

ALABAMA HUNTING SURVEY

2013 - 2014 SEASON

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STUDY LEADER



Federal Assistance Project

funded by your purchase of
hunting licenses and equipment.

ALABAMA DIVISION OF WILDLIFE
AND FRESHWATER FISHERIES

WILDLIFE RESTORATION PROGRAM

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Alabama Hunting Survey, 2013-2014 Season

There is a great demand for outdoor recreation in Alabama. Hunting makes up a significant portion of that demand and contributes greatly to the state's economy. Hunting seasons are scheduled each year for a wide variety of game animals. In order to make decisions to manage those animals it is necessary to gather as much information as practical concerning hunting activities.

Each year since 1963, the Alabama Division of Wildlife and Freshwater Fisheries has conducted a sample survey of licensed Alabama hunters to obtain information in the form of estimates for the number of hunters, man-days of hunting, and harvest levels for each of the game species. This year, survey forms were mailed to a stratified random sample of 10,344 drawn from the 263,419 Alabama hunting licensees. Of the 10,344 survey forms mailed, 658 or 6.36% were returned undeliverable. A total of 3,659 completed survey forms were returned (35.4%), (37.8%) of those delivered). A sample is used because it is not practical to contact all hunters each year. Because of this and other factors it is impossible to determine values that would be entirely free of error.

The estimates in this survey represent hunting by licensed hunters only, and do not include other legal hunting by hunters (i.e. those hunters not required to hold a license due to their age or because they hunt on their own property), nor do the estimates include illegal hunting without a license. Table 2 of this report indicates that 222,055 licensed individuals actually hunted in Alabama during the 2013-14 season. The 2011 National Survey of Fishing, Hunting and Wildlife Associated Recreation indicates approximately 535,000 residents (licensed and unlicensed) and non-residents hunted in Alabama. Of the 535,000 individuals that hunted in Alabama during 2011-2012 season, 249,686 were licensed. Comparison of those figures indicates that hunters who are not required to buy licenses contribute significantly to the overall hunting effort and harvest of game animals in this state.

In reviewing the current survey estimates, it is important to recognize that a degree of uncertainty must be associated with each of the estimates. This uncertainty is due to the estimates being based on a sample instead of a complete census of all licensed hunters. Consequently, each estimate for a hunting activity is likely to represent a value which deviates to some degree from the actual amount of hunting.

A measure of the degree of the uncertainty or “sampling error” associated with each estimate can be determined by analysis of the variability in the survey data. The statistical term for this measure is the “standard error” of the estimate. Standard errors tend to vary with the magnitude of their estimates and are difficult to use for general comparison of the level of uncertainty among estimates. A better index for judging the level of uncertainty is the relative standard error, i.e., the ratio of the standard error over the estimate. Relative standard errors, expressed on a percent basis, are provided in the tables along with the estimates and standard errors for this survey. An estimate with a low percent standard error is more reliable and has less uncertainty associated with it. Estimates with a percentage standard error less than 15% are reliable enough to be useful in making management decisions.

It is normal for the estimates to fluctuate considerably from one year to the next. Therefore, conclusions based on a single annual survey regarding the success of a particular season relative to another season may be misleading. However, comparing annual survey estimates over a number of years can be very useful for detecting trends that reflect real changes in hunting activity and harvest levels for a particular species. County level harvest information was extrapolated from the raw data and has a higher standard error due to smaller sample sizes than the statewide information.

The basic methods used to conduct and analyze the Alabama Hunting Survey were developed in the 1960's by statisticians with North Carolina State University. These statisticians specialized in research and surveys related to fish and wildlife. Minor changes were made periodically to keep the survey methods current. Beginning with the survey for the 2002-2003 hunting season, the data has been analyzed by personnel with Auburn University's School of Forestry and Wildlife Sciences. The methods now used to analyze data are similar; however, results have varied to the extent that direct comparisons to the results from hunting seasons prior to 2002-2003 may not be valid. Additionally, methods of analyzing the data were again adjusted by personnel with Auburn University's School of Forestry and Wildlife Sciences during the 2005-2006 survey in order to address issues identified by the Division of Wildlife and Freshwater Fisheries while working with surveys from 2003-2005. Those adjustments have resulted in more variations within the results that will be noticeable when examining trends in the estimates over the years. Methods for 2013-14 were consistent with methods used during the 2012-2013 season.

The Alabama Hunting Survey estimates are by no means the only source of information concerning wildlife management decisions, hunting, and game animal populations in this state. We gain much information from other research and surveys, public comments, nuisance wildlife complaints, crop damage reports, road kills, occurrence of disease and parasite problems, law enforcement reports, historical information, etc. All available information is considered in order to develop management programs that meet the needs of Alabama Wildlife resources and the people who enjoy them.

We extend our sincere appreciation to all hunters who participated in the Alabama Hunting Survey for the 2013-14 hunting season and in the surveys for earlier years.

This study was a contribution of the Alabama Division of Wildlife and Freshwater Fisheries supported in part by funding from the Federal Assistance in Wildlife Restoration Program, Project W-35, Study 6.

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Table 1. Results of the Alabama Hunting Survey for the 2013-14 Season

	Number of Hunters			Man-Days of Hunting			Number Harvested		
	Estimate	Standard Error	Standard Error %	Estimate	Standard Error	Standard Error %	Estimate	Standard Error	Standard Error %
Deer ¹									
Gun ²	188,534	3,594	1.9	2,948,994	91,803	3.1	231,781	8,559	3.7
Archery ²	64,430	2,322	3.6	700,483	40,253	5.8	31,514	2,270	7.2
Muzzleloader ²	17,953	1,153	6.4	80,432	9,864	12.3	6,665	1,084	16.3
Deer Total	197,098*	3,686	1.9	3,729,908	117,313	3.2	269,960	9,608	3.6
Turkey ³									
Turkey Spring ⁴	60,078	2,100	3.5	493,981	27,006	5.5	42,248	3,040	7.2
Dove ¹									
First Season	49,175	1,873	3.8	134,000	8,849	6.6	843,799	65,849	7.8
Other Seasons	16,085	1,049	6.5	52,627	4,761	9.1	310,808	36,564	11.8
Dove Total	51,668*	1,859	3.6	186,627	12,346	6.6	1,154,606	95,118	8.2
Quail									
Quail Wild	3,923	523	13.3	19,999	5,392	27.0	33,504	8,599	25.7
Quail Pen Raised	9,989	807	8.1	56,503	12,428	22.0	582,014	131,620	22.6
Quail Total	12,800*	925	7.2	76,502	13,823	18.1	615,518	132,628	21.6
Squirrel	36,196	2,780	7.7	218,732	20,851	9.5	458,201	112,988	24.7
Rabbit	15,219	963	6.3	89,252	13,762	15.4	86,131	20,035	23.3
Raccoon	5,793	619	10.7	103,764	29,402	28.3	52,311	13,117	25.1
Opossum	1,609	328	20.4	4,650	3,636	78.2	12,925	6,245	48.3
Fox	1,570	329	21.0	19,114	9,483	49.6	1,651	585	35.4
Coyote	26,119	1,350	5.2	175,039	26,755	15.3	52,213	10,436	20.0
Bobcat	5,120	599	11.7	37,647	11,196	29.7	4,120	628	15.2
Duck	19,838	1,237	6.2	155,575	17,906	11.5	261,640	33,564	12.8
Goose	5,200	601	11.6	37,143	13,247	35.7	17,756	8,013	45.1
Coot	1,973	405	20.5	10,376	6,356	61.3	9,210	4,858	52.7
Snipe	84	0	0	112	56	50.0	251	28	11.1
Woodcock	327	159	48.7	1,233	1,094	88.7	1,663	1,415	85.1
Feral Hogs	30,033	1,432	4.8	362,328	82,147	22.7	122,699	18,263	14.9

¹ Estimates for hunters in separate seasons (gun, archery and muzzleloader deer, 1st and remaining dove) do not sum to the combined estimate because each includes hunters participating in multiple seasons.

² Gun Deer Harvest – 43.0% Bucks / 57.0% Does. Archery Deer Harvest – 25.5% Bucks / 74.5% Does. Muzzleloader Deer Harvest – 25.8% Bucks / 74.2% Does. Combined Deer Harvest – 40.5% Bucks / 59.5% Does.

³ Harvest estimates are for the spring season only due to an extremely small number of fall turkey hunters in the sample and difficulty in extrapolating the numbers accurately to the hunting population. Based on the harvest data provided, approximately 13 turkeys were harvested legally in the 6 counties open to fall turkey hunting.

⁴ Spring Turkey Harvest – 98.0% Gobblers / 2.0% Jakes.

*Total number of hunters who hunted for that animal regardless of season. Many individuals hunt during more than one season.

Table 2. Results of Miscellaneous Questions Included on the Alabama Hunting Survey for the 2013-2014 Season

Questions ^a	Estimated Number of Hunters	Standard Error	Percent Standard Error	Percent of Respondents
^b Deer hunters only – Do you use a commercial vendor to process deer your harvest?	117, 729	2,830	2.4	40.5
Explanation: 40.5% of the total survey respondents said they used a comercial vendor to process deer which translates into approximately 117,729 license purchasers.				
Number of license purchasers using deer processor = 117,729. There were 197,098 licensed deer hunters. Approximately 59.7% of deer hunters used a processor.				
^b To the best of your knowledge, does your primary hunting location have a feral pig population?	75,908	2,271	2.99	30.4
Turkey hunters only – Do you think the turkey population is increasing, decreasing, or the same in the county you primarily hunted?				
Increasing	20,713	1,181	5.7	6.6
Decreasing	23,914	1,288	5.38	8.8
Same	34,519	1,565	4.53	13.3
Hunted any game? Approximately 222,055 of the licensed hunters in Alabama hunted at least one day.				

^a Not all respondents filled out the miscellaneous questions.

^bThis is based on the respondent answering “yes”.

