDE	ESTIMATE	1,229,033	1.538	11.30	91.0	749,452	7.35	101,966	38.2
	(SE)	53,469	0.059	0.42	1.0	38,957	0.33	2,671	1.0
	N	2,353	900	900	900	2,353	900	2,353	2,353

TABLE 43. EXPANDED STATEWIDE SUMMARY OF **TOTAL GOOSE** HUNTING IN VIRGINIA DURING THE 1997-98 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
STATEWIDE	ESTIMATE	48,490	0.774	3.86	67.6	62,653	4.98	12,576	4.7
	(SE)	8,013	0.101	0.53	4.5	8,356	0.48	1,165	0.4
	N	2,353	111	111	111	2,353	111	2,353	2,353

TABLE 44. (Q18) STATEWIDE AND REGIONAL SUMMARIES OF DAYS SPENT SCOUTING SELECTED SPECIES DURING THE 1997-98 SEASON (MEAN DAYS).

		REGIONS				
	STATEWIDE	1	2	3	4	5
DEER	5.16	3.67	4.15	7.30	7.02	5.03
SPRING TURKEYS	3.34	2.27	3.98	3.74	3.78	2.44
FALL TURKEYS	2.79	1.51	2.77	7.34	2.36	1.80
SQUIRRELS	1.22	0.94	1.42	1.95	1.08	0.91

TABLE 45. (Q19) PERCEPTIONS OF ALL HUNTERS REGARDING THE SIZE OF THE DEER HERD IN THE AREA THEY HUNTED, 1997-98.*

		REGIONS				
	STATEWIDE	1	2	3	4	5
	4.20	4.53	4.16	3.89	3.63	4.53

* MEAN SCORES, WHERE 1=LOW, 4=MODERATE, 7=HIGH

TABLE 46. (Q20) PERCEPTIONS OF ALL HUNTERS REGARDING TRENDS IN NUMBER OF DEER SEEN, 1997-98 (PCT).

		REGIONS				
	STATEWIDE	1	2	3	4	5
DECLINED DRAMATICALLY	6.6	3.6	7.0	8.1	10.6	3.5
DECLINED	24.6	22.8	29.7	24.8	28.8	21.3
REMAINED THE SAME	46.2	49.7	41.2	47.2	46.6	53.3
INCREASED	17.4	20.0	17.5	17.0	12.2	17.4
INCREASED DRAMATICALLY	1.8	1.1	1.9	1.2	1.3	2.2
NO OPINION	3.5	2.8	2.7	1.8	0.5	2.2

TABLE 47. (Q21) OPINIONS OF DEER (GUN) HUNTERS **REGARDING HOW TO MANAGE THE DEER HERD, 1997-98 (PCT).**

RESPONSE	STATEWIDE	REGIONS 1	2	3	4	5
INCREASE HERD	28.90	24.4	26.1	40.6	38.6	20.4
STABILIZE HERD	45.0	48.8	54.3	40.4	43.4	46.9
DECREASE HERD	11.6	12.9	9.3	7.5	8.8	16.5
NO OPINION	14.5	13.9	10.3	11.5	9.2	16.1

TABLE 48. (Q22) PERCEPTIONS OF DEER HUNTERS REGARDING QUALITY OF **OVERALL MANAGEMENT OF DEER BY VDGIF.** *

STATEWIDE	REGIONS 1	2	3	4	5
4.39	4.67	4.54	4.17	3.91	4.84

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

TABLE 49. (Q23) **PERCEPTIONS OF DEER HUNTERS REGARDING HOW WELL VDGIF INCORPORATES PUBLIC INPUT INTO DEER MANAGEMENT DECISIONS.** *

STATEWIDE	REGIONS 1	2	3	4	5
3.75	4.13	3.87	3.35	3.44	3.92

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

TABLE 50. (Q24) STATEWIDE AND REGIONAL SUMMARIES OF **ARCHERY DEER HUNTER OPINIONS REGARDING URBAN/SUBURBAN ARCHERY SEASON.**

STATEWIDE	REGIONS 1	2	3	4	5
5.72	6.00	6.01	4.99	5.67	6.44

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

TABLE 51. (Q25) ARCHERY DEER HUNTERS WILLINGNESS TO **PARTICIPATE IN A SPECIAL 4-WEEK URBAN/SUBURBAN ARCHERY DEER HUNT (PCT).**

RESPONSE	STATEWIDE	REGIONS 1	2	3	4	5
YES	66.6	69.2	71.4	56.9	61.8	82.3
NO	12.0	14.6	7.4	16.7	11.8	3.8
NOT SURE	21.3	16.2	21.1	26.5	26.4	13.9

TABLE 52. (Q26) STATEWIDE AND REGIONAL SUMMARIES OF PROPORTION OF HUNTER **POPULATION WHO HAVE COMPLETED A HUNTER EDUCATION (SAFETY) TRAINING COURSE (PCT).**

