

SMALL GAME HUNTER ACTIVITY SURVEY - 2010
STATEWIDE WILDLIFE RESEARCH AND SURVEYS

Performance Report
A Contribution in Part of Pittman-Robertson
Federal Aid in Wildlife Restoration
Grant W-39-R-18

KANSAS DEPARTMENT OF WILDLIFE, PARKS, and TOURISM
Robin Jennison
Secretary

Keith Sexson
Assistant Secretary
Wildlife, Fisheries, and Boating

Prepared by:
David Dahlgren
Small Game Specialist

Joe Kramer, Director
Fisheries & Wildlife Division

Mike Mitchener, Chief
Wildlife Section

April 2012

PERMISSION TO QUOTE



This is an annual progress report that may contain information that is subject to future modification or revision. Persons wishing to quote from this report, for reproduction or reference, should first obtain permission from the Chief of the Wildlife Section, Kansas Department of Wildlife and Parks, 512 SE 25th Avenue, Pratt, KS 67124.

EQUAL OPPORTUNITY STATEMENT

This program receives Federal financial assistance from the U. S. Fish and Wildlife Service. Under Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title II of the Americans with Disabilities Act of 1990, the Age Discrimination Act of 1975, and Title IX of the Education Amendments of 1972, the U. S. Department of the Interior and its bureaus prohibit discrimination on the basis of race, color, national origin, age, disability or sex (in educational programs). If you believe that you have been discriminated against in any program, activity or facility, or if you desire further information, please write to:

**U. S. Fish and Wildlife Service
Office of Diversity and Civil Rights Programs- External Programs
4040 North Fairfax Drive, Suite 130
Arlington, VA 22203**

TABLE OF CONTENTS

Survey Procedures and Results 4
2010-2011 Small Game Seasons..... 5
Long-Term Statewide Harvest Indices
 Dove 7
 Quail 9
 Pheasant..... 11
 Greater Prairie Chicken 13
 Lesser Prairie Chicken 15
 Cottontail 17
 Squirrel 19

2010–2011 Regional Harvest Indices
 Map of Small Game Regions 21
 Dove 22
 Quail 23
 Pheasant..... 24
 Greater Prairie Chicken - Regular Season 25
 - Early Season 26
 Lesser Prairie Chicken 26
 Cottontail 27
 Jackrabbit..... 28
 Squirrel 29

Upland Hunting Days and Proportion on Public Land 30
Age of SGHS Respondents 31
County of Residence of Resident SGHS Respondents 32
Relative Resident and Non-Resident Small Game Hunting Activity33
2010–2011 Harvest Estimates of Other Species or Species Groups
 Prairie Dog..... 35
 Coyote
 All Hunters 36
 Hunters Without a Furharvester’s License 37
 Hunters With a Furharvester’s License 38
 Waterfowl
 Special Teal Season..... 39
 Ducks 40
 Geese 41

SMALL GAME HUNTER ACTIVITY SURVEY - 2010

Objective: *Estimate statewide hunter activity and harvest parameters for Kansas' major small game species.*

Procedure: *A random sample of 14,746 Kansas resident and 7,703 non-resident 2010 hunting, combination, and lifetime license holders was selected from all Kansas counties using the electronic Kansas Outdoors Automated Licensing System (KOALS). Each individual was notified by postcard in February 2011 of their selection for the survey and asked to complete an on-line questionnaire of their hunting activity about the 2010-2011 seasons. Paper questionnaires were provided to hunters who requested them. After approximately 5 weeks, non-respondents were mailed a second postcard notification requesting their participation in this survey.*

After relying entirely on electronic responses for the 2008 survey and discovering that older hunters had been undersampled with that all-electronic approach (see 2008 report), hunters sampled for the 2010 survey were immediately offered the option of receiving a paper questionnaire by returning a postage-paid card attached to their first notice. The same offer was made with the second notice. A total of 683 hunters requested paper questionnaires.

Results: *From the 22,450 deliverable notifications, 5684 usable responses were obtained for an overall response rate of 25%. These included 3,422 responses (2,990 electronic, 432 paper) from resident hunters, and 2,262 responses (1,984 electronic, 278 paper) from non-resident hunters. Of these, 3801 indicated hunting small game during the 2010-2011 seasons (2,421 residents and 1,380 non-residents). Based on these values, 70.8% and 61.0% of resident and non-resident hunters, respectively, hunted small game in Kansas.*

Hunting license sales totaled 180,242 in 2010, an increase of 1.45% compared to 2009 sales of 177,673. Resident license sales decreased 0.32% from 110,141 in 2009 to 109,792 in 2010. Non-resident license sales increased 3.53% from 67,532 in 2009 to 69,917 in 2010. Lifetime license holders (past 25 years, 1986–2010) numbered 40,654 during 2010.

Using the small game participation percentages previously noted (residents = 70.8%, non-residents = 61.0%), it was estimated that about 77,736 resident and 42,649 non-resident license buyers hunted small game in Kansas during the 2010-2011 seasons. The resident percentage was applied to lifetime license holders yielding an estimated 32,303 additional active hunters, for a total of 152,688 small game hunters in Kansas for the 2010 – 2011 seasons.

Long-term harvest estimates and hunter success indices are presented by species in tables 1 through 7. Tables 8 through 16 present regional harvest and hunter success indices for each species during the 2010-2011 seasons. Table 17 indicates the proportion of Kansas small game hunting that occurred on public land. Tables 18 and 19 present age and county-of-residence, respectively, for survey respondents. Table 20 shows non-resident respondent numbers by state of residence. Relative small game hunting participation and harvest estimates by species are shown in table 21 for residents and non-residents. Tables 22-28 report hunting activity for prairie dogs, coyotes, and waterfowl.

A summary of the 2010 small game hunting season regulations follows.

2010

SMALL GAME HUNTING SEASONS, BAG LIMITS, AND POSSESSION LIMITS

DOVE	<i>September 1 through October 31 and November 6 through 14 Daily bag = 15, Possession = 30</i>
QUAIL	<i>November 13 through January 31, 2010 Daily bag = 8, Possession = 32</i>
PHEASANT	<i>November 13 through January 31, 2010 Daily bag = 4 cocks, Possession = 16 cocks</i>
PRAIRIE CHICKEN	<i>September 15 through October 15 east of U.S. 281 (East Unit) and November 20 through January 31, 2010 east of U.S. 281 or north of I-70 (East and Northwest Units – greater prairie chicken) Daily bag = 2, Possession = 8</i> <i>November 20 through December 31 west of U.S. 281 and south of I-70 (Southwest Unit – primarily lesser prairie chicken) Daily bag = 1, Possession = 4</i>
COTTONTAIL & JACKRABBIT	<i>Season open all year Daily bag = 10, Possession = 30</i>
SQUIRREL	<i>June 1 through February 28, 2010 Daily bag = 5, Possession = 20</i>

LEGAL SHOOTING HOURS for all species: 30 minutes before sunrise to sunset

This page deliberately left blank

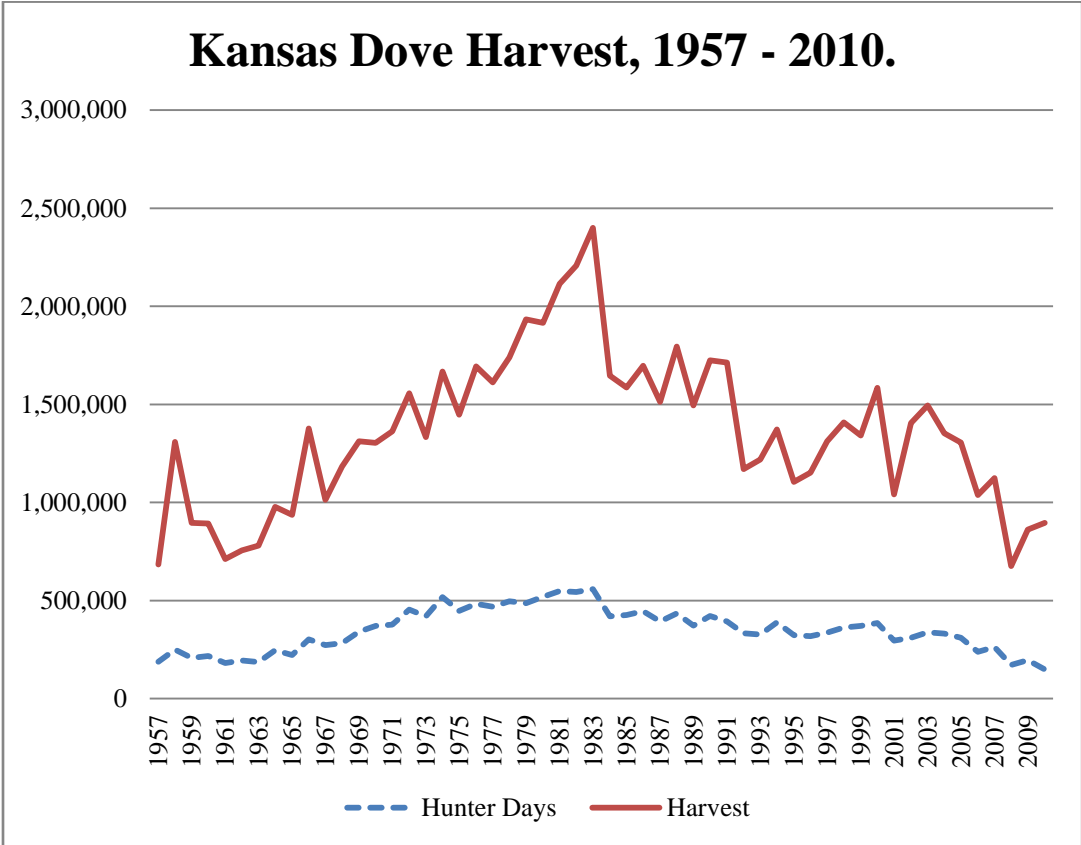


Table 1. Estimated annual **DOVE** hunting activity in Kansas.

Year	% Respondents Hunting Species	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
1957	24	45,400	188,000	684,000	4.15	15.07	3.63
1958	25	58,000	250,000	1,308,000	4.31	22.56	5.24
1959	23	53,200	207,000	896,000	3.89	16.85	4.33
1960	27	61,400	217,000	893,000	3.54	14.55	4.11
1961	23	^a 48,300	181,000	712,000	3.75	14.74	3.93
1962	25	48,800	194,000	755,000	3.98	15.48	2.87
1963	28	50,100	186,000	781,000	3.71	15.58	4.20
1964	33	58,000	247,000	978,000	4.26	16.87	3.96
1965	31	54,100	223,000	936,000	4.13	17.30	4.19
1966	34	67,000	302,000	1,378,000	4.50	20.57	4.57
1967	31	63,300	273,000	1,013,000	4.31	16.01	^b 3.71
1968	33	66,100	283,000	1,183,000	4.27	17.89	4.17
1969	36	74,500	341,000	1,312,000	4.58	17.61	3.84
1970	35	74,200	371,000	1,304,000	5.00	17.57	3.51
1971	39	81,200	378,000	1,363,000	4.66	16.79	3.75
1972	41	85,900	454,000	1,556,000	5.29	18.11	3.78
1973	36	78,200	419,000	1,333,000	5.36	17.05	3.60
1974	44	94,300	517,000	1,668,000	5.48	17.69	3.50
1975	43	86,000	448,000	1,448,000	5.21	16.84	3.49
1976	44	89,700	483,000	1,694,000	5.39	18.89	3.75
1977	43	89,200	469,000	1,612,000	5.26	18.06	3.69
1978	42	89,300	497,000	1,739,000	5.56	19.45	4.14
^c 1979	43	98,700	486,000	1,933,000	4.92	19.59	4.51
1980	45	104,100	519,000	1,916,000	4.99	18.41	3.93
1981	44	103,000	549,000	2,115,000	5.33	20.54	3.95
1982	43	107,300	543,000	2,208,000	5.06	20.58	4.23
1983	44	104,900	558,000	2,400,000	5.32	23.06	4.49
1984	45	85,900	420,000	1,647,000	4.89	19.17	4.27
1985	45	84,200	426,000	1,586,000	5.05	18.84	3.83
1986	47	91,300	445,000	1,697,000	4.88	18.58	3.95
1987	42	83,100	393,000	1,512,000	4.73	18.18	3.93
1988	48	92,000	434,000	1,795,000	4.67	19.32	4.21
1989	45	79,600	373,000	1,495,000	4.69	18.79	4.12
1990	44	79,100	421,000	1,724,000	5.32	21.79	4.27
1991	45	83,100	393,000	1,714,000	4.73	20.63	4.44
1992	43	73,100	333,000	1,170,000	4.55	16.00	3.62
1993	41	72,000	326,000	1,219,000	4.53	16.94	3.80
1994	41	77,400	389,000	1,373,000	5.02	17.74	3.78
1995	41	74,400	324,000	1,105,000	4.35	14.86	3.35
1996	44	70,100	318,000	1,152,000	4.54	16.44	3.64
1997	43	71,700	337,000	1,312,000	4.69	18.29	4.20
1998	43	73,800	362,000	1,408,000	4.91	19.08	4.05
1999	40	71,200	370,000	1,342,000	5.19	18.83	3.87
2000	43	80,300	386,000	1,584,000	4.81	19.72	4.31
2001	42	69,900	295,000	1,042,000	4.23	14.90	3.74
2002	44	70,600	309,800	1,404,600	4.39	19.89	4.54
2003	44	73,500	338,000	1,494,000	4.60	20.34	4.72
2004	42	72,300	331,000	1,352,000	4.58	18.71	4.45
2005	38	66,500	310,000	1,305,000	4.67	19.63	4.42
^d 2006	32	52,200	238,000	1,038,000	4.55	19.86	4.69
2007	36	56,600	263,000	1,125,000	4.63	19.87	4.57
2008	29	39,500	171,000	676,000	4.19	16.46	4.08
2009	26	44,200	197,000	861,000	4.47	19.48	4.65
2010	30	44,656	148,453	896,287	4.55	20.07	4.69

^a Hunter estimates prior to 1962 were not adjusted for inactive license buyers.