ALABAMA DEER HARVEST ESTIMATES
COMBINED GUN, ARCHERY, AND MUZZLELOADER

Season	Harvest	Bucks	% Bucks	Does	% Does
1984-85	237,000	173,000	73	64,000	27
1985-86	280,000	210,000	75	70,000	25
1986-87	300,000	228,000	76	72,000	24
1987-88	323,000	242,000	75	81,000	25
1988-89	275,000	201,000	73	74,000	27
1989-90	242,000	179,000	74	63,000	26
1990-91	294,000	206,000	70	88,000	30
1991-92	295,000	201,000	68	94,000	32
1992-93	293,000	196,000	67	97,000	33
1993-94	350,000	238,000	68	112,000	32
1994-95	331,000	228,000	69	103,000	31
1995-96	398,000	259,000	65	139,000	35
1996-97	367,000	253,000	69	114,000	31
1997-98	423,000	267,000	63	156,000	37
1998-99	390,000	222,000	57	168,000	43
1999-00	416,000	228,000	55	188,000	45
2000-01	478,000	234,000	49	244,000	51
2001-02	411,000	206,000	50	205,000	50
2002-03	410,000	208,000	51	202,000	49
2003-04	478,000	221,000	46	257,000	54
2004-05	499,000	241,000	48	258,000	52
2005-06	461,000	218,000	47	243,000	53
2006-07	436,000	215,000	49	221,000	51
2007-08	342,000	142,000	42	200,000	58
2008-09	356,000	153,000	43	203,000	57
2009-10	289,000	128,000	44	161,000	56
2010-11	337,000	145,000	43	192,000	57
2011-12	255,000	112,000	44	143,000	56
2012-13	267,000	136,000	51	131,000	49
2013-14	270,000	108,000	40	162,000	60

Harvest estimates rounded to the nearest 1,000

Percentages rounded to the nearest whole number

Beginning with the 2002-2003 report, statistical analysis for the table above and the tables that follow was conducted by Auburn University. Differences in the methodology used for analysis of the data after 2001-2002 has resulted in variations in the survey results as compared to previous years.

ALABAMA HUNTING SURVEY ESTIMATES
DEER - GUN

Year	Hunters	Man-Days	Average Man-days	Harvest	Man-Days Per Harvest	Harvest Per Hunter
1986-87	213,471	3,167,030	14.8	288,487	11.7	1.4
1987-88	219,280	3,259,690	14.9	309,517	10.5	1.4
1988-89	191,862	2,891,790	15.1	257,734	11.2	1.3
1989-90	182,080	2,663,680	14.6	225,077	11.8	1.2
1990-91	193,600	2,997,000	15.5	263,100	11.4	1.4
1991-92	199,700	2,998,000	15.0	269,500	11.1	1.3
1992-93	203,300	3,189,100	15.7	261,500	12.2	1.3
1993-94	204,000	3,421,300	16.8	305,300	11.2	1.5
1994-95	203,700	3,310,900	16.3	290,600	11.4	1.4
1995-96	223,700	3,564,100	15.9	353,000	10.1	1.6
1996-97	217,400	3,288,400	15.1	334,200	9.8	1.5
1997-98	212,400	3,357,500	15.8	367,900	9.1	1.7
1998-99	204,800	3,190,700	15.6	349,000	9.1	1.7
1999-00	215,300	3,378,600	15.7	368,500	9.2	1.7
2000-01	213,200	3,571,400	16.7	435,100	8.2	2.0
2001-02	210,900	3,359,900	15.9	376,200	8.9	1.8
2002-03	184,100	3,247,200	17.6	367,500	8.8	2.0
2003-04	205,600	3,950,800	19.2	432,700	9.1	2.1
2004-05	230,100	4,004,100	17.4	444,300	9.0	1.9
2005-06	203,700	3,636,000	17.8	413,200	8.8	2.0
2006-07	201,800	3,398,700	16.8	377,600	9.0	1.9
2007-08	200,300	3,409,900	17.0	296,100	11.5	1.5
2008-09	194,200	3,436,500	17.7	296,900	11.6	1.5
2009-10	188,100	3,144,100	16.7	242,900	12.9	1.3
2010-11	188,500	3,436,900	18.2	284,600	12.1	1.5
2011-12	152,300	2,872,100	18.9	205,600	14.0	1.3
2012-13	178,300	2,815,200	15.8	220,600	12.8	1.2
2013-14	188,534	2,948,994	15.6	231,781	12.7	1.2

Muzzleloader hunting data was included in this table prior to 2006-07. Beginning with the 2006-07 survey muzzleloader hunting data is presented in a separate table and not included in this table.

ALABAMA HUNTING SURVEY ESTIMATES
DEER - ARCHERY

Year	Hunters	Man-Days	Average Man-Days	Harvest	Man-Days Per Harvest	Harvest Per Hunter
1986-87	37,426	345,619	9.2	17,653	19.6	0.5
1987-88	42,023	336,770	8.0	15,683	21.5	0.4
1988-89	44,259	416,278	9.4	18,854	22.1	0.4
1989-90	40,232	391,557	9.7	20,798	18.8	0.5
1990-91	53,200	552,200	10.4	31,300	17.6	0.6
1991-92	58,900	619,100	10.5	25,500	24.3	0.4
1992-93	61,500	660,300	10.7	31,600	20.9	0.5
1993-94	66,300	762,900	11.5	45,200	16.9	0.7
1994-95	58,900	687,900	11.7	40,400	17.0	0.7
1995-96	70,900	740,600	10.4	45,100	16.4	0.6
1996-97	61,100	528,400	8.6	32,600	16.2	0.5
1997-98	64,300	620,600	9.6	55,500	11.2	0.9
1998-99	59,100	640,000	10.8	41,300	15.5	0.7
1999-00	69,600	741,500	10.7	47,200	15.7	0.7
2000-01	65,700	596,200	9.1	43,600	13.7	0.7
2001-02	55,400	540,700	9.9	34,500	15.7	0.6
2002-03	57,600	670,300	11.6	42,800	15.7	0.7
2003-04	65,700	770,500	11.7	45,800	16.8	0.7
2004-05	80,400	907,000	11.3	54,500	16.6	0.7
2005-06	64,400	747,000	11.6	47,600	15.7	0.7
2006-07	67,700	772,900	11.4	46,700	16.6	0.7
2007-08	69,600	821,900	11.8	38,000	21.6	0.5
2008-09	76,300	880,900	11.5	49,600	17.8	0.7
2009-10	66,500	736,700	11.1	36,400	20.2	0.5
2010-11	72,500	807,600	11.1	45,400	17.8	0.6
2011-12	60,400	721,800	12.0	43,700	16.5	0.7
2012-13	60,800	720,200	11.8	39,700	18.1	0.7
2013-14	64,430	700,483	10.9	31,514	22.2	0.5

ALABAMA HUNTING SURVEY ESTIMATES
DEER - MUZZLELOADER

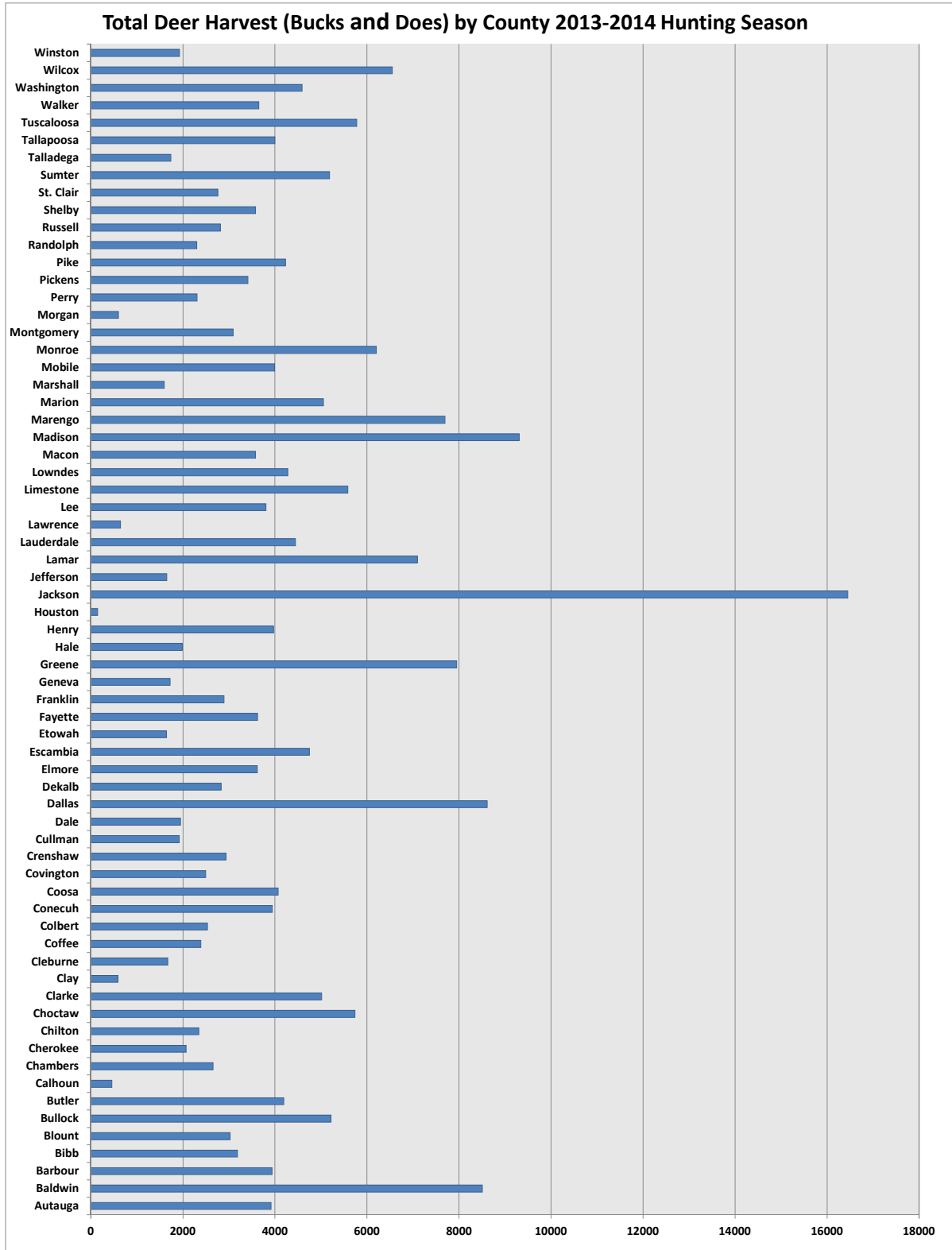
Year	Hunters	Man-Days	Average Man-Days	Harvest	Man-Days Per Harvest	Harvest Per Hunter
2006-07	24,200	129,500	5.4	11,700	11.1	0.5
2007-08	23,400	115,800	4.9	7,800	14.8	0.3
2008-09	24,100	128,600	5.3	9,900	13.0	0.4
2009-10	25,400	126,300	5.0	9,800	12.9	0.4
2010-11	23,600	121,200	5.1	7,700	15.7	0.3
2011-12	19,300	97,200	5.0	5,500	17.7	0.3
2012-13	16,000	74,600	4.7	6,500	11.5	0.4
2013-14	17,953	80,432	4.5	6,665	12.1	0.4

