

*SMALL GAME HUNTER ACTIVITY SURVEY - 2011*  
STATEWIDE WILDLIFE RESEARCH AND SURVEYS

**Performance Report**  
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## SMALL GAME HUNTER ACTIVITY SURVEY - 2011

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

Procedure: A random sample of 14,904 (10% of all license types that allowed small game hunting) Kansas resident and 6,727 non-resident 2011 hunting, combination, and lifetime license holders was selected from all Kansas counties using the electronic Kansas Outdoors Automated Licensing System (KOALS). The following are not required to have a hunting license: 1) owners of land or tenants of land leased for agriculture, and immediate family members living with resident landowners and resident or non-resident tenants, while hunting on this land, 2) residents 15 and younger or 65 and older. These exemptions were not included in the sampling effort for this survey. Each licensed individual was notified by postcard in February 2012 of their selection for the survey and asked to complete an on-line questionnaire of their hunting activity for the 2011-2012 seasons. After comparing paper responses and electronic responses for 2010 data, and seeing no differences, the 2011 survey was completed entirely by electronic means, therefore no paper survey was offered this year. After approximately 5 weeks, non-respondents were mailed a second postcard notification requesting their participation in this survey.

To achieve hunter and harvest estimates we used answers from respondents to estimate percentage of active small game hunter for all license holders for the 2011-2012 small game seasons. From this pool we then calculated the percentage of individual species hunted. Then we extrapolated the active small game hunter percentage and their species specific hunting/harvest information to total license holders. This provided estimates of total hunters, hunter effort, and bag for all species.

We attempted to estimate prairie chicken harvest by species (Greater and Lesser Prairie Chicken). Sympatric range occurs in west-central and north-west Kansas and regulations overlap between the two species. Historically, harvest was delineated by county for the dominant species by county. This procedure was continued for this survey to preserve continuity in the data while anticipating improvements for next year's harvest survey. Lesser Prairie Chicken data were taken from the following counties (all other counties denoted data for Greater Prairie Chickens): Hodgeman, Hamilton, Haskell, Pratt, Seward, Barber, Pawnee, Kearney, Stanton, Edwards, Stevens, Comanche, Gray, Kiowa, Meade, Grant, Finney, Ford, Morton, Greeley, Wichita, Scott, Lane, Rush, Stafford. Many of these areas are strictly Lesser Prairie Chicken range, however parts of northern counties other than those reported above do include some Greater Prairie Chicken range. Our estimate of Lesser Prairie Chicken harvest does not include data from many counties north of the Arkansas River that are now occupied primarily by Lesser Prairie Chicken (but not at the time the survey was initiated). Next year (2012-2013 season) we will implement a prairie chicken permit (required for all prairie chicken hunters) which will allow us to survey all prairie chicken hunters and provide more precise estimates. Moreover, lek counts can be used to extrapolate species specific percentages in those counties with sympatric range in west-central and north-central Kansas.

Results: From the 21,631 deliverable notifications, 5,260 usable responses were obtained for an overall response rate of 24%. These included 3,055 responses from resident hunters, and 2,205 responses from non-resident hunters. Of these, 2,951 indicated hunting small game during the 2011-2012 seasons.

A summary of historic small game hunting season regulations follows.

Table 1. Historic small game regulations, Kansas, 1957-2011.