RESPONSE	STATEWIDE	REGIONS 1	2	3	4	5
YES	54.4	53.2	55.0	53.8	62.0	57.6
NO	45.6	46.8	45.0	46.2	38.0	42.4

TABLE 53. (Q27) STATEWIDE AND REGIONAL SUMMARIES OF PROPORTION OF HUNTER **POPULATION USING VDGIF WILDLIFE MANAGEMENT AREAS DURING THE 1997-98 SEASON (PCT).**

RESPONSE	STATEWIDE	REGIONS 1	2	3	4	5
YES	20.3	15.2	22.4	25.4	26.9	18.2
NO	75.4	80.6	75.9	68.0	67.5	78.6
NOT SURE	4.3	4.2	1.7	6.6	5.6	3.2

TABLE 54. (Q28) HUNTERS' OPINIONS REGARDING A REQUIREMENT FOR HUNTER **SAFETY TRAINING PRIOR TO HUNTING ON A WMA (MEAN SCORES).***

STATEWIDE	REGIONS 1	2	3	4	5
5.25	5.36	5.23	5.24	5.39	5.27

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

TABLE 55. (Q29) STATEWIDE AND REGIONAL SUMMARIES REGARDING QUAIL HUNTER PREFERENCES FOR QUAIL SEASON OPENING DATE OPTIONS.

DATE	STATEWIDE	REGIONS 1	2	3	4	5
2ND MON. IN NOV.	5.21	5.27	5.87	4.00	3.83	5.18
4TH MON. IN NOV.	3.53	3.89	2.92	4.23	3.09	3.66

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

TABLE 56. (Q31) PERCEPTIONS OF FALL TURKEY HUNTERS REGARDING OVERALL QUALITY OF 1997 FALL TURKEY SEASON. *

STATEWIDE	REGIONS 1	2	3	4	5
4.08	4.20	4.56	3.99	3.90	3.91

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

TABLE 57. (Q32) STATEWIDE AND REGIONAL SUMMARIES OF SPRING 1998 TURKEY HUNTERS WHO HUNTED ON OPENING DAY (PCT).

RESPONSE	STATEWIDE	REGIONS 1	2	3	4	5
YES	73.7	78.6	78.9	70.9	79.2	64.3
NO	26.3	21.4	21.1	29.1	20.8	35.7

TABLE 58. (Q33) STATEWIDE AND REGIONAL SUMMARIES OF DISTRIBUTION OF SPRING TURKEY HUNTING ACROSS 1998 SPRING SEASON (MEAN DAYS).

RESPONSE	STATEWIDE	REGIONS 1	2	3	4	5
FIRST WEEK (EXCLUDING OPENING DAY)	1.84	1.81	1.95	1.93	2.00	1.80
SECOND WEEK	1.51	1.24	1.73	1.44	1.62	1.54
REST OF SEASON (WEEKS 3-5)	2.46	2.64	3.05	1.89	3.05	2.12

TABLE 59. (Q34) PERCEPTIONS OF SPRING TURKEY HUNTERS REGARDING **OVERALL QUALITY OF THE 1998 SPRING TURKEY SEASON.***

		REGIONS				
	STATEWIDE	1	2	3	4	5
	4.29	4.34	4.52	4.29	3.91	4.27

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

TABLE 60. (Q35) PERCENTAGE OF **BEAR HUNTERS UTILIZING SELECTED METHODS/SEASONS (PCT).**

		REGIONS				
RESPONSE	STATEWIDE	1	2	3	4	5
ARCHERY SEASON	40.4	0.00	18.2	62.5	42.6	13.3
GUN W/O DOGS	86.7	100.0	69.2	67.7	86.1	100.0
GUN USING DOGS	41.8	0.0	42.9	47.4	48.2	33.3

TABLE 61. (Q36) OPINIONS OF GUN DEER HUNTERS REGARDING THE **APPROPRIATE POLICY FOR DAILY BAG LIMIT.**

		REGIONS				
RESPONSE	STATEWIDE	1	2	3	4	5
1 DEER PER DAY	4.50	3.81	3.93	5.01	5.38	3.96
2 DEER PER DAY	4.92	5.76	5.21	4.59	4.18	5.27
3 DEER PER DAY	2.39	2.83	2.53	1.89	1.92	2.77
UNLIMITED (WITHIN SEASONAL LIMIT)	2.31	2.43	2.52	1.95	1.79	2.66

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

TABLE 62. (Q37) OPINIONS OF GUN DEER HUNTERS REGARDING THE **APPROPRIATE POLICY FOR YEARLY ANTLERED BUCK LIMITS.***

RESPONSE	STATEWIDE	REGIONS 1	2	3	4	5
1 ANTLERED BUCK	3.26	2.74	2.68	3.69	4.04	3.01
2 ANTLERED BUCKS	5.07	5.06	4.93	5.47	5.20	5.17
3 ANTLERED BUCKS	3.90	4.31	4.36	3.48	3.11	4.02
UNLIMITED ANTLERED BUCKS (WITHIN SEASONAL LIMIT)	2.22	2.35	2.54	1.90	1.55	2.47