ALABAMA HUNTING SURVEY ESTIMATES
DEER - GUN, ARCHERY AND MUZZLELOADER COMBINED

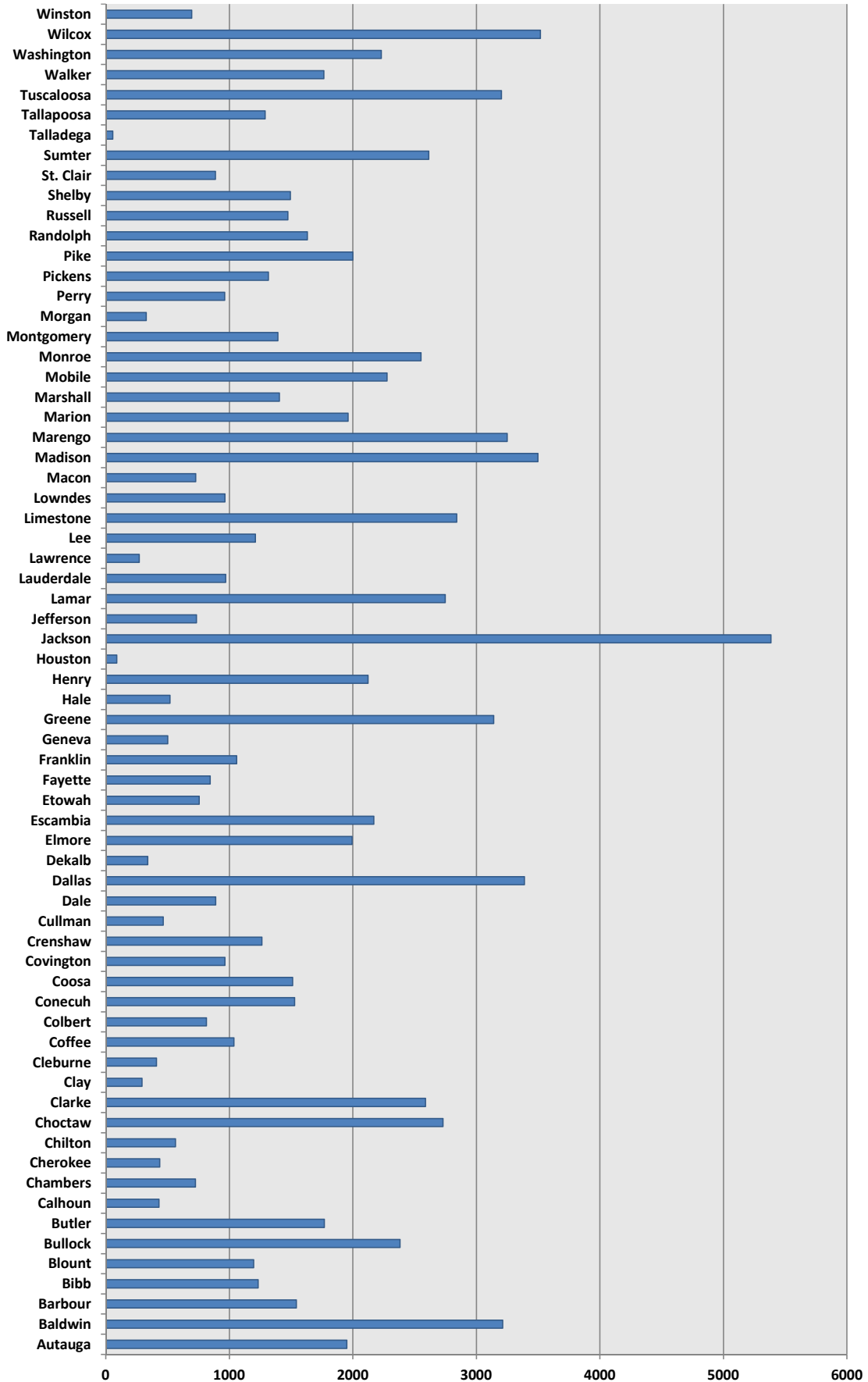
Year	Hunters	Man-Days	Average Man-Days	Harvest	Man-Days Per Harvest	Harvest Per Hunter
1963-67 *	106,020	688,890	6.4	48,884	14.0	0.5
1968-69	115,368	825,917	7.2	63,674	13.0	0.6
1969-70	148,306	1,213,630	8.2	74,239	16.3	0.5
1970-71	146,952	1,188,500	8.1	63,502	18.7	0.4
1971-72	152,753	1,288,980	8.4	80,184	16.1	0.5
1972-73	160,280	1,337,769	8.3	82,555	16.2	0.5
1973-74	172,998	1,613,010	9.3	121,953	13.2	0.7
1974-75	196,406	2,006,080	10.2	120,727	16.6	0.6
1975-76	210,556	2,122,670	10.1	125,625	16.9	0.6
1976-77	206,370	2,175,510	10.5	144,155	15.1	0.7
1977-78	214,364	2,338,130	10.9	147,113	15.9	0.7
1978-79	215,955	2,489,310	11.5	152,733	16.3	0.7
1979-80	211,309	2,439,100	11.5	140,685	17.3	0.7
1980-81	208,838	2,671,280	12.8	130,532	20.5	0.6
1981-82	209,871	2,605,730	12.4	202,449	12.9	1.0
1982-83	203,883	2,803,450	13.8	141,281	19.8	0.7
1983-84	196,706	2,658,670	13.5	192,231	13.8	1.0
1984-85	208,227	3,006,620	14.4	237,378	12.7	1.1
1985-86	211,522	3,075,800	14.5	280,436	11.0	1.3
1986-87	215,764	3,515,220	16.3	300,115	11.7	1.4
1987-88	221,285	3,588,490	16.2	322,977	11.1	1.5
1988-89	195,032	3,306,050	17.0	275,032	12.0	1.4
1989-90	186,211	3,064,900	16.5	242,033	12.7	1.3
1990-91	200,700	3,549,200	17.7	294,400	12.1	1.5
1991-92	205,200	3,617,100	17.6	295,000	12.3	1.4
1992-93	211,100	3,849,400	18.2	293,100	13.1	1.4
1993-94	210,600	4,184,200	19.9	350,500	11.9	1.7
1994-95	211,200	3,998,800	18.9	331,000	12.1	1.6
1995-96	229,600	4,304,700	18.7	398,100	10.8	1.7
1996-97	220,900	3,816,800	17.3	366,800	10.4	1.7
1997-98	217,300	3,978,100	18.3	423,400	9.4	2.0
1998-99	210,600	3,830,700	18.2	390,300	9.8	1.9
1999-00	221,700	4,120,100	18.6	415,700	9.9	1.9
2000-01	218,400	4,167,600	19.1	478,700	8.7	2.2
2001-02	213,400	3,900,600	18.3	410,700	9.5	1.9
2002-03	188,700	3,917,500	20.8	410,300	9.5	2.2
2003-04	210,400	4,721,300	22.4	478,400	9.9	2.3
2004-05	236,300	4,911,200	20.8	498,900	9.8	2.1
2005-06	208,700	4,383,000	21.0	460,800	9.5	2.2
2006-07	207,500	4,301,100	20.7	435,900	9.9	2.1
2007-08	206,000	4,347,500	21.1	341,900	12.7	1.7
2008-09	201,600	4,446,100	22.1	356,400	12.5	1.8
2009-10	194,800	4,007,100	20.6	289,100	13.9	1.5
2010-11	197,100	4,366,700	22.2	337,700	12.9	1.7
2011-12	155,800	3,691,100	23.7	254,800	14.5	1.6
2012-13	185,600	3,610,000	19.5	266,700	13.5	1.4
2013-14	197,098	3,729,908	18.9	269,960	13.8	1.4

* Averaged Years

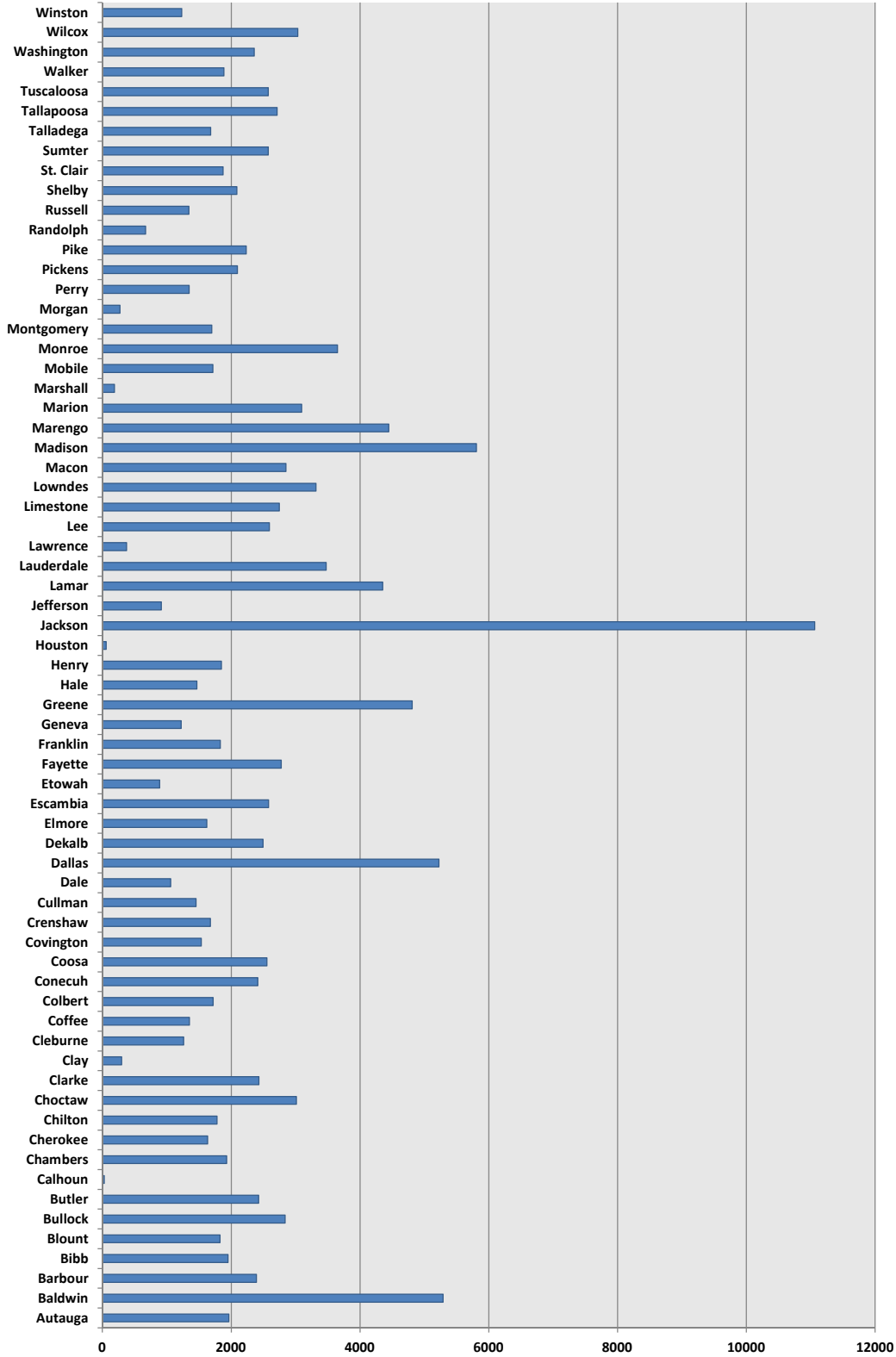
The 2013-2014 hunting season represents the third year the Division of Wildlife and freshwater Fisheries began collecting county deer and turkey harvest data through the annual hunter harvest mail survey. The following graphs represent estimated harvest numbers for the respective counties. In reviewing the current data, it is important to recognize that a degree of uncertainty must be associated with each of the estimates. Data provided by licensed hunters who stated they hunted in a given county were used to generate harvest estimates. Baldwin, Dallas, Jackson, Madison and other heavily hunted counties have lower standard errors because of the number respondents who hunted in those counties. Less heavily hunted counties have higher degrees or standard error (e.g.: Calhoun, Clay, Houston). Conclusions based on a single annual survey regarding the success of a particular season relative to another season may be misleading. However, comparing annual survey estimates over a number of years could be very useful for detecting trends that reflect real changes in hunting activity and harvest levels for a particular species and county.