Years	Season Dates	Daily Bag	Possession	Open Area
<b><u>DOVE</u></b>				
2010 - 2011	Sept. 1 - Oct. 31, and Nov. 5 - 13	15	30	statewide
2009	Sept. 1 - Oct. 31, and Nov. 7 - 15	15	30	statewide
2004 - 2008	Sept. 1 - Oct. 14, and Nov. 1 - 16	15	30	statewide
2003	Sept. 1 - Oct. 28 and Nov. 8-9	15	30	statewide
2002	Sept. 1 - Oct. 28 and Nov. 9-11	15	30	statewide
1983 - 2001	Sept. 1 - Oct. 30	15	30	statewide
1982	Sept. 1-Nov. 9	12	24	statewide
1981	Sept. 1 - Oct. 30	12	24	statewide
1969-1980	Sept. 1 - Oct. 30	10	20	statewide
1964-1968	Sept. 1 - Oct. 30	12	24	statewide
1963	Sept. 1 - Oct. 30	10	20	statewide
1962	Sept. 1 - Oct. 30	12	24	statewide
1960-1961	Sept. 1 - Oct. 30	15	30	statewide
1958-1959	Sept. 1 - Oct. 30	10	20	statewide
1956-1957	Sept. 1 - Oct. 30	10	10	statewide
<b><u>QUAIL</u></b>				
2008 - 2011	2nd Sat. in Nov. to Jan. 31	8	32	statewide
2006 - 2007	2nd Sat. in Nov. to 2nd to last Sunday in Jan.	8	32	statewide
1992 - 2005	2nd Sat. in Nov. to Jan. 31 (East Unit), 3rd Sat. in Nov. to Jan. 31 (West Unit)	8	32	statewide
1988 - 1991	2nd Sat. in Nov. to Jan. 31, 3rd Sat. in Nov. to Jan. 31 (West Unit)	8	24	West Unit, Rest of the State
1987	2nd Sat. in Nov. to Jan. 31, Nov. 15 to Jan. 31 (West Unit)	8	24	West Unit, Rest of the State
1985 - 1986	2nd Sat. in Nov. to Jan. 31, 3rd Sat. in Nov. to Jan. 31 (West Unit)	8	24	West Unit, Rest of the State
1984	2nd Sat. in Nov. to Jan. 31, 3rd Sat. in Nov. to Jan. 31 (West Unit)	8	16	West Unit, Rest of the State
1982-1983	2nd Sat. in Nov. to Jan. 31, 3rd Sat. in Nov. to Jan. 31 (West Unit)	8	24	West Unit, Rest of the State
1981	Nov. 14-Feb 15, Nov. 21-Feb15 (NW Unit)	8	24	NW Unit, Rest of the State
1980	Nov. 8-Jan. 25, Nov. 15-Jan. 25 (NW Unit)	6	18	NW Unit, Rest of the State
1979	Nov. 10-Jan. 27, Nov. 17-Jan. 27 (NW Unit)	6	18	NW Unit, Rest of the State
1978	Nov. 18-Jan. 28, Nov. 11-Jan. 28 (NW Unit)	8	24	NW Unit, Rest of the State
1977	Nov. 5-Jan.15, Nov. 12-Jan. 15 (NW Unit)	8	24	NW Unit, Rest of the State
1976	Nov. 13-Jan 31, Nov. 20-Jan31 (NW Unit: W of US 81 & N of I-70)	8	24	NW Unit, Rest of the State
1975	Nov. 8-Jan. 11	8	24	statewide
1974	Nov.9-Dec. 6, Dec. 16-Jan. 31	8	24	statewide
1973	Nov. 10-Jan. 31	8	24	statewide
1972	Nov. 11-Jan. 14	8	24	statewide
1971	Nov. 13-Jan.13	8	24	statewide
1970	Nov. 21-Jan. 21	8	24	statewide
1969	Nov. 15-Jan. 15	8	24	statewide
1968	Nov. 16-Jan. 12	8	24	statewide
1967	Nov. 18-20,22-27,29 Dec. 1-4,6, 8-11,13, 15-18,20,22-25,27,29-31	8	24	statewide
1966	Nov. 19-Jan. 15	8	16	statewide
1965	Nov. 20-28,30 Dec. 2,4,5,7,9,11,12,14,16, 18,19,21,23,25,26 Zn. A, Nov. 20-Dec. 31 Zn. B	8	16	Zn A (S. of I-35 and E. of US 59) Zn B (rest of the state)
1964	Nov. 21-Dec. 6,8,10,12,13,15,17,19,20,	8	16	statewide