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

TABLE 63. (Q38) OPINIONS OF GUN DEER HUNTERS REGARDING **QUALITY DEER MANAGEMENT HUNTING REGULATIONS.***

RESPONSE	STATEWIDE	REGIONS 1	2	3	4	5
REGULATIONS MAKING IT ILLEGAL TO KILL BUCKS WITH LESS THAN 7 ANTLER POINTS	2.46	2.18	2.42	2.38	2.75	2.27
MORE EITHER-SEX DAYS DURING THE GENERAL FIREARMS SEASON	5.03	5.56	5.21	4.91	4.56	5.43

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

TABLE 64. (Q39) STATEWIDE AND REGIONAL SUMMARIES OF DEER HUNTERS PURCHASING **BONUS DEER PERMITS DURING THE 1997-98 DEER SEASON (PCT).**

RESPONSE	STATEWIDE	REGIONS 1	2	3	4	5
YES	18.2	18.4	16.7	16.0	18.6	19.5
NO	81.8	81.6	83.3	84.0	81.4	80.5

TABLE 65. (Q40) OPINIONS OF GUN DEER HUNTERS REGARDING PREFERENCES FOR TYPES OF TAGS INCLUDED WITH BONUS DEER PERMITS.*

RESPONSE	STATEWIDE	REGIONS 1	2	3	4	5
1 EITHER-SEX TAG AND 1 ANTLERLESS-ONLY TAG	5.25	5.66	5.43	5.19	4.73	5.45
2 ANTLERLESS-ONLY TAGS	3.46	3.35	3.46	3.34	3.39	3.78

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

TABLE 66. (Q41) OPINIONS OF GUN DEER HUNTERS REGARDING THE REASONS THEY PURCHASED (OR WOULD PURCHASE) BONUS DEER PERMITS.*

RESPONSE	STATEWIDE	REGIONS 1	2	3	4	5
MORE TAGS THAN CAME WITH BIG GAME LICENSE	4.27	4.78	4.52	4.00	3.75	4.33
HARVEST MORE DOES	4.26	4.52	4.20	3.92	3.90	4.73
HARVEST MORE BUCKS	4.13	4.28	4.58	3.89	3.55	4.27
HELP PRIVATE LANDOWNERS WITH DEER DAMAGE	5.24	5.54	5.12	5.17	5.02	5.44
SAVE BIG GAME TAGS TO USE ON PUBLIC LAND	3.71	3.60	3.64	3.84	3.68	3.64

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

TABLE 67. (Q42) OPINIONS OF GUN DEER HUNTERS REGARDING THE APPROPRIATE NUMBER OF BONUS DEER PERMITS HUNTERS MAY PURCHASE.*

RESPONSE	STATEWIDE	REGIONS 1	2	3	4	5
HUNTERS SHOULD ONLY BE ALLOWED TO BUY 1 SET OF BONUS DEER TAGS	5.11	4.75	5.02	5.73	5.33	4.70
HUNTERS SHOULD BE ALLOWED TO BUY AN UNLIMITED NUMBER OF BONUS DEER TAGS	2.81	3.53	2.94	2.13	2.11	3.35

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

TABLE 68. (Q 43) STATEWIDE AND REGIONAL SUMMARIES OF AVERAGE SEASONAL HARVEST OF BUTTON BUCKS DURING 1997-98 SEASON.

STATEWIDE	REGIONS 1	2	3	4	5
0.151	0.159	0.145	0.157	0.116	0.151

TABLE 69. (Q44) MEAN NUMBER OF **ANIMALS SEEN BY ARCHERY DEER HUNTERS** IN 1997-98 **BY REGION.**

		REGIONS				
SPECIES	STATEWIDE	1	2	3	4	5
BEAR	0.176	0.011	0.108	0.208	0.412	0.092
BOBCAT	0.192	0.196	0.238	0.322	0.107	0.108
RED FOX	1.267	0.804	0.985	0.839	1.481	2.283
GRAY FOX	1.208	1.750	1.638	0.631	0.611	1.875
MINK	0.041	0.043	0.023	0.060	0.046	0.025
WEASEL	0.005	0.000	0.008	0.000	0.015	0.000
RACCOON	1.991	2.663	1.677	2.544	1.214	2.217
COYOTE	0.270	0.033	0.162	0.490	0.183	0.540
RIVER OTTER	0.188	0.533	0.254	0.007	0.092	0.225
TURKEY	13.972	10.924	14.331	19.257	13.462	11.297
GROUSE	2.646	0.467	0.869	5.081	3.580	2.192