Number of Bucks Harvested by County 2013-2014 Hunting Season



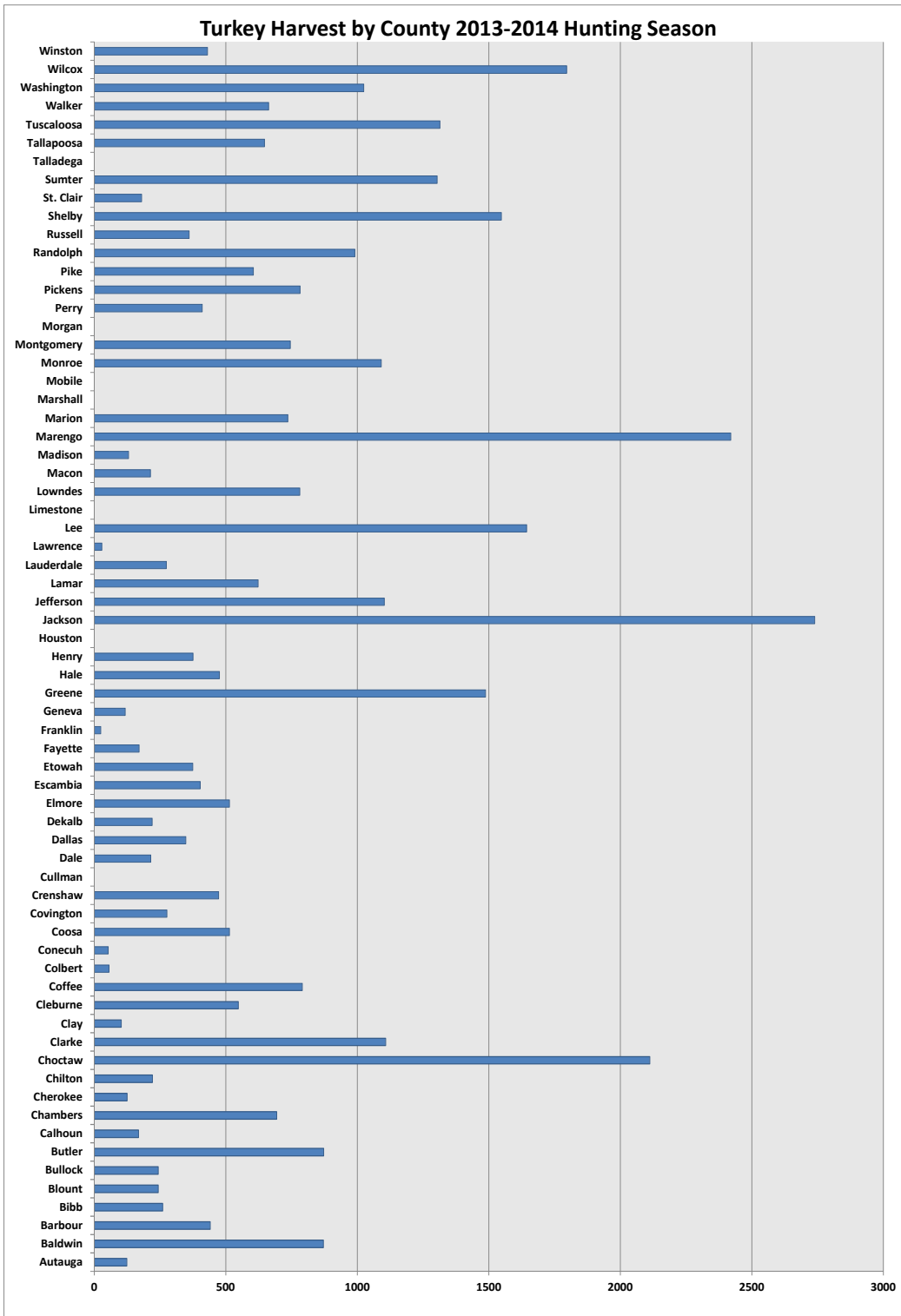
Number of Does Harvested by County 2013-2014 Hunting Season



ALABAMA HUNTING SURVEY ESTIMATES: TURKEY-SPRING SEASONS

Year	Hunters	Man-Days	Average Man-Days	Harvest	Man-Days Per Harvest	Harvest Per Hunter
1975-79 *	30,003	188,960	6.3	20,229	9.3	0.7
1980	34,449	217,039	6.3	19,595	11.1	0.6
1981	36,243	236,790	6.5	15,669	15.1	0.4
1982	35,925	232,428	6.5	24,702	9.4	0.7
1983	36,014	225,347	6.3	20,761	10.9	0.6
1984	39,155	299,133	7.6	26,254	11.4	0.7
1985	37,901	280,708	7.4	37,039	7.6	1.0
1986	40,784	309,279	7.6	43,833	7.1	1.1
1987	38,150	297,422	7.8	37,540	7.9	1.0
1988	47,204	359,730	7.6	45,835	7.8	1.0
1989	38,521	317,734	8.2	43,718	7.3	1.1
1990	38,713	304,193	7.9	29,138	10.4	0.8
1991	41,400	310,200	7.5	33,200	9.3	0.8
1992	43,000	387,600	9.0	30,900	12.5	0.7
1993	40,000	339,700	8.5	29,100	11.7	0.7
1994	47,000	349,100	7.4	40,400	8.6	0.9
1995	43,300	348,900	8.1	41,200	8.5	1.0
1996	51,900	361,200	7.0	37,400	9.7	0.7
1997	48,400	334,700	6.9	39,000	8.6	0.8
1998	51,800	362,400	7.0	41,800	8.7	0.8
1999	51,600	358,600	6.9	35,300	10.2	0.7
2000	47,300	345,900	7.3	31,400	11.0	0.7
2001	53,800	374,700	7.0	43,000	8.7	0.8
2002	50,100	389,800	7.8	36,300	10.7	0.7
2003	52,300	449,400	8.6	48,000	9.4	0.9
2004	56,600	508,100	9.0	53,100	9.6	0.9
2005	58,500	555,700	9.5	57,500	9.7	1.0
2006	59,300	515,100	8.7	55,600	9.3	0.9
2007	56,800	471,900	8.3	65,100	7.2	1.1
2008	57,600	500,900	8.7	45,400	11.0	0.8
2009	52,700	434,500	8.2	36,300	12.0	0.7
2010	51,700	462,400	8.9	40,900	11.3	0.8
2011	59,700	537,000	9.0	46,400	11.6	0.8
2012	48,000	465,800	9.7	47,800	9.7	1.0
2013	53,100	503,000	9.5	40,600	12.4	0.8
2014	60,078	493,981	8.2	42,248	11.7	0.7
*	Average of years					

The 2013-2014 hunting season represents the third year the Division of Wildlife and Freshwater Fisheries began collecting county deer and turkey harvest data through the annual hunter harvest mail survey. The following graph represent estimated harvest numbers for the respective counties. In reviewing the current data, it is important to recognize that a degree of uncertainty must be associated with each of the estimates. Data provided by licensed hunters who stated they hunted in a given county were used to generate harvest estimates. Baldwin, Choctaw, Jackson, Marengo, Wilcox, and other heavily hunted counties have lower standard errors because of the number of respondents who hunted in those counties. Less heavily hunted counties have higher degrees of standard error (eg: Colbert, Conecuh, Franklin). Small sample sizes of hunters indicating they harvested turkey in Cullman, Houston, Limestone, and other counties provided less than acceptable data to generate a harvest estimate for those counties. Conclusions based on a single annual survey regarding the success of a particular season relative to another season may be misleading. However, comparing annual survey estimates over a number of years could be very useful for detecting trends that reflect real changes in hunting activity and harvest levels for a particular species and county.