	22, 24-27,29,31, Jan 1-3				
1963	Nov. 16-24,26,28-30, Dec. 1,3,5,7,8,10,12, 14,15	8	16	statewide	
1962	Nov. 17-25, 27,29,Dec. 1,2,4,6,8,9,11, 13, 15,16 Zn. 1 Nov. 17-Dec. 2 Zn. 2	8	16	Zn 1 (east of 183), Zn 2 (west of 183)	
1961	Nov. 18,19,21,23-26,28,30, Dec. 2,3,5,7,9,10,12,14,16,17	6	12	statewide	
1960	Nov. 11,12,13,15,17,19,20,22, (24-27, 29 Dec. 1,3,4,6,8,10)	6	12	statewide	
1959	Nov. 14,15,17,19,21,22, 24,26,27,28,29, Dec. 1,3,5,6,8,10,12,13	8	16	statewide	
1958	Nov. 15,16,18,20,22,23,25,27,28,29,30, Dec. 2,4,6,7,9,11,13,14	8	16	statewide	
1957	Nov. 16,17,19,21,23,24,26,28,29,30, Dec. 1,3,5,7,8	8	16	statewide	
<b><u>PHEASANT</u></b>					
2009 - 2011	2nd Sat. in Nov. to Jan. 31	4	16	statewide	
2006 - 2008	1st Sat. in Nov. to Jan. 31	4	16	statewide	
1985 - 2005	2nd Sat. in Nov. to Jan. 31	4	16	statewide	
1984	2nd Sat. in Nov. to Jan. 31	4	8	statewide	
1982-1983	2nd Sat. in Nov. to Jan. 31	4	16	statewide	
1981	Nov. 14-Feb 15	4	16	statewide	
1980	Nov. 8-Jan. 25	4	16	statewide	
1979	Nov. 10-Jan. 27	4	16	statewide	
1978	Nov. 11-Jan. 28	3	9	Statewide except for S. of US 54 & E. of US 169	
1977	Nov. 5-Jan 8	3	9	Statewide except for S. of US 54 & E. of US 170	
1976	Nov. 13-Jan. 31	4	12	statewide	
1975	Nov. 8-Jan. 11	3	9	statewide	
1974	Nov. 9-Dec. 6, Dec. 16- Jan. 31	4	12	statewide	
1973	Nov. 10-Jan. 31	4	12	statewide	
1972	Nov. 11-Jan. 14	3	12	statewide	
1971	Nov. 13-Jan 13	3	12	statewide	
1970	Nov. 21-Dec. 31 Zn. 1 (east of US 81), Nov.14-Dec. 31 Zn. 2 (west of US 81)	3	12	statewide	
1969	Nov. 15-Dec. 31 Zn. 1 (east of US 81), Nov.8-Dec. 31 Zn. 2 (west of US 81)	3	12	2 Zones, Statewide	
1968	Nov.16-Dec. 8, 21-29 Zn. 1, Nov. 9-Dec. 8, 21-29 Zn. 2	2 (Zn 1) & 3 (Zn 2)	4 & 6	2 Zones in 85 counties	
1967	Nov. 18-Dec. 3; Dec. 16-31 Zn. 1, Nov. 11-26; Dec. 16-31 Zn. 2	2 (Zn 1) & 3 (Zn 2)	4 & 6	2 Zones in 85 counties	
1966	Nov. 19-27; Dec. 17-Jan. 8 Zn. 1, Nov. 12-27; Dec. 17-Jan. 8 Zn. 2	2 (Zn 1) & 3 (Zn 2)	4 & 6	2 Zones in 85 counties	
1965	Nov. 20-28, Dec. 18-31 Zn. 1, Nov. 13-28, Dec. 18-31 Zn. 2	2 (Zn 1) & 3 (Zn 2)	4 & 6	2 Zones in 85 counties	
1964	Nov. 14-Dec. 27 Zn. 1, Nov. 9-Dec. 8 Zn. 2	2 (Zn 1) & 3 (Zn 2)	4 & 6	2 Zones in 84 counties	
1963	Nov. 9-24 Zn. 1, Nov. 9-Dec. 8 Zn. 2	2 (Zn 1) & 3 (Zn 2)	4 & 6	2 Zones in 84 counties	
1962	Nov. 10-25, Zn. 1 - 4, Dec 8-31 Zn. 2 & 3	3 (Zn. 1&4) 5 (Zn. 2&3)	6 & 10	4 Zones in 81 counties, ≤ 1 hen in bag	
1961	Nov. 11-Dec 17	5	10	HP,KM,RN,HV,MP,DK,CY,RL, WS and all counties west (64 co's). ≤ 1 hen in bag	
1960	Nov. 5-30	4	8	HP,KM,RN,HV,MP SA,DK,CY, WS and all counties west (63 co's).	
1959	Nov. 7-26	4	8	HP,KM,RN,HV,MP,SA,OT,CY, WS and all counties west (62 co's).	
1958	Nov. 7-11	4	8	Same co's as 1957	
1957	Nov. 9-12	3	6	HP,KM,PR,SF,RC,EW,LC,OT,CY,WS, and all counties west (59 co's).	

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**PRAIRIE CHICKEN**

2005 - 2011	Early Sep. 15-Oct.15, Regular 3rd Sat. Nov. to Jan. 31, SW Zone 3rd Sat. Nov.-Dec. 31	Regular 2, SW 1	Regular 8, SW 4	East Unit Early, Statewide Reg. Season, SW Unit
1995 - 2004	Early Sep. 15-Oct.15, Regular 1st Sat. Nov. to Jan. 31, SW Zone Dec. 1-Jan. 31	Regular 2, SW 1	Regular 8, SW 4	East Unit Early, Statewide Reg. Season
1992 - 1994	Regular early Sep. 15-Oct. 15, Regular 1st Sat. in Nov. to Jan. 31	2	8	East Unit Early, Early season PR, CA, and MT Co., Statewide Reg. Season
1991	Early 4th Sat. Sep.-Oct. 20, Regular 1st Sat. in Nov. to Jan. 31	2	6	East Unit Early, Statewide Regular Season
1989 - 1990	Early 4th Sat. Sep.-Oct. 15, Regular 1st Sat. in Nov. to Jan. 31	2	6	East Unit Early, Statewide Regular Season
1986 - 1988	1st Sat. in Nov. to Jan. 31	2	6	statewide
1985	Nov. 2-Jan. 31	2	6	Stwd. excpt. RA. Co. closed
1984	Nov. 3-Jan. 31	2	4	Statewide
1983	Nov. 5-Jan. 31	2	6	Statewide
1982	Nov. 6-Jan. 31	2	6	Statewide
1981	Nov. 7-Feb. 15	2	6	Statewide
1980	Nov. 1-Dec. 31	2	6	Statewide
1979	Nov. 3-Dec. 31, Nov. 4-Dec. 17 SW Zone	2	6	Statewide, less E. of US 81
1978	Nov. 4-Dec. 3 Regular, Nov. 12-Dec. 18 SW Zone	2	6	E. of US 81, West of US 81
1977	Nov. 12- Dec. 4 Regular	2	6	W. of US 81 & SE KS. S. of US 54 & E. of US 169.

