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Introduction

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

The Virginia Department of Game and Inland Fisheries has conducted 20 surveys since the program's inception during the 1965-1966 hunting season. These surveys provide valuable information to biologists and managers throughout Virginia. First, game harvest indices are used for monitoring changes in harvest and hunter effort across seasons. These data, in turn, are used to regulate harvests, evaluate habitat conditions, and monitor various aspects of the socio-economic environment (Steffen 1981). Socio-psychological questions about hunter behavior and their preferences for season lengths and bag limits also provide valuable information for determining regulations that affect hunters across Virginia.

The purpose of this survey was to:

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

Methods

Generation of the sample

A survey of Virginia resident hunting license buyers was conducted in Spring 2008. A random sample of 5,000 (2.38%) Virginia resident hunters was drawn out of a population of hunters who purchased a general state resident hunting license, a Sportsman's Hunting and Fishing license, a county/city license, or a senior (65+) license for the 2007-2008 season (N=209,797). The sample was drawn from 2007-2008 licenses sold by license vendors and internet licenses sold on the Virginia Department of Game and Inland Fisheries website. Name and address information was obtained from records maintained by the Administrative Services Division of the Department of Game and Inland Fisheries. A distribution proportionately representative of hunters among the four license categories was maintained (Table 1).

In general, the sampling procedures used in this study replicate and extend the work described by Steffen (1981) as employed in Mississippi, with one exception occurring for this survey. The 2007-2008 license year was the second year that all licenses were sold electronically, thus making it possible to obtain the sample from the current license year, instead of using data from the previous license year which had to be done in the past.

Table 1.
2007-2008 Hunting Population and Survey Sample Statistics

License Type	Population	Percent
Sportsman's Licenses	3,196	1.5%
State Resident Licenses	187,680	89.5%
County/City Licenses	8,820	4.2%
Senior (65+) Licenses	10,101	4.8%
Total	209,797	100.0%

Development of the Survey Instrument

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

Questions were grouped by topic and efforts were made to create a logical order (Dillman 2000). Questions about hunter sociodemographic characteristics were placed at the end of the survey. As Dillman (2000) noted, questions about respondent income are often seen as objectionable. Placing income and other potentially offensive questions at the end of the survey makes the respondent less likely to “quit” the survey and contributes to these questions seeming “less objectionable in light of previous questions already answered” (Dillman 2000, p.88). To ensure that information was gathered only from active hunters, a screening question was included that restricted responses to those who purchased a hunting license in the 2007-2008 Virginia hunting season.

Administration of the Survey

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

The following dates were used for the administration of the 2007-2008 Virginia Hunter Survey:

May 16, 2008—First copy of the survey mailed

May 30, 2008—Reminder postcard mailed

June 12, 2008—Follow up mailing

Response Rate

By the end of the data collection period, 288 surveys were returned as undeliverable (e.g., individual had moved, incorrect address given, forwarding order expired). These individuals were removed from the original sample. Another 3 questionnaires were returned by addressees for reasons that included: did not purchase a license or the hunter is now deceased. These individuals were also removed resulting in a sample size of 4,709. Of these, a total of 2,028 usable questionnaires were received.

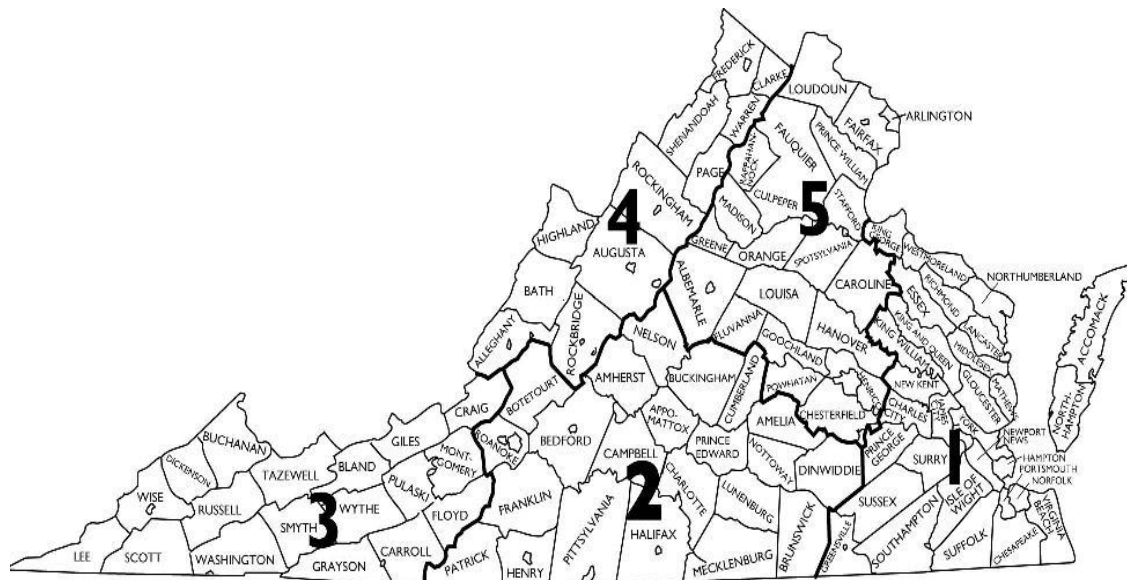
The response rate for the total sample was calculated using the following equation:

Response Rate= (Number of people responding ÷ Number of people sampled) (Fowler 1993). When calculating response rates, incorrect addresses, ineligible hunters, and deceased hunters were subtracted from the original sample, while hunters who did not respond to the survey remained in the sample. The effective response rate for this survey was 43.1 percent.

Data Analyses

Data from returned questionnaires were entered into a computer file and analyzed using standard statistical techniques. Estimates of statewide and regional harvests of each species were generated. For each estimate, the level of precision (standard error) was specified. Estimates were calculated based on the total licenses sold in 2007-2008. Regional comparisons were made based on the five regions of Virginia depicted in Figure 1. For a detailed account of the statistical formulas used for specific statewide and regional calculations of harvest estimates and standard errors, readers are referred to Steffen (1981).

Figure 1. Five Regions of Virginia



Results

Results of all data analyses are presented in tabular form and segmented into two sections of information. The first section includes tables that reference the estimates and standard errors of harvest and effort for 40 game species (or subpopulations of game animals) during the 2007-2008 hunting seasons. Statewide summaries are shown in Tables 2 and 3. Regional estimates are provided in Tables 4-42.

The second section includes tables that reference the analysis of hunters' preferences for selected season dates, bag limits, game management strategies, and other data pertinent to the management of hunting in Virginia. This information is included in Tables 43-84.

Notes

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

1. When considering statistics given in this report, it is important that they *not* be viewed as absolute numbers, especially when comparing these statistics with those from other studies. Rather, the data provided are only indices of harvest and effort, and should be used in conjunction with data from previous and future mail surveys (in this ongoing research project) to determine trends. Response and non-response biases exist in all survey efforts. Therefore, care must be taken to fully replicate study methods so that biases are held constant (known) and valid trend analyses can be made.
2. Total Harvest and Total Man-Days statistics are derived from a formula utilizing the total number of licenses sold for the 2007-2008 hunting season (n=209,797). Total Harvest statistics include all animals harvested regardless of whether or not a hunter was hunting specifically for that animal (incidental kills).
3. Statistics for (a) Average Daily Kill, (b) Average Seasonal Harvest, (c) Percent Successful Hunters, (d) Average Seasonal Days Hunting, (e) Total Hunters, and (f) Percent of Total Licenses/Hunters Per Region were calculated using data only from those hunters who reported specifically hunting for that game animal.
4. Percentages may not always total 100 percent due to rounding or missing values.
5. Regions were renumbered after the 1993-1994 study. The composition of the regions, however, is consistent among studies. Please refer to the map, Figure 1 (p.4).
6. Missing regional data for each species hunted were treated differently prior to the 1997-1998 study. Beginning with the 1997-1998 survey, respondents who did not provide information regarding the region where they hunted a particular species were eliminated from the regional estimates provided in Tables 4-42. Compared to previous surveys, this change particularly impacted the regional estimates reported for Average Daily Kill, Average Seasonal Harvest, Percent Successful, Average Seasonal Days, and Total Hunters. While the parameter estimates for averages and totals remained approximately the same, the standard errors for these estimates generally increased. Care should be taken when comparing these regional data with regional data from studies conducted 1993-1994 through 1996-1997. The statewide estimators remained unaffected by this change.
7. Parenthetical notations displayed immediately following a table title (e.g. Q24) refer to the specific question number(s) in the survey instrument.

TABLES

Table 2. Expanded Statewide Summary of Game Harvest Based on the 2007-2008 Survey of Virginia Hunters.

SPECIES	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT TOTAL LICENSES
Dove	654231	4.625	15.27	82.1	136253	3.26	42850	20.4
Quail	54338	1.084	3.86	44.9	49522	3.57	14076	6.7
Woodcock	1656	0.163	0.55	34.5	4457	1.65	3002	1.4
Ruffed Grouse	16043	0.28	1.27	41	51695	4.44	12627	6
Crow	146144	0.994	9.17	80.5	133891	10.85	15939	7.6
Rabbit	248196	0.91	5.86	72.1	263396	6.46	42332	20.2
Gray Squirrel	590992	1.392	9.25	84.6	366378	6.04	63860	30.4
Fox Squirrel	90564	0.556	3.94	75.2	143645	7.09	22977	11
Total Squirrel	681556	1.147	10.52	84.8	496584	8.28	64792	30.9
Groundhog	271277	0.692	8.27	91.2	365096	13.14	32810	15.6
Archery Deer (Buck and Doe)	43988	0.056	0.61	37.2	722972	10.21	72554	34.6
Archery Deer (Buck)	18113	0.022	0.25	20.1	722972	10.21	72554	34.6
Archery Deer (Doe)	25875	0.034	0.36	25.2	722972	10.21	72554	34.6
Muzzleloader Deer (Buck and Doe)	70484	0.091	0.64	40	739459	6.77	110125	52.5
Muzzleloader Deer (Buck)	41918	0.053	0.38	30.2	739459	6.77	110125	52.5
Muzzleloader Deer (Doe)	28566	0.038	0.26	17.7	739459	6.77	110125	52.5
Gun Deer (Buck and Doe)	173675	0.097	1.05	53.8	1749606	10.61	165705	79
Gun Deer (Buck)	78557	0.043	0.47	35.8	1749606	10.61	165705	79
Gun Deer (Doe)	95118	0.054	0.57	33.5	1749606	10.61	165705	79
Total Deer	288147	0.086	1.63	63.5	3234584	18.38	176987	84.4
Total Deer (Buck)	138588	0.041	0.78	48.4	3234584	18.38	176987	84.4
Total Deer (Doe)	149559	0.045	0.85	41.8	3234584	18.38	176987	84.4
Spring Turkey 2008	23081	0.066	0.36	25.6	319333	5.12	63446	30.2
Fall Turkey 2007	11282	0.048	0.24	20.2	184237	4.02	47093	22.4
Total Turkey	34362	0.059	0.42	28	504352	6.25	82387	39.3
Bear	1967	0.011	0.09	8.5	128763	6.02	21839	10.4
Mallard Duck	68104	0.474	3.56	53.5	139830	7.64	19148	9.1
Wood Duck	38813	0.26	2.03	39.5	139830	7.64	19148	9.1
Black Duck	12213	0.088	0.64	20.5	139830	7.64	19148	9.1
Other Duck	79799	0.55	4.17	41.1	139830	7.64	19148	9.1
Total Duck (All Species)	198929	1.372	10.39	73.5	139830	7.64	19148	9.1
Goose (September)	27738	1.144	3.83	60	22389	3.22	7245	3.5
Goose (November-March)	56926	0.684	3.9	69.5	79829	5.7	14594	7
Total Goose	84664	0.786	5.21	70.7	102195	6.64	16250	7.7
Red Fox	10971	0.065	0.7	45	124099	9.19	15629	7.4
Gray Fox	12524	0.102	0.85	41.3	104794	7.74	14801	7.1
Coyote	11592	0.056	0.54	32.9	135881	7.16	21425	10.2
Raccoon	115093	0.401	9.19	72.7	263471	23.63	12524	6
Bobcat	3312	0.047	0.4	32.5	49101	6.39	8280	3.9

Table 3. Expanded Statewide Estimates of Total Harvest (With Standard Errors) for Virginia Game Species During 2007-2008.