ALABAMA HUNTING SURVEY ESTIMATES - DOVE

Year	Hunters	Man-Days	Average Man-Days	Harvest	Harvest per Man-Day	Harvest per Hunter
1963-64 *	118,173	496,381	4.2	2,135,659	4.3	18.1
1964-69 *	117,543	590,167	5.0	2,456,800	4.2	20.9
1969-71 *	100,539	676,928	6.7	3,437,190	5.1	34.2
1971-76	Results calculated differently these years, therefore not included in this table					
1976-77	137,915	895,204	6.5	4,113,310	4.6	29.8
1977-78	136,784	930,350	6.8	4,309,020	4.6	31.5
1978-79	114,443	715,221	6.2	3,661,140	5.1	32.0
1979-80	102,041	591,462	5.8	3,160,950	5.3	31.0
1980-81	111,296	771,187	6.9	3,362,490	4.4	30.2
1981-82	104,289	643,016	6.2	3,372,020	5.2	32.3
1982-83	94,375	600,797	6.4	3,052,110	5.1	32.3
1983-84	97,282	594,374	6.1	3,517,060	5.9	36.2
1984-85	99,268	589,132	5.9	2,858,280	4.9	28.8
1985-86	102,999	564,424	5.5	2,698,040	4.8	26.2
1986-87	102,418	594,776	5.8	3,644,370	6.1	35.6
1987-88	89,355	422,257	4.7	2,430,110	5.8	27.2
1988-89	81,062	457,676	5.6	2,488,560	5.4	30.7
1989-90	84,109	419,242	5.0	2,247,490	5.4	26.7
1990-91	87,800	376,000	4.3	2,262,500	6.0	25.8
1991-92	83,600	394,100	4.7	2,050,300	5.2	24.5
1992-93	82,700	391,512	4.7	1,873,500	4.8	22.7
1993-94	82,700	389,200	4.7	2,032,500	5.2	24.6
1994-95	76,500	367,800	4.8	1,864,700	5.1	24.4
1995-96	91,300	357,600	3.9	1,971,100	5.5	21.6
1996-97	80,600	298,700	3.7	1,618,400	5.4	20.1
1997-98	78,600	293,300	3.7	1,490,800	5.1	19.0
1998-99	73,500	284,400	3.9	1,355,900	4.8	18.5
1999-00	69,800	227,800	3.3	1,191,300	5.2	17.1
2000-01	79,100	286,000	3.6	1,512,500	5.3	19.1
2001-02	84,600	328,000	3.9	1,455,800	4.4	17.2
2002-03	87,300	356,700	4.1	1,898,900	5.3	21.8
2003-04	83,600	349,500	4.2	1,922,100	5.5	22.9
2004-05	59,600	278,200	4.7	1,214,200	4.4	20.4
2005-06	59,900	223,100	3.7	1,481,900	6.6	24.7
2006-07	62,500	232,100	3.7	1,294,300	5.6	20.7
2007-08	64,400	257,700	4.0	1,189,100	4.6	18.5
2008-09	61,100	238,000	3.9	1,406,300	5.9	23.0
2009-10	61,200	214,600	3.5	1,439,700	6.7	23.5
2010-11	59,500	254,200	4.3	1,649,500	6.5	27.7
2011-12	43,300	172,700	4.0	1,064,100	6.2	24.6
2012-13	46,700	156,600	3.4	881,400	5.6	18.9
2013-14	51,668	186,627	3.6	1,154,606	6.2	22.3

* Average of Years

ALABAMA HUNTING SURVEY ESTIMATES - QUAIL

Year	Hunters	Man-Days	Average Man-Days	Harvest	Harvest Per Man-Day	Harvest Per Hunter
1963-67 *	91,855	771,514	8.4	2,187,729	2.9	23.9
1968-70 *	95,720	718,704	7.5	2,061,857	2.9	21.5
1970-75 *	97,352	830,028	8.5	2,318,180	2.8	23.8
1975-76	92,012	785,874	8.5	2,313,106	2.9	25.1
1976-77	82,045	671,470	8.2	1,807,050	2.7	22.0
1977-78	77,459	577,702	7.5	1,627,530	2.8	21.0
1978-79	71,687	584,374	8.2	1,657,960	2.8	23.1
1979-80	64,964	529,162	8.1	1,593,310	3.0	24.5
1980-81	66,288	509,384	7.7	1,382,800	2.7	20.9
1981-82	56,064	427,408	7.6	1,081,340	2.5	19.3
1982-83	45,780	331,482	7.2	1,010,940	3.0	22.1
1983-84	44,365	342,679	7.7	1,033,480	3.0	23.3
1984-85	45,873	416,788	9.1	930,746	2.2	20.3
1985-86	40,906	342,966	8.4	754,152	2.2	18.4
1986-87	37,333	274,860	7.4	678,251	2.5	18.2
1987-88	31,611	226,708	7.2	676,566	3.0	21.4
1988-89	28,050	251,726	9.0	560,722	2.2	20.0
1989-90	25,549	227,397	8.9	381,964	1.7	15.0
1990-91	26,200	235,400	9.0	544,300	2.3	20.8
1991-92	23,200	179,500	7.7	389,200	2.2	16.8
1992-93	23,100	144,200	6.2	379,600	2.6	16.4
1993-94	23,100	169,700	7.3	407,500	2.4	17.6
1994-95	17,800	148,100	8.3	342,300	2.3	19.2
1995-96	25,100	170,500	6.8	405,600	2.4	16.2
1996-97	17,200	90,800	5.3	244,600	2.7	14.2
1997-98	16,500	97,900	5.9	268,200	2.7	16.3
1998-99	15,500	82,300	5.3	201,700	2.4	13.0
1999-00	14,000	89,500	6.4	206,700	2.3	14.8
2000-01	12,100	61,100	5.0	128,900	2.1	10.7
2001-02	14,700	64,200	4.4	158,600	2.5	10.8
2002-03	17,100	127,300	7.5	302,400	2.4	17.7
2003-04	16,700	89,900	5.4	345,100	3.8	20.7
2004-05	9,900	65,500	6.6	279,900	4.3	28.3
2005-06	15,800	63,200	4.0	376,900	6.0	23.9
2006-07	13,000	59,600	4.6	261,900	4.4	20.1
2007-08	13,500	70,900	5.3	343,500	4.8	25.4
2008-09	10,400	64,600	6.2	252,300	3.9	24.3
2009-10	8,000	55,600	7.0	138,700	2.3	17.3
2010-11	8,700	45,400	5.2	230,300	5.1	26.5
2011-12**	14,200	57,500	4.0	509,600	8.9	35.9
2012-13**	13,500	78,400	5.8	389,400	5.0	28.8
2013-14**	12,800	76,502	6.0	615,518	8.0	48.1

* Average of Years

** Quail estimates include data from wild quail and pen raised quail.

ALABAMA HUNTING SURVEY ESTIMATES-SQUIRREL

Years	Hunters	Man-Days	Average Man-Days	Harvest	Harvest Per Man-Day	Harvest Per Hunter
1963-67 *	177,441	1,285,491	7.2	2,287,619	1.8	12.9
1968-70 *	159,508	1,066,366	6.7	1,795,018	1.7	11.3
1970-75 *	166,093	1,096,772	6.6	2,057,758	1.9	12.4
1975-76	180,807	1,114,910	6.2	2,046,850	1.8	11.3
1976-77	173,608	1,077,710	6.2	1,893,800	1.8	10.9
1977-78	164,635	1,029,870	6.3	1,870,460	1.8	11.4
1978-79	160,100	995,335	6.2	1,804,090	1.8	11.3
1979-80	143,020	957,852	6.7	1,665,540	1.7	11.6
1980-81	145,342	1,010,940	7.0	1,696,760	1.7	11.7
1981-82	131,031	845,711	6.5	1,489,670	1.8	11.4
1982-83	121,027	794,733	6.6	1,453,990	1.8	12.0
1983-84	113,208	707,865	6.3	1,420,510	2.0	12.5
1984-85	121,923	890,112	7.3	1,635,570	1.8	13.4
1985-86	106,365	702,701	6.6	1,177,610	1.7	11.1
1986-87	109,348	784,783	7.2	1,375,910	1.8	12.6
1987-88	108,211	700,195	6.5	1,262,200	1.8	11.7
1988-89	87,192	645,717	7.4	1,078,540	1.7	12.4
1989-90	75,312	505,221	6.7	836,574	1.7	11.1
1990-91	79,600	485,200	6.1	893,900	1.8	11.2
1991-92	77,700	596,100	7.7	961,400	1.6	12.4
1992-93	71,800	452,200	6.3	737,400	1.6	10.3
1993-94	67,900	481,300	7.1	806,600	1.7	11.9
1994-95	62,800	425,600	6.8	709,400	1.7	11.3
1995-96	63,600	359,100	5.6	558,200	1.6	8.8
1996-97	66,800	400,000	6.0	700,200	1.8	10.5
1997-98	67,400	388,900	5.8	741,300	1.9	11.0
1998-99	57,600	342,600	5.9	539,700	1.6	9.4
1999-00	56,600	333,300	5.9	517,200	1.6	9.1
2000-01	53,600	310,400	5.8	567,600	1.8	10.6
2001-02	63,900	318,900	5.0	577,000	1.8	9.0
2002-03	56,100	326,100	5.8	603,700	1.9	10.8
2003-04	59,000	393,900	6.7	666,300	1.7	11.3
2004-05	40,100	281,200	7.0	402,200	1.4	10.0
2005-06	38,000	202,800	5.3	439,800	2.2	11.6
2006-07	37,700	224,100	6.0	375,500	1.7	10.0
2007-08	38,000	284,100	7.5	363,100	1.3	9.6
2008-09	42,500	295,900	7.0	550,400	1.9	13.0
2009-10	37,000	236,400	6.4	344,100	1.5	9.3
2010-11	37,100	257,600	6.9	488,300	1.9	13.2
2011-12	31,000	192,400	6.2	383,900	2.0	12.4
2012-13	36,600	272,900	7.5	417,700	1.5	11.4
2013-14	36,196	218,732	6.0	458,201	2.1	12.7