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**COTTONTAIL**

1993 - 2011	Open All Year	10	30	statewide
1971 - 1992	Year Round	10	20	Statewide; 1975 to present No Limit on Jackrabbits
1957 - 1970	Dec.15-Oct.15 plus bird Season	10	20	Statewide

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**SQUIRREL**

1997 - 2011	Jun. 1 - end of Feb.	5	20	Statewide
1992 -1996	Jun. 1-Dec. 31	5	20	Statewide
1971 - 1991	Jun. 1-Dec. 31	5	10	Statewide
1964 - 1970	Aug. 1-Dec. 31	5	10	Statewide
1963	Sep. 15-Dec.15	5	10	Statewide
1962	Sep. 1-Nov. 30	8	16	Statewide
1960 - 1961	Apr. 15-May 31, Sep. 1-Nov. 30	8	16	Statewide
1959	Jul. 1-Nov. 30	8	16	Statewide
1957 - 1958	Sep. 1-Dec. 31	8	16	Statewide

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## Kansas Dove Harvest, 1957 - 2011.

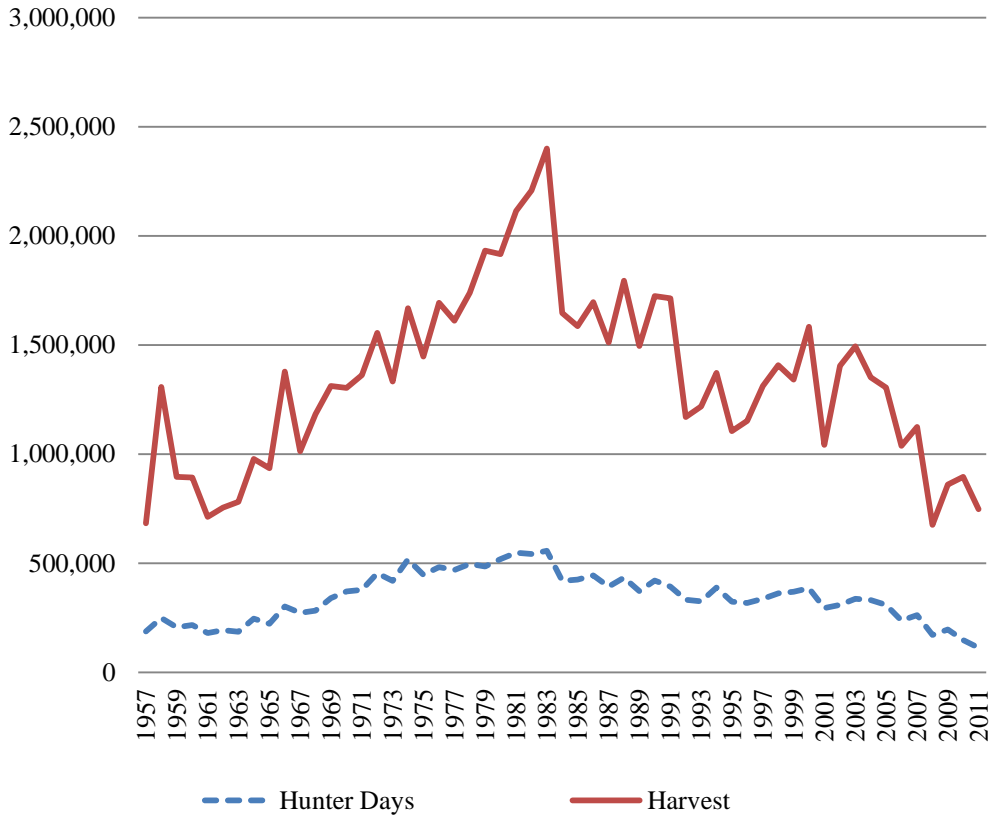


Table 2. Estimated annual DOVE hunting activity in Kansas.

Year	Percent 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	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	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
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
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
2011	31	38,429	112,355	747,538	4.24	19.45	4.80

<sup>a</sup> Hunter estimates prior to 1962 were not adjusted for inactive license buyers.

<sup>b</sup> 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.