TABLE 70. (Q46) PERCEPTIONS OF DEER HUNTERS REGARDING **OVERALL QUALITY OF GUN DEER HUNTING DURING 1997-98.** *

		REGIONS				
	STATEWIDE	1	2	3	4	5
	3.96	4.24	4.09	3.78	3.62	4.3

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

TABLE 71. (Q47) OPINIONS OF **GUN - DEER** HUNTERS REGARDING THE **APPROPRIATE POLICY REGARDING DOE DAYS (PCT).**

		REGIONS				
RESPONSE	STATEWIDE	1	2	3	4	5
INCREASE DAYS	41.0	47.8	38.4	44	34.2	45.9
KEEP DAYS THE SAME	43.9	40.7	48.7	38.3	44.7	43.7
DECREASE DAYS	12.6	9.1	11.4	17.0	17.4	7.5
NO OPINION	2.5	2.4	1.5	0.7	3.6	3.0

TABLE 72. (Q48) STATEWIDE AND REGIONAL DISTRIBUTION OF **GUN DEER HUNTING ACROSS EIGHT TYPES OF LAND DURING THE 1997-98 HUNTING SEASON (PCT).**

		REGIONS				
TYPE	STATEWIDE	1	2	3	4	5
VDGIF WMA	3.29	2.13	2.96	3.37	4.94	3.28
NAT'L FORESTS	11.78	2.07	4.42	28.3	33.79	2.84
PRIVATE LAND	50.77	35.95	50.36	58.6	51.83	59.2
CORPORATE LAND	2.60	2.07	4.08	2.86	1.22	1.69
HUNT CLUB - PVT. LAND	19.69	33.72	24.71	4.74	5.66	20.64
HUNT CLUB - CORP. LAND	8.56	20.35	11.31	0.54	0.98	5.54
MILITARY LAND	2.20	2.85	0.7	0.05	0.98	5.59
OTHER	1.10	0.85	1.49	0.91	0.59	1.23

TABLE 73. (Q49) STATEWIDE AND REGIONAL DISTRIBUTION OF **HUNTERS THAT USED A SCOPE ON A MUZZLELOADER DURING THE 1997-98 MUZZLELOADER SEASON (PCT).**

		REGIONS				
RESPONSE	STATEWIDE	1	2	3	4	5
YES	56.9	54.1	55.6	58.2	56.4	59.0
NO	43.1	45.9	44.4	41.3	43.6	41.0

TABLE 74. (Q50-55) SELECTED **DEMOGRAPHICS OF ALL RESPONDENTS.**

DEMOGRAPHIC	RESPONSE
AGE (MEAN YEARS)	42.57
MARITAL STATUS (PCT)	
NEVER MARRIED	13.6
MARRIED	76.6
DIVORCED	7.8
SEPARATED	1.5
WIDOWED	0.6
AGE WHEN FIRST HUNTED	12.52
GENDER (PCT)	
MALE	96.6
FEMALE	3.4
HAVE CHILDREN? (PCT)	
NO	23.0
YES (CHILDREN HUNT)	47.8
YES (CHILDREN DO NOT HUNT)	52.2
# OF CHILDREN LIVING AT HOME (MEAN)	1.79

TABLE 75. (Q56) RESPONSES OF HUNTERS REGARDING THE PERSON WHO TAUGHT THEM HOW TO HUNT (PCT).

PERSON	RESPONSE
FATHER	59.1
SPOUSE	0.9
MOTHER	0.2
UNCLE/AUNT	5.7
BROTHER/SISTER	3.5
GRANDPARENT	4.8
FRIEND	12.7
LEARNED ON OWN	13

TABLE 76. (Q57-58) PERCEPTIONS OF HUNTERS REGARDING PARENTS' ATTITUDES TOWARD HUNTING (PCT).

ATTITUDE	FATHER	MOTHER
PERSONALLY HUNTED	65.0	3.8
DID NOT HUNT, BUT APPROVED OF HUNTING	22.0	72.6
TOLERATED MY INTEREST IN HUNTING	4.9	14.7
DISCOURAGED MY INTEREST IN HUNTING	0.5	2.1
FORBID ME TO HUNT	0.3	0.7
DO NOT KNOW	7.2	6.1

TABLE 77. (Q59) PERCEPTIONS OF HUNTERS **REGARDING SPOUSE'S ATTITUDES TOWARD HUNTING (PCT).**

ATTITUDE	RESPONSE
SPOUSE IS A HUNTER	6.9
DOES NOT HUNT, BUT APPROVES OF HUNTING	57.5
TOLERATES MY INTEREST IN HUNTING	18.8
DISCOURAGES MY INTEREST IN HUNTING	1.5
DO NOT KNOW	0.4
NOT MARRIED	14.8

TABLE 78. (Q60) PERCEPTIONS OF HUNTERS **REGARDING CLOSEST FRIEND'S ATTITUDE TOWARD HUNTING (PCT).**

ATTITUDE	RESPONSE
PERSONALLY HUNTS	86.3
DOES NOT HUNT, BUT APPROVES OF HUNTING	8.7
TOLERATES MY INTEREST IN HUNTING	2.2
DISCOURAGES MY INTEREST IN HUNTING	0.1
DO NOT KNOW	2.7