* Average of Years

ALABAMA HUNTING SURVEY ESTIMATES - RABBIT

Year	Hunters	Man-Days	Average Man-Days	Harvest	Harvest Per Man-Day	Harvest Per Hunter
1963-67 *	113,012	747,806	6.6	1,074,165	1.4	9.5
1968-70 *	112,142	647,056	5.8	976,724	1.5	8.7
1970-75 *	93,980	642,791	6.8	921,601	1.4	9.8
1975-76	105,255	649,802	6.2	843,956	1.3	8.0
1976-77	96,978	594,283	6.1	863,289	1.5	8.9
1977-78	91,940	529,007	5.8	772,045	1.5	8.4
1978-79	88,595	460,055	5.2	676,046	1.5	7.6
1979-80	74,861	478,074	6.4	595,547	1.2	8.0
1980-81	83,586	578,360	6.9	776,996	1.3	9.3
1981-82	78,714	498,195	6.3	679,296	1.4	8.6
1982-83	69,263	466,398	6.7	681,203	1.5	9.8
1983-84	60,079	377,382	6.3	518,228	1.4	8.6
1984-85	64,733	433,780	6.7	542,639	1.3	8.4
1985-86	55,489	367,049	6.6	420,729	1.1	7.6
1986-87	56,219	428,443	7.6	523,923	1.2	9.3
1987-88	53,830	348,965	6.5	514,994	1.5	9.6
1988-89	40,090	294,097	7.3	353,933	1.2	8.8
1989-90	33,400	245,698	7.4	282,374	1.1	8.5
1990-91	40,300	235,700	5.8	248,900	1.1	6.2
1991-92	36,000	271,700	7.5	254,000	0.9	7.1
1992-93	33,700	249,200	7.4	234,100	0.9	6.9
1993-94	33,400	250,600	7.5	246,400	1.0	7.4
1994-95	31,100	228,700	7.4	246,500	1.1	7.9
1995-96	38,100	250,600	6.6	233,200	0.9	6.1
1996-97	30,400	187,300	6.2	217,100	1.2	7.1
1997-98	31,100	212,000	6.8	222,800	1.0	7.2
1998-99	29,100	161,600	5.6	163,200	1.0	5.6
1999-00	29,900	192,500	6.4	172,600	0.9	5.8
2000-01	26,600	161,600	6.1	157,100	1.0	5.9
2001-02	33,600	158,700	4.7	174,500	1.1	5.2
2002-03	22,800	149,800	6.6	243,100	1.6	10.6
2003-04	28,900	196,100	6.8	216,900	1.1	7.5
2004-05	19,300	152,500	7.9	166,000	1.1	8.6
2005-06	21,300	141,100	6.6	165,700	1.2	7.8
2006-07	20,000	106,900	5.3	123,400	1.2	6.2
2007-08	21,300	126,800	6.0	107,800	0.9	5.1
2008-09	22,700	183,600	8.1	175,300	1.0	7.7
2009-10	18,200	137,800	7.6	122,100	0.9	6.7
2010-11	17,800	112,500	6.3	109,500	1.0	6.2
2011-12	13,200	130,300	9.9	173,000	1.3	13.1
2012-13	24,000	128,900	5.4	101,500	0.8	4.2
2013-14	15,219	89,252	5.9	86,131	1.0	5.7

* Average of Years

ALABAMA HUNTING SURVEY ESTIMATES - RACCOON

Year	Hunters	Man-Days	Average Man-Days	Harvest	Harvest Per Man-Day	Harvest Per Hunter
1979-80	24,846	294,722	11.9	234,099	0.8	9.4
1980-81	25,201	327,785	13.0	207,943	0.6	8.3
1981-82	24,888	282,675	11.4	155,270	0.5	6.2
1982-83	21,762	254,866	11.7	177,620	0.7	8.2
1983-84	17,317	150,983	8.7	125,663	0.8	7.3
1984-85	20,571	217,285	10.6	139,424	0.6	6.8
1985-86	18,710	208,009	11.1	151,539	0.7	8.1
1986-87	18,721	267,086	14.3	144,797	0.5	7.7
1987-88	20,893	225,519	10.8	163,660	0.7	7.8
1988-89	15,742	242,121	15.4	128,303	0.5	8.2
1989-90	12,104	203,958	16.9	123,166	0.6	10.2
1990-91	11,800	157,700	13.4	80,500	0.5	6.8
1991-92	14,900	165,500	11.1	69,700	0.4	4.7
1992-93	8,900	128,000	14.4	53,000	0.4	6.0
1993-94	11,200	162,500	14.5	74,800	0.5	6.7
1994-95	10,700	142,700	13.3	78,200	0.5	7.3
1995-96	13,800	144,300	10.5	85,000	0.6	6.2
1996-97	12,600	129,000	10.2	65,900	0.5	5.2
1997-98	10,900	135,100	12.4	92,400	0.7	8.5
1998-99	9,500	101,600	10.7	64,100	0.6	6.8
1999-00	9,700	109,000	11.2	49,700	0.5	5.1
2000-01	11,400	101,200	8.9	67,000	0.7	5.9
2001-02	10,000	85,800	8.6	53,600	0.6	5.4
2002-03	8,700	177,500	20.4	99,900	0.6	11.5
2003-04	13,700	180,600	13.1	121,800	0.7	8.9
2004-05	7,000	164,500	23.4	45,700	0.3	6.5
2005-06	10,800	163,600	15.1	105,100	0.6	9.7
2006-07	10,300	171,400	16.6	86,500	0.5	8.4
2007-08	10,600	185,800	17.5	67,200	0.4	6.3
2008-09	9,000	174,600	19.4	80,700	0.5	9.0
2009-10	7,200	129,600	18.0	53,600	0.4	7.4
2010-11	8,900	113,300	12.7	79,500	0.7	8.9
2011-12	6,200	128,700	20.8	79,500	0.6	12.8
2012-13	7,600	98,800	13.0	38,000	0.4	5.0
2013-14	5,793	103,764	17.9	52,311	0.5	9.0

ALABAMA HUNTING SURVEY ESTIMATES - OPOSSUM

Year	Hunters	Man-Days	Average Man-Days	Harvest	Harvest Per Man-Day	Harvest Per Hunter
1963-67 *	19,317	124,766	6.6	127,090	1.0	6.6
1969-70	16,318	88,675	5.4	93,205	1.1	5.7
1972-73	12,117	113,689	9.4	126,001	1.1	10.4
1975-76	17,998	93,129	5.2	152,992	1.6	8.5
1979-80	10,172	76,987	7.6	98,494	1.3	9.7
1980-81	10,891	87,500	8.0	61,821	0.7	5.7
1981-82	8,880	81,408	9.2	74,911	0.9	8.4
1982-83	8,016	72,444	9.0	67,781	0.9	8.5
1983-84	6,356	43,514	6.8	44,938	1.0	7.1
1984-85	5,213	31,013	5.9	31,114	1.0	6.0
1985-86	5,043	42,656	8.5	35,590	0.8	7.1
1986-87	4,197	56,696	13.5	34,580	0.6	8.2
1987-88	4,575	38,067	8.3	30,904	0.8	6.8
1988-89	2,382	23,823	10.0	18,812	0.8	7.9
1989-90	1,975	25,478	12.9	13,507	0.5	6.8
1990-91	2,800	32,700	11.7	20,300	0.6	7.3
1991-92	2,000	12,500	6.3	7,800	0.6	3.9
1992-93	1,300	24,300	18.7	7,900	0.3	6.1
1993-94	1,600	17,700	11.1	7,200	0.4	4.5
1994-95	1,000	9,800	9.8	7,800	0.8	7.8
1995-96	2,200	6,000	2.7	9,200	1.5	4.2
1996-97	2,300	20,300	8.8	8,200	0.4	3.6
1997-98	1,800	10,300	5.7	8,600	0.8	4.8
1998-99	1,800	19,300	10.7	9,000	0.5	5.0
1999-00	1,900	13,500	7.1	1,700	0.1	0.9
2000-01	1,800	26,300	14.6	9,500	0.4	5.3
2001-02	1,700	4,500	2.6	5,700	1.3	3.3
2002-03	1,500	8,500	5.5	5,100	0.6	3.3
2003-04	2,300	15,200	6.7	6,000	0.4	2.6
2004-05	1,500	16,400	11.0	4,600	0.3	3.1
2005-06	3,200	33,800	10.6	14,600	0.4	4.6
2006-07	1,800	12,000	6.7	11,000	0.9	6.1
2007-08	2,800	15,800	5.6	6,000	0.4	2.1
2008-09	1,600	30,000	18.8	5,500	0.2	3.4
2009-10	1,800	87,600	48.7	8,500	0.1	4.7
2010-11	2,000	14,200	7.1	15,900	1.1	8.0
2011-12	1,900	18,000	9.5	22,800	1.3	12.0
2012-13	1,800	25,100	13.9	4,400	0.2	2.4
2013-14	1,609	4,650	2.9	12,925	2.8	8.0

Specie omitted from sample during 68-69, 70-72, 73-75, 76-79

* Average of Years

ALABAMA HUNTING SURVEY ESTIMATES - FOX

Year	Hunters	Man-Days	Average Man-Days	Harvest	Harvest Per Man-Day	Harvest Per Hunter
1979-80	5,010	72,566	14.5	8,670	0.1	1.7
1980-81	4,427	35,912	8.1	7,565	0.2	1.7
1981-82	4,628	84,401	18.2	15,069	0.2	3.3
1982-83	4,119	46,658	11.3	9,658	0.2	2.3
1983-84	2,460	22,731	9.2	3,585	0.2	1.5
1984-85	3,015	41,943	13.9	6,255	0.1	2.1
1985-86	3,256	21,129	6.5	6,533	0.3	2.0
1986-87	2,014	23,533	11.7	3,040	0.1	1.5
1987-88	3,262	22,488	6.9	6,563	0.3	2.0
1988-89	1,495	9,699	6.5	1,626	0.2	1.1
1989-90	1,587	9,518	6.0	1,177	0.1	0.7
1990-91	1,000	7,600	7.6	1,000	0.1	1.0
1991-92	1,300	25,700	19.8	1,200	0.0	0.9
1992-93	400	2,800	7.0	200	0.1	0.5
1993-94	1,400	7,300	5.2	1,000	0.1	0.7
1994-95	1,100	37,000	33.6	1,900	0.1	1.7
1995-96	2,400	10,500	4.4	8,600	0.8	3.6
1996-97	1,800	15,900	8.8	700	0.0	0.4
1997-98	1,900	9,100	4.8	1,300	0.1	0.7
1998-99	1,500	13,300	8.9	1,200	0.1	0.8
1999-00	1,600	21,200	13.3	700	0.3	0.4
2000-01	1,600	10,200	6.4	1,500	0.1	0.9
2001-02	1,900	11,300	5.9	2,200	0.2	1.2
2002-03	1,800	18,300	10.1	4,200	0.2	2.3
2003-04	2,000	10,600	5.3	2,300	0.2	1.2
2004-05	2,500	43,100	17.1	3,600	0.1	1.4
2005-06	2,100	10,000	4.8	2,800	0.3	1.3
2006-07	1,800	23,200	12.9	5,000	0.2	2.8
2007-08	2,400	20,200	8.4	1,300	0.1	0.5
2008-09	2,300	15,600	6.8	5,900	0.4	2.6
2009-10	2,100	7,300	3.5	1,900	0.3	0.9
2010-11	1,000	9,900	9.9	2,100	0.2	2.1
2011-12	400	1,600	4.0	600	0.4	1.5
2012-13	1,000	21,200	21.2	800	0.0	0.8
2013-14	1,570	19,114	12.2	1,651	0.1	1.1