SPECIES	TOTAL HARVEST	STANDARD ERROR		95% CONFIDENCE INTERVAL	
		SE	AS % OF TOTAL *	LOWER LIMIT	UPPER LIMIT
Dove	654231	47462	7.25	561205	747257
Quail	54338	10225	18.82	34297	74379
Woodcock	1656	620	37.44	441	2871
Ruffed Grouse	16043	3479	21.69	9224	22862
Crow	146144	29630	20.27	88069	204219
Rabbit	248196	22933	9.24	203247	293145
Gray Squirrel	590992	60587	10.25	472241	709743
Fox Squirrel	90564	10418	11.5	70145	110983
Total Squirrel	681556	63370	9.3	557351	805761
Groundhog	271277	35437	13.06	201820	340734
Archery Deer (Buck and Doe)	43988	3247	7.38	37624	50352
Archery Deer (Buck)	18113	1701	9.39	14779	21447
Archery Deer (Doe)	25875	2280	8.81	21406	30344
Muzzleloader Deer (Buck and Doe)	70484	4005	5.68	62634	78334
Muzzleloader Deer (Buck)	41918	2793	6.66	36444	47392
Muzzleloader Deer (Doe)	28566	2433	8.52	23797	33335
Gun Deer (Buck and Doe)	173675	6342	3.65	161245	186105
Gun Deer (Buck)	78557	3566	4.54	71568	85546
Gun Deer (Doe)	95118	4553	4.79	86194	104042
Total Deer	288147	9180	3.19	270154	306140
Total Deer (Buck)	138588	5034	3.63	128721	148455
Total Deer (Doe)	149559	6211	4.15	137385	161733
Spring Turkey 2008	23081	1993	8.63	19175	26987
Fall Turkey 2007	11282	1273	11.28	8787	13777
Total Turkey	34362	2497	7.27	29468	39256
Bear	1967	472	24	1042	2892
Mallard Duck	68104	10704	15.72	47124	89084
Wood Duck	38813	7330	18.89	24446	53180
Black Duck	12213	2572	21.06	7172	17254
Other Duck	79799	14058	17.62	52245	107353
Total Duck (All Species)	198929	28223	14.19	143612	254246
Goose (September)	27738	6074	21.9	15833	39643
Goose (November-March)	56926	8929	15.69	39425	74427
Total Goose	84664	13063	15.43	59061	110267
Red Fox	10971	1516	13.82	8000	13942
Gray Fox	12524	2351	18.77	7916	17132
Coyote	11592	1936	16.7	7797	15387
Raccoon	115093	26279	22.83	63586	166600
Bobcat	3312	771	23.28	1801	4823

* % = 100(SE/Total harvest)

Table 4. Expanded Statewide and Regional Summaries of Dove Hunting in Virginia During the 2007-2008 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	232956	4.965	16.97	82.4	45384	3.38	13728	33.7
	(SE)	29841	0.442	1.64	3.3	5042	0.24	1160	2.4
	N	2002	128	131	131	1997	128	2002	389
2	ESTIMATE	122713	3.852	11.37	78.6	31937	2.95	10794	26.5
	(SE)	17730	0.344	1.23	4.1	3838	0.21	1036	2.2
	N	2002	103	103	103	1997	103	2002	389
3	ESTIMATE	30705	4.726	19.53	93.3	6513	4.13	1572	3.9
	(SE)	15555	0.926	8.82	6.7	2654	1.35	404	1
	N	2002	15	15	15	1997	15	2002	389
4	ESTIMATE	66020	4.667	18.53	91.2	14183	3.97	3563	8.7
	(SE)	14929	1.071	2.8	4.9	3878	0.86	606	1.4
	N	2002	34	34	34	1997	34	2002	389
5	ESTIMATE	170604	4.792	15.36	80.2	35404	3.24	11108	27.2
	(SE)	26201	0.385	1.87	3.9	4441	0.26	1050	2.3
	N	2002	104	106	106	1997	104	2002	389
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	654231	4.625	15.27	82.1	136253	3.26	42850	20.4
	(SE)	47462	0.229	0.88	1.9	8645	0.15	1879	0.9
	N	2027	401	414	414	2014	401	2027	2027

Table 5. Expanded Statewide and Regional Summaries of Quail Hunting in Virginia During the 2007-2008 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	14035	0.993	3.75	50	14153	3.78	3743	28.3
	(SE)	4456	0.398	1.03	8.5	4718	1.11	618	4
	N	2018	36	36	36	2016	36	2018	127
2	ESTIMATE	24015	1.224	5.25	56.8	19044	4.36	4574	34.6
	(SE)	7575	0.378	1.48	7.6	4716	0.86	682	4.2
	N	2018	42	44	44	2016	42	2018	127
3	ESTIMATE	208	0.05	0.13	6.7	4163	2.67	1559	11.8
	(SE)	208	0.053	0.13	6.7	1386	0.58	401	2.9
	N	2018	15	15	15	2016	15	2018	127
4	ESTIMATE	624	0.4	0.75	12.5	1561	1.88	832	6.3
	(SE)	624	0.445	0.75	12.5	728	0.61	294	2.2
	N	2018	8	8	8	2016	8	2018	127
5	ESTIMATE	11644	2.333	4.67	45.8	4995	2	2495	18.9
	(SE)	4692	0.51	1.66	10.4	1423	0.41	506	3.5
	N	2018	24	24	24	2016	24	2018	127
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	54338	1.084	3.86	44.9	49522	3.57	14076	6.7
	(SE)	10225	0.207	0.65	4.3	7464	0.45	1166	0.6
	N	2027	134	136	136	2025	134	2027	2027

Table 6. Expanded Statewide and Regional Summaries of Woodcock Hunting in Virginia During the 2007-2008 Hunting Season.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL HUNTING DAYS	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	414	0.364	0.57	57.1	1140	1.57	725	25.9
	(SE)	207	0.153	0.2	20.2	474	0.3	274	8.6
	N	2025	7	7	7	2024	7	2025	27
2	ESTIMATE	311	0.083	0.43	28.6	1244	2	725	25.9
	(SE)	232	0.095	0.3	18.4	621	0.63	274	8.6
	N	2025	6	7	7	2024	6	2025	27
3	ESTIMATE	104	0.143	0.25	25	726	1.75	414	14.8
	(SE)	104	0.173	0.25	25	452	0.75	207	7
	N	2025	4	4	4	2024	4	2025	27
4	ESTIMATE	0	0	0	0	518	1.25	414	14.8
	(SE)	0	0	0	0	274	0.25	207	7
	N	2025	4	4	4	2024	4	2025	27
5	ESTIMATE	104	0.125	0.2	20	829	1.6	518	18.5
	(SE)	104	0.14	0.2	20	414	0.4	231	7.6
	N	2025	5	5	5	2024	5	2025	27
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	1656	0.163	0.55	34.5	4457	1.65	3002	1.4
	(SE)	620	0.061	0.18	9	1027	0.21	554	0.3
	N	2027	26	29	29	2024	26	2027	2027

Table 7. Expanded Statewide and Regional Summaries of Ruffed Grouse Hunting in Virginia During the 2007-2008 Hunting Season.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	0	0	0	0	313	1	312	2.6
	(SE)	0	0	0	0	180	0	180	1.5
	N	2019	3	3	3	2013	3	2019	114
2	ESTIMATE	312	0.074	0.3	20	2814	3	1039	8.8
	(SE)	232	0.08	0.21	13.3	1192	0.83	328	2.7
	N	2019	9	10	10	2013	9	2019	114
3	ESTIMATE	9144	0.292	1.87	40.4	30016	6.4	4884	41.2
	(SE)	3094	0.084	0.58	7.2	6867	1.13	704	4.6
	N	2019	45	47	47	2013	45	2019	114
4	ESTIMATE	5092	0.307	1.04	44.7	15946	3.4	4884	41.2
	(SE)	1520	0.073	0.28	7.3	3154	0.45	704	4.6
	N	2019	45	47	47	2013	45	2019	114
5	ESTIMATE	312	0.111	0.43	28.6	1876	3	727	6.1
	(SE)	232	0.137	0.3	18.4	1141	1.48	275	2.3
	N	2019	6	7	7	2013	6	2019	114
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	16043	0.28	1.27	41	51695	4.44	12627	6
	(SE)	3479	0.054	0.25	4.5	7685	0.52	1109	0.5
	N	2027	112	122	122	2017	112	2027	2027

Table 8. Expanded Statewide and Regional Summaries of Crow Hunting in Virginia During the 2007-2008 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	24497	2.932	11.14	76.2	7841	4.63	2198	16
	(SE)	13274	1.867	5.67	9.5	3443	1.73	477	3.2
	N	2004	16	21	21	1980	16	2004	131
2	ESTIMATE	61976	1.025	12.33	70.8	60184	12.91	5025	36.6
	(SE)	23134	0.707	4.3	6.6	39011	8.24	717	4.2
	N	2004	44	48	48	1980	44	2004	131
3	ESTIMATE	14028	1.232	6.7	95	10066	5.94	2094	15.3
	(SE)	4203	0.391	1.38	5	4160	2.02	466	3.2
	N	2004	16	20	20	1980	16	2004	131
4	ESTIMATE	17483	0.291	7.95	90.5	47257	27.88	2198	16
	(SE)	6319	0.263	2.35	6.6	38848	22.55	477	3.2
	N	2004	16	21	21	1980	16	2004	131
5	ESTIMATE	20833	3.844	9.48	85.7	4768	3	2198	16
	(SE)	11200	2.251	4.77	7.8	1579	0.65	477	3.2
	N	2004	15	21	21	1980	15	2004	131
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	146144	0.994	9.17	80.5	133891	10.85	15939	7.6
	(SE)	29630	0.438	1.72	3.2	55049	4.37	1235	0.6
	N	2027	117	154	154	1990	117	2027	2027

Table 9. Expanded Statewide and Regional Summaries of Rabbit Hunting in Virginia During the 2007-2008 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	69616	1.132	6.48	71.6	61668	5.76	10743	27.3
	(SE)	14214	0.121	1.17	4.5	11397	0.91	1036	2.3
	N	1992	101	102	102	1980	101	1992	374
2	ESTIMATE	76462	0.856	6.42	77	84131	7.35	11901	30.2
	(SE)	12302	0.118	0.85	4	13866	1	1088	2.4
	N	1992	108	113	113	1980	108	1992	374
3	ESTIMATE	32333	1.025	5.79	71.7	29350	5.54	5582	14.2
	(SE)	6858	0.148	0.95	6.2	5983	0.83	757	1.8
	N	1992	50	53	53	1980	50	1992	374
4	ESTIMATE	23381	0.913	4.63	75	25536	5.13	5055	12.8
	(SE)	6553	0.202	1.13	6.3	5541	0.84	721	1.7
	N	1992	47	48	48	1980	47	1992	374
5	ESTIMATE	34966	0.781	5.72	70.7	44608	7.52	6109	15.5
	(SE)	10224	0.18	1.51	6	10091	1.39	791	1.9
	N	1992	56	58	58	1980	56	1992	374
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	248196	0.91	5.86	72.1	263396	6.46	42332	20.2
	(SE)	22933	0.065	0.48	2.2	22695	0.47	1871	0.9
	N	2027	390	409	409	2008	390	2027	2027

Table 10. Expanded Statewide and Regional Summaries of Gray Squirrel Hunting in Virginia During the 2007-2008 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	118158	1.198	12.85	81.4	49224	5.75	9196	15.6
	(SE)	54488	0.324	5.8	4.2	14175	1.54	970	1.5
	N	1962	79	86	86	1935	79	1962	552
2	ESTIMATE	154514	1.674	9.15	84.2	87063	5.35	16895	28.6
	(SE)	21058	0.17	1.04	2.9	10457	0.49	1289	1.9
	N	1962	150	158	158	1935	150	1962	552
3	ESTIMATE	94633	1.298	8.68	87.3	65921	6.4	10907	18.5
	(SE)	13780	0.148	0.95	3.3	9789	0.71	1052	1.7
	N	1962	95	102	102	1935	95	1962	552
4	ESTIMATE	104578	1.37	8.97	85.3	76438	6.59	11655	19.7
	(SE)	14141	0.15	0.88	3.4	11189	0.74	1085	1.7
	N	1962	107	109	109	1935	107	1962	552
5	ESTIMATE	98055	1.476	9.45	87.6	65379	6.41	10372	17.6
	(SE)	14481	0.177	1.04	3.4	10046	0.75	1027	1.6
	N	1962	94	97	97	1935	94	1962	552
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	590992	1.392	9.25	84.6	366378	6.04	63860	30.4
	(SE)	60587	0.084	0.9	1.5	24606	0.35	2145	1
	N	2027	573	617	617	1983	573	2027	2027