^b Average Bag Per Day through 1967 expresses overall mean season bag divided by overall mean season days.

ABPD after 1967 is the mean of individual hunter ratios of season bag to season days.

^c Percent of active hunters hunting species unobtainable due to 1979 questionnaire error. Value is 1974-1978 mean.

^d Electronic licensing permitted random sampling of non-residents for the 1st time, improving how estimates were calculated.

Kansas Bobwhite Harvest, 1957 - 2010.

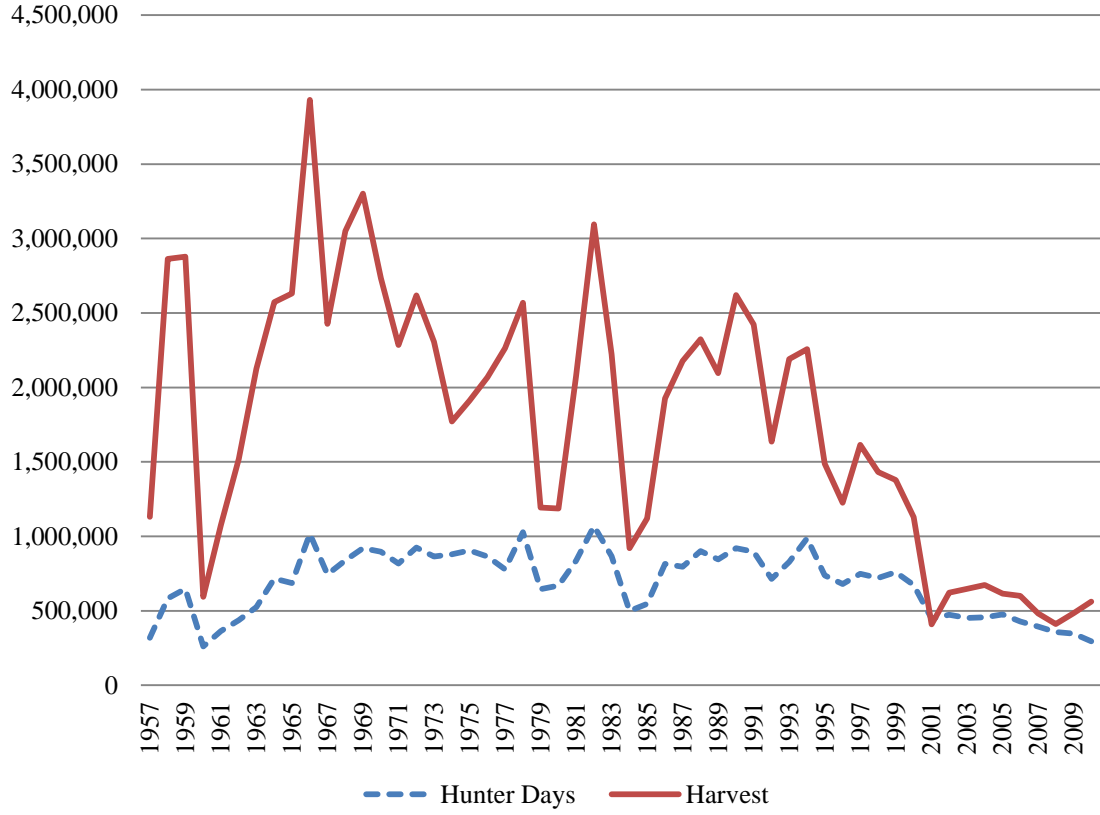


Table 2. Estimated annual **BOBWHITE** hunting activity in Kansas.

Year	% Respondents Hunting Species	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
1957	46	87,100	318,000	1,132,000	3.65	13.00	3.56
1958	61	139,800	583,000	2,863,000	4.17	20.48	4.91
1959	62	141,800	647,000	2,879,000	4.56	20.30	4.45
1960	43	96,500	261,000	594,000	2.70	6.16	2.28
1961	48	^a 99,600	364,000	1,076,000	3.65	10.80	2.96
1962	55	106,300	437,000	1,520,000	4.11	14.30	3.48
1963	67	120,400	524,000	2,126,000	4.35	17.66	4.06
1964	75	130,800	717,000	2,573,000	5.48	19.67	3.59
1965	76	133,600	687,000	2,631,000	5.14	19.69	3.83
1966	79	156,800	1,016,000	3,931,000	6.48	25.07	3.87
1967	75	152,200	744,000	2,426,000	4.89	15.94	^b 3.26
1968	77	151,800	838,000	3,050,000	5.52	20.09	3.50
1969	77	159,600	921,000	3,301,000	5.77	20.68	3.59
1970	76	160,200	897,000	2,733,000	5.60	17.06	3.04
1971	75	155,300	818,000	2,284,000	5.27	14.71	2.56
1972	75	158,200	924,000	2,618,000	5.84	16.55	2.73
1973	71	152,700	864,000	2,307,000	5.66	15.11	2.70
1974	72	152,000	879,000	1,772,000	5.78	11.66	2.06
1975	74	148,200	906,000	1,912,000	6.11	12.90	2.27
1976	73	148,700	864,000	2,068,000	5.81	13.91	2.43
1977	74	152,300	778,000	2,263,000	5.11	14.86	2.72
1978	75	161,000	1,027,000	2,569,000	6.38	15.96	2.70
^c 1979	55	125,600	646,000	1,193,000	5.14	9.50	1.90
1980	55	126,800	668,000	1,186,000	5.27	9.35	1.84
1981	61	142,900	836,000	2,076,000	5.85	14.53	2.40
1982	67	166,600	1,068,000	3,094,000	6.41	18.57	2.88
1983	64	153,100	867,000	2,223,000	5.66	14.53	2.50
1984	52	99,000	500,000	920,000	5.04	9.29	1.90
1985	53	97,400	546,000	1,121,000	5.60	11.50	1.91
1986	63	122,200	815,000	1,925,000	6.67	15.75	2.31
1987	66	128,200	796,000	2,177,000	6.21	16.98	2.68
1988	68	132,700	901,000	2,324,000	6.79	17.52	2.51
1989	68	121,100	845,000	2,096,000	6.98	17.32	2.44
1990	73	130,500	920,000	2,620,000	7.05	20.07	2.82
1991	73	134,200	897,000	2,423,000	6.69	18.05	2.54
1992	70	120,900	713,000	1,635,000	5.90	13.52	2.23
1993	72	126,400	828,000	2,190,000	6.55	17.33	2.51
1994	74	141,700	987,000	2,256,000	6.96	15.92	2.18
1995	70	125,400	738,000	1,487,000	5.88	11.86	1.97
1996	69	110,000	679,000	1,225,000	6.17	11.13	1.74
1997	70	116,400	748,000	1,615,000	6.43	13.87	2.12
1998	67	115,500	721,000	1,432,000	6.24	12.40	1.96
1999	65	117,600	760,000	1,378,000	6.46	11.72	1.83
2000	61	114,100	673,000	1,129,000	5.90	9.89	1.64
2001	55	91,300	448,000	408,000	4.91	4.47	0.92
2002	53	84,900	473,000	621,000	5.57	7.32	1.36
2003	54	91,000	452,000	647,000	4.97	7.11	1.46
2004	52	90,000	456,000	674,000	5.07	7.49	1.50
2005	52	90,900	475,000	616,000	5.23	6.78	1.39
^d 2006	50	80,900	428,000	600,000	5.29	7.41	1.39
2007	48	73,600	394,000	481,000	5.35	6.55	1.28
2008	51	69,800	358,000	410,000	4.98	5.66	1.16
2009	47	72,900	346,000	485,000	4.75	6.66	1.43
2010	51	77,407	295,405	561,430	5.22	7.25	1.48

^a Hunter estimates prior to 1962 were not adjusted for inactive license buyers.

^b Average Bag Per Day through 1967 expresses overall mean season bag divided by overall mean season days. ABPD after 1967 is the mean of individual hunter ratios of season bag to season days.

^c Percent of active hunters hunting species unobtainable due to 1979 questionnaire error. Value is 1974-1978 mean.

^d Electronic licensing permitted random sampling of non-residents for the 1st time, improving how estimates were calculated.

Knasas Pheasant Harvest, 1957 - 2010.

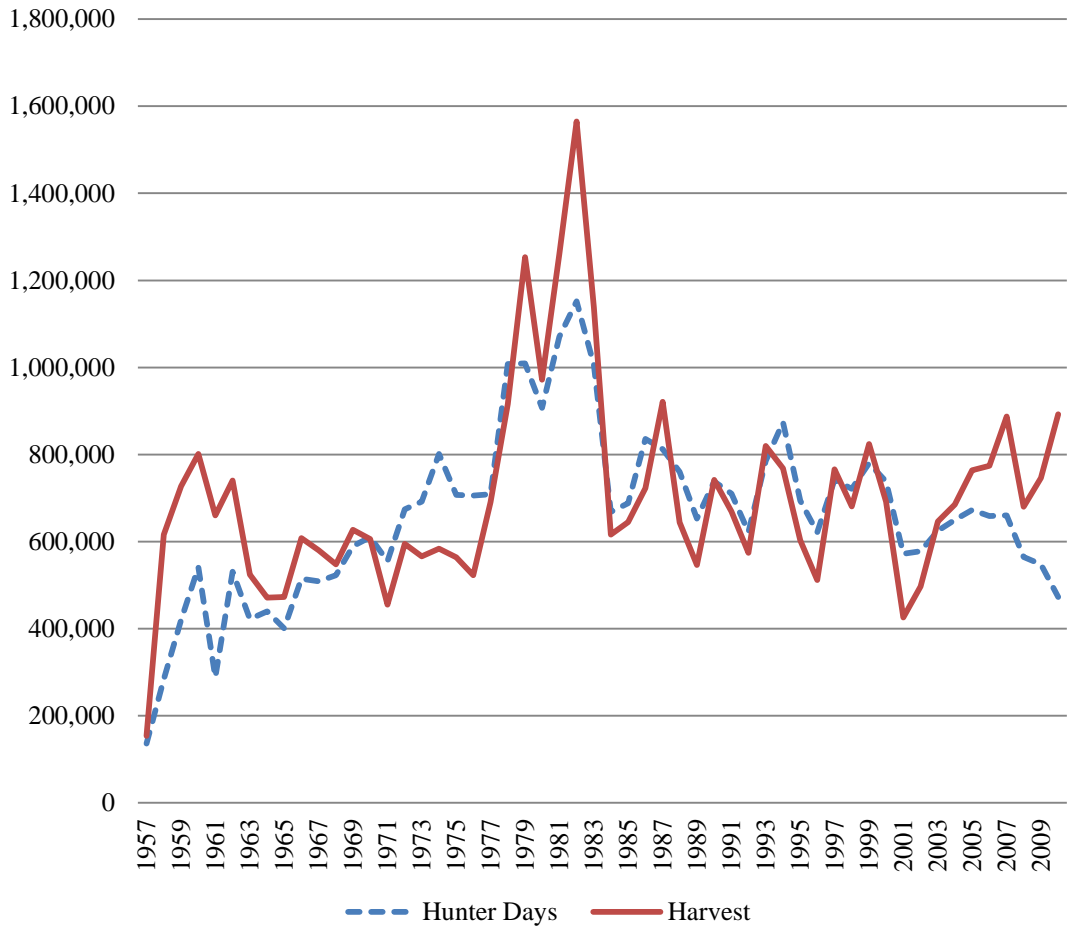


Table 3. Estimated annual PHEASANT hunting activity in Kansas.