ALABAMA HUNTING SURVEY ESTIMATES - COYOTE

Year	Hunters	Man-Days	Average Man-Days	Harvest	Harvest Per Man-Days	Harvest Per Hunter
1983-84	5,708	41,081	7.2	9,655	0.2	1.7
1984-85	5,717	37,697	6.6	5,854	0.2	1.0
1985-86	7,046	41,781	5.9	5,264	0.1	0.7
1986-87	7,648	48,796	6.4	10,995	0.2	1.4
1987-88	12,355	72,573	5.9	13,137	0.2	1.1
1988-89	7,241	49,323	6.8	11,766	0.2	1.6
1989-90	8,730	73,612	8.4	11,364	0.2	1.3
1990-91	11,900	76,300	6.4	21,100	0.3	1.8
1991-92	11,000	96,400	8.8	13,200	0.1	1.2
1992-93	11,100	78,700	7.1	12,100	0.2	1.1
1993-94	12,300	80,500	6.5	18,900	0.2	1.5
1994-95	10,200	113,800	11.2	20,800	0.2	2.0
1995-96	15,500	71,400	4.6	28,900	0.4	1.9
1996-97	17,800	120,500	6.8	30,800	0.3	1.7
1997-98	16,600	80,500	4.8	23,400	0.3	1.4
1998-99	15,400	90,600	5.9	30,800	0.3	2.0
1999-00	15,900	118,000	7.4	22,700	0.2	1.4
2000-01	15,100	66,500	4.4	19,900	0.3	1.3
2001-02	17,500	63,800	3.6	31,400	0.5	1.8
2002-03	15,700	131,800	8.4	26,600	0.2	1.7
2003-04	17,300	210,900	12.2	28,700	0.1	1.7
2004-05	16,600	241,500	14.5	35,000	0.1	2.1
2005-06	16,800	95,400	5.7	35,300	0.4	2.1
2006-07	19,900	163,100	8.2	33,000	0.2	1.7
2007-08	21,800	144,100	6.6	32,100	0.2	1.5
2008-09	22,300	247,600	11.1	46,100	0.2	2.1
2009-10	21,200	176,900	8.3	35,700	0.2	1.7
2010-11	14,900	136,000	9.1	45,100	0.3	3.0
2011-12	18,300	125,700	6.9	35,200	0.3	1.9
2012-13	26,800	186,600	7.0	44,500	0.2	1.7
2013-14	26,119	175,039	6.7	52,213	0.3	2.0

ALABAMA HUNTING SURVEY ESTIMATES - BOBCAT

Year	Hunters	Man-Days	Average Man-Days	Harvest	Man-Days Per Harvest	Harvest Per Hunter
2001-02	3,700	16,400	4.4	4,100	4.0	1.1
2002-03	4,300	40,600	9.5	4,600	8.8	1.1
2003-04	7,000	58,600	8.4	7,900	7.4	1.1
2004-05	6,600	102,700	15.5	8,900	11.5	1.3
2005-06	7,600	44,000	5.8	10,500	4.2	1.4
2006-07	6,100	46,000	7.5	7,600	6.1	1.2
2007-08	7,300	70,300	9.6	4,600	15.3	0.6
2008-09	7,400	67,800	9.2	7,700	8.8	1.0
2009-10	4,900	56,300	11.5	4,100	13.7	0.8
2010-11	4,800	41,700	8.7	8,600	4.8	1.8
2011-12	5,500	23,100	4.2	6,300	3.7	1.1
2012-13	5,100	40,000	7.8	12,300	3.3	2.4
2013-14	5,120	37,647	7.4	4,120	9.1	0.8

ALABAMA HUNTING SURVEY ESTIMATES - DUCK

Year	Hunters	Man-Days	Average Man-Days	Harvest	Harvest Per Man-Day	Harvest Per Hunter
1963-67 *	21,856	102,595	4.7	115,452	1.1	5.2
1968-70 *	19,338	93,631	4.8	126,817	1.4	6.6
1970-75 *	22,513	114,931	5.1	149,330	1.3	6.6
1975-76	27,723	133,935	4.8	135,039	1.0	4.9
1976-77	27,352	138,500	5.1	201,424	1.5	7.4
1977-78	28,661	151,654	5.3	203,920	1.3	7.1
1978-79	26,011	138,448	5.3	184,455	1.3	7.1
1979-80	22,677	107,056	4.7	126,160	1.2	5.6
1980-81	21,540	120,756	5.6	155,411	1.3	7.2
1981-82	20,008	128,591	6.4	159,758	1.2	8.0
1982-83	17,813	118,866	6.7	157,383	1.3	8.8
1983-84	16,382	108,080	6.6	152,012	1.4	9.3
1984-85	19,103	137,940	7.2	182,739	1.3	9.6
1985-86	17,949	90,611	5.0	110,686	1.2	6.2
1986-87	16,030	101,402	6.3	146,915	1.4	9.2
1987-88	11,437	60,922	5.3	77,770	1.3	6.8
1988-89	10,088	56,584	5.6	57,783	1.0	5.7
1989-90	12,398	64,509	5.2	89,182	1.4	7.2
1990-91	10,900	69,700	6.4	93,200	1.3	8.6
1991-92	8,600	52,000	6.0	68,500	1.3	8.0
1992-93	10,600	71,800	6.8	98,300	1.4	9.3
1993-94	11,300	71,900	6.4	94,800	1.3	8.4
1994-95	10,700	82,200	7.7	100,900	1.2	9.4
1995-96	15,700	127,500	8.1	220,700	1.7	14.1
1996-97	15,900	121,600	7.6	157,700	1.3	9.9
1997-98	15,800	132,500	8.4	164,800	1.2	10.4
1998-99	19,300	141,200	7.3	230,700	1.6	12.0
1999-00	16,600	131,000	7.9	187,700	1.4	11.3
2000-01	19,400	138,700	7.1	219,100	1.6	11.3
2001-02	22,500	175,600	6.8	209,400	1.2	9.3
2002-03	17,700	123,400	7.0	160,300	1.3	9.1
2003-04	21,800	192,000	8.8	233,800	1.2	10.7
2004-05	15,200	134,400	8.8	164,700	1.2	12.8
2005-06	14,100	95,900	6.8	166,500	1.7	11.8
2006-07	16,600	125,500	7.5	175,300	1.4	10.6
2007-08	18,200	129,200	7.1	185,500	1.4	10.2
2008-09	17,800	134,800	7.6	244,400	1.8	13.7
2009-10	18,600	148,100	8.0	231,800	1.6	12.5
2010-11	19,900	189,300	9.5	347,600	1.8	17.5
2011-12	16,100	151,900	9.4	263,900	1.7	16.4
2012-13	20,800	160,000	7.7	260,500	1.6	12.5
2013-14	19,838	155,575	7.8	261,640	1.7	13.2

* Average of Years - Annual data can be provided if requested

ALABAMA HUNTING SURVEY ESTIMATES - GOOSE

Year	Hunters	Man-Days	Average Man-Days	Harvest	Harvest Per Man-Day	Harvest Per Hunter
1963-67 *	4,710	18,047	3.9	5,899	0.5	1.3
1968-70 *	5,984	28,693	4.8	8,634	0.3	1.4
1970-75 *	3,336	19,473	5.8	5,711	0.3	1.7
1975-76	4,606	33,667	7.3	4,048	0.1	0.9
1976-77	3,040	11,428	3.8	4,115	0.4	1.4
1977-78	4,165	16,360	3.9	5,580	0.3	1.3
1978-79	2,962	21,028	7.1	2,663	0.1	0.9
1979-80	3,055	9,707	3.2	1,820	0.2	0.6
1980-81	3,218	14,194	4.4	3,535	0.2	1.1
1981-82	2,447	12,557	5.1	2,149	0.2	0.9
1982-83	2,116	16,531	7.8	1,219	0.1	0.6
1983-84	2,872	18,794	6.5	3,517	0.2	1.2
1984-85	2,641	18,015	6.8	3,157	0.2	1.2
1985-86	3,461	15,511	4.5	3,111	0.2	0.9
1986-87	3,007	20,505	6.8	2,109	0.1	0.7
1987-88	1,595	8,468	5.3	2,214	0.3	1.4
1988-89	1,900	9,841	5.2	2,095	0.2	1.1
1989-90	3,095	17,103	5.5	8,787	0.5	2.8
1990-91	4,300	31,000	7.2	15,500	0.5	3.6
1991-92	3,100	11,100	3.6	3,700	0.3	1.2
1992-93	2,200	11,700	5.3	2,800	0.2	1.3
1993-94	1,300	11,100	8.5	7,000	0.6	5.4
1994-95	3,200	17,100	5.3	5,000	0.3	1.6
1995-96	4,400	34,800	7.9	9,500	0.3	2.2
1996-97	3,000	10,800	3.6	3,900	0.4	1.3
1997-98	4,500	30,900	6.9	4,700	0.2	1.0
1998-99	4,300	28,600	6.6	4,300	0.2	1.0
1999-00	4,100	19,000	4.6	9,100	0.5	2.2
2000-01	3,100	17,300	5.6	6,000	0.3	1.9
2001-02	5,400	29,700	5.5	14,700	0.5	2.7
2002-03	3,600	24,800	7.0	4,800	0.2	1.3
2003-04	5,900	35,700	6.1	10,000	0.3	1.7
2004-05	5,000	32,400	6.5	8,600	0.3	1.7
2005-06	3,700	22,200	6.0	14,300	0.6	3.9
2006-07	3,800	21,100	5.6	13,600	0.6	3.6
2007-08	5,400	35,400	6.6	15,600	0.4	2.9
2008-09	5,600	46,500	8.3	18,200	0.4	3.3
2009-10	5,600	31,800	5.7	14,900	0.5	2.7
2010-11	4,600	23,000	5.0	16,300	0.7	3.5
2011-12	5,000	32,900	6.6	21,100	0.6	4.2
2012-13	4,500	40,500	9.0	6,900	0.2	1.5
2013-14	5,200	37,143	7.1	17,756	0.5	3.4