Table 11. Expanded Statewide and Regional Summaries of Fox Squirrel Hunting in Virginia During the 2007-2008 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	734	0.125	1.17	33.3	1692	3.2	629	3.1
	(SE)	565	0.128	0.83	21.1	776	0.37	256	1.2
	N	2001	5	6	6	1984	5	2001	196
2	ESTIMATE	4404	0.352	2.33	61.1	11103	6.56	1887	9.2
	(SE)	1885	0.114	0.86	11.8	3567	1.38	443	2.1
	N	2001	16	18	18	1984	16	2001	196
3	ESTIMATE	35019	0.73	4.07	81.7	47056	5.86	8597	41.8
	(SE)	6293	0.101	0.59	4.3	7701	0.7	930	3.5
	N	2001	76	82	82	1984	76	2001	196
4	ESTIMATE	39737	0.616	4.8	78.5	59534	7.71	8283	40.3
	(SE)	7794	0.113	0.78	4.7	11074	1.14	914	3.5
	N	2001	73	79	79	1984	73	2001	196
5	ESTIMATE	2621	0.198	2.27	63.6	10151	10.67	1153	5.6
	(SE)	1143	0.086	0.75	15.2	4805	3.81	347	1.6
	N	2001	9	11	11	1984	9	2001	196
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	90564	0.556	3.94	75.2	143645	7.09	22977	11
	(SE)	10418	0.062	0.38	2.9	15696	0.61	1456	0.7
	N	2027	193	222	222	1998	193	2027	2027

Table 12. Expanded Statewide and Regional Summaries of Total Squirrel Hunting in Virginia During the 2007-2008 Hunting Season.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENSES
Statewide	ESTIMATE	681556	1.147	10.52	84.8	496584	8.28	64792	30.9
	(SE)	63370	0.073	0.91	1.4	36200	0.53	2153	1
	N	2027	561	626	626	1962	561	2027	2027

Table 13. Expanded Statewide and Regional Summaries of Groundhog Hunting in Virginia During the 2007-2008 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	46467	0.944	11.76	97.3	42825	12.77	3952	14.6
	(SE)	14886	0.174	3.29	2.7	12849	3.13	644	2.2
	N	1964	31	37	37	1940	31	1964	254
2	ESTIMATE	38028	0.392	5.48	86.2	83486	13.08	6943	25.6
	(SE)	7213	0.183	0.8	4.3	40271	6.14	847	2.7
	N	1964	59	65	65	1940	59	1964	254
3	ESTIMATE	76698	1.211	12.6	89.5	62398	11.1	6089	22.4
	(SE)	19695	0.249	2.81	4.1	15042	2.22	795	2.6
	N	1964	52	57	57	1940	52	1964	254
4	ESTIMATE	65375	0.508	10.74	98.2	128257	21.96	6089	22.4
	(SE)	23415	0.199	3.61	1.8	50266	8.16	795	2.6
	N	1964	54	57	57	1940	54	1964	254
5	ESTIMATE	25317	0.846	6.24	92.1	29415	8	4059	15
	(SE)	11322	0.242	2.64	4.4	10371	2.51	652	2.2
	N	1964	34	38	38	1940	34	1964	254
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	271277	0.692	8.27	91.2	365096	13.14	32810	15.6
	(SE)	35437	0.122	0.99	1.6	67090	2.3	1693	0.8
	N	2027	261	317	317	1971	261	2027	2027

Table 14. Expanded Statewide and Regional Summaries of Archery Deer (Buck and Doe) Hunting in Virginia During the 2007-2008 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	5910	0.051	0.51	34.9	113953	9.96	11503	16.5
	(SE)	1119	0.007	0.09	4.6	14174	0.82	1071	1.4
	N	1988	108	109	109	1981	108	1988	662
2	ESTIMATE	11292	0.058	0.62	39.5	189146	10.44	18151	26
	(SE)	1700	0.008	0.08	3.7	19331	0.75	1323	1.7
	N	1988	171	172	172	1981	171	1988	662
3	ESTIMATE	9287	0.061	0.7	37.3	144666	11.11	13297	19
	(SE)	1810	0.011	0.12	4.3	15790	0.73	1147	1.5
	N	1988	123	126	126	1981	123	1988	662
4	ESTIMATE	4960	0.048	0.47	31.7	101139	9.55	10659	15.3
	(SE)	967	0.008	0.08	4.7	12497	0.73	1034	1.4
	N	1988	100	101	101	1981	100	1988	662
5	ESTIMATE	8970	0.058	0.55	33.1	154091	9.51	16252	23.3
	(SE)	1513	0.008	0.08	3.8	17453	0.79	1258	1.6
	N	1988	153	154	154	1981	153	1988	662
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	43988	0.056	0.61	37.2	722972	10.21	72554	34.6
	(SE)	3247	0.004	0.04	1.8	33485	0.35	2217	1.1
	N	2027	676	701	701	2002	676	2027	2027

Table 15. Expanded Statewide and Regional Summaries of Archery Deer (Buck) Hunting in Virginia During the 2007-2008 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	3060	0.026	0.27	22.9	113953	9.96	11503	16.5
	(SE)	689	0.005	0.05	4	14174	0.82	1071	1.4
	N	1988	108	109	109	1981	108	1988	662
2	ESTIMATE	5488	0.029	0.3	23.8	189146	10.44	18151	26
	(SE)	983	0.005	0.05	3.3	19331	0.75	1323	1.7
	N	1988	171	172	172	1981	171	1988	662
3	ESTIMATE	2427	0.015	0.18	15.9	144666	11.11	13297	19
	(SE)	566	0.004	0.04	3.3	15790	0.73	1147	1.5
	N	1988	123	126	126	1981	123	1988	662
4	ESTIMATE	1689	0.016	0.16	14.9	101139	9.55	10659	15.3
	(SE)	446	0.004	0.04	3.6	12497	0.73	1034	1.4
	N	1988	100	101	101	1981	100	1988	662
5	ESTIMATE	3271	0.021	0.2	14.3	154091	9.51	16252	23.3
	(SE)	750	0.004	0.04	2.8	17453	0.79	1258	1.6
	N	1988	153	154	154	1981	153	1988	662
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	18113	0.022	0.25	20.1	722972	10.21	72554	34.6
	(SE)	1701	0.002	0.02	1.5	33485	0.35	2217	1.1
	N	2027	676	701	701	2002	676	2027	2027

Table 16. Expanded Statewide and Regional Summaries of Archery Deer (Doe) Hunting in Virginia During the 2007-2008 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	2849	0.025	0.25	18.3	113953	9.96	11503	16.5
	(SE)	689	0.005	0.06	3.7	14174	0.82	1071	1.4
	N	1988	108	109	109	1981	108	1988	662
2	ESTIMATE	5804	0.03	0.32	25	189146	10.44	18151	26
	(SE)	1010	0.005	0.05	3.3	19331	0.75	1323	1.7
	N	1988	171	172	172	1981	171	1988	662
3	ESTIMATE	6860	0.045	0.52	31	144666	11.11	13297	19
	(SE)	1435	0.009	0.1	4.1	15790	0.73	1147	1.5
	N	1988	123	126	126	1981	123	1988	662
4	ESTIMATE	3271	0.032	0.31	23.8	101139	9.55	10659	15.3
	(SE)	720	0.006	0.06	4.3	12497	0.73	1034	1.4
	N	1988	100	101	101	1981	100	1988	662
5	ESTIMATE	5699	0.036	0.35	23.4	154091	9.51	16252	23.3
	(SE)	1149	0.007	0.07	3.4	17453	0.79	1258	1.6
	N	1988	153	154	154	1981	153	1988	662
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	25875	0.034	0.36	25.2	722972	10.21	72554	34.6
	(SE)	2280	0.003	0.03	1.6	33485	0.35	2217	1.1
	N	2027	676	701	701	2002	676	2027	2027

Table 17. Expanded Statewide and Regional Summaries of Muzzleloader Deer (Buck and Doe) Hunting in Virginia During the 2007-2008 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	12567	0.119	0.75	46.5	105807	6.31	16720	15.6
	(SE)	1766	0.013	0.09	4	11052	0.45	1280	1.1
	N	1970	157	157	157	1963	157	1970	1007
2	ESTIMATE	24920	0.109	0.78	46	227859	7.15	31949	29.8
	(SE)	2544	0.009	0.07	2.9	15319	0.29	1699	1.4
	N	1970	298	300	300	1963	298	1970	1007
3	ESTIMATE	11715	0.069	0.58	37.6	141931	7.18	20128	18.8
	(SE)	1941	0.008	0.09	3.5	12712	0.4	1392	1.2
	N	1970	185	189	189	1963	185	1970	1007
4	ESTIMATE	7348	0.053	0.39	25.8	137335	7.26	18956	17.7
	(SE)	1478	0.011	0.07	3.3	12540	0.41	1355	1.2
	N	1970	177	178	178	1963	177	1970	1007
5	ESTIMATE	12567	0.11	0.64	41	114143	5.84	19489	18.2
	(SE)	1681	0.012	0.07	3.6	9802	0.29	1372	1.2
	N	1970	183	183	183	1963	183	1970	1007
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	70484	0.091	0.64	40	739459	6.77	110125	52.5
	(SE)	4005	0.005	0.03	1.5	23398	0.16	2328	1.1
	N	2027	1046	1064	1064	2009	1046	2027	2027

Table 18. Expanded Statewide and Regional Summaries of Muzzleloader Deer (Buck) Hunting in Virginia During the 2007-2008 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	8200	0.078	0.49	36.3	105807	6.31	16720	15.6
	(SE)	1167	0.009	0.06	3.9	11052	0.45	1280	1.1
	N	1970	157	157	157	1963	157	1970	1007
2	ESTIMATE	14270	0.062	0.45	33.7	227859	7.15	31949	29.8
	(SE)	1804	0.007	0.05	2.7	15319	0.29	1699	1.4
	N	1970	298	300	300	1963	298	1970	1007
3	ESTIMATE	7348	0.039	0.37	27	141931	7.18	20128	18.8
	(SE)	1632	0.005	0.08	3.2	12712	0.4	1392	1.2
	N	1970	185	189	189	1963	185	1970	1007
4	ESTIMATE	3514	0.025	0.19	16.3	137335	7.26	18956	17.7
	(SE)	694	0.005	0.03	2.8	12540	0.41	1355	1.2
	N	1970	177	178	178	1963	177	1970	1007
5	ESTIMATE	7668	0.067	0.39	35	114143	5.84	19489	18.2
	(SE)	984	0.007	0.04	3.5	9802	0.29	1372	1.2
	N	1970	183	183	183	1963	183	1970	1007
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	41918	0.053	0.38	30.2	739459	6.77	110125	52.5
	(SE)	2793	0.003	0.02	1.4	23398	0.16	2328	1.1
	N	2027	1046	1064	1064	2009	1046	2027	2027

Table 19. Expanded Statewide and Regional Summaries of Muzzleloader Deer (Doe) Hunting in Virginia During the 2007-2008 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	4366	0.041	0.26	17.2	105807	6.31	16720	15.6
	(SE)	1011	0.009	0.06	3	11052	0.45	1280	1.1
	N	1970	157	157	157	1963	157	1970	1007
2	ESTIMATE	10650	0.047	0.33	23.7	227859	7.15	31949	29.8
	(SE)	1376	0.005	0.04	2.5	15319	0.29	1699	1.4
	N	1970	298	300	300	1963	298	1970	1007
3	ESTIMATE	4366	0.029	0.22	15.9	141931	7.18	20128	18.8
	(SE)	879	0.005	0.04	2.7	12712	0.4	1392	1.2
	N	1970	185	189	189	1963	185	1970	1007
4	ESTIMATE	3834	0.028	0.2	11.8	137335	7.26	18956	17.7
	(SE)	1266	0.009	0.07	2.4	12540	0.41	1355	1.2
	N	1970	177	178	178	1963	177	1970	1007
5	ESTIMATE	4899	0.043	0.25	16.9	114143	5.84	19489	18.2
	(SE)	1027	0.008	0.05	2.8	9802	0.29	1372	1.2
	N	1970	183	183	183	1963	183	1970	1007
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	28566	0.038	0.26	17.7	739459	6.77	110125	52.5
	(SE)	2433	0.003	0.02	1.2	23398	0.16	2328	1.1
	N	2027	1046	1064	1064	2009	1046	2027	2027