TABLE 79. (Q61-62) STATEWIDE SUMMARY OF CURRENT AND CHILDHOOD **RESIDENCES OF ALL HUNTERS, 1997-98 (PCT).**

TYPE OF RESIDENCE	CURRENT RESIDENCE	CHILDHOOD RESIDENCE
FARM	19.7	28.4
RURAL, BUT NOT FARM	39.2	35.3
TOWN (LESS THAN 50,000 POP.)	15.9	16.3
URBAN CITY (OVER 50,000 POP.)	10.7	10.4
SUBURBAN (ADJACENT TO CITY OVER 50,000 POP.)	14.6	9.5

TABLE 80. (Q63-64) STATEWIDE SUMMARY OF **HUNTERS OWNING LAND FOR HUNTING, 1997-98.**

RESPONSE	STATEWIDE	REGIONS 1	2	3	4	5
OWN LAND? (PCT)						
YES	31.4	28.6	35.2	30.1	32	28.8
NO	68.6	71.4	64.8	69.9	68	71.2
NUMBER OF ACRES (MEAN)	93.38	92.99	105.19	77.97	103.08	92.07

References

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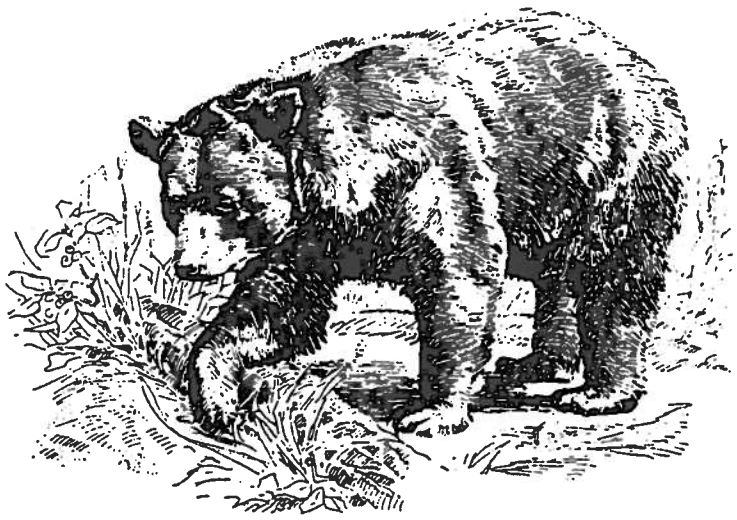
Appendix

1997-98

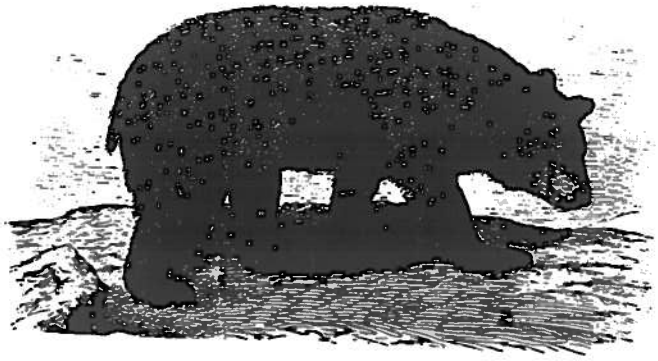
Virginia Hunter Survey



Virginia Department of Game and Inland Fisheries
and George Mason University

VIRGINIA DEPARTMENT OF GAME AND INLAND FISHERIES

HUNTER QUESTIONNAIRE



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

1. Did you purchase a Virginia resident hunting license for the 1997-98 hunting season (July 1, 1997 - June 30, 1998)?
   - ❑ 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 1997-98 hunting season.

INSTRUCTIONS:

- Put the number of animals you **harvested personally** in 1997-98 in each of the boxes below. Be as accurate as possible.
- Do not include game taken by anyone other than you.
- If you hunted an animal, but were unsuccessful, place a zero (0) in the space.
- If you did not hunt a particular animal, leave the space blank.

3. Small Game (Birds) Harvest:

Dove	Quail	Woodcock	Ruffed Grouse	Crow

4. Small Game (Mammals) Harvest:

Rabbit	Gray Squirrel	Fox Squirrel	Groundhog/ Woodchuck

5. Big Game Harvest:

Deer						Turkey			Bear
Archery		Muzzleloader		Gun		Spring 1997	Fall 1997	Spring 1998	
Bucks	Does	Bucks	Does	Bucks	Does				