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

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

## Kansas Bobwhite Harvest, 1957 - 2011.

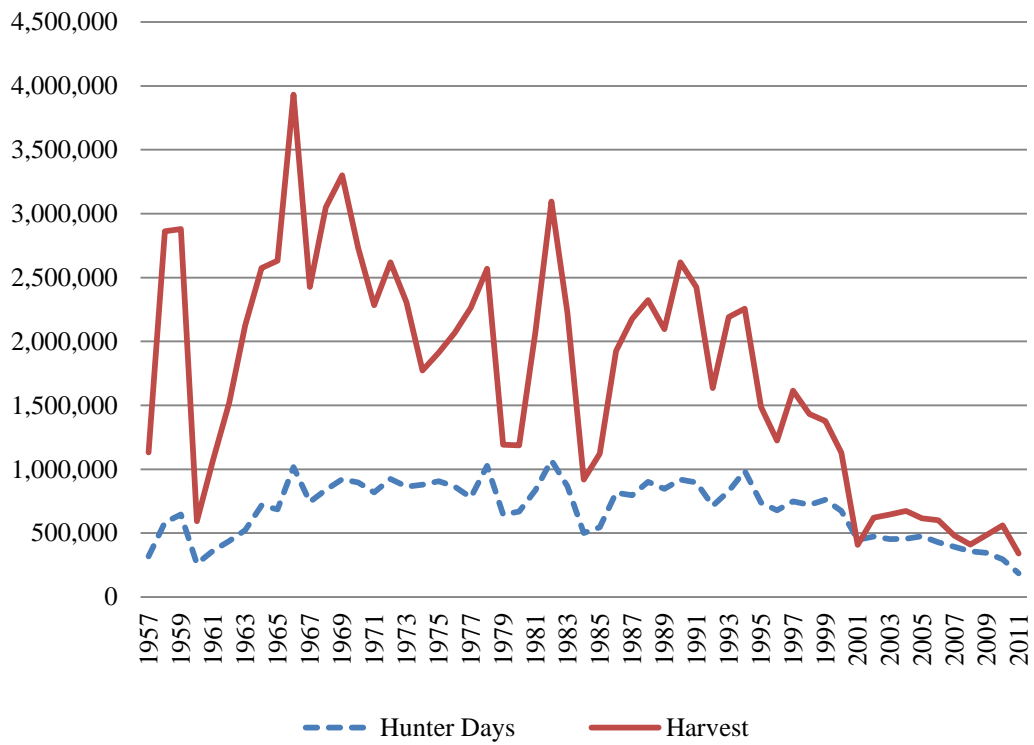


Table 3. Estimated annual **BOBWHITE** hunting activity in Kansas.

Year	Percent 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	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	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
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
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
2011	47	59,153	186,181	339,495	4.57	5.74	1.27

<sup>a</sup> Hunter estimates prior to 1962 were not adjusted for inactive license buyers.

<sup>b</sup> 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.

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

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

## Kansas Pheasant Harvest, 1957 - 2011.

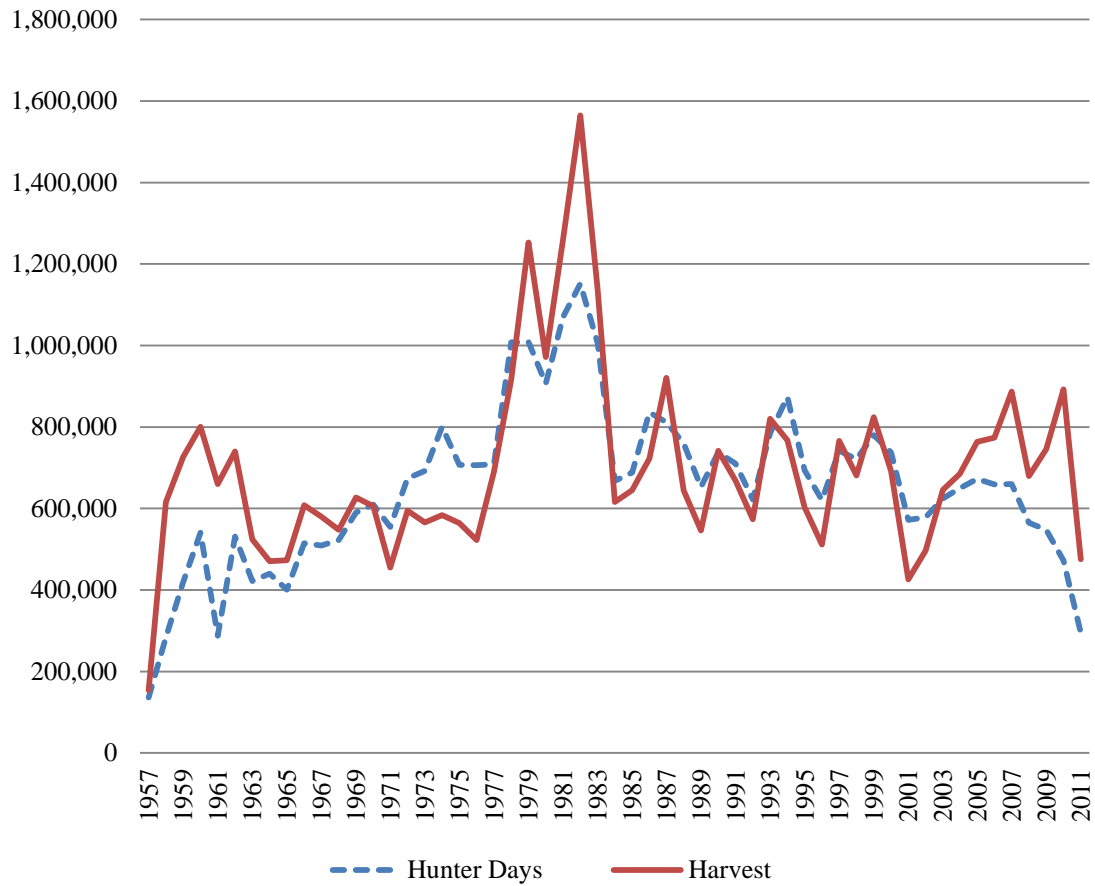


Table 4. Estimated annual PHEASANT hunting activity in Kansas.