Table 20. Expanded Statewide and Regional Summaries of Gun Deer (Buck and Doe) Hunting in Virginia During the 2007-2008 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	44117	0.097	1.35	60.2	449035	13.77	32791	20
	(SE)	3736	0.007	0.09	2.8	32572	0.68	1728	1
	N	1945	299	304	304	1924	299	1945	1519
2	ESTIMATE	48755	0.089	1.06	53.3	536705	11.69	45950	28
	(SE)	3898	0.006	0.07	2.4	29295	0.39	1968	1.2
	N	1945	421	426	426	1924	421	1945	1519
3	ESTIMATE	21789	0.109	0.8	50	194531	7.22	27182	16.6
	(SE)	2245	0.009	0.07	3.2	13653	0.27	1598	1
	N	1945	247	252	252	1924	247	1945	1519
4	ESTIMATE	23515	0.099	0.89	51.2	223645	8.48	26535	16.2
	(SE)	2557	0.008	0.08	3.2	15859	0.32	1582	0.9
	N	1945	242	246	246	1924	242	1945	1519
5	ESTIMATE	33762	0.1	1.08	54.6	340211	10.8	31389	19.2
	(SE)	3443	0.009	0.09	2.9	23044	0.44	1697	1
	N	1945	289	291	291	1924	289	1945	1519
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	173675	0.097	1.05	53.8	1749606	10.61	165705	79
	(SE)	6342	0.003	0.04	1.2	39843	0.21	1899	0.9
	N	2027	1568	1601	1601	1994	1568	2027	2027

Table 21. Expanded Statewide and Regional Summaries of Gun Deer (Buck) Hunting in Virginia During the 2007-2008 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	16503	0.036	0.5	35.2	449035	13.77	32791	20
	(SE)	1689	0.003	0.04	2.7	32572	0.68	1728	1
	N	1945	299	304	304	1924	299	1945	1519
2	ESTIMATE	24917	0.045	0.54	39.4	536705	11.69	45950	28
	(SE)	2492	0.004	0.05	2.4	29295	0.39	1968	1.2
	N	1945	421	426	426	1924	421	1945	1519
3	ESTIMATE	11434	0.057	0.42	36.1	194531	7.22	27182	16.6
	(SE)	1259	0.006	0.04	3	13653	0.27	1598	1
	N	1945	247	252	252	1924	247	1945	1519
4	ESTIMATE	10679	0.044	0.4	33.3	223645	8.48	26535	16.2
	(SE)	1312	0.004	0.04	3	15859	0.32	1582	0.9
	N	1945	242	246	246	1924	242	1945	1519
5	ESTIMATE	13591	0.04	0.43	33	340211	10.8	31389	19.2
	(SE)	1463	0.004	0.04	2.8	23044	0.44	1697	1
	N	1945	289	291	291	1924	289	1945	1519
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	78557	0.043	0.47	35.8	1749606	10.61	165705	79
	(SE)	3566	0.002	0.02	1.2	39843	0.21	1899	0.9
	N	2027	1568	1601	1601	1994	1568	2027	2027

Table 22. Expanded Statewide and Regional Summaries of Gun Deer (Doe) Hunting in Virginia During the 2007-2008 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	27613	0.061	0.84	44.7	449035	13.77	32791	20
	(SE)	2722	0.005	0.07	2.9	32572	0.68	1728	1
	N	1945	299	304	304	1924	299	1945	1519
2	ESTIMATE	23838	0.043	0.52	31.2	536705	11.69	45950	28
	(SE)	2319	0.004	0.05	2.2	29295	0.39	1968	1.2
	N	1945	421	426	426	1924	421	1945	1519
3	ESTIMATE	10355	0.052	0.38	25	194531	7.22	27182	16.6
	(SE)	1531	0.007	0.05	2.7	13653	0.27	1598	1
	N	1945	247	252	252	1924	247	1945	1519
4	ESTIMATE	12836	0.055	0.48	31.3	223645	8.48	26535	16.2
	(SE)	1772	0.007	0.06	3	15859	0.32	1582	0.9
	N	1945	242	246	246	1924	242	1945	1519
5	ESTIMATE	20171	0.06	0.64	36.4	340211	10.8	31389	19.2
	(SE)	2610	0.007	0.08	2.8	23044	0.44	1697	1
	N	1945	289	291	291	1924	289	1945	1519
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	95118	0.054	0.57	33.5	1749606	10.61	165705	79
	(SE)	4553	0.002	0.03	1.2	39843	0.21	1899	0.9
	N	2027	1568	1601	1601	1994	1568	2027	2027

Table 23. Expanded Statewide and Regional Summaries of Total Deer Hunting in Virginia During the 2007-2008 Hunting Season.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENSES
Statewide	ESTIMATE (SE)	288147	0.086	1.63	63.5	3234584	18.38	176987	84.4
	N	2027	1651	1710	1710	1968	1651	2027	2027

Table 24. Expanded Statewide and Regional Summaries of Total Deer (Buck) Hunting in Virginia During the 2007-2008 Hunting Season.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENSES
Statewide	ESTIMATE (SE)	138588	0.041	0.78	48.4	3234584	18.38	176987	84.4
	N	2027	1651	1710	1710	1968	1651	2027	2027

Table 25. Expanded Statewide and Regional Summaries of Total Deer (Doe) Hunting in Virginia During the 2007-2008 Hunting Season.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENSES
Statewide	ESTIMATE (SE)	149559	0.045	0.85	41.8	3234584	18.38	176987	84.4
	N	2027	1651	1710	1710	1968	1651	2027	2027

Table 26. Expanded Statewide and Regional Summaries of Spring Turkey Hunting in Virginia During the 2007-2008 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	3500	0.063	0.29	23	54341	4.55	11985	20
	(SE)	754	0.01	0.06	4	7205	0.44	1095	1.7
	N	1978	112	113	113	1969	112	1978	564
2	ESTIMATE	9652	0.085	0.51	31.8	108361	5.78	18986	31.7
	(SE)	1427	0.01	0.07	3.5	10645	0.39	1354	2
	N	1978	176	179	179	1969	176	1978	564
3	ESTIMATE	3606	0.062	0.31	24.5	53701	4.71	11667	19.5
	(SE)	731	0.011	0.06	4.1	6911	0.42	1081	1.7
	N	1978	107	110	110	1969	107	1978	564
4	ESTIMATE	2652	0.052	0.36	25.7	49333	6.71	7425	12.4
	(SE)	677	0.011	0.08	5.3	8411	0.83	872	1.4
	N	1978	69	70	70	1969	69	1978	564
5	ESTIMATE	2864	0.065	0.29	22.8	42620	4.4	9758	16.3
	(SE)	676	0.013	0.06	4.4	5890	0.41	994	1.6
	N	1978	91	92	92	1969	91	1978	564
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	23081	0.066	0.36	25.6	319333	5.12	63446	30.2
	(SE)	1993	0.005	0.03	1.8	16705	0.2	2141	1
	N	2027	599	613	613	2013	599	2027	2027

Table 27. Expanded Statewide and Regional Summaries of Fall Turkey Hunting in Virginia During the 2007-2008 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	1700	0.086	0.29	25.5	17403	3.08	5845	13.7
	(SE)	474	0.028	0.07	5.9	3486	0.46	777	1.7
	N	1974	53	55	55	1965	53	1974	402
2	ESTIMATE	4357	0.061	0.31	24.2	55732	4.08	14029	32.8
	(SE)	890	0.012	0.06	3.7	6715	0.35	1180	2.3
	N	1974	128	132	132	1965	128	1974	402
3	ESTIMATE	2870	0.07	0.28	25.8	36835	3.67	10309	24.1
	(SE)	588	0.015	0.05	4.5	5414	0.4	1021	2.1
	N	1974	94	97	97	1965	94	1974	402
4	ESTIMATE	850	0.026	0.12	11.6	32884	4.46	7333	17.2
	(SE)	300	0.009	0.04	3.9	5447	0.52	867	1.9
	N	1974	69	69	69	1965	69	1974	402
5	ESTIMATE	638	0.027	0.12	10.2	23809	4.55	5208	12.2
	(SE)	300	0.013	0.06	4.4	4630	0.62	735	1.6
	N	1974	49	49	49	1965	49	1974	402
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	11282	0.048	0.24	20.2	184237	4.02	47093	22.4
	(SE)	1273	0.006	0.03	1.9	11757	0.19	1945	0.9
	N	2027	439	455	455	2011	439	2027	2027

Table 28. Expanded Statewide and Regional Summaries of Total Turkey Hunting in Virginia During the 2007-2008 Hunting Season.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENSES
Statewide	ESTIMATE	34362	0.059	0.42	28	504352	6.25	82387	39.3
	(SE)	2497	0.004	0.03	1.6	22717	0.22	2276	1.1
	N	2027	769	796	796	2000	769	2027	2027

Table 29. Expanded Statewide and Regional Summaries of Bear Hunting in Virginia During the 2007-2008 Hunting Season.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	0	0	0	0	3051	4.14	736	3.9
	(SE)	0	0	0	0	1391	1.14	278	1.4
	N	1996	7	7	7	1994	7	1996	180
2	ESTIMATE	736	0.026	0.19	16.7	24725	6.71	3784	20
	(SE)	315	0.012	0.08	6.3	8145	1.93	625	3
	N	1996	35	36	36	1994	35	1996	180
3	ESTIMATE	315	0.009	0.06	6	23147	4.49	5255	27.8
	(SE)	182	0.006	0.03	3.4	4797	0.69	734	3.3
	N	1996	49	50	50	1994	49	1996	180
4	ESTIMATE	210	0.005	0.03	3.2	45137	6.92	6517	34.4
	(SE)	149	0.003	0.02	2.3	8765	1.04	815	3.6
	N	1996	62	62	62	1994	62	1996	180
5	ESTIMATE	420	0.02	0.16	16	21253	8.08	2628	13.9
	(SE)	210	0.009	0.07	7.5	5681	1.47	522	2.6
	N	1996	25	25	25	1994	25	1996	180
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	1967	0.011	0.09	8.5	128763	6.02	21839	10.4
	(SE)	472	0.003	0.02	1.9	14193	0.53	1423	0.7
	N	2027	206	211	211	2022	206	2027	2027

Table 30. Expanded Statewide and Regional Summaries of Mallard Duck Hunting in Virginia During the 2007-2008 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	35816	0.403	3.41	52.5	88050	8.53	10516	58.4
	(SE)	7939	0.067	0.68	5	13300	0.98	1020	3.8
	N	2015	99	101	101	2011	99	2015	173
2	ESTIMATE	4789	0.429	2.09	45.5	10224	4.67	2291	12.7
	(SE)	1695	0.099	0.61	10.9	3048	0.98	486	2.5
	N	2015	21	22	22	2011	21	2015	173
3	ESTIMATE	6039	1	9.67	66.7	6051	9.67	625	3.5
	(SE)	4140	0.492	5.83	21.1	3244	3.68	255	1.4
	N	2015	6	6	6	2011	6	2015	173
4	ESTIMATE	1562	0.938	2.5	66.7	1669	2.67	625	3.5
	(SE)	1014	0.309	1.38	21.1	794	0.71	255	1.4
	N	2015	6	6	6	2011	6	2015	173
5	ESTIMATE	18637	0.604	4.71	60.5	30046	7.78	3956	22
	(SE)	5717	0.127	1.25	8	6243	1.02	636	3.2
	N	2015	37	38	38	2011	37	2015	173
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	68104	0.474	3.56	53.5	139830	7.64	19148	9.1
	(SE)	10704	0.057	0.5	3.7	15278	0.63	1342	0.6
	N	2027	176	185	185	2018	176	2027	2027

Table 31. Expanded Statewide and Regional Summaries of Wood Duck Hunting in Virginia During the 2007-2008 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	22906	0.25	2.18	41.6	88050	8.53	10516	58.4
	(SE)	6124	0.058	0.55	4.9	13300	0.98	1020	3.8
	N	2015	99	101	101	2011	99	2015	173
2	ESTIMATE	5518	0.49	2.41	54.5	10224	4.67	2291	12.7
	(SE)	1838	0.094	0.63	10.9	3048	0.98	486	2.5
	N	2015	21	22	22	2011	21	2015	173
3	ESTIMATE	312	0.052	0.5	33.3	6051	9.67	625	3.5
	(SE)	233	0.036	0.34	21.1	3244	3.68	255	1.4
	N	2015	6	6	6	2011	6	2015	173
4	ESTIMATE	0	0	0	0	1669	2.67	625	3.5
	(SE)	0	0	0	0	794	0.71	255	1.4
	N	2015	6	6	6	2011	6	2015	173
5	ESTIMATE	9058	0.292	2.29	39.5	30046	7.78	3956	22
	(SE)	3606	0.103	0.84	8	6243	1.02	636	3.2
	N	2015	37	38	38	2011	37	2015	173
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	38813	0.26	2.03	39.5	139830	7.64	19148	9.1
	(SE)	7330	0.044	0.36	3.6	15278	0.63	1342	0.6
	N	2027	176	185	185	2018	176	2027	2027