Year	% Respondents Hunting Species	Est. Total Hunters	Est. Total Days	Est. ^a Total Harvest	Season Days Per Hunter	Season ^a Bag Per Hunter	Average ^a Bag Per Day
1957	40	75,700	136,000	154,000	1.80	2.03	1.13
1958	57	130,500	284,000	616,000	2.18	4.72	2.16
1959	64	146,300	420,000	727,000	2.87	4.97	1.73
1960	75	168,600	541,000	801,000	3.21	4.75	1.48
1961	70	^b 144,000	288,000	660,000	2.00	4.59	2.29
1962	78	149,500	531,000	740,000	3.55	4.95	1.39
1963	72	130,600	422,000	524,000	3.23	4.01	1.24
1964	68	118,300	440,000	471,000	3.72	3.98	1.07
1965	69	122,000	401,000	473,000	3.29	3.88	1.18
1966	68	134,500	515,000	608,000	3.83	4.52	1.18
1967	68	139,000	509,000	580,000	3.66	4.17	^c 1.14
1968	69	136,100	523,000	548,000	3.84	4.03	0.84
1969	70	145,200	590,000	627,000	4.06	4.32	1.06
1970	71	150,700	610,000	606,000	4.05	4.02	0.99
1971	68	141,700	555,000	455,000	3.92	3.21	0.96
1972	67	142,800	674,000	595,000	4.72	4.17	1.03
1973	65	139,700	692,000	566,000	4.95	4.05	0.96
1974	71	150,200	801,000	584,000	5.33	3.89	0.85
1975	71	141,100	707,000	564,000	5.01	3.97	0.92
1976	72	145,200	706,000	523,000	4.86	3.60	0.90
1977	72	148,400	709,000	690,000	4.78	4.65	1.09
1978	78	168,000	1,008,000	916,000	6.00	5.46	1.11
^d 1979	78	177,900	1,009,000	1,253,000	5.67	7.05	1.41
1980	77	176,200	907,000	972,000	5.15	5.52	1.19
1981	78	183,200	1,070,000	1,260,000	5.84	6.88	1.36
1982	79	195,600	1,152,000	1,565,000	5.89	8.00	1.51
1983	76	183,600	1,006,000	1,138,000	5.48	6.20	1.28
1984	72	135,700	668,000	616,000	4.92	4.54	1.07
1985	74	136,600	688,000	645,000	5.03	4.72	1.02
1986	74	143,100	836,000	723,000	5.84	5.06	1.01
1987	76	149,600	812,000	921,000	5.43	6.16	1.21
1988	75	144,400	760,000	644,000	5.26	4.46	1.00
1989	70	124,900	653,000	546,000	5.23	4.37	0.96
1990	74	133,000	738,000	742,000	5.55	5.58	1.14
1991	75	138,400	710,000	669,000	5.13	4.83	1.08
1992	73	126,100	622,000	574,000	4.93	4.55	0.99
1993	77	134,400	785,000	820,000	5.84	6.10	1.18
1994	76	145,300	874,000	768,000	6.02	5.28	1.07
1995	74	133,500	694,000	603,000	5.20	4.52	0.96
1996	70	111,700	621,000	512,000	5.56	4.59	0.94
1997	75	124,800	742,000	766,000	5.94	6.13	1.15
1998	73	125,800	721,000	681,000	5.73	5.41	1.01
1999	74	133,700	780,000	824,000	5.83	6.16	1.18
2000	72	133,400	738,000	692,000	5.53	5.19	1.00
2001	70	116,600	572,000	426,000	4.91	3.66	0.82
2002	67	106,800	578,000	497,000	5.41	4.65	0.93
2003	70	117,000	625,000	646,000	5.34	5.52	1.13
2004	71	123,800	650,000	685,000	5.25	5.53	1.11
2005	71	124,700	673,000	764,000	5.40	6.12	1.20
^e 2006	75	120,900	659,000	774,000	5.44	6.39	1.26
2007	78	117,100	660,000	887,000	5.64	7.58	1.41
2008	80	108,100	565,000	680,000	5.08	6.05	1.23
2009	75	112,400	548,000	746,000	4.87	6.62	1.39
2010	82	123,764	472,494	892,672	5.22	7.21	1.46

^a Values are for cocks only. Hen harvest estimates are based on check station data showing 28.6% (264,000) hens in 1961 and 19.4% (178,000) hens in 1962.

^b Hunter estimates prior to 1962 were not adjusted for inactive license buyers.

^c Average Bag Per Day through 1967 expresses overall mean season bag divided by overall mean season days.

ABPD after 1967 is the mean of individual hunter ratios of season bag to season days.

^d Percent of active hunters hunting species unobtainable due to 1979 questionnaire error. Value is 1974-1978 mean.

^e Electronic licensing permitted random sampling of non-residents for the 1st time, improving how estimates were calculated.

Kansas Greater Prairie Chicken Harvest, 1957-2010.

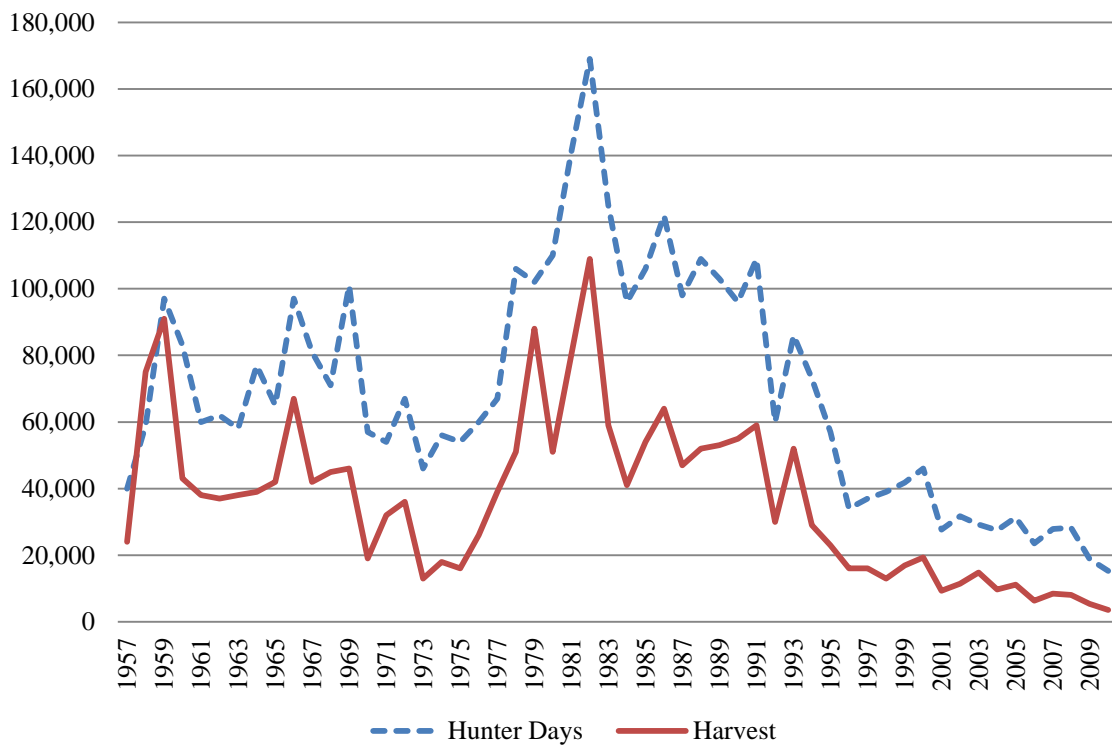


Table 4. Estimated annual **GREATER PRAIRIE CHICKEN** hunting activity in Kansas.

Year	% Respondents Hunting Species	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
1957	16	30,300	40,000	24,000	1.32	0.78	0.59
1958	23	51,900	59,000	75,000	1.13	1.45	1.28
1959	28	64,100	97,000	91,000	1.52	1.42	0.94
1960	26	57,500	83,000	43,000	1.45	0.74	0.51
1961	19	^a 40,000	60,000	38,000	1.50	0.96	0.64
1962	20	39,200	62,000	37,000	1.59	0.95	0.60
1963	21	37,100	58,000	38,000	1.57	1.02	0.65
1964	25	44,500	77,000	39,000	1.73	0.87	0.50
1965	23	41,500	65,000	42,000	1.56	1.01	0.65
1966	27	52,700	97,000	67,000	1.84	1.27	0.69
1967	22	45,100	81,000	42,000	1.79	0.94	0.53
1968	20	39,500	71,000	45,000	1.80	1.13	0.63
1969	23	48,600	101,000	46,000	2.08	0.95	0.46
1970	17	35,300	57,000	19,000	1.62	0.53	0.33
1971	16	32,700	54,000	32,000	1.65	0.98	0.60
1972	16	34,000	67,000	36,000	1.96	1.06	0.54
1973	9	18,700	46,000	13,000	2.45	0.71	0.29
1974	10	20,200	56,000	18,000	2.75	0.91	0.33
1975	9	17,100	54,000	16,000	3.16	0.92	0.29
1976	11	21,800	60,000	26,000	2.75	1.19	0.44
1977	11	22,800	67,000	39,000	2.92	1.71	0.59
1978	16	34,100	106,000	51,000	3.12	1.49	0.50
^c 1979	16	36,100	102,000	88,000	2.83	2.45	^b 0.87
1980	16	37,000	110,000	51,000	2.98	1.37	0.49
1981	19	45,400	141,000	80,000	3.11	1.76	0.57
1982	21	53,100	169,000	109,000	3.18	2.05	0.70
1983	17	41,100	125,000	59,000	3.04	1.44	0.50
1984	16	30,000	96,000	41,000	3.20	1.38	0.45
1985	16	30,100	106,000	54,000	3.52	1.78	0.52
1986	17	33,900	122,000	64,000	3.61	1.90	0.54
1987	15	30,000	98,000	47,000	3.26	1.58	0.52
1988	17	32,700	109,000	52,000	3.35	1.59	0.46
^d 1989	14	25,600	103,000	53,000	4.11	2.15	0.53
1990	15	26,000	96,000	55,000	3.67	2.09	0.55
1991	14	24,800	109,000	59,000	4.49	2.50	0.56
1992	11	18,700	60,000	30,000	3.28	1.65	0.52
1993	12	21,400	86,000	52,000	3.92	2.40	0.57
1994	10	19,100	73,000	29,000	3.87	1.52	0.47
1995	9	15,400	57,000	23,000	3.70	1.50	0.43
1996	7	11,400	34,000	16,000	3.01	1.36	0.44
1997	7	11,100	37,000	16,000	3.32	1.41	0.51
1998	6	11,000	39,000	13,000	3.49	1.21	0.46
1999	6	10,100	41,800	16,900	4.14	1.67	0.48
2000	6	11,400	46,000	19,300	4.42	1.36	0.43
2001	5	8,100	27,700	9,300	3.44	1.15	0.37
2002	5	8,600	31,700	11,400	3.68	1.31	0.42
2003	5	7,740	29,200	14,800	3.78	1.91	0.54
2004	5	9,530	27,500	9,700	2.86	1.02	0.45
2005	4	6,230	31,300	11,100	5.02	1.79	0.40
^e 2006	4	5,640	23,500	6,300	4.17	1.11	0.34
2007	5	7,630	27,890	8,500	3.66	1.22	0.31
2008	5	7,350	28,250	8,100	3.46	0.88	0.32
2009	3	4,870	18,810	5,400	3.94	1.24	0.39
2010	3	5,102	15,278	3,588	4.10	0.70	0.30

^a Hunter estimates prior to 1962 were not adjusted for inactive license buyers.

^b Average Bag Per Day through 1979 expresses overall mean season bag divided by overall mean season days.

ABPD after 1979 is the mean of individual hunter ratios of season bag to season days.

^c Percent of active hunters hunting species unobtainable due to 1979 questionnaire error. Value is 1974-1978 mean.

^d Values from 1989 forward include both regular (November opening to Jan. 31) and special early (9/15-10/15) season.

^e Electronic licensing permitted random sampling of non-residents for the 1st time, improving how estimates were calculated.

Kansas Lesser Prairie Chicken Harvest, 1975 - 2010.

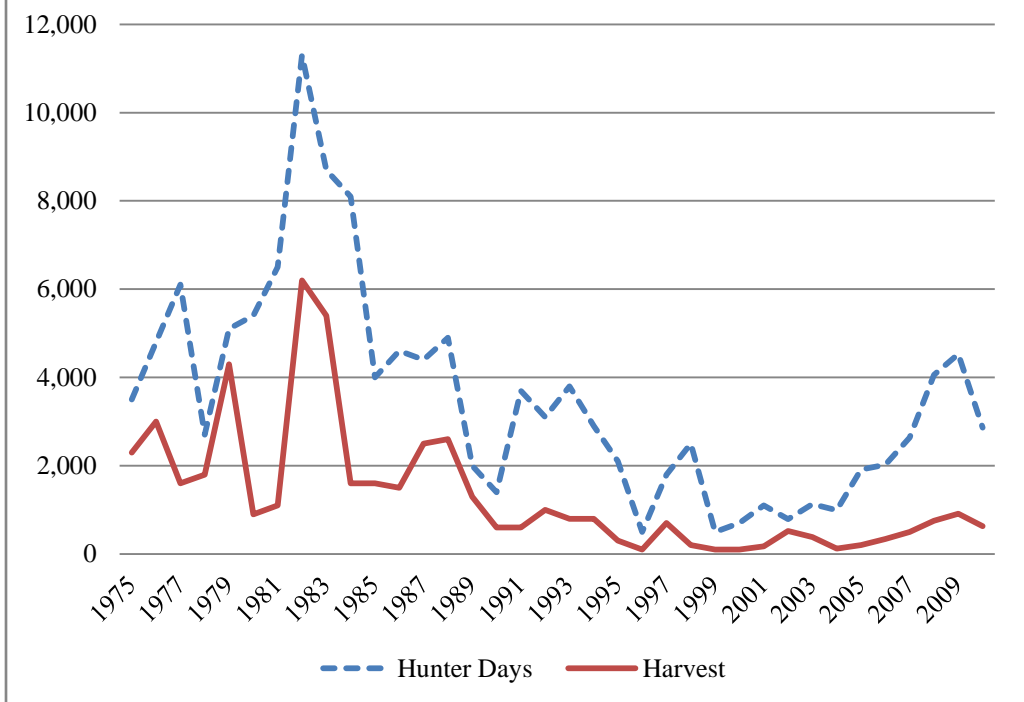


Table 5. Estimated annual **LESSER PRAIRIE CHICKEN** hunting activity in Kansas ^a.