Year	Percent Hunting Species	Est. Total Hunters	Est. Total Days	Est. <sup>a</sup> Total Harvest	Season Days Per Hunter	Season <sup>a</sup> Bag Per Hunter	Average <sup>a</sup> 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	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	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
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
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
2011	74	93,135	294,556	475,170	4.59	5.10	1.19

<sup>a</sup> 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.

<sup>b</sup> Hunter estimates prior to 1962 were not adjusted for inactive license buyers.

<sup>c</sup> 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.

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

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

## Kansas Greater Prairie Chicken Harvest, 1957-2011.

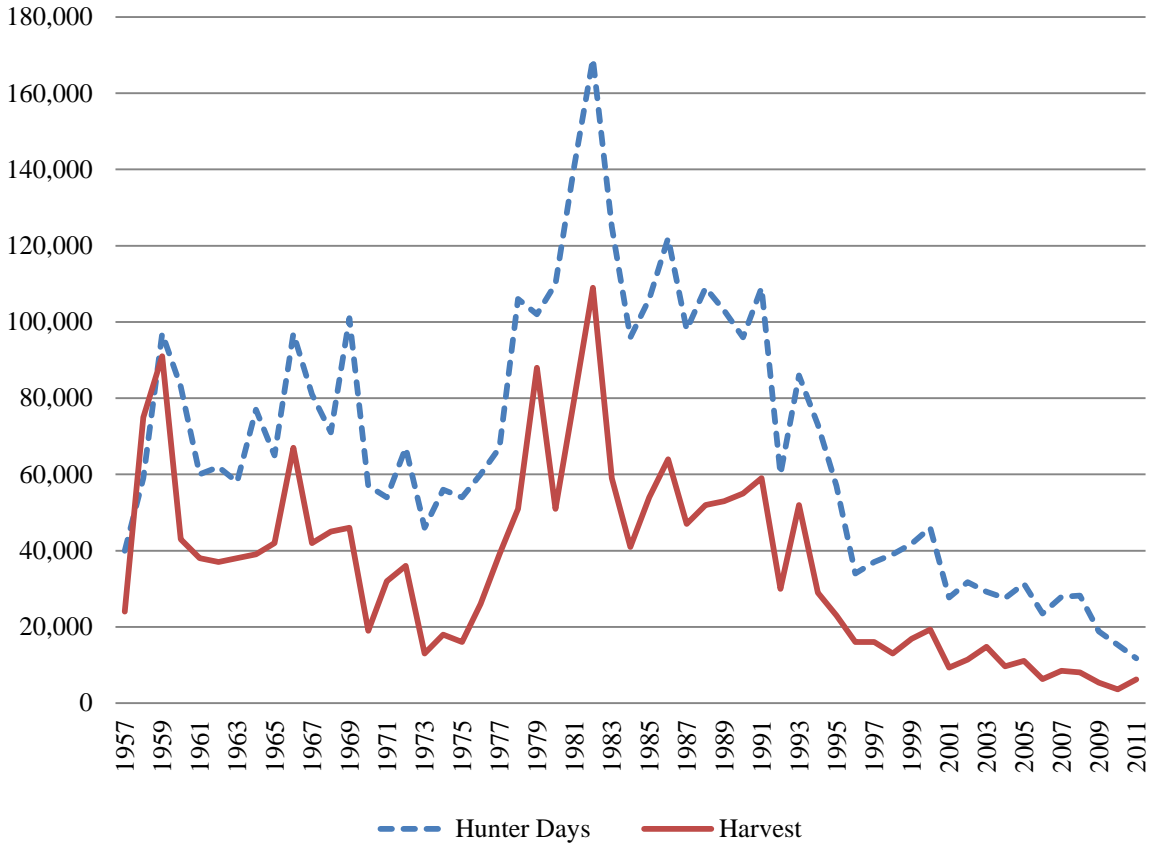


Table 5. Estimated annual **GREATER PRAIRIE CHICKEN** hunting activity in Kansas.

Year	Percent 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	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
1979	16	36,100	102,000	88,000	2.83	2.45	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
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
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
2011	4	5,454	11,800	6,251	3.14	0.93	0.30

<sup>a</sup> Hunter estimates prior to 1962 were not adjusted for inactive license buyers.

<sup>b</sup> 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.