6. Waterfowl Harvest:

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

7. Furbearer Harvest:

Red Fox	Gray Fox	Coyote	Raccoon	Bobcat

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

8. Small Game (Birds) Days Hunted:

Dove	Quail	Woodcock	Ruffed Grouse	Crow

9. Small Game (Mammals) Days Hunted:

Rabbit	Gray Squirrel	Fox Squirrel	Groundhog/ Woodchuck

10. Big Game Days Hunted:

Deer			Turkey			Bear
Archery	Muzzleloader	Gun	Spring '97	Fall, '97	Spring, '98	

11. Waterfowl Days Hunted:

Ducks	Geese	
	Sept. Season	Nov.-Mar. Season

12. Furbearer Days Hunted:

Red Fox	Gray Fox	Coyote	Raccoon	Bobcat

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

13. Small Game (Birds) Region Hunted:

Dove	Quail	Woodcock	Ruffed Grouse	Crow

14. Small Game (Mammals) Region Hunted:

Rabbit	Gray Squirrel	Fox Squirrel	Groundhog/ Woodchuck

15. Big Game Region Hunted:

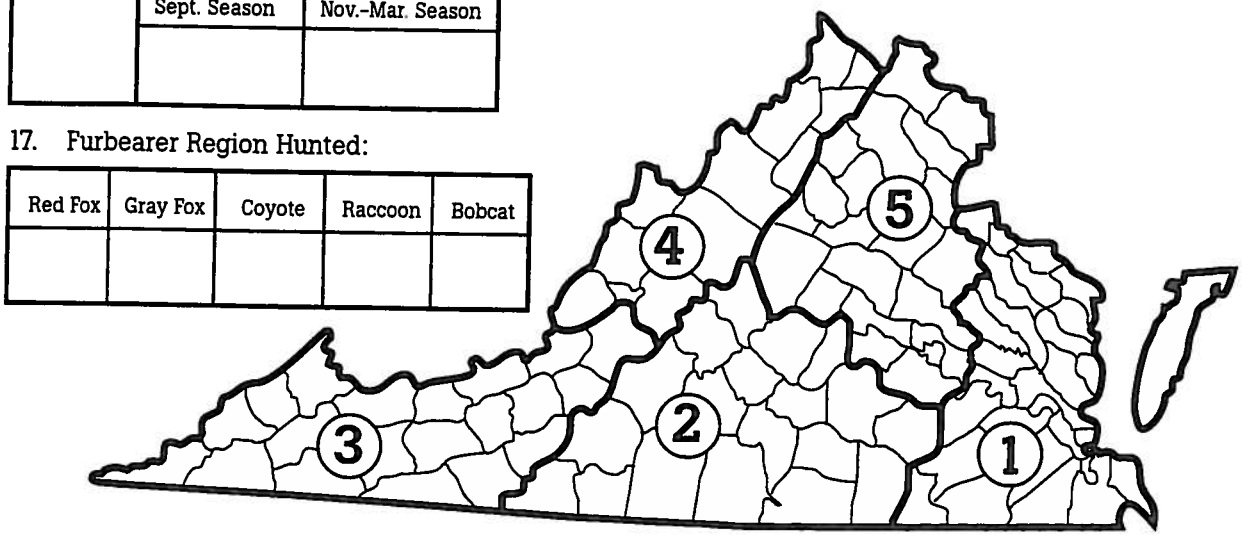
Deer			Turkey			Bear
Archery	Muzzleloader	Gun	Spring '97	Fall, '97	Spring, '98	

16. Waterfowl Region Hunted:

Ducks	Geese	
	Sept. Season	Nov.-Mar. Season

17. Furbearer Region Hunted:

Red Fox	Gray Fox	Coyote	Raccoon	Bobcat



18. How many days did you spend SCOUTING, prior to the opening of hunting seasons, for each of the following species?

a. deer _____ days
b. spring turkeys _____ days
c. fall turkeys _____ days
d. squirrels _____ days

The next few questions ask your views regarding managing DEER, regardless of the species you hunted.

19. How would you rate the size of the DEER HERD in the area in which you hunted most in 1997-98:

Low			Moderate			High	No Opinion
❑1	❑2	❑3	❑4	❑5	❑6	❑7	❑8

20. When compared to previous years, would you say the number of DEER in the area you hunted in 1997-98: (✔ Check only one).

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

21. What advice would you give the Department regarding how to manage the DEER HERD? (✔ Check only one).

❑ Increase the herd
❑ Stabilize the herd
❑ Decrease the herd
❑ No Opinion

22. Overall, how would you rate the management of DEER by the Department of Game and Inland Fisheries?

Poor			Adequate			Excellent
❑1	❑2	❑3	❑4	❑5	❑6	❑7

23. In your opinion, how well does the Department of Game and Inland Fisheries incorporate public input into its deer management decisions?

Poor			Adequate			Excellent
❑1	❑2	❑3	❑4	❑5	❑6	❑7

24. Deer have become a problem in many URBAN/SUBURBAN areas around Virginia. Please indicate the degree to which you would favor or oppose a special 4-week URBAN/ SUBURBAN ARCHERY DEER season in these areas during September, prior to the opening of the regular archery season? (✔ Check only one).

Strongly Oppose			Does Not Matter			Strongly Favor
❑1	❑2	❑3	❑4	❑5	❑6	❑7

25. Would you participate in these special 4-week URBAN/SUBURBAN ARCHERY DEER hunts prior to the opening of the regular archery season?

❑ Yes ❑ No ❑ Not Sure

Now, we would like to know your opinions on hunter education training and hunting on public lands.