Year	% Respondents Hunting Species	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
1975	1	1,400	3,500	2,300	2.48	1.67	0.67
1976	1	1,800	4,800	3,000	2.67	1.64	0.61
1977	1	1,900	6,100	1,600	3.19	0.89	0.28
1978	1	1,100	2,700	1,800	2.46	1.63	0.66
^b 1979	1	1,700	5,100	4,300	3.00	2.55	^c 0.85
1980	1	2,200	5,400	900	2.44	0.41	0.30
1981	1	1,900	6,500	1,100	3.42	0.58	0.19
1982	1	3,400	11,300	6,200	3.31	1.81	0.58
1983	1	2,800	8,700	5,400	3.10	1.91	0.61
1984	1	1,300	8,100	1,600	6.12	1.24	0.51
1985	1	1,100	4,000	1,600	3.71	1.50	0.34
1986	1	1,400	4,600	1,500	3.24	1.06	0.32
1987	1	1,300	4,400	2,500	3.30	1.90	0.38
1988	1	1,700	4,900	2,600	2.90	1.55	0.73
1989	0	800	2,000	1,300	2.50	1.60	0.54
1990	0	400	1,400	600	3.17	1.33	0.49
1991	0	800	3,700	600	4.36	0.73	0.32
^d 1992	1	1,100	3,100	1,000	2.80	0.80	0.51
1993	1	1,200	3,800	800	3.07	0.64	0.14
1994	0	800	2,900	800	5.00	1.00	0.27
1995	0	500	2,100	300	3.83	0.50	0.06
1996	0	200	500	100	2.00	0.00	0.00
1997	0	600	1,800	700	2.80	1.10	0.42
1998	0	300	2,500	200	7.83	0.67	0.31
1999	0	200	500	100	2.25	0.50	0.38
2000	0	300	700	100	2.20	0.40	0.30
2001	0	330	1,100	170	3.55	0.55	0.18
2002	0	300	790	520	2.25	1.50	0.68
2003	0	530	1,130	380	2.14	0.71	0.33
2004	0	250	990	120	4.00	0.50	0.50
^e 2005	0	500	1,910	200	3.80	0.40	0.40
^f 2006	0	650	2,020	340	3.09	0.52	0.23
2007	1	830	2,640	500	3.18	0.59	0.22
2008	1	720	4,060	750	5.51	1.00	0.20
2009	1	770	4,530	910	5.95	1.19	0.30
2010	1	1,226	2,863	633	3.19	0.52	0.23

^a Wide annual variation is caused by low sample size for this species.

^b Percent of active hunters hunting species unobtainable due to 1979 questionnaire error. Value is 1974-1978 mean.

^c Average Bag Per Day through 1979 expresses overall mean season bag divided by overall mean season days.

ABPD after 1979 is the mean of individual hunter ratios of season bag to season days.

^d Values from 1992-1994 include both regular (November opening to Jan. 31) and special early (9/15-10/15) season.

^e Season length reduced and with daily bag set at 1.

^f Electronic licensing permitted random sampling of non-residents for the 1st time, improving how estimates were calculated.

Kansas Cottontail Harvest, 1958 - 2010.

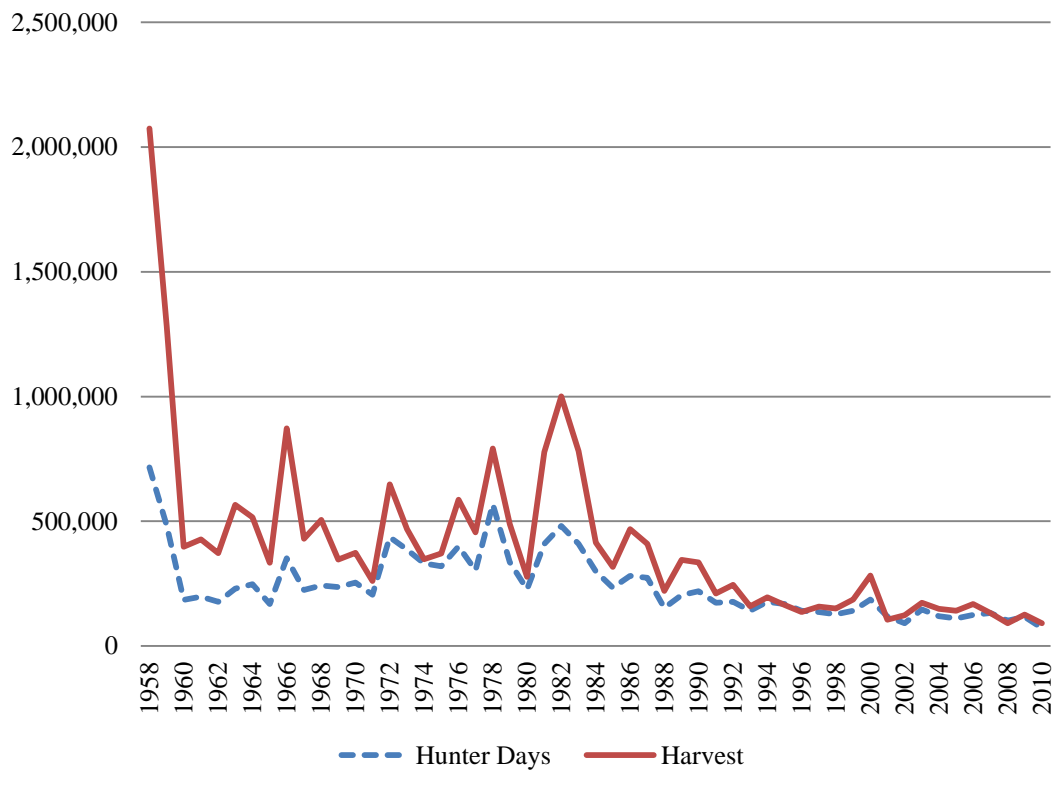


Table 6. Estimated annual **COTTONTAIL** hunting activity in Kansas.

Year	% Respondents Hunting Species	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
1958	56	129,200	716,000	2,075,000	5.54	16.06	2.90
1959	38	87,600	483,000	1,282,000	5.51	14.63	2.66
1960	19	41,800	185,000	398,000	4.43	9.53	2.15
1961	25	^a 51,800	198,000	427,000	3.83	8.24	2.15
1962	22	42,600	177,000	372,000	4.16	8.74	2.10
1963	34	60,500	230,000	566,000	3.80	9.35	2.46
1964	33	57,500	248,000	516,000	4.31	8.97	2.08
1965	24	41,700	168,000	334,000	4.04	8.00	1.98
1966	40	79,100	352,000	872,000	4.45	11.02	2.48
1967	28	57,700	225,000	430,000	3.90	7.45	^b 1.92
1968	33	64,700	243,000	506,000	3.76	7.82	2.08
1969	27	56,900	237,000	347,000	4.17	6.09	1.46
1970	29	60,300	254,000	374,000	4.21	6.21	1.48
1971	24	49,100	206,000	261,000	4.20	5.31	1.69
1972	41	86,700	436,000	648,000	5.03	7.47	1.93
1973	32	69,300	386,000	469,000	5.57	6.77	1.68
1974	32	67,100	331,000	348,000	4.94	5.36	1.45
1975	32	63,900	320,000	371,000	5.01	5.81	1.65
1976	38	76,500	399,000	587,000	5.21	7.67	1.89
1977	33	67,900	303,000	456,000	4.46	6.71	1.94
1978	41	87,400	568,000	792,000	6.50	9.07	2.21
^c 1979	35	79,700	336,000	489,000	4.22	6.13	1.96
1980	22	49,900	227,000	277,000	4.55	5.56	1.50
1981	36	84,100	410,000	778,000	4.88	9.26	2.26
1982	37	92,500	481,000	1,001,000	5.20	10.83	2.67
1983	32	77,500	410,000	781,000	5.29	10.09	2.32
1984	29	55,700	299,000	415,000	5.37	7.46	1.70
1985	24	45,000	234,000	317,000	5.20	7.04	1.71
1986	32	62,800	281,000	469,000	4.47	7.46	2.10
1987	28	55,600	274,000	410,000	4.92	7.38	2.01
1988	17	32,000	153,000	221,000	4.79	6.90	1.77
1989	24	41,900	204,000	346,000	4.86	8.25	1.87
1990	27	47,500	220,000	335,000	4.63	7.05	1.96
1991	18	33,100	174,000	211,000	5.26	6.36	1.73
1992	24	40,900	178,000	245,000	4.35	5.99	1.66
1993	17	29,500	142,000	160,000	4.81	5.42	1.53
1994	19	35,900	177,000	195,000	4.92	5.44	1.52
1995	19	34,000	168,000	165,000	4.95	4.85	1.25
1996	18	28,700	141,000	136,000	4.90	4.72	1.32
1997	16	27,200	136,000	158,000	5.01	5.82	1.58
1998	14	24,300	127,000	150,000	5.22	6.17	1.67
1999	15	27,800	141,000	187,000	5.07	6.75	1.61
2000	19	36,100	187,000	282,000	5.18	7.81	1.95
2001	13	21,200	118,000	106,000	5.56	4.98	1.21
2002	13	20,900	92,000	124,000	4.43	5.95	1.49
2003	15	25,200	147,000	174,000	5.83	6.90	1.55
2004	13	23,300	120,000	149,000	5.14	6.40	1.68
2005	12	21,700	111,000	142,000	5.13	6.56	1.57
^d 2006	13	21,400	125,000	169,000	5.85	7.87	1.56
2007	14	22,200	132,000	132,000	5.96	5.95	1.23
2008	13	17,300	102,000	92,000	5.72	5.11	1.10
2009	13	21,000	117,000	126,000	5.57	6.01	1.52
2010	12	18,432	72,014	91,287	5.34	4.95	1.29

^a Hunter estimates prior to 1962 were not adjusted for inactive license buyers.

^b Average Bag Per Day through 1967 expresses overall mean season bag divided by overall mean season days. ABPD after 1967 is the mean of individual hunter ratios of season bag to season days.

^c Percent of active hunters hunting species unobtainable due to 1979 questionnaire error. Value is 1974-1978 mean.

^d Electronic licensing permitted random sampling of non-residents for the 1st time, improving how estimates were calculated.

Kansas Squirrel Harvest, 1957 - 2010.

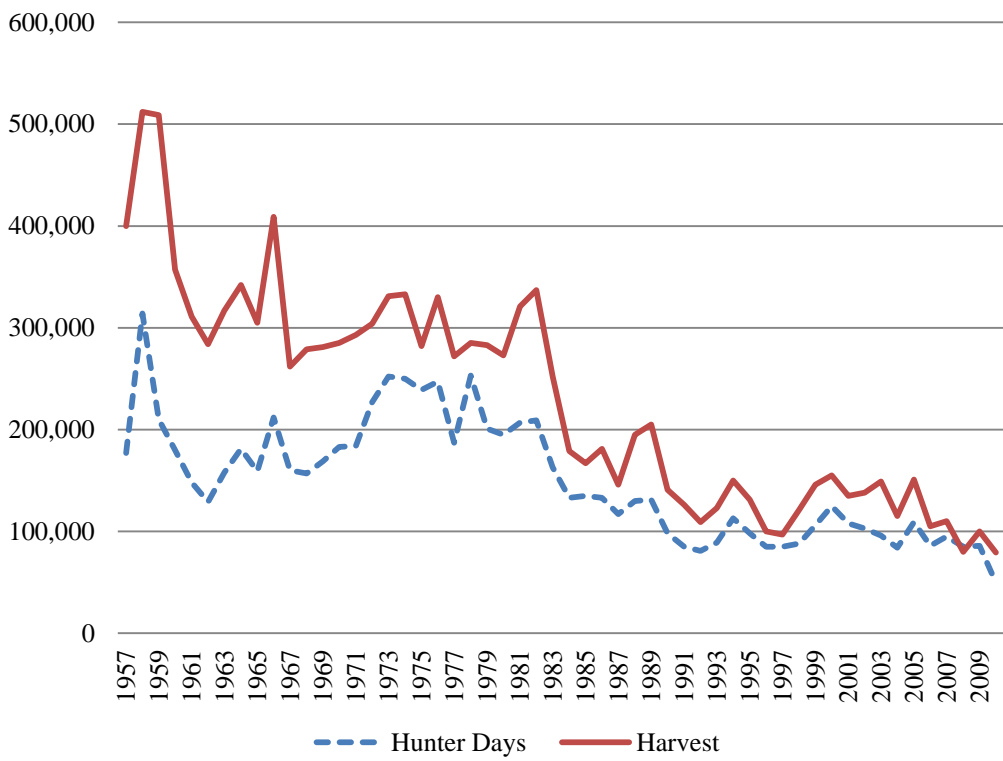


Table 7. Estimated annual **SQUIRREL** (Fox and Gray) hunting activity in Kansas.