Table 32. Expanded Statewide and Regional Summaries of Black Duck Hunting in Virginia During the 2007-2008 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	8850	0.101	0.84	25.7	88050	8.53	10516	58.4
	(SE)	2318	0.019	0.21	4.4	13300	0.98	1020	3.8
	N	2015	99	101	101	2011	99	2015	173
2	ESTIMATE	833	0.082	0.36	9.1	10224	4.67	2291	12.7
	(SE)	589	0.045	0.25	6.3	3048	0.98	486	2.5
	N	2015	21	22	22	2011	21	2015	173
3	ESTIMATE	104	0.017	0.17	16.7	6051	9.67	625	3.5
	(SE)	104	0.015	0.17	16.7	3244	3.68	255	1.4
	N	2015	6	6	6	2011	6	2015	173
4	ESTIMATE	0	0	0	0	1669	2.67	625	3.5
	(SE)	0	0	0	0	794	0.71	255	1.4
	N	2015	6	6	6	2011	6	2015	173
5	ESTIMATE	2395	0.08	0.61	21.1	30046	7.78	3956	22
	(SE)	992	0.027	0.23	6.7	6243	1.02	636	3.2
	N	2015	37	38	38	2011	37	2015	173
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	12213	0.088	0.64	20.5	139830	7.64	19148	9.1
	(SE)	2572	0.014	0.13	3	15278	0.63	1342	0.6
	N	2027	176	185	185	2018	176	2027	2027

Table 33. Expanded Statewide and Regional Summaries of Other Duck Hunting in Virginia During the 2007-2008 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	58826	0.65	5.59	46.5	88050	8.53	10516	58.4
	(SE)	13131	0.103	1.13	5	13300	0.98	1020	3.8
	N	2015	99	101	101	2011	99	2015	173
2	ESTIMATE	3540	0.347	1.55	27.3	10224	4.67	2291	12.7
	(SE)	1850	0.124	0.76	9.7	3048	0.98	486	2.5
	N	2015	21	22	22	2011	21	2015	173
3	ESTIMATE	1041	0.172	1.67	33.3	6051	9.67	625	3.5
	(SE)	793	0.092	1.17	21.1	3244	3.68	255	1.4
	N	2015	6	6	6	2011	6	2015	173
4	ESTIMATE	0	0	0	0	1669	2.67	625	3.5
	(SE)	0	0	0	0	794	0.71	255	1.4
	N	2015	6	6	6	2011	6	2015	173
5	ESTIMATE	14472	0.483	3.66	39.5	30046	7.78	3956	22
	(SE)	4799	0.121	1.07	8	6243	1.02	636	3.2
	N	2015	37	38	38	2011	37	2015	173
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	79799	0.55	4.17	41.1	139830	7.64	19148	9.1
	(SE)	14058	0.072	0.68	3.6	15278	0.63	1342	0.6
	N	2027	176	185	185	2018	176	2027	2027

Table 34. Expanded Statewide and Regional Summaries of Total Duck (All Species) Hunting in Virginia During the 2007-2008 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	126399	1.404	12.02	75.2	88050	8.53	10516	58.4
	(SE)	24864	0.171	2.07	4.3	13300	0.98	1020	3.8
	N	2015	99	101	101	2011	99	2015	173
2	ESTIMATE	14681	1.347	6.41	63.6	10224	4.67	2291	12.7
	(SE)	5056	0.183	1.78	10.5	3048	0.98	486	2.5
	N	2015	21	22	22	2011	21	2015	173
3	ESTIMATE	7496	1.241	12	83.3	6051	9.67	625	3.5
	(SE)	4692	0.464	6.24	16.7	3244	3.68	255	1.4
	N	2015	6	6	6	2011	6	2015	173
4	ESTIMATE	1562	0.938	2.5	66.7	1669	2.67	625	3.5
	(SE)	1014	0.309	1.38	21.1	794	0.71	255	1.4
	N	2015	6	6	6	2011	6	2015	173
5	ESTIMATE	44562	1.458	11.26	76.3	30046	7.78	3956	22
	(SE)	11866	0.217	2.42	7	6243	1.02	636	3.2
	N	2015	37	38	38	2011	37	2015	173
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	198929	1.372	10.39	73.5	139830	7.64	19148	9.1
	(SE)	28223	0.12	1.28	3.3	15278	0.63	1342	0.6
	N	2027	176	185	185	2018	176	2027	2027

Table 35. Expanded Statewide and Regional Summaries of Goose (September) Hunting in Virginia During the 2007-2008 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	9442	0.958	3.37	63	9862	3.52	2801	41.5
	(SE)	2878	0.344	0.82	9.5	3208	0.94	536	6.2
	N	2022	27	27	27	2021	27	2022	65
2	ESTIMATE	3735	1.8	6	50	2076	3.33	623	9.2
	(SE)	2795	0.572	4.12	22.4	1155	1.38	254	3.6
	N	2022	6	6	6	2021	6	2022	65
3	ESTIMATE	3113	2.5	6	60	1246	2.4	519	7.7
	(SE)	2621	0.874	4.79	24.5	777	1.17	232	3.3
	N	2022	5	5	5	2021	5	2022	65
4	ESTIMATE	0	0	0	0	415	4	104	1.5
	(SE)	0				415		104	1.5
	N	2022	1	1	1	2021	1	2022	65
5	ESTIMATE	10895	1.125	4.04	65.4	8305	3.2	2698	40
	(SE)	3756	0.325	1.17	9.5	2370	0.67	526	6.1
	N	2022	25	26	26	2021	25	2022	65
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	27738	1.144	3.83	60	22389	3.22	7245	3.5
	(SE)	6074	0.234	0.71	5.9	4231	0.47	851	0.4
	N	2027	67	70	70	2024	67	2027	2027

Table 36. Expanded Statewide and Regional Summaries of Goose (November-March) Hunting in Virginia During the 2007-2008 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	24963	0.531	3.24	67.6	45522	6.15	7697	56.5
	(SE)	5953	0.112	0.68	5.5	8119	0.84	878	4.3
	N	2017	71	74	74	2014	71	2017	131
2	ESTIMATE	1976	0.704	2.71	71.4	2813	3.86	728	5.3
	(SE)	1226	0.211	1.44	18.4	1312	1.14	275	2
	N	2017	7	7	7	2014	7	2017	131
3	ESTIMATE	2184	0.6	3.5	66.7	3646	5.83	624	4.6
	(SE)	1269	0.386	1.59	21.1	2069	2.52	254	1.8
	N	2017	6	6	6	2014	6	2017	131
4	ESTIMATE	2704	1.182	3.25	50	2292	2.75	832	6.1
	(SE)	1777	0.518	1.92	18.9	942	0.62	294	2.1
	N	2017	8	8	8	2014	8	2017	131
5	ESTIMATE	18827	0.858	5.03	80.6	21980	5.86	3745	27.5
	(SE)	5074	0.164	1.09	6.7	4787	0.84	619	3.9
	N	2017	36	36	36	2014	36	2017	131
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	56926	0.684	3.9	69.5	79829	5.7	14594	7
	(SE)	8929	0.092	0.53	3.9	9807	0.52	1186	0.6
	N	2027	135	141	141	2021	135	2027	2027

Table 37. Expanded Statewide and Regional Summaries of Total Goose Hunting in Virginia During the 2007-2008 Hunting Season.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENSES
	ESTIMATE	84664	0.786	5.21	70.7	102195	6.64	16250	7.7
	(SE)	13063	0.108	0.7	3.6	13043	0.67	1246	0.6
	N	2027	148	157	157	2018	148	2027	2027

Table 38. Expanded Statewide and Regional Summaries of Red Fox Hunting in Virginia During the 2007-2008 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	938	0.04	0.45	30	21189	10.63	2084	14.6
	(SE)	429	0.027	0.18	10.5	10883	5.02	464	3
	N	2013	19	20	20	2000	19	2013	137
2	ESTIMATE	2710	0.049	0.6	37.2	42484	10.13	4482	31.4
	(SE)	764	0.018	0.15	7.5	12426	2.53	676	4
	N	2013	40	43	43	2000	40	2013	137
3	ESTIMATE	521	0.086	0.5	50	3671	4.38	1042	7.3
	(SE)	233	0.057	0.17	16.7	1572	1.13	329	2.2
	N	2013	8	10	10	2000	8	2013	137
4	ESTIMATE	3231	0.191	0.89	48.6	13742	4.23	3648	25.5
	(SE)	935	0.085	0.21	8.6	5141	1.41	611	3.7
	N	2013	31	35	35	2000	31	2013	137
5	ESTIMATE	2501	0.053	0.83	51.7	41750	15.31	3022	21.2
	(SE)	705	0.019	0.18	9.4	13212	3.89	557	3.5
	N	2013	26	29	29	2000	26	2013	137
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	10971	0.065	0.7	45	124099	9.19	15629	7.4
	(SE)	1516	0.014	0.08	4.1	21656	1.41	1224	0.6
	N	2027	129	151	151	2005	129	2027	2027

Table 39. Expanded Statewide and Regional Summaries of Gray Fox Hunting in Virginia During the 2007-2008 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	4493	0.194	1.59	48.1	21555	8.24	2821	21.8
	(SE)	1864	0.096	0.6	9.8	8190	2.72	539	3.7
	N	2008	25	27	27	2005	25	2008	124
2	ESTIMATE	2716	0.065	0.63	36.6	40390	9.65	4284	33.1
	(SE)	766	0.024	0.15	7.6	11972	2.46	662	4.2
	N	2008	40	41	41	2005	40	2008	124
3	ESTIMATE	209	0.048	0.2	20	4395	4.2	1045	8.1
	(SE)	148	0.036	0.13	13.3	1717	1.02	330	2.5
	N	2008	10	10	10	2005	10	2008	124
4	ESTIMATE	1881	0.129	0.62	34.5	14545	4.79	3030	23.4
	(SE)	910	0.072	0.28	9	5255	1.52	559	3.8
	N	2008	29	29	29	2005	29	2008	124
5	ESTIMATE	836	0.038	0.47	23.5	22078	12.41	1776	13.7
	(SE)	490	0.024	0.26	10.6	9356	4.45	429	3.1
	N	2008	17	17	17	2005	17	2008	124
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	12524	0.102	0.85	41.3	104794	7.74	14801	7.1
	(SE)	2351	0.025	0.14	4.1	17960	1.16	1194	0.6
	N	2027	130	143	143	2014	130	2027	2027

Table 40. Expanded Statewide and Regional Summaries of Coyote Hunting in Virginia During the 2007-2008 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	314	0.025	0.21	21.4	8443	6.15	1464	7.5
	(SE)	181	0.02	0.11	11.4	3673	2.15	390	1.9
	N	2006	13	14	14	1988	13	2006	186
2	ESTIMATE	3033	0.037	0.38	27.3	59520	7.83	8053	41.4
	(SE)	787	0.013	0.09	5.1	14014	1.62	900	3.6
	N	2006	72	77	77	1988	72	2006	186
3	ESTIMATE	4079	0.121	1.15	50	25222	8.54	3556	18.3
	(SE)	1480	0.051	0.37	8.7	6376	1.47	605	2.8
	N	2006	28	34	34	1988	28	2006	186
4	ESTIMATE	837	0.03	0.22	16.7	21317	5.94	3765	19.4
	(SE)	362	0.014	0.09	6.3	6377	1.48	622	2.9
	N	2006	34	36	36	1988	34	2006	186
5	ESTIMATE	1987	0.07	0.76	40	15091	6.81	2615	13.4
	(SE)	829	0.031	0.28	10	5272	1.91	520	2.5
	N	2006	21	25	25	1988	21	2006	186
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	11592	0.056	0.54	32.9	135881	7.16	21425	10.2
	(SE)	1936	0.013	0.08	3.3	17907	0.8	1411	0.7
	N	2027	181	207	207	2001	181	2027	207