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

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

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



## Kansas Lesser Prairie Chicken Harvest, 1975 - 2011.

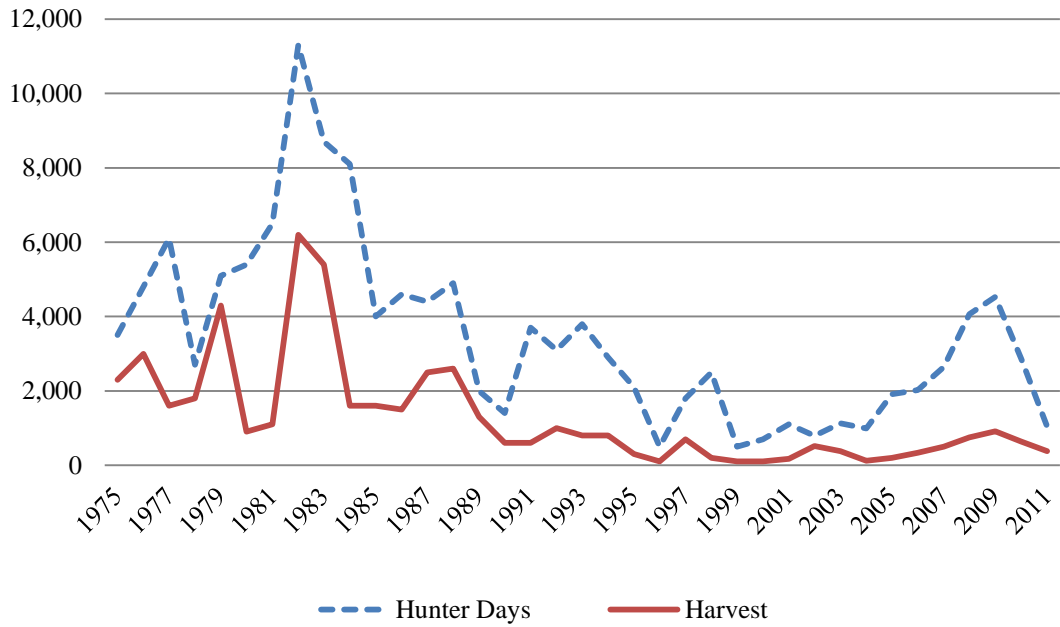


Table 6. Estimated annual **LESSER PRAIRIE CHICKEN** hunting activity in Kansas <sup>a</sup>.

Year	Percent 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
1979	1	1,700	5,100	4,300	3.00	2.55	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
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
2005	0	500	1,910	200	3.80	0.40	0.40
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
2011	0	503	1,041	378	3.00	0.75	0.31

<sup>a</sup> Wide annual variation is caused by low sample size for this species.

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

<sup>c</sup> 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.

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

<sup>e</sup> Season length reduced and with daily bag set at 1.