Year	% Respondents Hunting Species	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
1957	21	39,800	177,000	400,000	4.44	10.06	2.27
1958	28	63,900	314,000	512,000	4.91	8.01	1.63
1959	22	49,500	210,000	509,000	4.24	10.29	2.43
1960	20	45,600	180,000	357,000	3.95	7.82	1.98
1961	19	^a 38,600	148,000	311,000	3.73	8.06	2.16
1962	18	34,500	129,000	284,000	3.74	8.23	2.20
1963	23	41,000	158,000	317,000	3.86	7.72	2.00
1964	25	44,100	181,000	342,000	4.10	7.75	1.89
1965	22	38,400	159,000	305,000	4.14	7.95	1.92
1966	23	46,400	212,000	409,000	4.57	8.82	1.93
1967	21	42,400	160,000	262,000	3.77	6.19	^b 1.64
1968	21	41,100	157,000	279,000	3.81	6.78	1.52
1969	21	44,000	169,000	281,000	3.85	6.39	1.66
1970	22	45,500	183,000	285,000	4.03	6.27	1.55
1971	21	44,400	184,000	293,000	4.14	6.60	1.74
1972	23	49,400	227,000	304,000	4.59	6.16	1.60
1973	23	49,400	252,000	331,000	5.10	6.70	1.64
1974	25	52,300	250,000	333,000	4.78	6.56	1.58
1975	24	47,600	239,000	282,000	5.03	5.93	1.55
1976	24	49,200	247,000	330,000	5.02	6.70	1.62
1977	21	43,400	187,000	272,000	4.32	6.27	1.63
1978	20	42,000	253,000	285,000	6.02	6.74	1.65
^c 1979	23	51,700	201,000	283,000	3.88	5.48	1.72
1980	17	39,000	195,000	273,000	4.99	6.99	1.54
1981	18	42,800	207,000	321,000	4.84	7.50	1.64
1982	16	40,100	209,000	337,000	5.21	8.40	1.81
1983	14	32,800	163,000	252,000	4.97	7.68	1.68
1984	15	28,200	133,000	179,000	4.73	6.34	1.51
1985	16	28,800	135,000	167,000	4.67	5.79	1.41
1986	13	26,000	133,000	181,000	5.10	6.98	1.40
1987	13	24,600	117,000	146,000	4.76	5.92	1.55
1988	13	26,300	130,000	195,000	4.93	7.39	1.71
1989	16	29,000	131,000	205,000	4.52	7.09	1.64
1990	13	23,900	98,000	141,000	4.10	5.90	1.57
1991	11	20,300	85,000	126,000	4.20	6.21	1.57
1992	10	16,900	81,000	109,000	4.81	6.45	1.48
1993	10	17,800	89,000	123,000	5.01	6.90	1.42
1994	11	20,300	113,000	150,000	5.55	7.38	1.48
1995	11	18,900	98,000	131,000	5.16	6.91	1.52
1996	10	15,900	85,000	100,000	5.36	6.28	1.48
^d 1997	11	17,600	85,000	97,000	4.87	5.53	1.31
1998	10	17,000	88,000	121,000	5.15	7.12	1.45
1999	11	19,800	106,000	146,000	5.36	7.39	1.61
2000	12	21,700	125,000	155,000	5.78	7.13	1.47
2001	11	17,800	108,000	135,000	6.09	7.58	1.54
2002	13	20,700	103,000	138,000	5.00	6.67	1.53
2003	10	17,000	96,000	149,000	5.63	8.72	1.60
2004	10	16,600	84,000	115,000	5.08	6.92	1.41
2005	11	19,300	109,000	151,000	5.65	7.82	1.46
^e 2006	8	13,600	86,000	105,000	6.28	7.72	1.45
2007	10	16,500	95,000	110,000	5.75	6.65	1.37
2008	11	15,000	85,000	80,000	5.51	5.11	1.19
2009	8	14,300	86,000	100,000	5.99	7.00	1.31
2010	8	12,301	49,897	79,435	5.55	6.46	1.37

^a Hunter estimates prior to 1962 were not adjusted for inactive license buyers.

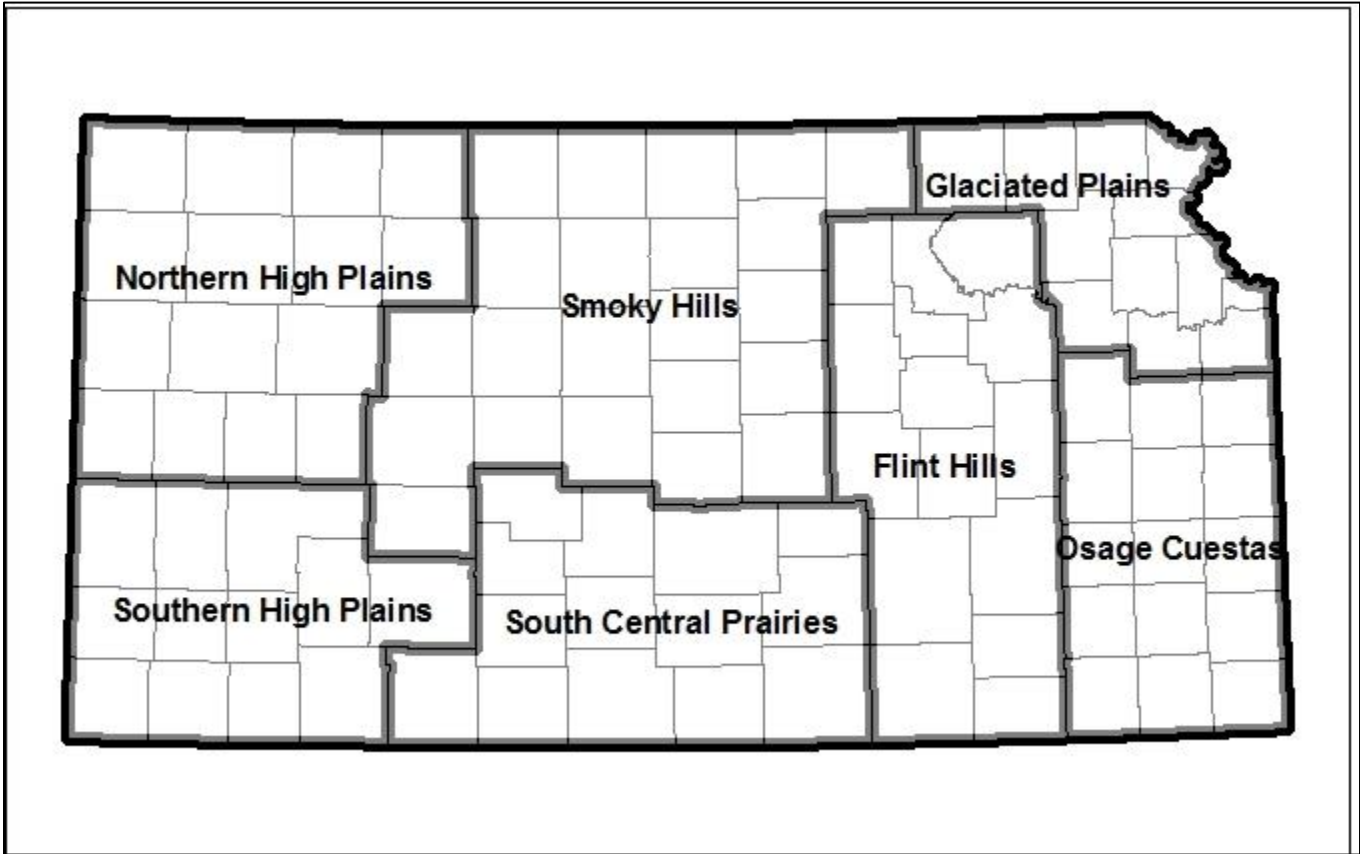
^b Average Bag Per Day through 1967 expresses overall mean season bag divided by overall mean season days.

ABPD after 1967 is the mean of individual hunter ratios of season bag to season days.

^c Percent of active hunters hunting species unobtainable due to 1979 questionnaire error. Value is 1974-1978 mean.

^d Season was extended 2 months to run from June 1 through the end of February.

^e Electronic licensing permitted random sampling of non-residents for the 1st time, improving how estimates were calculated.



Kansas small game regions for all species (revised for 2010-2011).

Small Game Hunter Activity Tables 2010-2011

Table 8. All hunter activity for dove, 2010-2011 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	^a Confidence Interval (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	1,129	44,656	148,453	896,287	60,185	4.55	20.07	4.69
Northern High Plains	93	3,679	12,233	88,482	17,433	4.55	24.05	5.66
Southern High Plains	85	3,362	10,682	75,567	15,521	4.35	22.48	5.10
Smoky Hills	288	11,392	40,398	293,321	33,283	4.85	25.75	5.87
South-Central Prairies	202	7,990	24,887	144,457	23,534	4.26	18.08	4.50
Flint Hills	155	6,131	21,575	115,893	26,646	4.81	18.90	3.85
Glaciated Plains	129	5,102	16,803	69,813	15,000	4.50	13.68	3.65
Osage Cuestas	156	6,170	19,203	90,974	16,940	4.26	14.74	3.58
County Unknown	21	831	2,581	18,897	8,275	4.25	22.75	5.49
<u>Residents</u>								
State	1,001	45,168	166,122	899,080	65,832	4.75	19.91	4.42
Northern High Plains	67	3,023	12,270	78,289	18,115	5.24	25.90	5.28
Southern High Plains	68	3,068	11,318	72,909	15,436	4.76	23.76	5.00
Smoky Hills	248	11,191	44,434	282,845	36,036	5.13	25.28	5.45
South-Central Prairies	190	8,573	28,863	155,279	26,699	4.35	18.11	4.38
Flint Hills	148	6,678	25,518	127,654	30,222	4.93	19.11	3.77
Glaciated Plains	121	5,460	19,436	73,371	16,936	4.60	13.44	3.46
Osage Cuestas	144	6,498	22,023	97,196	18,787	4.38	14.96	3.58
County Unknown	15	677	2,032	10,322	5,738	3.88	15.25	3.76
<u>Non-Residents</u>								
State	128	3,984	7,869	85,159	13,450	2.97	21.37	6.76
Northern High Plains	26	809	1,491	15,626	5,523	2.77	19.31	6.63
Southern High Plains	17	529	953	9,214	5,968	2.71	17.41	5.46
Smoky Hills	40	1,245	2,610	35,704	8,287	3.15	28.68	8.51
South-Central Prairies	12	374	725	6,568	2,145	2.92	17.58	6.44
Flint Hills	7	218	331	3,144	2,330	2.29	14.43	5.50
Glaciated Plains	8	249	518	4,327	1,683	3.13	17.38	6.48
Osage Cuestas	12	374	704	4,545	3,214	2.83	12.17	3.58
County Unknown	6	187	621	7,051	3,363	5.00	37.75	8.95

*Resident and Non-Resident data does not always sum for All Hunters due to extrapolation of survey data from respondents to the entire licensed hunter population

^a Confidence Intervals provide a range of values above and below the estimated total harvest where there is 95% probability that the true total harvest occurred

Table 9. All hunter activity for bobwhite quail, 2010-2011 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	^a Confidence Interval (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	1,957	77,407	295,405	561,430	38,907	5.22	7.25	1.48
Northern High Plains	191	7,555	30,381	52,605	10,659	5.50	6.96	1.35
Southern High Plains	182	7,199	20,592	38,407	7,981	3.91	5.34	1.57
Smoky Hills	687	27,173	104,165	182,189	21,385	5.24	6.70	1.33
South-Central Prairies	384	15,189	62,863	123,828	20,038	5.66	8.15	1.59
Flint Hills	256	10,126	36,961	79,656	14,471	4.99	7.87	1.66
Glaciated Plains	111	4,390	14,374	17,483	4,861	4.48	3.98	0.90
Osage Cuestas	112	4,430	21,244	57,989	13,626	6.56	13.09	2.09
County Unknown	34	1,345	4,769	9,481	4,705	4.85	7.05	2.12
<u>Residents</u>								
State	1,269	57,261	249,096	429,850	37,239	5.62	7.51	1.41
Northern High Plains	83	3,745	16,989	33,978	10,286	5.86	9.07	1.62
Southern High Plains	87	3,926	13,074	25,765	7,843	4.30	6.56	1.72
Smoky Hills	429	19,358	86,326	134,372	19,053	5.76	6.94	1.28
South-Central Prairies	252	11,371	53,313	89,422	18,294	6.05	7.86	1.45
Flint Hills	209	9,431	36,774	70,753	15,318	5.03	7.50	1.55
Glaciated Plains	92	4,151	14,927	15,568	5,103	4.64	3.75	0.77
Osage Cuestas	95	4,287	22,928	53,265	14,509	6.90	12.43	1.82
County Unknown	22	993	5,383	6,408	4,193	7.00	6.45	1.25
<u>Non-Residents</u>								
State	688	21,416	63,974	145,315	16,651	4.49	6.79	1.59
Northern High Plains	108	3,362	11,686	17,909	4,192	5.22	5.33	1.15
Southern High Plains	95	2,957	7,000	12,451	3,076	3.56	4.21	1.42
Smoky Hills	258	8,031	23,453	50,686	10,519	4.39	6.31	1.41
South-Central Prairies	132	4,109	13,417	35,779	9,483	4.91	8.71	1.87
Flint Hills	47	1,463	4,677	13,931	4,194	4.80	9.52	2.17
Glaciated Plains	19	591	1,450	3,019	1,502	3.68	5.11	1.54
Osage Cuestas	17	529	1,636	8,872	3,840	4.65	16.76	3.59
County Unknown	12	374	552	2,905	2,269	2.22	7.78	3.19

*Resident and Non-Resident data does not always sum for All Hunters due to extrapolation of survey data from respondents to the entire licensed hunter population

^a Confidence Intervals provide a range of values above and below the estimated total harvest where there is 95% probability that the true total harvest occurred

Table 10. All hunter activity for pheasant, 2010-2011 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	^a Confidence Interval (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	3,129	123,764	472,494	892,627	42,930	5.22	7.21	1.46
Northern High Plains	625	24,721	103,563	230,744	21,284	5.73	9.33	1.73
Southern High Plains	499	19,737	73,006	174,433	20,073	5.06	8.84	1.83
Smoky Hills	1,161	45,922	172,703	300,109	22,528	5.14	6.54	1.34
South-Central Prairies	501	19,816	79,105	137,835	18,915	5.46	6.96	1.31
Flint Hills	170	6,724	19,957	19,615	4,266	4.06	2.92	0.92
Glaciated Plains	81	3,204	10,717	7,529	2,335	4.58	2.35	0.66
Osage Cuestas	12	475	659	1,187	422	1.90	2.50	1.85
County Unknown	80	3,164	12,764	20,364	5,484	5.52	6.44	1.50
<u>Residents</u>								
State	1,851	83,523	378,534	611,480	40,658	5.85	7.32	1.32
Northern High Plains	302	13,627	65,884	132,020	17,647	6.24	9.69	1.65
Southern High Plains	233	10,514	52,501	107,743	19,451	6.45	10.25	1.65
Smoky Hills	738	33,301	149,225	228,585	22,622	5.78	6.86	1.26
South-Central Prairies	346	15,613	71,792	108,788	18,428	5.94	6.97	1.24
Flint Hills	129	5,821	19,376	17,235	4,584	4.30	2.96	0.86
Glaciated Plains	64	2,888	10,369	5,547	2,133	4.63	1.92	0.58
Osage Cuestas	9	406	629	1,015	451	2.00	2.50	1.81
County Unknown	30	1,354	9,347	10,653	4,264	8.91	7.87	1.30
<u>Non-Residents</u>								
State	1,278	39,782	114,036	280,655	18,839	4.31	7.05	1.66
Northern High Plains	323	10,054	35,152	90,552	11,524	5.25	9.01	1.80
Southern High Plains	266	8,280	21,132	62,967	8,183	3.84	7.60	1.99
Smoky Hills	423	13,167	35,375	78,567	8,430	4.04	5.97	1.49
South-Central Prairies	155	4,825	14,087	33,425	7,759	4.39	6.93	1.48
Flint Hills	41	1,276	2,817	3,549	1,154	3.32	2.78	1.11
Glaciated Plains	17	529	1,533	2,086	1,024	4.35	3.94	0.94
Osage Cuestas	3	93	93	233	92	1.50	2.50	2.00
County Unknown	50	1,556	3,526	8,700	3,145	3.41	5.59	1.62