Table 41. Expanded Statewide and Regional Summaries of Raccoon Hunting in Virginia During the 2007-2008 Hunting Season.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE		TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT SUCCESSFUL HUNTERS	PERCENT HUNTERS PER REGION
				SEASONAL HARVEST	SEASONAL HUNTING					
1	ESTIMATE	26983	0.908	17.2	86.7	29806	18.93	1569	15	15
	(SE)	14337	0.206	8.27	9.1	13972	7.68	404	3.6	3.6
	N	2006	15	15	15	1999	15	2006	100	100
2	ESTIMATE	20499	0.344	7.54	65.4	56778	21.64	2719	26	26
	(SE)	10918	0.106	3.81	9.5	20781	6.79	530	4.4	4.4
	N	2006	25	26	26	1999	25	2006	100	100
3	ESTIMATE	23532	0.599	12.5	88.9	29596	20.14	1883	18	18
	(SE)	8232	0.1	3.34	7.6	11058	5.48	442	3.9	3.9
	N	2006	14	18	18	1999	14	2006	100	100
4	ESTIMATE	30853	0.414	11.8	72	69792	28.91	2615	25	25
	(SE)	17134	0.169	6.24	9.2	24317	8.28	520	4.4	4.4
	N	2006	23	25	25	1999	23	2006	100	100
5	ESTIMATE	7739	0.176	4.63	68.8	44079	26.25	1673	16	16
	(SE)	3629	0.146	1.9	12	33766	19.63	417	3.7	3.7
	N	2006	16	16	16	1999	16	2006	100	100
PERCENT OF TOTAL LICENSEES										
STATEWIDE	ESTIMATE	115093	0.401	9.19	72.7	263471	23.63	12524	6	6
	(SE)	26279	0.083	1.94	4.1	52711	4.19	1104	0.5	0.5
	N	2027	107	121	121	2013	107	2027	2027	2027

Table 42. Expanded Statewide and Regional Summaries of Bobcat Hunting in Virginia During the 2007-2008 Hunting Season.

REGION	STATISTIC	TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL HUNTING DAYS	TOTAL HUNTERS	PERCENT HUNTERS PER REGION
1	ESTIMATE	624	0.056	0.55	54.5	9371	9	1144	15.7
	(SE)	254	0.026	0.16	15.7	4905	3.96	344	4.4
	N	2017	10	11	11	2015	10	2017	70
2	ESTIMATE	520	0.035	0.22	17.4	14785	6.17	2392	32.9
	(SE)	275	0.019	0.11	8.1	4150	1.19	496	5.7
	N	2017	23	23	23	2015	23	2017	70
3	ESTIMATE	520	0.051	0.36	35.7	10204	7	1456	20
	(SE)	232	0.023	0.13	13.3	4638	2.67	388	4.8
	N	2017	14	14	14	2015	14	2017	70
4	ESTIMATE	520	0.038	0.29	23.5	10932	6.56	1768	24.3
	(SE)	275	0.03	0.14	10.6	5087	2.66	427	5.2
	N	2017	16	17	17	2015	16	2017	70
5	ESTIMATE	208	0.08	0.4	40	2603	5	520	7.1
	(SE)	147	0.073	0.24	24.5	1392	1.64	232	3.1
	N	2017	5	5	5	2015	5	2017	70
PERCENT OF TOTAL LICENSEES									
STATEWIDE	ESTIMATE	3312	0.047	0.4	32.5	49101	6.39	8280	3.9
	(SE)	771	0.012	0.08	5.3	9461	1	908	0.4
	N	2027	74	80	80	2021	74	2027	2027

Table 43. Responses to the question, 'During the 2007-2008 hunting season did you introduce and take a new hunter (youth or adult) hunting in Virginia?' (Q18)		
		Responses (%)
	Yes	32.9
	No	67.1
		Mean
	If yes, how old was the hunter?	15.8

Table 44. Responses to the question, 'If no, please indicate which obstacles prevented you from recruiting a new hunter.' (Q18)	
	Responses (%)
Required hunter education course	7.6
Required license	4.1
Cost of license	4.7
Lack of hunter education courses	3.9
Access to hunting lands	13.9
Did not know any interested youth	46.3
There were no obstacles	28.6

Table 45. Responses to the statement, 'Please indicate the level of importance you place on hunting each of the following species:' (Q19)								
	Mean Score	Responses (%)						
		1	2	3	4	5	6	7
Deer	6.2	3.0	1.0	1.2	8.0	7.4	14.1	65.3
Fall Turkey	4.2	15.5	8.1	9.1	24.0	12.3	9.8	21.1
Spring Turkey	4.5	16.7	6.9	6.8	18.7	10.3	10.2	30.4
Bear	3.1	39.1	9.6	8.4	16.4	7.4	6.0	13.1
Rabbit	3.5	24.9	11.2	11.9	22.4	9.6	6.8	13.0
Squirrel	3.7	20.8	9.3	13.1	23.8	11.0	8.9	13.0
Quail	2.9	41.4	13.0	8.5	16.1	6.8	5.1	9.2
Raccoon	2.4	52.4	14.1	7.0	10.6	4.1	3.2	8.5
Fox	2.7	46.8	11.4	8.5	12.5	6.7	4.9	9.3
Waterfowl	3.0	44.9	9.1	8.2	11.8	5.8	6.1	14.1
Mean score, where 1=Not at all important; 4=Moderately Important; 7=Extremely Important								

Table 46. Responses of hunters to statement 'Please indicate the number of days spent during the 2007-2008 hunting season on each of these types of land. ' (Q20)

Type of land	Mean number of days hunted
National Forest	2.98 days
Military Land	0.38 days
WMA's	0.61 days
State Parks	0.13 days
State Forest	0.47 days
Private Lands	19.35 days

Table 47. Responses to the question, 'Which species did you hunt during the 2007-2008 season in VA?' (Q21)

	Responses (%)	
	Hunted with dogs	Hunted without dogs
Deer	28.6	62.3
Bear	3.6	16.7
Raccoon	6.6	8.2
Rabbit	16.2	12.2
Fox	4.0	12.3
Quail	5.9	9.7
Squirrel	3.9	27.4
Fall Turkey	3.0	28.0
Ruffed Grouse	2.3	11.1

Table 48. Responses to the question, 'If you hunted in Virginia in the last 12 months, how many days did you spend hunting each of the following species in VA with or without hounds' (Q22)

	Average number of days hunted	
	With hounds	Without hounds
Bear	1.48	2.37
Deer	9.28	13.47
Raccoon	6.14	0.46
Fox	3.31	0.97
Rabbit	4.75	1.17

Table 49. Responses to the question, 'Of the days you hunted in Virginia in the last 12 months, how many days did you spend hunting with or without hounds on public land? On private land?' (Q23)

	Average number of days hunted	
	With hounds	Without hounds
Public Land	2.51	4.63
Private Land	11.92	12.94

Table 50. Responses to the statement, 'Please indicate the level of frequency that best describes each of the following in the last 12 months: ' (Q24)					
	Often	Sometimes	Rarely	Never	Does not apply
Hound hunters held charitable events in my community	7.9	18.4	11.6	30.8	31.3
Game animals that I was pursuing were scared off by someone else's hounds	8.4	20.3	20.0	32.9	18.6
Hound hunters held events for youth in my community	5.0	17.5	12.7	35.8	29.0
Game animals that I was pursuing were shot by another hunter	4.2	20.3	25.4	31.0	19.1
Hound hunting helped control wildlife populations in my community	28.2	16.0	9.3	19.8	26.6
I, my family, or my hunting partners felt threatened by hound hunters	5.3	7.8	8.3	60.6	18.1
Game animals were driven to me by someone else's hounds	6.5	30.5	19.4	28.3	15.4

Table 51. Responses to the question, 'Do you currently belong to a hunt club in Virginia?' (Q25)					
					Responses (%)
Yes					32.3
No					67.7
If yes, does the hunt club allow hound hunting? (Q25a)					
Yes					79.3
No					20.7

Table 52. Responses to the question, 'Do you think quail populations in your area are:' (Q26)	
	Responses (%)
Increasing	5.7
Stable	12.3
Decreasing	52.5
No opinion	29.5

Table 53. Responses to the question, 'Did you hunt quail during the 2007-2008 season?' (Q27)	
	Responses (%)
Yes	8.7
No	91.3

Table 54. Responses to the statement, 'Please describe your quail hunting activity in Virginia:' (Q28)	
	Responses (%)
No interest or opportunity to hunt quail	57.3
Recently started to hunt quail	3.9
Hunted quail for years and continue to hunt quail	5.8
Hunted quail previously, but have quit hunting quail	33.0

Table 55. Responses to the statement, 'If you no longer hunt quail, please indicate how important each of the following factors were in your decision to stop hunting quail.:' (Q28a)								
	Mean Score	Responses (%)						
		1	2	3	4	5	6	7
Not enough time	3.2	30.5	12.7	12.3	22.7	5.3	6.8	9.7
Quail populations too low	6.0	6.2	2.6	1.9	6.9	4.8	17.2	60.5
No place to hunt	4.2	17.2	11.3	8.1	21.7	7.3	13.6	20.9
Rather hunt other species	3.7	22.4	12.9	10.8	18.8	9.0	9.8	16.3
Mean score, where 1=Not at all important; 4=Moderately Important; 7=Extremely Important								

Table 56. Responses to the question, 'Would you be willing to pay for a habitat stamp to help fund the creation of habitats to restore quail populations?' (Q29)		
		Responses (%)
	Yes	52.1
	No	47.9

Table 57. Responses to the question, 'How would you rate VDGIF's management of quail populations in the state' (Q30)							
Responses (%)							
1	2	3	4	5	6	7	8
15.4	7.2	6.9	9.2	2.2	1.0	0.6	57.5
1=Poor; 4=Adequate; 7=Excellent, 8=Don't know							

Table 58. Responses to the question, 'Do you consider yourself an?:' (Q31)	
	Responses (%)
Incidental quail hunter	48.1
Occasional quail hunter	43.2
Quail hunter	5.9
Avid quail hunter	2.8

Table 59. Responses to the question, 'Overall, how do you rate the quality of your quail hunting?' (Q32)							
Responses (%)							
1	2	3	4	5	6	7	8
43.4	18.9	11.9	12.1	2.2	1.8	0.9	8.8
1=Poor; 4=Adequate; 7=Excellent, 8=Don't know							

Table 60. Responses to the question, 'Have you ever hunted quail on a shooting preserve?' (Q33)		
		Responses (%)
	Yes	26.2
	No	73.8

Table 61. Responses to the statement, 'Please indicate how much emphasis DGIF should put on the following programs:' (Q34)								
	Mean Score	Responses (%)						
		1	2	3	4	5	6	7
Quail Populations on WMA's	5.1	2.6	4.2	6.2	27.1	16.0	19.5	24.2
Technical assistance to landowners interested in quail management	5.4	2.0	2.6	5.7	18.6	17.0	24.8	29.3
Finding private lands with quail where hunting is permitted	4.8	4.3	7.5	10.1	22.2	18.8	15.4	21.7
Quail habitat development on commercial lands	5.3	2.5	3.6	5.8	17.3	17.1	25.5	28.2
Information on shooting preserves for quail hunters	4.3	9.0	9.2	11.3	26.1	15.9	13.5	15.0
Equipment for landowners that is necessary for managing quail habitat	4.9	4.9	5.9	8.9	23.1	16.0	18.4	22.8
Assistance such as seed to landowners interested in quail habitat	5.4	4.2	3.4	3.8	14.5	15.0	25.8	33.3
Mean score, where 1=Less Emphasis; 4=Some Emphasis; 7=More Emphasis								

Table 62. Perceptions of fall turkey hunters regarding overall quality of 2007 fall turkey season (Q36)						
		Regions				
	Statewide	1	2	3	4	5
	3.81	4.46	4.17	4.05	3.35	3.52
Mean scores, where 1=Poor, 4=Adequate, 7=Excellent						

Table 63. Perceptions of spring turkey hunters regarding overall quality of 2008 spring turkey season (Q38)						
		Regions				
	Statewide	1	2	3	4	5
	4.15	4.32	4.49	4.18	4.00	4.30
Mean scores, where 1=Poor, 4=Adequate, 7=Excellent						

Table 64. Responses to the question, 'Did higher fuel prices affect the number of days you hunted during the 2008 spring turkey season?' (Q39)	
	Responses (%)
No	55.2
Yes, I hunted 1-3 fewer days	19.2
Yes, I hunted 4-6 fewer days	12.9
Yes, I hunted 7 or more fewer days	12.7