26. Have you ever completed a hunter education (safety) training course?

❑ Yes ❑ No

27. Did you hunt on a Department of Game & Inland Fisheries Wildlife Management Area during the 1997-98 hunting seasons?

❑ Yes ❑ No ❑ Not Sure

28. Please indicate the degree to which you would favor or oppose a requirement of hunter safety training prior to hunting on a Wildlife Management Area.

Strongly Oppose			Does Not Matter			Strongly Favor
❑1	❑2	❑3	❑4	❑5	❑6	❑7

The next question pertains to QUAIL hunting. **(If you did not hunt Quail during the 1997-98 season, skip to question #30).**

29. If you were asked to help set the OPENING DATE for quail season, please indicate the degree to which you would favor or oppose each of the following dates:

	Strongly Oppose			Does Not Matter			Strongly Favor
a. 2nd Monday in November	❑1	❑2	❑3	❑4	❑5	❑6	❑7
b. 4th Monday in November	❑1	❑2	❑3	❑4	❑5	❑6	❑7

Next are questions pertaining to TURKEY hunting (FALL and SPRING).

30. Please indicate the county where you most often hunted turkeys during FALL 1997.
(If you did not hunt turkeys in the fall, skip to question #32).

_____ County

31. Overall, how do you rate the quality of your 1997 FALL TURKEY season?

Poor			Adequate			Excellent
❑1	❑2	❑3	❑4	❑5	❑6	❑7

32. Did you hunt on OPENING DAY (APRIL 18) of the SPRING 1998 TURKEY season?
(If you did not hunt turkeys in the spring, skip to question #35).

❑ Yes ❑ No

33. During the SPRING 1998 TURKEY season, how many days did you hunt during:

a. The first week (excluding opening day) _____days
b. The second week _____days
c. The rest of the season (weeks 3-5) _____days

34. Overall, how do you rate the quality of your SPRING TURKEY hunting during 1998?

Poor			Adequate			Excellent
❑1	❑2	❑3	❑4	❑5	❑6	❑7

The next question pertains to BEAR hunting in 1997-98.
(If you did not hunt BEARS during the 1997-98 season, skip to question #36).

35. During the 1997-98 BEAR season, did you:

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

Next, we would like your views regarding DEER hunting. **(If you did not hunt DEER during the 1997-98 season, skip to question #50).**

36. If you were asked to help set the DAILY BAG LIMIT for DEER, please indicate the degree to which you would favor or oppose each of the following daily limits:

	Strongly Oppose			Does Not Matter			Strongly Favor
a. 1 deer per day	❑1	❑2	❑3	❑4	❑5	❑6	❑7
b. 2 deer per day	❑1	❑2	❑3	❑4	❑5	❑6	❑7
c. 3 deer per day	❑1	❑2	❑3	❑4	❑5	❑6	❑7
d. unlimited (but within the seasonal limit)	❑1	❑2	❑3	❑4	❑5	❑6	❑7

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

	Strongly Oppose			Does Not Matter			Strongly Favor
a. 1 antlered buck per year	❑1	❑2	❑3	❑4	❑5	❑6	❑7
b. 2 antlered bucks per year	❑1	❑2	❑3	❑4	❑5	❑6	❑7
c. 3 antlered bucks per year	❑1	❑2	❑3	❑4	❑5	❑6	❑7
d. unlimited antlered bucks per year	❑1	❑2	❑3	❑4	❑5	❑6	❑7

38. In the county where you hunt, please indicate the degree to which you would favor or oppose QUALITY DEER MANAGEMENT hunting regulations which would result in:

	Strongly Oppose			Does Not Matter			Strongly Favor
a. Regulations making it illegal to kill bucks with less than 7 antler points.	❑1	❑2	❑3	❑4	❑5	❑6	❑7
b. More either-sex days during the general firearms season	❑1	❑2	❑3	❑4	❑5	❑6	❑7

39. Did you purchase a bonus deer permit during the 1997-98 deer season?

❑ Yes ❑ No

40. Please indicate the degree to which you would favor or oppose the following types of tags included with a bonus deer permit:

	Strongly Oppose			Does Not Matter			Strongly Favor
a. 1 either-sex tag and 1 anterless-only tag	❑1	❑2	❑3	❑4	❑5	❑6	❑7
b. 2 anterless-only tags	❑1	❑2	❑3	❑4	❑5	❑6	❑7

41. Please indicate the degree to which you agree or disagree with the following reasons you bought, or would buy, a bonus deer permit:

	Strongly Oppose			Does Not Matter			Strongly Favor
a. To have more tags than came on my big game license.	❑1	❑2	❑3	❑4	❑5	❑6	❑7
b. To harvest more does.	❑1	❑2	❑3	❑4	❑5	❑6	❑7
c. To harvest more bucks.	❑1	❑2	❑3	❑4	❑5	❑6	❑7
d. To help private landowners with deer damage.	❑1	❑2	❑3	❑4	❑5	❑6	❑7
e. To save my big game tags to use on public land.	❑1	❑2	❑3	❑4	❑5	❑6	❑7

42. In the county where you hunt, please indicate the degree to which you would favor or oppose the number of bonus deer permits that hunters may purchase:

	Strongly Oppose			Does Not Matter			Strongly Favor
a. Hunters should only be allowed to buy 1 set of bonus deer tags.	❑1	❑2	❑3	❑4	❑5	❑6	❑7
b. Hunters should be allowed to buy an unlimited number of bonus deer tags.	❑1	❑2	❑3	❑4	❑5	❑6	❑7

43. How many "button bucks" (where the antler has not yet broken the hairline) did you harvest during the TOTAL 1997-98 DEER season?