*Resident and Non-Resident data does not always sum for All Hunters due to extrapolation of survey data from respondents to the entire licensed hunter population

^a Confidence Intervals provide a range of values above and below the estimated total harvest where there is 95% probability that the true total harvest occurred

Table 11. All hunter activity for Greater Prairie Chicken, 2010-2011 regular season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	^a Confidence Interval (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	129	5,102	15,278	3,588	1,176	4.10	0.70	0.30
Northern High Plains	27	1,068	5,640	554	259	7.22	0.52	0.29
Southern High Plains	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Smoky Hills	61	2,413	5,792	1,345	580	3.28	0.56	0.33
South-Central Prairies	1	40	145	0	N/A	5.00	0.00	0.00
Flint Hills	30	1,187	2,663	1,345	931	3.07	1.13	0.27
Glaciated Plains	3	119	260	119	134	3.00	1.00	0.43
Osage Cuestas	2	79	116	79	155	2.00	1.00	0.50
County Unknown	5	198	615	148	291	4.25	0.75	0.13
<u>Residents</u>								
State	75	3,384	9,431	3,201	1,256	3.60	0.95	0.38
Northern High Plains	10	451	2,377	316	189	6.80	0.70	0.42
Southern High Plains	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Smoky Hills	35	1,579	3,634	1,128	603	2.97	0.71	0.43
South-Central Prairies	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Flint Hills	23	1,038	2,595	1,444	1,029	3.23	1.39	0.31
Glaciated Plains	3	135	315	135	153	3.00	1.00	0.43
Osage Cuestas	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
County Unknown	4	180	466	180	354	3.33	1.00	0.17
<u>Non-Residents</u>								
State	54	1,681	5,323	623	279	4.76	0.37	0.20
Northern High Plains	17	529	2,630	218	156	7.47	0.41	0.21
Southern High Plains	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Smoky Hills	26	809	1,988	280	175	3.69	0.35	0.20
South-Central Prairies	1	31	104	0	N/A	5.00	0.00	0.00
Flint Hills	7	218	373	62	122	2.57	0.29	0.14
Glaciated Plains	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Osage Cuestas	2	62	83	62	122	2.00	1.00	0.50
County Unknown	1	31	145	0	N/A	7.00	0.00	0.00

*Resident and Non-Resident data does not always sum for All Hunters due to extrapolation of survey data from respondents to the entire licensed hunter population

^a Confidence Intervals provide a range of values above and below the estimated total harvest where there is 95% probability that the true total harvest occurred

Table 12. All hunter activity for Greater Prairie Chicken, 2010-2011 early season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	^a Confidence Interval (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	24	949	1,504	1,108	678	2.17	1.17	0.56
Northern High Plains	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Southern High Plains	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Smoky Hills	3	119	289	356	585	3.33	3.00	0.60
South-Central Prairies	1	40	58	40	N/A	2.00	1.00	0.50
Flint Hills	4	158	318	198	294	2.75	1.25	0.38
Glaciated Plains	16	633	839	514	282	1.81	0.81	0.61
Osage Cuestas	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
County Unknown	16	633	839	514	282	1.81	0.81	0.61
<u>Residents</u>								
State	21	948	1,608	1,083	761	2.19	1.14	0.51
<u>Non-Residents</u>								
State	3	93	124	125	122	2.00	1.33	0.90

*Resident and Non-Resident data does not always sum for All Hunters due to extrapolation of survey data from respondents to the entire licensed hunter population

^a Confidence Intervals provide a range of values above and below the estimated total harvest where there is 95% probability that the true total harvest occurred

Table 13. All hunter activity for Lesser Prairie Chicken, 2010-2011 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	^a Confidence Interval (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	31	1,226	2,863	633	400	3.19	0.52	0.23
<u>Residents</u>								
State	16	722	1,678	451	339	3.00	0.63	0.27
<u>Non-Residents</u>								
State	15	467	1,056	187	215	3.40	0.40	0.19

*Resident and Non-Resident data does not always sum for All Hunters due to extrapolation of survey data from respondents to the entire licensed hunter population

^a Confidence Intervals provide a range of values above and below the estimated total harvest where there is 95% probability that the true total harvest occurred

Table 14. All hunter activity for cottontail, 2010-2011 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	^a Confidence Interval (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	466	18,432	72,014	91,287	12,002	5.34	4.95	1.29
Northern High Plains	28	1,108	4,598	4,984	2,161	5.68	4.50	0.93
Southern High Plains	49	1,938	9,979	12,961	4,424	7.04	6.69	1.43
Smoky Hills	108	4,272	14,865	21,992	7,571	4.76	5.15	1.28
South-Central Prairies	49	1,938	4,714	6,882	2,654	3.33	3.55	1.26
Flint Hills	74	2,927	11,510	14,793	4,298	5.38	5.05	1.26
Glaciated Plains	54	2,136	12,349	11,036	3,673	7.91	5.17	1.14
Osage Cuestas	98	3,876	13,207	17,601	4,771	4.66	4.54	1.45
County Unknown	6	237	798	1,092	744	4.60	4.60	1.40
<u>Residents</u>								
State	396	17,869	76,470	90,251	13,089	5.52	5.05	1.27
Northern High Plains	19	857	3,845	4,783	2,339	5.79	5.58	0.99
Southern High Plains	34	1,534	9,580	11,251	4,304	8.06	7.33	1.33
Smoky Hills	79	3,565	14,647	20,305	8,425	5.30	5.70	1.30
South-Central Prairies	46	2,076	5,174	7,581	3,017	3.22	3.65	1.32
Flint Hills	72	3,249	13,738	16,651	4,893	5.46	5.13	1.26
Glaciated Plains	52	2,346	14,612	11,416	3,825	8.04	4.87	1.08
Osage Cuestas	90	4,061	14,458	17,553	5,260	4.60	4.32	1.38
County Unknown	4	180	373	782	118	2.67	4.33	1.67
<u>Non-Residents</u>								
State	70	2,179	6,275	9,587	2,788	4.33	4.40	1.37
Northern High Plains	9	280	1,015	623	271	5.44	2.22	0.80
Southern High Plains	15	467	1,491	2,459	1,844	4.80	5.27	1.64
Smoky Hills	29	903	1,968	3,300	1,240	3.28	3.66	1.21
South-Central Prairies	3	93	311	187	106	5.00	2.00	0.47
Flint Hills	2	62	104	156	61	2.50	2.50	1.00
Glaciated Plains	2	62	186	809	1,342	4.50	13.00	2.65
Osage Cuestas	8	249	891	1,743	918	5.38	7.00	2.26
County Unknown	2	62	311	311	610	7.50	5.00	1.00

*Resident and Non-Resident data does not always sum for All Hunters due to extrapolation of survey data from respondents to the entire licensed hunter population

^a Confidence Intervals provide a range of values above and below the estimated total harvest where there is 95% probability that the true total harvest occurred

Table 15. All hunter activity for jackrabbit, 2010-2011 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	^a Confidence Interval (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	75	2,967	10,288	14,071	4,118	4.74	4.74	1.20
Northern High Plains	26	1,028	3,297	4,509	2,200	4.38	4.38	1.04
Southern High Plains	29	1,147	4,945	7,990	3,091	5.90	6.97	1.71
Smoky Hills	13	514	1,041	870	330	2.77	1.69	0.72
South-Central Prairies	1	40	87	0	N/A	3.00	0.00	0.00
Flint Hills	1	40	289	79	N/A	10.00	2.00	0.20
Glaciated Plains	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Osage Cuestas	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
County Unknown	5	198	615	544	941	4.25	2.75	0.58
<u>Residents</u>								
State	55	2,482	9,054	13,582	4,401	4.71	5.47	1.34
Northern High Plains	22	993	2,936	4,828	2,453	3.82	4.86	1.12
Southern High Plains	19	857	4,579	7,897	3,104	6.89	9.21	2.16
Smoky Hills	10	451	874	722	354	2.50	1.60	0.76
South-Central Prairies	1	45	105	0	N/A	3.00	0.00	0.00
Flint Hills	1	45	350	90	N/A	10.00	2.00	0.20
Glaciated Plains	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Osage Cuestas	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
County Unknown	2	90	210	45	88	3.00	0.50	0.15
<u>Non-Residents</u>								
State	20	623	2,006	1,638	846	4.84	2.63	0.79
Northern High Plains	4	125	621	218	183	7.50	1.75	0.63
Southern High Plains	10	311	828	840	610	4.00	2.70	0.87
Smoky Hills	3	93	228	187	106	3.67	2.00	0.60
South-Central Prairies	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Flint Hills	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Glaciated Plains	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Osage Cuestas	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
County Unknown	3	93	342	467	915	5.50	5.00	1.00

*Resident and Non-Resident data does not always sum for All Hunters due to extrapolation of survey data from respondents to the entire licensed hunter population

^a Confidence Intervals provide a range of values above and below the estimated total harvest where there is 95% probability that the true total harvest occurred

Table 16. All hunter activity for squirrel, 2010-2011 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	^a Confidence Interval (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	311	12,301	49,897	79,435	10,716	5.55	6.46	1.37
Northern High Plains	3	119	174	356	269	2.00	3.00	1.40
Southern High Plains	2	79	318	672	388	5.50	8.50	3.55
Smoky Hills	24	949	3,123	4,390	2,281	4.50	4.63	1.33
South-Central Prairies	12	475	1,909	2,452	2,575	5.50	5.17	0.99
Flint Hills	61	2,413	9,544	14,081	3,966	5.41	5.84	1.19
Glaciated Plains	86	3,402	14,952	25,512	6,484	6.01	7.50	1.41
Osage Cuestas	119	4,707	19,314	30,977	6,541	5.61	6.58	1.45
County Unknown	4	158	347	949	N/A	3.00	6.00	2.00
<u>Residents</u>								
State	294	13,266	57,503	84,172	11,724	5.60	6.34	1.35
Northern High Plains	3	135	210	406	306	2.00	3.00	1.40
Southern High Plains	2	90	385	767	442	5.50	8.50	3.55
Smoky Hills	21	948	3,461	3,790	2,462	4.71	4.00	1.10
South-Central Prairies	12	541	2,307	2,798	2,938	5.50	5.17	0.99
Flint Hills	59	2,662	11,361	15,838	4,505	5.51	5.95	1.19
Glaciated Plains	82	3,700	17,024	26,984	6,946	5.94	7.29	1.41
Osage Cuestas	112	5,054	22,270	32,758	7,217	5.69	6.48	1.43
County Unknown	3	135	315	812	N/A	3.00	6.00	2.00
<u>Non-Residents</u>								
State	17	529	1,650	4,498	2,438	4.69	8.50	1.80
Northern High Plains	3	93	186	840	381	3.00	9.00	3.00
Southern High Plains	2	62	104	156	61	2.50	2.50	1.10
Smoky Hills	4	125	621	1,463	1,923	7.50	11.75	1.50
South-Central Prairies	7	218	642	1,774	1,381	4.43	8.14	1.66
Flint Hills	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Glaciated Plains	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Osage Cuestas	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
County Unknown	1	31	N/A	N/A	N/A	N/A	N/A	N/A

*Resident and Non-Resident data does not always sum for All Hunters due to extrapolation of survey data from respondents to the entire licensed hunter population

^a Confidence Intervals provide a range of values above and below the estimated total harvest where there is 95% probability that the true total harvest occurred

Table 17. Mean number of Upland Game hunting days and the proportion that occurred on Public Land.

Year	Sample ^a Active Hunters	Mean No. Upland Days	Mean No. Public Upland Days	Percent on Public Land
1980	3,269	9.58	1.75	18.22
1981	3,058	11.13	1.74	15.63
1982	3,047	11.44	1.71	14.95
1983	2,735	10.16	1.69	16.64
1984	2,429	8.87	1.34	15.07
1985	2,386	9.79	1.52	15.49
1986	2,333	10.96	1.49	13.58
1987	2,937	10.16	1.38	13.55
1988	2,518	10.31	1.50	14.60
1989	2,240	10.58	1.44	13.63
1990	2,449	11.49	1.59	13.85
1991	2,401	10.94	1.41	12.93
1992	2,200	9.89	1.43	14.43
1993	1,945	9.58	1.24	12.99
1994	1,983	10.71	1.29	12.04
1995	2,007	9.04	^b 1.34	14.83
1996	1,971	9.24	1.58	17.10
1997	2,615	9.62	1.61	16.77
1998	3,292	9.49	1.51	15.91
1999	3,430	9.46	1.99	21.04
2000	2,891	9.23	2.29	24.81
2001	2,449	7.46	1.76	23.59
2002	1,823	8.48	2.21	26.06
2003	2,230	8.23	1.84	22.36
2004	2,116	8.15	1.97	24.17
2005	1,743	7.21	1.94	26.92
2006	^c 2,383	7.49	1.73	23.10
2007	3,322	8.23	1.85	22.53
2008	2,930	6.77	1.49	22.00
2009	4,509	6.93	1.52	21.92
2010	4,156	7.21	1.63	22.62

^a Hunters reporting some small game activity. Values from 1980-2005 are for Resident hunters only.