Table 65. Responses to the question, 'Did higher fuel prices affect the distance you traveled to hunt during the 2008 spring turkey season?' (Q40)	
	Responses (%)
Yes	49.5
No	50.5

Table 66. Responses to the question, ' If you killed a black bear during any of the 2007-2008 hunting seasons, did you kill it while:' (Q41)

		Responses (%)
	Deer hunting?	48.3
	Hunting for other game?	3.4
	Hunting for bears?	48.3

Table 67. Responses to the question, 'During the 2007-2008 BEAR season, did you:' (Q42)

	Responses (%)	
	Yes	No
Hunt during the bear archery season?	53.1	46.9
Hunt during the bear muzzleloader season?	51.5	48.5
Hunt with a gun without dogs	71.6	28.4
Hunt with a gun using dogs	43.1	56.9

Table 68. Responses to the question, 'Did you participate in the 2007 bear chase season?' (Q43)

	Responses (%)	
	Yes	No
	20.2	79.8

Table 69. Responses to the statement, 'If you hunted specifically for foxes during the 2007-2008 season, please indicate the number of days you hunted and the number of foxes you killed in each of the following categories' (Q44)

	Responses (Mean)	
	Days Hunted/Chased	Foxes killed
Hunted foxes from horseback with hounds	10.06	1.21
Hunted foxes with hounds only	6.02	1.08
Hunted foxes with electronic calls	3.56	1.66
Hunted foxes with mouth calls	1.97	1.33
Hunted foxes in foxhound enclosures	4.5	0.44
Hunted foxes without calls and without hounds	2.35	1.26

Table 70. Responses to the question, 'Did you hunt/chase coyotes with hounds during the 2007-2008 season?' (Q45)

	Responses (%)
Yes	6.4
No	93.6

Table 71. Responses to the question, 'If yes, which of the following categories describes which species you were hunting when you hunted/chased coyotes? Also please list the number of coyotes killed while hunting in each category ' (Q45a)

	Yes (%)	Coyotes killed (Mean)
Hunting/chasing coyotes specifically	24.8	1.32
Hunting/chasing foxes	18.8	4.42
Hunting/chasing foxes & coyotes at the same time	20.8	0.33
Hunting/chasing species other than foxes or coyotes	41.6	0.75

Table 72. Responses to the question, 'How would you rate the size of the deer herd in the area in which you hunted most in 2007-2008:' (Q46)

		Regions				
	Statewide	1	2	3	4	5
	4.56	4.70	4.71	4.45	3.50	4.84

Mean scores, where 1=Low, 4=Moderate, 7=High

Table 73. Responses to the statement, 'When compared to previous years, would you say the number of deer in the area you hunted in 2007-2008:' (Q47)

Responses (%)		Regions				
	Statewide	1	2	3	4	5
Declined dramatically	5.5	2.9	3.2	5.1	18.7	4.1
Declined	17.5	14.8	16.2	20.6	32.1	15.0
Remained about the same	45.7	49.5	49.9	41.9	35.8	48.3
Increased	23.2	25.1	24.0	23.7	10.6	26.5
Increased dramatically	4.2	3.2	4.8	6.7	2.0	2.4
No opinion	3.9	4.5	1.8	2.0	0.8	3.7

Table 74. Responses to the statement, 'What advice would you give to DGIF regarding how to manage the deer herd?' (Q48)

Responses (%)		Regions				
	Statewide	1	2	3	4	5
Increase the herd	20.2	17.4	15.4	23.8	42.3	19.0
Stabilize the herd	43.4	49.3	44.4	44.8	37.2	48.4
Decrease the herd	19.1	14.8	23.6	21.0	8.4	17.3
No opinion	17.4	18.4	16.6	10.3	12.1	15.2

Table 75. Responses to the question, 'In the past year, would you say you've heard a great deal, a moderate amount, a little, or nothing about Hemorrhagic Disease (HD)?' (Q49)

Responses (%)		Regions				
	Statewide	1	2	3	4	5
A great deal	8.5	5.5	8.3	13.1	14.4	7.6
A moderate amount	24.6	26.5	26.4	24.2	27.6	26.1
A little	37.1	39.5	39.4	37.7	32.5	38.8
Nothing	23.3	22.3	21.3	20.2	22.2	22.3
Don't know	6.5	6.1	4.6	4.8	3.3	5.2

Table 76. Responses to the question, 'Overall, how do you rate the quality of the following DEER seasons during 2007-2008?' (Q51)

		Regions				
	Statewide	1	2	3	4	5
Archery	4.49	4.50	4.50	4.49	4.49	4.51
Muzzleloader	4.42	4.43	4.43	4.42	4.41	4.43
Firearms	4.41	4.47	4.43	4.43	4.39	4.46
Mean scores, where 1=Poor, 4=Adequate, 7=Excellent						

Table 77. Responses to the statement, 'Please indicate your level of support or opposition to the following daily deer bag limits West of the Blue Ridge:' (Q52)

		Regions				
	Statewide	1	2	3	4	5
One deer per day	4.10	4.09	4.05	4.11	4.13	4.08
Two deer per day	4.88	4.87	4.91	4.93	4.88	4.90
Mean scores, where 1=Strongly oppose, 4=Neither oppose nor support, 7=Strongly support						

Table 78. Responses to the statement, 'Please indicate your level of support or opposition to the following daily deer bag limits for antlerless deer on private land West of the Blue Ridge:' (Q53)

		Regions				
	Statewide	1	2	3	4	5
One antlerless deer per day	4.16	4.15	4.15	4.20	4.18	4.17
Two antlerless deer per day	4.76	4.74	4.79	4.81	4.75	4.78
Mean scores, where 1=Strongly oppose, 4=Neither oppose nor support, 7=Strongly support						

Table 79. Responses to the statement, 'Please indicate your level of support or opposition to the following daily deer bag limits for antlerless deer on National Forests West of the Blue Ridge:' (Q54)

		Regions				
	Statewide	1	2	3	4	5
One antlerless deer per day	4.39	4.37	4.38	4.42	4.44	4.40
Two antlerless deer per day	4.24	4.22	4.25	4.24	4.19	4.24
Mean scores, where 1=Strongly oppose, 4=Neither oppose nor support, 7=Strongly support						

Table 80. Responses to the question, 'While gun deer hunting during the 2007-2008 season were you disturbed by:' (Q55)						
Responses (%)		Regions				
	Statewide	1	2	3	4	5
Hunting dogs	23.5	25.4	25.7	25.3	25.6	25.5
Other hunters	34.9	36.5	37.2	37.6	38.2	37.2
Other outdoor users	22.3	23.6	23.6	24.0	24.7	24.1

Table 81. Responses to the statement, 'While deer (gun) hunting, how concerned are you about disturbance from:' (Q56)						
		Regions				
	Statewide	1	2	3	4	5
Hunting dogs	2.93	2.98	3.05	3.06	3.07	3.03
Other hunters	3.73	3.80	3.84	3.85	3.86	3.85
Other outdoor users	3.37	3.41	3.43	3.43	3.45	3.46
Mean scores, where 1=Not at all concerned; 4=Neither concerned nor unconcerned; 7=Very concerned						

Table 82. Responses to the question, 'Did you use the 2007-2008 Hunting and Trapping in Virginia Digest?' (Q57)				
		Responses (%)		
		Yes	47.2	
		No	52.8	
If yes, did you use the online or the print version of the digest? (Q57a)				
		Online	10.0	
		Print	60.0	
		Both online and print	30.0	
If you used the Hunting and Trapping in Virginia Digest, which sections were useful to you? (Q57b)				
Responses (%)				
Hunting season dates	97.6		Quota/Managed Hunt Listing	13.8
Species bag limits	90.0		Wildlife Management Area	29.0
Hunting license information	63.2		Quick Reference Page for Seasons	54.2
Trapping regulations	10.2		Outreach Programs	8.6
Trapping season dates	10.3		Species Information	38.1
Sunrise/Sunset Table	47.4		Firearms Ordinances	59.7
Quota Hunt applications	19.4		Special Youth Regs/Opportunities	27.8
County Harvest Table	38.9		Wildlife Habitat Programs	19.5
Public Range Listing	18.3			

Table 83. Responses to the question, 'How old are you?' (Q58)	
	Years (Mean)
	46.1

Table 84. Responses to the question, 'Are you Male or Female?' (Q59)	
	Responses (%)
Male	95.8
Female	4.2

References

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

APPENDIX A

SURVEY INSTRUMENT

Virginia Department of Game and Inland Fisheries Hunter Survey

Please answer each of the following questions completely. Results from the study will be reported only in an aggregate total and no individual responses will be reported.

1. Did you purchase a Virginia resident hunting license for the 2007-2008 hunting season (July 1, 2007-June 30, 2008)?

Yes

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

2. What type(s) of licenses did you purchase? (✓ all that apply)

- State resident license (allowing you to hunt statewide)
- County/City license (allowing you to hunt only in your county/city of residence)
- Senior license (for residents 65 years or older)
- Sportsman's License (allowing you to hunt and fish statewide)
- Bear, Deer, Turkey license
- Archery License
- Muzzleloading License
- Crossbow License
- Other (please specify) _____

INSTRUCTIONS:

- In each box below, record the number of animals you **personally harvested** in 2007-2008. Be as accurate as possible.
 - Do not include game taken by anyone other than yourself
 - If you hunted an animal, but were unsuccessful, place a **zero (0)** in the space.
 - If you did not hunt a particular animal, leave the space blank.
- The following questions relate to the number of game animals you harvested during the 2007-2008 hunting season.

3. Small Game (Birds) Harvest:

Dove	Quail	Woodcock	Ruffed Grouse	Crow

4. Small Game (Mammals) Harvest:

Rabbit	Gray Squirrel	Fox Squirrel	Groundhog/Woodchuck

5. Big Game Harvest:

Deer						Turkey		Bear
Archery/Crossbow		Muzzleloader		Gun		Fall 2007	Spring 2008	
Bucks	Does	Bucks	Does	Bucks	Does			

6. Waterfowl Harvest:

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

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

Red Fox	Gray Fox	Coyote	Raccoon	Bobcat

The following questions relate to the time you spent afield. Below, **please indicate the number of days in which each species was the PRIMARY animal you hunted.** Count partial days as 1 day hunted.

8. Small Game (Birds) Days Hunted:

Dove	Quail	Woodcock	Ruffed Grouse	Crow

9. Small Game (Mammals) Days Hunted:

Rabbit	Gray Squirrel	Fox Squirrel	Groundhog/Woodchuck

10. Big Game Days Hunted:

Deer			Turkey		Bear
Archery/Crossbow	Muzzleloader	Gun	Fall 07	Spring 08	

11. Waterfowl Days Hunted:

Ducks	Geese	
	September Season	November-March Season

12. Furbearer Days Hunted:

Red Fox	Gray Fox	Coyote	Raccoon	Bobcat

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

13. Small Game (Birds) Region Hunted:

Dove	Quail	Woodcock	Ruffed Grouse	Crow

14. Small Game (Mammals) Region Hunted:

Rabbit	Gray Squirrel	Fox Squirrel	Groundhog/Woodchuck

15. Big Game Region Hunted:

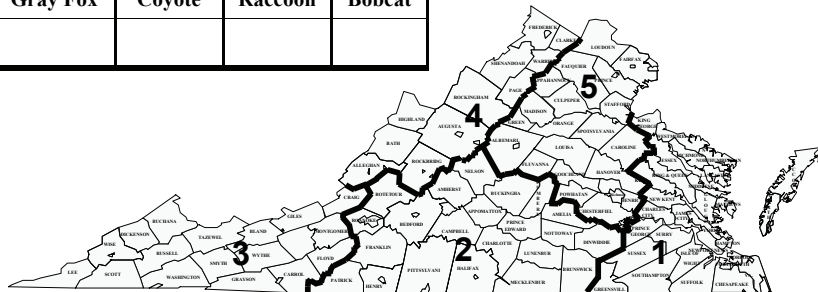
Deer			Turkey		Bear
Archery/Crossbow	Muzzleloader	Gun	Fall 07	Spring 08	

16. Waterfowl Region Hunted:

Ducks	Geese	
	September Season	November-March Season

17. Furbearer Region Hunted:

Red Fox	Gray Fox	Coyote	Raccoon	Bobcat



18. During the 2007-2008 hunting season, did you introduce and take a new hunter (youth or adult) hunting in Virginia? Yes No

If yes, how old was the hunter? _____ Years

If no, please indicate which obstacles prevented you from recruiting a new hunter (✓ all that apply)

- Required hunter education course
- Required license
- Cost of license
- Lack of hunter education courses
- Access to hunting lands
- Did not know any interested youth or adults
- There were no obstacles

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

	Not at all Important		Moderately Important			Extremely Important	
	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷
Deer	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷
Fall Turkey	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷
Spring Turkey	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷
Bear	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷
Rabbit	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷
Squirrel	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷
Quail	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷
Raccoon	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷
Fox	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷
Waterfowl	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷

20. Please indicate the number of days spent during the 2007-2008 hunting season on each of these types of land. If you did not hunt on a type of land, please indicate that you hunted **0 days** for that category.