* Average of Years, Annual data can be provided if requested

ALABAMA HUNTING SURVEY ESTIMATES - COOT

Year	Hunters	Man-Days	Average Man-Days	Harvest	Harvest Per Man-Day	Harvest Per Hunter
1963-67 *	1,887	9,955	5.2	25,517	2.7	13.4
1969-70	2,627	7,300	2.8	20,734	2.8	7.9
1972-73	2,383	25,574	10.7	51,027	2.0	21.4
1976-79	3,788	19,014	5.0	33,443	1.8	8.8
1979-80	1,582	6,686	4.2	7,276	1.1	4.6
1980-81	1,000	4,886	4.9	12,435	2.5	12.4
1981-82	837	3,857	4.6	6,609	1.7	7.9
1982-83	2,210	8,419	3.8	52,487	6.2	23.7
1983-84	1,139	5,289	4.6	16,303	3.1	14.3
1984-85	1,187	5,107	4.3	16,874	3.3	14.2
1985-86	1,236	6,994	5.7	21,463	3.1	17.4
1986-87	1,049	11,739	11.2	18,435	1.6	17.6
1987-88	695	2,649	3.8	1,665	0.6	2.4
1988-89	634	3,931	6.2	2,266	0.6	3.6
1989-90	545	3,196	5.9	3,964	1.2	7.3
1990-91	1,000	6,500	6.5	9,500	1.5	9.5
1991-92	200	200	1.0	300	1.5	1.5
1992-93	700	800	1.1	1,900	2.4	2.7
1993-94	400	1,900	4.8	2,500	1.3	6.3
1994-95	200	600	3.0	900	1.5	4.5
1995-96	700	6,300	9.0	4,500	0.7	6.4
1996-97	1,000	7,600	7.6	12,000	1.6	12.0
1997-98	1,000	6,300	6.3	4,400	0.7	4.4
1998-99	1,300	3,300	2.5	8,000	2.4	6.1
1999-00	900	5,900	6.6	3,500	0.6	3.9
2000-01	700	5,200	7.4	7,100	1.4	10.1
2001-02	800	10,300	12.9	8,000	1.3	10.0
2002-03	100	600	5.6	600	1.0	5.5
2003-04	400	2,800	7.1	2,000	0.7	5.0
2004-05	700	15,100	21.6	2,100	0.1	3.0
2005-06	400	2,300	5.7	2,400	1.0	6.0
2006-07	700	6,600	9.4	9,300	1.4	13.3
2007-08	800	7,400	9.3	5,700	1.3	7.1
2008-09	1800	24,800	13.8	28,400	1.1	15.8
2009-10	1400	15,700	11.2	14,700	0.9	10.5
2010-11	800	5,600	0.7	9,300	1.7	11.6
2011-12	1,000	14,200	14.2	19,400	1.4	19.4
2012-13	1,400	22,800	16.3	4,400	0.2	3.1
2013-14	1,973	10,376	5.3	9,210	0.9	4.7

Specie omitted from sample during 68-69, 70-72, 73-75, 76-79

* Average of Years

ALABAMA HUNTING SURVEY ESTIMATES - SNIPE

Year	Hunters	Man-Days	Average Man-Days	Harvest	Harvest Per Man-Day	Harvest Per Hunter
1963-67 *	6,429	32,708	5.1	36,897	1.1	5.6
1969-70	7,657	20,284	2.6	38,510	1.9	5.0
1972-73	6,194	19,099	3.1	34,950	1.8	5.6
1975-76	8,969	25,100	2.8	76,528	3.0	8.5
1979-80	5,356	18,676	3.5	23,960	1.3	4.5
1980-81	5,333	22,292	4.2	38,457	1.7	7.2
1981-82	4,434	14,738	3.3	20,589	1.4	4.6
1982-83	2,310	4,626	2.0	9,924	2.1	4.3
1983-84	2,765	10,755	3.9	27,995	2.6	10.1
1984-85	1,885	7,999	4.2	16,537	2.1	8.8
1985-86	2,537	6,099	2.4	11,140	1.8	4.4
1986-87	1,531	5,488	3.6	4,902	0.9	3.2
1987-88	1,438	8,611	6.0	11,654	1.4	8.1
1988-89	1,066	4,956	4.6	4,565	0.9	4.3
1989-90	1,312	8,727	6.7	10,560	1.2	8.0
1990-91	1,300	3,900	3.0	5,000	1.3	3.8
1991-92	1,200	6,000	5.0	5,300	0.9	4.4
1992-93	700	5,900	8.4	2,400	0.4	3.4
1993-94	700	4,700	6.7	8,800	1.9	12.6
1994-95	300	600	2.0	1,900	3.2	6.3
1995-96	900	3,100	3.4	1,600	0.5	1.8
1996-97	1,300	5,200	4.0	6,200	1.2	4.8
1997-98	400	2,600	6.5	1,800	0.7	4.5
1998-99	400	800	2.0	2,100	2.6	5.3
1999-00	800	2,200	2.8	2,800	1.3	3.5
2000-01	800	1,800	2.2	3,800	2.1	4.8
2001-02	1,100	1,700	1.5	3,700	2.2	3.4
2002-03	400	1,100	2.7	2,400	2.2	6.2
2003-04	700	3,500	5.0	2,200	0.6	3.1
2004-05	400	3,400	7.8	5,100	1.5	12.8
2005-06	1,100	2,400	2.2	9,400	3.9	8.5
2006-07	1,000	3,100	3.1	11,500	3.7	11.5
2007-08	1,000	2,500	2.5	3,400	1.4	3.4
2008-09	800	2,700	3.4	6,700	2.5	8.4
2009-10	300	1,200	4.0	700	0.6	2.3
2010-11	300	500	1.7	500	1.0	1.7
2011-12	100	200	2.0	500	2.5	5.0
2012-13	400	600	1.5	600	1.0	1.5
2013-14	84	112	1.3	251	2.2	3.0

Specie omitted from sample during 68-69, 70-72, 73-75, 76-79

* Average of Years

ALABAMA HUNTING SURVEY ESTIMATES - WOODCOCK

Year	Hunter	Man-Days	Average Man-Days	Harvest	Harvest Per Man-Day	Harvest Per Hunter
1963-67 *	4,208	22,860	5.5	17,341	0.8	4.1
1969-70	7,342	26,133	3.6	34,450	1.3	4.7
71/72-75/76*	5,692	29,459	5.2	25,802	0.9	4.5
1976-77	7,365	29,962	4.1	41,434	1.4	5.6
1977-78	7,207	24,652	3.4	40,327	1.6	5.6
1978-79	4,940	24,394	4.9	23,188	1.0	4.7
1979-80	6,035	18,351	3.0	25,355	1.4	4.2
1980-81	6,874	32,115	4.7	32,804	1.0	4.8
1981-82	4,445	17,593	4.0	21,323	1.2	4.8
1982-83	3,605	12,107	3.4	10,628	0.9	2.9
1983-84	2,368	6,196	2.6	8,559	1.4	3.6
1984-85	1,972	7,815	4.0	7,701	1.0	3.9
1985-86	2,673	6,779	2.5	8,617	1.3	3.2
1986-87	1,564	5,781	3.7	5,165	0.9	3.3
1987-88	1,923	4,032	2.1	6,812	1.7	3.5
1988-89	1,141	7,260	6.4	3,778	0.5	3.3
1989-90	1,088	9,157	8.4	3,937	0.4	3.6
1990-91	1,300	3,000	2.3	3,700	1.2	2.8
1991-92	800	2,300	2.9	2,500	1.1	3.1
1992-93	600	1,400	2.3	2,100	1.5	3.5
1993-94	1,200	4,100	3.4	900	0.2	0.8
1994-95	700	2,200	3.1	1,300	0.6	1.9
1995-96	900	3,100	3.4	1,600	0.5	1.8
1996-97	1,000	4,300	4.3	1,600	0.4	1.6
1997-98	800	2,600	3.2	2,300	0.9	2.9
1998-99	500	600	1.2	1,100	1.8	2.2
1999-00	1,100	2,200	2.0	3,400	1.5	3.1
2000-01	300	800	2.7	1,100	1.4	3.7
2001-02	500	2,200	4.4	300	0.1	0.6
2002-03	600	7,500	12.9	2,100	0.3	3.6
2003-04	400	700	1.9	900	1.3	2.2
2004-05	400	5,300	12.0	2,400	0.5	6.0
2005-06	500	900	1.8	1,700	1.9	3.4
2006-07	300	600	2.0	200	0.3	0.7
2007-08	800	2,300	2.9	800	0.3	1.0
2008-09	600	1,100	1.8	900	0.8	1.5
2009-10	200	4,200	21.0	800	0.2	4.0
2010-11	600	8,900	14.8	1,900	0.2	3.2
2011-12	30	30	1.0	500	16.7	16.7
2012-13	800	2,700	3.4	1,200	0.4	1.5
2013-14	327	1,233	3.8	1,663	1.3	5.1

Specie omitted from sample during 68-69, 70-71

* Average of Years

ALABAMA HUNTING SURVEY ESTIMATES - FERAL HOGS

Year	Hunters	Man-Days	Average Man-Days	Harvest	Harvest Per Man-Day	Harvest Per Hunter
1995-96	13,500	94,400	7.0	12,500	0.1	0.9
1996-97	12,700	70,800	5.6	16,000	0.2	1.3
1997-98	13,800	88,500	6.4	28,000	0.3	2.0
1998-99	16,000	109,100	6.8	28,100	0.3	1.8
1999-00	15,500	89,600	5.8	31,500	0.4	2.0
2000-01	16,600	120,100	7.2	26,600	0.2	1.6
2001-02	14,900	72,400	4.9	18,500	0.3	1.2
2002-03	15,400	120,500	7.8	40,700	0.3	2.6
2003-04	20,800	251,400	12.1	39,700	0.2	1.9
2004-05	18,400	241,000	13.1	47,100	0.2	2.6
2005-06	18,500	164,900	8.9	43,900	0.3	2.4
2006-07	23,100	230,100	10.0	58,300	0.3	2.5
2007-08	21,200	215,600	10.2	57,700	0.3	2.7
2008-09	27,400	274,700	10.0	73,100	0.3	2.7
2009-10	26,200	310,500	11.9	89,400	0.3	3.4
2010-11	25,000	303,600	12.1	98,800	0.3	4.0
2011-12	23,600	206,800	8.8	81,500	0.4	3.5
2012-13	31,800	320,100	10.1	151,500	2.1	4.8
2013-14	30,033	362,328	12.1	122,699	3.0	4.1