^b From the 1995 start of the statewide Walk-In-Hunting Area (WIHA) program, the question indicated hunters should not include WIHA as public land. However, inclusion of WIHA does occur to an unknown degree.

^c Electronic licensing permitted random sampling of Non-Residents for the 1st time. Values after 2005 are weighted means of both Resident and Non-Resident hunters.

Table 18. Age of non-resident respondents to 2010 Small Game Harvest Survey^a.

Age	Number	Proportion	Age	Number	Proportion
10	1	0.04	49	63	2.79
11	5	0.22	50	59	2.61
12	11	0.49	51	68	3.01
13	10	0.44	52	67	2.96
14	10	0.44	53	57	2.52
15	10	0.44	54	59	2.61
16	12	0.53	55	61	2.70
17	7	0.31	56	49	2.17
18	12	0.53	57	64	2.83
19	7	0.31	58	66	2.92
20	4	0.18	59	52	2.30
21	4	0.18	60	69	3.05
22	6	0.27	61	49	2.17
23	10	0.44	62	48	2.12
24	9	0.40	63	61	2.70
25	20	0.88	64	64	2.83
26	15	0.66	65	51	2.25
27	15	0.66	66	53	2.34
28	14	0.62	67	38	1.68
29	20	0.88	68	49	2.17
30	29	1.28	69	42	1.86
31	23	1.02	70	31	1.37
32	12	0.53	71	31	1.37
33	18	0.80	72	20	0.88
34	36	1.59	73	19	0.84
35	29	1.28	74	15	0.66
36	32	1.41	75	18	0.80
37	46	2.03	76	11	0.49
38	39	1.72	77	5	0.22
39	35	1.55	78	3	0.13
40	27	1.19	79	6	0.27
41	43	1.90	80	3	0.13
42	46	2.03	81	7	0.31
43	41	1.81	82	1	0.04
44	55	2.43	83	2	0.09
45	41	1.81	84	3	0.13
46	53	2.34	85	0	0.00
47	45	1.99	86	2	0.09
48	43	1.90			

^a Hunters under 16 and over 64 are not required to purchase hunting licenses, so are not generally sampled

Table 19. County of residence of resident respondents to 2010 Small Game Harvest Survey.

County	Number	Percent	County	Number	Percent	County	Number	Percent
Sedgwick	397	11.91	Cloud	23	0.69	Pawnee	12	0.36
Johnson	371	11.13	Phillips	23	0.69	Sherman	12	0.36
Shawnee	164	4.92	Republic	23	0.69	Stevens	12	0.36
Butler	107	3.21	Rice	23	0.69	Brown	11	0.33
Saline	84	2.52	Marion	22	0.66	Coffey	11	0.33
Leavenworth	78	2.34	Mitchell	21	0.63	Edwards	11	0.33
Douglas	73	2.19	Russell	21	0.63	Harper	11	0.33
Reno	73	2.19	Doniphan	20	0.60	Rush	11	0.33
Ellis	69	2.07	Linn	20	0.60	Barber	10	0.30
Miami	63	1.89	Seward	20	0.60	Decatur	10	0.30
Mcperson	61	1.83	Thomas	20	0.60	Gove	10	0.30
Riley	60	1.80	Allen	18	0.54	Jewell	10	0.30
Barton	55	1.65	Ottawa	18	0.54	Kiowa	10	0.30
Ford	51	1.53	Wilson	18	0.54	Lincoln	9	0.27
Montgomery	51	1.53	Ness	17	0.51	Hodgeman	8	0.24
Dickinson	50	1.50	Scott	17	0.51	Trego	8	0.24
Wyandotte	50	1.50	Smith	17	0.51	Wallace	8	0.24
Franklin	46	1.38	Jackson	16	0.48	Graham	7	0.21
Crawford	44	1.32	Osborne	16	0.48	Meade	7	0.21
Lyon	44	1.32	Rawlins	16	0.48	Stafford	7	0.21
Cherokee	42	1.26	Washington	16	0.48	Wichita	7	0.21
Pottawatomie	41	1.23	Atchison	15	0.45	Chautauqua	6	0.18
Harvey	39	1.17	Bourbon	15	0.45	Clark	6	0.18
Sumner	38	1.14	Ellsworth	15	0.45	Elk	6	0.18
Osage	35	1.05	Kingman	15	0.45	Lane	6	0.18
Cowley	34	1.02	Greenwood	14	0.42	Woodson	6	0.18
Jefferson	34	1.02	Clay	13	0.39	Logan	5	0.15
Finney	31	0.93	Grant	13	0.39	Morton	5	0.15
Nemaha	30	0.90	Gray	13	0.39	Sheridan	5	0.15
Neosho	30	0.90	Haskell	13	0.39	Chase	4	0.12
Labette	28	0.84	Morris	13	0.39	Comanche	4	0.12
Marshall	28	0.84	Norton	13	0.39	Hamilton	4	0.12
Pratt	28	0.84	Rooks	13	0.39	Greeley	3	0.09
Geary	24	0.72	Anderson	12	0.36	Stanton	1	0.03
Wabaunsee	24	0.72	Cheyenne	12	0.36	Kearny	0	0.00

Table 20. Number and percent of non-resident respondents by state of residence 2010-2011.

State	Number	Percent	State	Number	Percent
Colorado	391	17.29	Kentucky	26	1.15
Missouri	269	11.89	Virginia	20	0.88
Texas	249	11.01	South Carolina	18	0.80
Oklahoma	203	8.97	Maryland	14	0.62
Arkansas	166	7.34	Alaska	12	0.53
Louisiana	67	2.96	Utah	12	0.53
Michigan	59	2.61	Wyoming	11	0.49
Minnesota	52	2.30	Oregon	10	0.44
Pennsylvania	46	2.03	New Jersey	9	0.40
Mississippi	45	1.99	West Virginia	9	0.40
Florida	43	1.90	South Dakota	8	0.35
Nebraska	43	1.90	Washington	7	0.31
Iowa	41	1.81	Idaho	6	0.27
Illinois	39	1.72	Vermont	6	0.27
Tennessee	39	1.72	Massachusetts	5	0.22
Wisconsin	37	1.64	Connecticut	4	0.18
Indiana	36	1.59	North Dakota	4	0.18
Ohio	34	1.50	Nevada	3	0.13
Arizona	33	1.46	New Hampshire	3	0.13
Alabama	31	1.37	Hawaii	2	0.09
North Carolina	31	1.37	Maine	2	0.09
New Mexico	28	1.24	Montana	2	0.09
New York	28	1.24	Delaware	0	0.00
California	27	1.19	Rhode Island	0	0.00
Georgia	27	1.19			

Table 21. Regional breakdown of hunting activity as indicated by sample sizes for the 2010-2011 season. State values in () indicate percent of the total active respondents. Regional values in () indicate percent of the state total for the species.

Region	Doves	Bobwhite	Pheasant	Greater Prairie Chicken (Regular)	Lesser Prairie Chicken	Cottontail	Jackrabbit	Squirrel
<u>All Hunters (Resident and Non-Resident)</u>								
State	1,129 (30)	1,957 (51)	3,129 (82)	129 (3)	31 (1)	466 (12)	75 (2)	311 (8)
Flint Hills	155 (14)	256 (13)	170 (5)	30 (23)		74 (16)	1 (1)	61 (20)
Glaciated Plains	129 (11)	111 (6)	81 (3)	3 (2)		54 (12)		86 (28)
Northern High Plains	93 (8)	191 (10)	625 (20)	27 (21)	1 (3)	28 (6)	26 (35)	3 (1)
Osage Cuestas	156 (14)	112 (6)	12 (0)	2 (2)		98 (21)		119 (38)
Smoky Hills	288 (26)	687 (35)	1161 (37)	61 (47)	12 (39)	108 (23)	13 (17)	24 (8)
South-Central Prairies	202 (18)	384 (20)	501 (16)	1 (1)	6 (19)	49 (11)	1 (1)	12 (4)
Southern High Plains	85 (8)	182 (9)	499 (16)		12 (39)	49 (11)	29 (39)	2 (1)
Unknown County	21 (2)	34 (2)	80 (3)	5 (4)		6 (1)	5 (7)	4 (1)
<u>Residents</u>								
State	1,001 (41)	1,269 (52)	1,851 (76)	75 (3)	16 (1)	396 (16)	55 (2)	294 (12)
Flint Hills	148 (15)	209 (16)	129 (7)	23 (31)		72 (18)	1 (2)	59 (20)
Glaciated Plains	121 (12)	92 (7)	64 (3)	3 (4)		52 (13)		82 (28)
Northern High Plains	67 (7)	83 (7)	302 (16)	10 (13)	1 (6)	19 (5)	22 (40)	3 (1)
Osage Cuestas	144 (14)	95 (7)	9 (0)			90 (23)		112 (38)
Smoky Hills	248 (25)	429 (34)	738 (40)	35 (47)	7 (44)	79 (20)	10 (18)	21 (7)
South-Central Prairies	190 (19)	252 (20)	346 (19)		4 (25)	46 (12)	1 (2)	12 (4)
Southern High Plains	68 (7)	87 (7)	233 (13)		4 (25)	34 (9)	19 (35)	2 (1)
Unknown County	15 (1)	22 (2)	30 (2)	4 (5)		4 (1)	2 (4)	3 (1)
<u>Non-Residents</u>								
State	128 (9)	688 (50)	1,278 (93)	54 (4)	15 (1)	70 (5)	20 (1)	17 (1)
Flint Hills	7 (5)	47 (7)	41 (3)	7 (13)		2 (3)		2 (12)
Glaciated Plains	8 (6)	19 (3)	17 (1)			2 (3)		4 (24)
Northern High Plains	26 (20)	108 (16)	323 (25)	17 (31)		9 (13)	4 (20)	
Osage Cuestas	12 (9)	17 (2)	3 (0)	2 (4)		8 (11)		7 (41)
Smoky Hills	40 (31)	258 (38)	423 (33)	26 (48)	5 (33)	29 (41)	3 (15)	3 (18)
South-Central Prairies	12 (9)	132 (19)	155 (12)	1 (2)	2 (13)	3 (4)		
Southern High Plains	17 (13)	95 (14)	266 (21)		8 (53)	15 (21)	10 (50)	
Unknown County	6 (5)	12 (2)	50 (4)	1 (2)		2 (3)	3 (15)	1 (6)

*Resident and Non-Resident data does not always sum for All Hunters due to extrapolation of survey data from respondents to the entire licensed hunter population

Prairie Dog Hunter Activity Tables

Table 22. All hunter activity for prairie dog, 2010-2011 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	^a Confidence Interval (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	234	9,256	25,107	233,627	37,159	3.71	25.24	9.39
Northern High Plains	82	3,243	9,775	82,963	23,797	4.12	25.58	8.12
Southern High Plains	77	3,046	8,503	96,506	23,050	3.82	31.69	12.14
Smoky Hills	45	1,780	3,615	32,535	12,335	2.78	18.28	7.89
South-Central Prairies	22	870	1,822	17,487	8,807	2.86	20.10	8.22
Flint Hills	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Glaciated Plains	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Osage Cuestas	1	40	29	870	N/A	1.00	22.00	22.00
County Unknown	7	277	1,822	2,676	2,808	9.00	9.67	5.43
<u>Residents</u>								
State	174	7,851	23,764	186,914	32,961	3.91	23.81	9.11
Northern High Plains	64	2,888	9,124	58,835	17,054	4.08	20.37	7.03
Southern High Plains	48	2,166	7,271	72,342	21,153	4.33	33.40	12.73
Smoky Hills	37	1,670	3,880	32,056	13,327	3.00	19.20	8.33
South-Central Prairies	19	857	1,958	18,385	9,916	2.95	21.44	8.92
Flint Hills	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Glaciated Plains	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Osage Cuestas	1	45	35	993	N/A	1.00	22.00	22.00
County Unknown	5	226	2,039	2,707	3,538	11.67	12.00	5.65
<u>Non-Residents</u>								
State	60	1,868	3,896	55,555	18,881	3.14	29.75	10.27
Northern High Plains	18	560	1,595	24,456	13,591	4.28	43.65	11.90
Southern High Plains	29	903	1,781	25,440	10,531	2.97	28.18	11.67
Smoky Hills	8	249	290	3,549	3,377	1.75	14.25	6.00
South-Central Prairies	3	93	145	1,121	1,324	2.33	12.00	4.00
Flint Hills	2	62	41	311	N/A	1.00	5.00	5.00
Glaciated Plains	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Osage Cuestas	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
County Unknown	2	62	41	311	N/A	1.00	5.00	5.00

*Resident and Non-Resident data does not always sum for All Hunters due to extrapolation of survey data from respondents to the entire licensed hunter population

^a Confidence Intervals provide a range of values above and below the estimated total harvest where there is 95% probability that the true total harvest occurred