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

21. We are interested in learning more about your dog hunting activity (all dog types) in Virginia during the 2007-2008 hunting season. *Participation in chasing or training with dogs is considered hunting.*

Which species did you hunt during the 2007-2008 season in VA? (✓ all that apply)

	Hunted with dogs	Hunted without dogs
Deer	<input type="checkbox"/>	<input type="checkbox"/>
Bear	<input type="checkbox"/>	<input type="checkbox"/>
Raccoon	<input type="checkbox"/>	<input type="checkbox"/>
Rabbit	<input type="checkbox"/>	<input type="checkbox"/>
Fox	<input type="checkbox"/>	<input type="checkbox"/>
Quail	<input type="checkbox"/>	<input type="checkbox"/>
Squirrel	<input type="checkbox"/>	<input type="checkbox"/>
Fall Turkey	<input type="checkbox"/>	<input type="checkbox"/>
Ruffed Grouse	<input type="checkbox"/>	<input type="checkbox"/>

The following questions pertain to your personal experiences with hound-hunting during the last 12 months, **regardless if you hunted with hounds or not**. NOTE: These questions do not include your experiences with dogs other than hounds (e.g., bird dogs). *Participation in chasing or training with hounds is considered hunting.*

22. If you hunted in Virginia in the last 12 months, how many days did you spend hunting each of the following species in VA with or without hounds?

	Number of days <u>with</u> hounds	Number of days <u>without</u> hounds
Bear	_____	_____
Deer	_____	_____
Raccoon	_____	_____
Fox	_____	_____
Rabbit	_____	_____

23. Of the days you hunted in Virginia in the last 12 months, how many days did you spend hunting with or without hounds on public land? On private land? *Participation in chasing or training with hounds is considered hunting.*

	Number of days <u>with</u> hounds	Number of days <u>without</u> hounds
Public land	_____	_____
Private land	_____	_____

24. Please indicate the level of frequency that best describes each of the following in the last 12 months:

	Often	Sometimes	Rarely	Never	Does not apply
a. Hound hunters held charitable events in my community	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵
b. Game animals that I was pursuing were scared off by someone else's hounds	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵
c. Hound hunters held events for youth in my community	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵
d. Game animals that I was pursuing were shot by another hunter	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵
e. Hound hunting helped control wildlife populations in my community	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵
f. I, my family, or my hunting partners felt threatened by hound hunters	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵
g. Game animals were driven to me by someone else's hounds	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵

25. Do you currently belong to a hunt club in Virginia?

- Yes
- No (Please go to **Question 26**)

25a. If yes, does the hunt club allow hound hunting?

- Yes
- No

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

26. Do you think quail populations in your area are: (✓ only one)

- Increasing
- Stable
- Decreasing
- No opinion

27. Did you hunt quail during the 2007-08 season?

- Yes
- No

28. Please describe your quail hunting activity in Virginia:

- No interest or opportunity to hunt quail (go to Question 29)
- Recently started to hunt quail (go to Question 29)
- Hunted quail for years and continue to hunt quail (go to Question 29)
- Hunted quail previously, but have quit hunting quail (go to Question 28a)

28a. If you no longer hunt quail, please indicate how important each of the following factors were in your decision to stop hunting quail.

	Not at all Important		Moderately Important			Extremely Important	
Not enough time	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷
Quail populations too low	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷
No place to hunt	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷
Rather hunt other species	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷

29. Would you be willing to pay for a habitat stamp to help fund the creation of habitats to restore quail populations?

- Yes
- No

30. How would you rate VDGIF's management of quail populations in the state?

- | | | | | | | | |
|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Poor | | | Adequate | | | Excellent | Don't Know |
| <input type="checkbox"/> ¹ | <input type="checkbox"/> ² | <input type="checkbox"/> ³ | <input type="checkbox"/> ⁴ | <input type="checkbox"/> ⁵ | <input type="checkbox"/> ⁶ | <input type="checkbox"/> ⁷ | <input type="checkbox"/> ⁸ |

The following questions pertain to Quail hunting. **If you have never hunted quail, please skip to Question 35.**

31. Do you consider yourself an? (✓ only 1)

- Incidental Quail Hunter (shoot quail while hunting primarily for other game, e.g. rabbits)
- Occasional Quail Hunter (hunt with a friend who has bird dogs)
- Quail hunter (have bird dogs, hunt 1-10 times per year)
- Avid Quail hunter (have bird dogs, hunt >10 times per year)

32. Overall, how do you rate the quality of your quail hunting?

- Poor** **Adequate** **Excellent** **Don't Know**
 ¹ ² ³ ⁴ ⁵ ⁶ ⁷ ⁸

33. Have you ever hunted quail on a shooting preserve?

- Yes No

34. Please indicate how much emphasis you feel DGIF should put on the following programs:

	Less Emphasis		Some Emphasis			More Emphasis	
	1	2	3	4	5	6	7
Quail populations on WMA's	1	2	3	4	5	6	7
Technical assistance to landowners interested in quail management	1	2	3	4	5	6	7
Finding private lands with quail where hunting is permitted	1	2	3	4	5	6	7
Quail habitat development on commercial lands (forestry, power, etc.)	1	2	3	4	5	6	7
Information on shooting preserves for quail hunters	1	2	3	4	5	6	7
Equipment for landowners that is necessary for managing quail habitat	1	2	3	4	5	6	7
Assistance such as seed to landowners interested in quail habitat	1	2	3	4	5	6	7

The following questions pertain to Turkey hunting in 2007-2008. **If you did not hunt Turkeys during the 2007-2008 season, skip to Question 41.**

35. Please indicate the county where you most often hunted **Fall** turkeys during 2007.

If you did not hunt turkeys in the Fall, skip to Question 37.

_____ County

36. Overall, how do you rate the quality of your 2007 Fall turkey season?

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

37. Please indicate the county where you most often hunted **Spring Turkeys** during 2008 (Spring turkey season this year). **If you did not hunt turkeys in Spring 2008, skip to Question 41.**

_____ County

38. Overall, how do you rate the quality of your 2008 Spring turkey season?

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

39. Did higher fuel prices affect the number of days you hunted during the 2008 spring turkey season?

- No
- Yes, I hunted 1-3 fewer days
- Yes, I hunted 4-6 fewer days
- Yes, I hunted 7 or more fewer days

40. Did higher fuel prices affect the distance you traveled to hunt during the 2008 spring turkey season?

- Yes
- No

The following questions pertain to **BEAR** hunting in 2007-2008. **If you did not hunt BEARS during the 2007-2008 season, skip to Question 44.**

41. If you killed a black bear during any of the 2007-2008 hunting seasons, did you kill it while: (✓ only one)

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

42. During the 2007-2008 BEAR season, did you:

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

43. Did you participate in the 2007 bear chase season?

- Yes
- No

44. If you hunted specifically for foxes during the 2007-2008 season, please indicate the number of days you hunted and the number of foxes you killed in each of the following categories.

	<u>Days Hunted/Chased</u>	<u>Foxes Killed</u>
a. Hunted foxes from horseback with hounds	_____	_____
b. Hunted foxes with hounds only	_____	_____
c. Hunted foxes with electronic calls	_____	_____
d. Hunted foxes with mouth calls	_____	_____
e. Hunted foxes in foxhound enclosures	_____	_____
f. Hunted foxes without calls and without hounds	_____	_____

45. Did you hunt/chase coyotes with hounds during the 2007-2008 season?

- Yes
- No (go to Question 46)

45a. If yes, which of the following categories describes which species you were hunting when you hunted/chased coyotes? (✓all that apply)
Also, please list the number of coyotes you killed while hunting in each category.

- | | <u>Coyotes killed</u> |
|--|-----------------------|
| <input type="checkbox"/> Hunting/chasing coyotes specifically | _____ |
| <input type="checkbox"/> Hunting/chasing foxes | _____ |
| <input type="checkbox"/> Hunting/chasing foxes & coyotes at the same time | _____ |
| <input type="checkbox"/> Hunting/chasing species other than foxes or coyotes | _____ |

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

46. How would you rate the size of the DEER HERD in the area you hunted most in 2007-2008:

- | | | | | | | |
|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Low | | | Moderate | | | High |
| <input type="checkbox"/> ¹ | <input type="checkbox"/> ² | <input type="checkbox"/> ³ | <input type="checkbox"/> ⁴ | <input type="checkbox"/> ⁵ | <input type="checkbox"/> ⁶ | <input type="checkbox"/> ⁷ |

47. When compared to previous years, would you say the number of DEER in the area you hunted in 2007-2008: (✓ only one)

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

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

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

49. In the past year, would you say you've heard a great deal, a moderate amount, a little, or nothing about Hemorrhagic Disease (HD)? HD is also sometimes referred to as Hoof Disease. (✓ only one)

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

The following questions pertain to hunting DEER. **If you did not hunt DEER during the 2007-2008 season, skip to Question 57.**

50. Please indicate the county where you most often hunted DEER during the 2007-2008 firearms season.

_____ County

51. Overall, how do you rate the quality of the following DEER seasons during 2007-2008?

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

52. Please indicate your level of support or opposition to the following daily deer bag limits West of the Blue Ridge:

	Strongly Oppose		Neither oppose nor support			Strongly Support	
One deer per day	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷
Two deer per day	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷

53. Please indicate your level of support or opposition to the following daily deer bag limits for antlerless deer on private land West of the Blue Ridge:

	Strongly Oppose		Neither oppose nor support			Strongly Support	
One antlerless deer per day	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷
Two antlerless deer per day	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷

54. Please indicate your level of support or opposition to the following daily deer bag limits for antlerless deer on National Forest lands West of the Blue Ridge:

	Strongly Oppose		Neither oppose nor support			Strongly Support	
One antlerless deer per day	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷
Two antlerless deer per day	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷

55. While gun deer hunting during the 2007-2008 season, were you disturbed by:

Hunting Dogs?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Other hunters?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Other outdoor users?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

56. While deer (gun) hunting, how concerned are you about disturbance from:

	Not at all Concerned		Neither concerned Nor unconcerned			Very Concerned	
Hunting Dogs	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷
Other Hunters	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷
Other Outdoor Users	<input type="checkbox"/> ¹	<input type="checkbox"/> ²	<input type="checkbox"/> ³	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁷

57. Did you use the 2007-2008 Hunting and Trapping in Virginia Digest?

- Yes
- No (go to Question 58)

57a. If yes, did you use the online or print version of the digest?

- Online
- Print
- Both online and print versions

57b. If you used the Hunting and Trapping in Virginia Digest, which sections were useful to you? (✓ all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Hunting season dates | <input type="checkbox"/> Quota/Managed Hunt Listing |
| <input type="checkbox"/> Species bag limits | <input type="checkbox"/> Wildlife Management Area Listing |
| <input type="checkbox"/> Hunting license information | <input type="checkbox"/> Quick Reference Page for Seasons |
| <input type="checkbox"/> Trapping regulations | <input type="checkbox"/> Outreach Programs |
| <input type="checkbox"/> Trapping season dates | <input type="checkbox"/> Species Information |
| <input type="checkbox"/> Sunrise/Sunset Table | <input type="checkbox"/> Firearms Ordinances |
| <input type="checkbox"/> Quota Hunt applications | <input type="checkbox"/> Special Youth Regulations/
Opportunities |
| <input type="checkbox"/> County Harvest Table | <input type="checkbox"/> Wildlife Habitat Programs |
| <input type="checkbox"/> Public Range Listing | |

58. How old are you? _____ Years

59. Are you?

- Male
- Female

60. Please indicate where you reside in Virginia _____
County or City

Thank you for taking the time to complete this survey. Your answers are very important to the successful management of wildlife in Virginia. If you have questions regarding the study or this questionnaire, please contact the agency's Survey Coordinator, Coren Jagnow at 804-367-0730 or email her at coren.jagnow@dgif.virginia.gov

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

THANKS AGAIN!



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