_____ button bucks

Next, we would like some idea of the number of animals you saw while ARCHERY DEER HUNTING in 1997. **(If you did not hunt during ARCHERY DEER season, please skip to Question #45).**

44. In the blank next to each species, place the number of animals you saw during the 1997 ARCHERY DEER SEASON. If you did not see a particular animal, place a zero (0) in the blank.

_____ a. Bear	_____ e. Mink	_____ i. River Otter
_____ b. Bobcat	_____ f. Weasel	_____ j. Turkey
_____ c. Red Fox	_____ g. Raccoon	_____ k. Grouse
_____ d. Gray Fox	_____ h. Coyote	

This next set of questions pertains to DEER hunting during regular firearms (GUN) season. **(If you did not hunt during the 1997-98 DEER (Gun) season, please skip to Question #49).**

45. Please indicate the county where you most often hunted DEER (Gun) during 1997-98.
_____County.

46. Overall, how do you rate the quality of your 1997-98 DEER (Gun) season?

Poor			Adequate			Excellent
❑1	❑2	❑3	❑4	❑5	❑6	❑7

47. In the area where you hunt during the DEER (Gun) season, would you increase, decrease, or keep the number of DOE DAYS as it is now? (✔ Check only one).

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

48. Now we would like to know about the types of land on which you hunted DEER (Gun) during the 1997-98 hunting season. Please indicate the number of days and average distance (1-way) you traveled to each of the following types of land:

No. Of Days		Average Miles Traveled (1-way)
_____	VDGIF Wildlife Management Areas	_____
_____	National Forests (U.S. Forest Service)	_____
_____	Private Land (excluding hunt club or leased land)	_____
_____	Corporate Land (example: Westvaco) (excluding hunt club or leased land)	_____
_____	Hunt Club(s) on Leased Private Land	_____
_____	Hunt Club(s) on Leased Corporate Land	_____
_____	Military Land	_____
_____	Other (please specify)	_____

49. If you hunted during a special muzzleloader deer season during 1997-98, did you use a scope on your muzzleloader? **(If you did not hunt during a special muzzleloader season in 1997-98, please skip to question #50).**

❑ Yes ❑ No

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

50. How old are you? _____ years.

51. Marital Status:

❑ Never Married ❑ Married ❑ Divorced ❑ Separated ❑ Widowed

52. Gender: ❑ Male ❑ Female

53. Do you have children? ❑ Yes ❑ No If yes, how many live at home? _____

54. Do your children hunt? ❑ Yes ❑ No

55. How old were you when you first hunted? _____years.

56. Who taught you to hunt? (✔ Check only one).

❑ Father
❑ Spouse
❑ Mother
❑ Uncle/Aunt
❑ Brother/Sister
❑ Grandparent
❑ Friend
❑ No one taught me, I learned on my own

57. What best describes your father's attitude toward hunting when you were young? (✔ Check only one.)

❑ Personally hunted
❑ Did not hunt, but approved of hunting
❑ Tolerated my interest in hunting
❑ Discouraged my interest in hunting
❑ Forbid me to hunt
❑ Do not know

58. What best describes your mother's attitude toward hunting when you were young? (✔ Check only one.)

❑ Personally hunted
❑ Did not hunt, but approved of hunting
❑ Tolerated my interest in hunting
❑ Discouraged my interest in hunting
❑ Forbid me to hunt
❑ Do not know

59. What is your spouse's attitude toward hunting? (✔ Check only one.)

❑ My spouse is a hunter
❑ Does not hunt, but approves of hunting
❑ Tolerates my interest in hunting
❑ Discourages my interest in hunting
❑ Do not know
❑ I am not married

60. What is your closest friend's attitude toward hunting? (✔ Check only one).

- ❑ Personally hunts
- ❑ Does not hunt, but approves of hunting
- ❑ Tolerates my interest in hunting
- ❑ Discourages my interest in hunting
- ❑ Do not know

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

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

62. Where did you reside as a child? (✔ Check only one).

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

63. Do you <u>own</u> land on which you hunt?

❑ Yes ❑ No

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

_____ Acres

Thank you for taking the time to complete this survey. Your answers are very important to the successful management of wildlife in Virginia. If you have questions regarding the study or this questionnaire, please contact the Center for Recreation Resources Policy at (703) 993-2073.

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

Hunter Survey
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