Coyote Hunter Activity Tables

Table 23. All hunter activity for all coyote, 2010-2011 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	^a Confidence Interval (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	857	33,898	191,103	109,491	19,055	7.71	3.23	0.47
Northern High Plains	70	2,769	10,556	6,289	2,422	5.21	2.27	0.63
Southern High Plains	58	2,294	17,642	10,284	6,251	10.52	4.48	0.81
Smoky Hills	183	7,238	39,400	23,732	7,567	7.44	3.28	0.47
South-Central Prairies	80	3,164	11,424	6,645	3,164	4.94	2.10	0.43
Flint Hills	187	7,397	41,695	28,321	12,305	7.71	3.83	0.45
Glaciated Plains	118	4,667	39,082	17,313	8,206	11.45	3.71	0.32
Osage Cuestas	150	5,933	29,586	15,663	5,336	6.82	2.64	0.42
County Unknown	11	435	1,772	1,181	1,202	5.57	2.71	0.50
<u>Residents</u>								
State	727	32,805	213,566	115,952	21,561	8.40	3.53	0.46
Northern High Plains	51	2,301	8,774	5,550	2,565	4.92	2.41	0.64
Southern High Plains	46	2,076	20,065	10,514	7,061	12.48	5.07	0.83
Smoky Hills	152	6,859	43,613	25,314	8,533	8.21	3.69	0.47
South-Central Prairies	67	3,023	12,724	7,129	3,568	5.43	2.36	0.45
Flint Hills	162	7,310	46,605	30,323	13,978	8.23	4.15	0.42
Glaciated Plains	108	4,873	46,239	18,947	9,293	12.25	3.89	0.31
Osage Cuestas	132	5,956	33,733	16,921	6,012	7.31	2.84	0.44
County Unknown	9	406	1,825	1,137	1,498	5.80	2.80	0.50
<u>Non-Residents</u>								
State	130	4,047	10,480	6,226	1,581	3.89	1.54	0.50
Northern High Plains	19	591	2,361	1,121	725	6.00	1.89	0.58
Southern High Plains	12	374	746	840	564	3.00	2.25	0.73
Smoky Hills	31	965	2,423	1,214	540	3.77	1.26	0.47
South-Central Prairies	13	405	642	311	240	2.38	0.77	0.34
Flint Hills	25	778	2,257	1,370	643	4.36	1.76	0.62
Glaciated Plains	10	311	642	560	771	3.10	1.80	0.47
Osage Cuestas	18	560	1,201	654	549	3.22	1.17	0.28
County Unknown	2	62	207	156	305	5.00	2.50	0.50

*Resident and Non-Resident data does not always sum for All Hunters due to extrapolation of survey data from respondents to the entire licensed hunter population

^a Confidence Intervals provide a range of values above and below the estimated total harvest where there is 95% probability that the true total harvest occurred

Table 24. All hunter activity for coyote hunters without a furharvester license, 2010-2011 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	^a Confidence Interval (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	714	28,241	140,023	73,332	13,745	6.78	2.60	0.45
Northern High Plains	61	2,413	8,445	4,667	1,863	4.79	1.93	0.66
Southern High Plains	52	2,057	16,051	8,900	6,224	10.67	4.33	0.75
Smoky Hills	143	5,656	29,304	15,624	6,851	7.09	2.76	0.44
South-Central Prairies	69	2,729	9,862	5,656	3,095	4.94	2.07	0.42
Flint Hills	147	5,814	26,236	12,103	2,934	6.17	2.08	0.39
Glaciated Plains	103	4,074	23,026	13,420	7,560	7.73	3.29	0.33
Osage Cuestas	128	5,063	25,277	11,827	4,729	6.83	2.34	0.38
County Unknown	11	435	1,772	1,181	1,202	5.57	2.71	0.50
<u>Residents</u>								
State	584	26,352	151,810	74,687	15,492	7.44	2.83	0.43
Northern High Plains	42	1,895	6,222	3,700	1,865	4.24	1.95	0.70
Southern High Plains	40	1,805	18,143	8,934	7,039	12.98	4.95	0.76
Smoky Hills	112	5,054	31,429	16,064	7,739	8.03	3.18	0.43
South-Central Prairies	56	2,527	10,837	6,001	3,490	5.54	2.38	0.44
Flint Hills	122	5,505	27,915	11,822	3,218	6.55	2.15	0.35
Glaciated Plains	93	4,196	26,802	14,505	8,560	8.24	3.46	0.32
Osage Cuestas	110	4,964	28,525	12,544	5,321	7.42	2.53	0.40
County Unknown	9	406	1,825	1,137	1,498	5.80	2.80	0.50
<u>Non-Residents</u>								
State	130	4,047	10,480	6,226	1,581	3.89	1.54	0.50
Northern High Plains	19	591	2,361	1,121	725	6.00	1.89	0.58
Southern High Plains	12	374	746	840	564	3.00	2.25	0.73
Smoky Hills	31	965	2,423	1,214	540	3.77	1.26	0.47
South-Central Prairies	13	405	642	311	240	2.38	0.77	0.34
Flint Hills	25	778	2,257	1,370	643	4.36	1.76	0.62
Glaciated Plains	10	311	642	560	771	3.10	1.80	0.47
Osage Cuestas	18	560	1,201	654	549	3.22	1.17	0.28
County Unknown	2	62	207	156	305	5.00	2.50	0.50

*Resident and Non-Resident data does not always sum for All Hunters due to extrapolation of survey data from respondents to the entire licensed hunter population

^a Confidence Intervals provide a range of values above and below the estimated total harvest where there is 95% probability that the true total harvest occurred

Table 25. All hunter activity for coyote hunters with a furharvester license, 2010-2011 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	^b Confidence Interval (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
^a All Hunters (Resident)								
State	143	5,656	50,785	36,034	12,783	12.28	6.37	0.59
Northern High Plains	9	356	2,111	1,622	1,517	8.11	4.56	0.38
Southern High Plains	6	237	1,591	1,384	629	9.17	5.83	1.32
Smoky Hills	40	1,582	10,064	8,109	3,087	8.70	5.13	0.58
South-Central Prairies	11	435	1,562	989	700	4.91	2.27	0.50
Flint Hills	40	1,582	15,415	16,217	11,522	13.33	10.25	0.65
Glaciated Plains	15	593	15,733	3,876	3,157	36.27	6.53	0.26
Osage Cuestas	22	870	4,309	3,837	2,424	6.77	4.41	0.67
County Unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

^a No non-residents respondents reported purchasing a furharvester license

^b Confidence Intervals provide a range of values above and below the estimated total harvest where there is 95% probability that the true total harvest occurred

Waterfowl Hunting Estimates

Table 26. All hunter activity for teal, 2010 special early season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	^a Confidence Interval (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	140	6,328	14,084	50,036	9,239	3.48	7.91	2.51
Northern High Plains	1	45	231	316	N/A	8.00	7.00	0.90
Southern High Plains	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Smoky Hills	59	2,667	5,726	23,640	4,518	3.36	8.86	2.84
South-Central Prairies	18	814	1,620	6,238	2,284	3.11	7.67	2.77
Flint Hills	9	407	636	814	579	2.44	2.00	0.73
Glaciated Plains	21	949	2,487	6,147	5,225	4.10	6.48	1.24
Osage Cuestas	29	1,311	3,210	10,396	4,690	3.83	7.93	1.97
County Unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<u>Residents</u>								
State	130	6,714	16,255	53,244	10,230	3.58	7.93	2.41
Northern High Plains	1	52	280	361		8.00	7.00	0.90
Southern High Plains	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Smoky Hills	54	2,789	6,432	23,497	4,732	3.41	8.43	2.50
South-Central Prairies	18	930	1,958	7,127	2,610	3.11	7.67	2.77
Flint Hills	8	413	699	826	667	2.50	2.00	0.70
Glaciated Plains	21	1,084	3,006	7,023	5,970	4.10	6.48	1.24
Osage Cuestas	26	1,343	3,705	11,568	5,243	4.08	8.62	2.00
County Unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<u>Non-Residents</u>								
State	10	355	456	2,697	1,884	2.20	7.60	3.86
Northern High Plains	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Southern High Plains	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Smoky Hills	5	177	290	2,413	1,323	2.80	13.60	6.52
South-Central Prairies	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Flint Hills	1	35	41	71		2.00	2.00	1.00
Glaciated Plains	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Osage Cuestas	3	106	104	213	241	1.67	2.00	1.67
County Unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Resident and Non-Resident data does not always sum for All Hunters due to extrapolation of survey data from respondents to the entire licensed hunter population

^a Confidence Intervals provide a range of values above and below the estimated total harvest where there is 95% probability that the true total harvest occurred

Table 27. All hunter activity for ducks, 2010-2011 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	^a Confidence Interval (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	586	26,487	132,602	411,409	49,249	7.82	15.53	1.90
Northern High Plains	12	542	1,591	2,576	1,510	4.58	4.75	1.49
Southern High Plains	12	542	1,822	3,300	1,792	5.25	6.08	1.39
Smoky Hills	130	5,876	26,289	81,179	22,776	6.99	13.82	1.92
South-Central Prairies	105	4,746	20,071	60,523	15,890	6.61	12.75	1.81
Flint Hills	101	4,565	23,686	65,992	18,822	8.11	14.46	1.80
Glaciated Plains	73	3,300	17,468	46,149	13,220	8.27	13.99	1.58
Osage Cuestas	150	6,780	41,443	151,645	32,308	9.55	22.37	2.26
County Unknown	3	136	231	45	89	2.67	0.33	0.17
<u>Residents</u>								
State	473	24,427	142,938	415,673	54,569	8.64	17.02	1.85
Northern High Plains	5	258	1,189	1,291	1,280	6.80	5.00	0.78
Southern High Plains	8	413	1,258	2,479	1,804	4.50	6.00	1.38
Smoky Hills	96	4,958	27,301	76,328	25,387	8.14	15.40	1.77
South-Central Prairies	85	4,390	22,058	61,765	17,419	7.42	14.07	1.77
Flint Hills	86	4,441	26,008	70,234	21,018	8.65	15.81	1.87
Glaciated Plains	65	3,357	20,345	50,817	14,794	8.95	15.14	1.59
Osage Cuestas	125	6,455	44,500	152,708	35,941	10.18	23.66	2.20
County Unknown	3	155	280	52	101	2.67	0.33	0.17
<u>Non-Residents</u>								
State	113	4,010	10,273	37,371	7,989	4.39	9.32	2.10
Northern High Plains	7	248	435	1,136	882	3.00	4.57	2.00
Southern High Plains	4	142	559	887	790	6.75	6.25	1.43
Smoky Hills	34	1,207	2,651	11,286	3,473	3.76	9.35	2.35
South-Central Prairies	20	710	1,305	5,075	3,045	3.15	7.15	2.01
Flint Hills	15	532	1,553	3,549	2,285	5.00	6.67	1.40
Glaciated Plains	8	284	456	1,313	886	2.75	4.63	1.53
Osage Cuestas	25	887	3,314	14,125	5,402	6.40	15.92	2.59
County Unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Resident and Non-Resident data does not always sum for All Hunters due to extrapolation of survey data from respondents to the entire licensed hunter population

^a Confidence Intervals provide a range of values above and below the estimated total harvest where there is 95% probability that the true total harvest occurred

Table 28. All hunter activity for all Geese, 2010-2011 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	^a Confidence Interval (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	463	20,928	94,573	204,519	35,525	7.06	9.77	1.40
Northern High Plains	10	452	1,388	2,350	2,075	4.80	5.20	1.14
Southern High Plains	9	407	1,244	5,198	5,674	4.78	12.78	2.32
Smoky Hills	84	3,797	19,522	33,809	11,530	8.04	8.90	1.18
South-Central Prairies	110	4,972	21,777	55,822	17,375	6.85	11.23	1.61
Flint Hills	92	4,158	16,051	27,482	6,663	6.03	6.61	1.22
Glaciated Plains	68	3,074	16,138	36,250	23,252	8.21	11.79	1.35
Osage Cuestas	86	3,887	17,526	42,759	14,154	7.05	11.00	1.51
County Unknown	4	181	964	542	614	8.33	3.00	0.60
<u>Residents</u>								
State	398	20,554	105,835	216,980	39,827	7.61	10.56	1.38
Northern High Plains	6	310	1,223	2,221	2,258	5.83	7.17	1.12
Southern High Plains	7	361	1,258	5,526	6,417	5.14	15.29	2.54
Smoky Hills	71	3,667	21,638	35,272	12,778	8.72	9.62	1.16
South-Central Prairies	94	4,854	24,784	59,079	19,408	7.54	12.17	1.54
Flint Hills	82	4,235	18,632	29,798	7,469	6.50	7.04	1.19
Glaciated Plains	63	3,253	18,947	40,333	26,493	8.60	12.40	1.36
Osage Cuestas	71	3,667	18,212	43,741	15,402	7.34	11.93	1.57
County Unknown	4	207	1,165	620	701	8.33	3.00	0.60
<u>Non-Residents</u>								
State	65	2,307	5,033	11,499	4,635	3.74	4.98	1.48
Northern High Plains	4	142	269	319	366	3.25	2.25	1.18
Southern High Plains	2	71	145	284	139	3.50	4.00	1.55
Smoky Hills	13	461	1,160	2,307	2,035	4.31	5.00	1.31
South-Central Prairies	16	568	911	3,230	2,455	2.75	5.69	2.04
Flint Hills	10	355	456	1,100	651	2.20	3.10	1.46
Glaciated Plains	5	177	331	745	942	3.20	4.20	1.26
Osage Cuestas	15	532	1,760	3,514	3,258	5.67	6.60	1.21
County Unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Resident and Non-Resident data does not always sum for All Hunters due to extrapolation of survey data from respondents to the entire licensed hunter population

^a Confidence Intervals provide a range of values above and below the estimated total harvest where there is 95% probability that the true total harvest occurred