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

# Kansas Cottontail Harvest, 1958 - 2010.

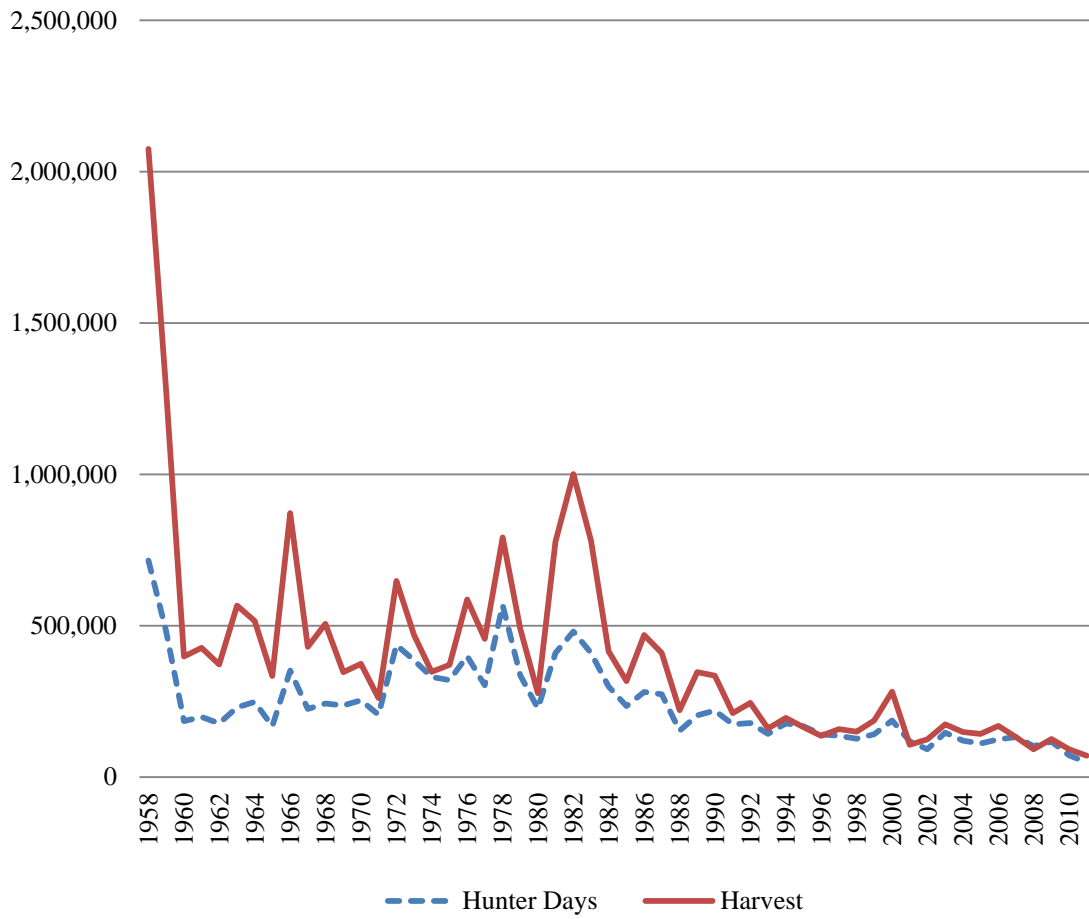


Table 7. Estimated annual **COTTONTAIL** hunting activity in Kansas.

Year	Percent 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	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	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
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
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
2011	12	14,977	48,847	71,068	4.73	4.75	1.24

<sup>a</sup> Hunter estimates prior to 1962 were not adjusted for inactive license buyers.

<sup>b</sup> 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.

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

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

## Kansas Squirrel Harvest, 1957 - 2010.

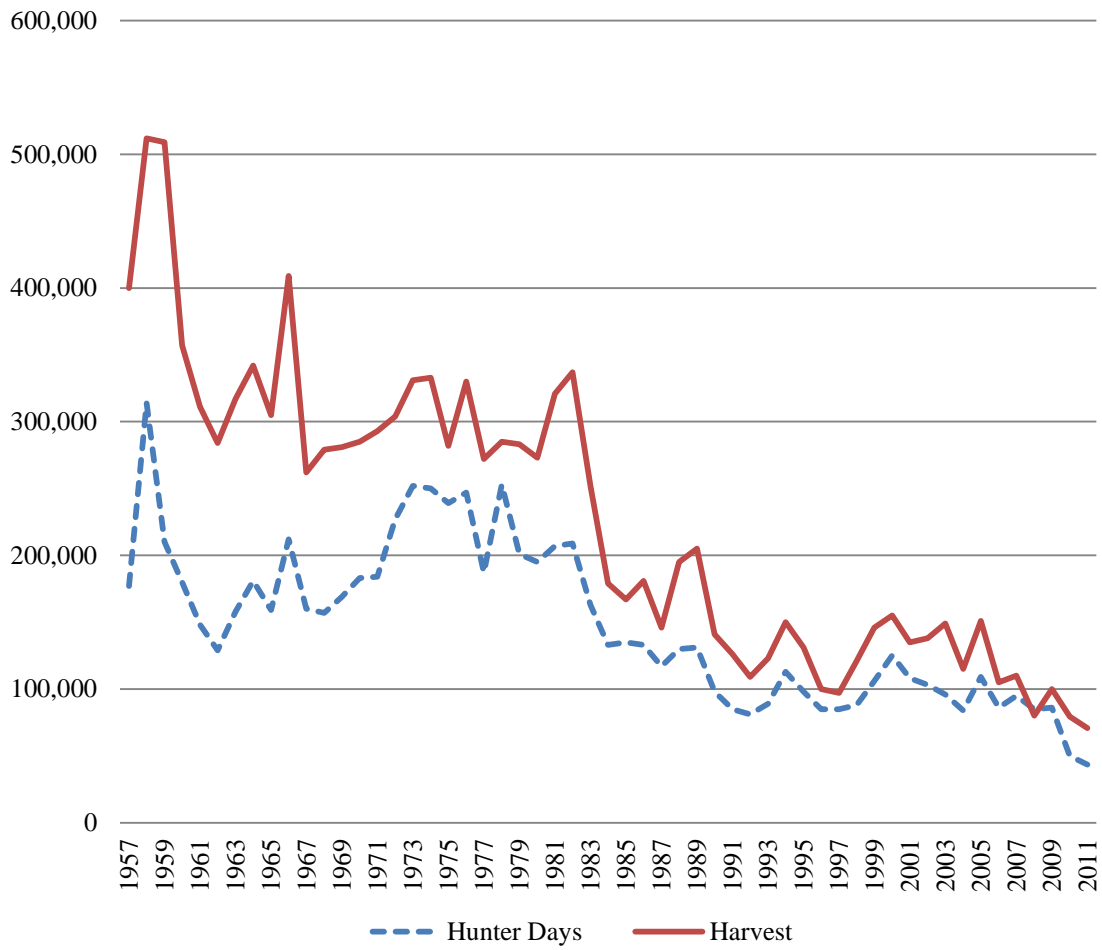


Table 8. Estimated annual **SQUIRREL** (Fox and Gray) hunting activity in Kansas.

Year	Percent 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	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	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
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
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
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
2011	9	11,369	43,368	70,699	5.53	6.22	1.24

<sup>a</sup> Hunter estimates prior to 1962 were not adjusted for inactive license buyers.

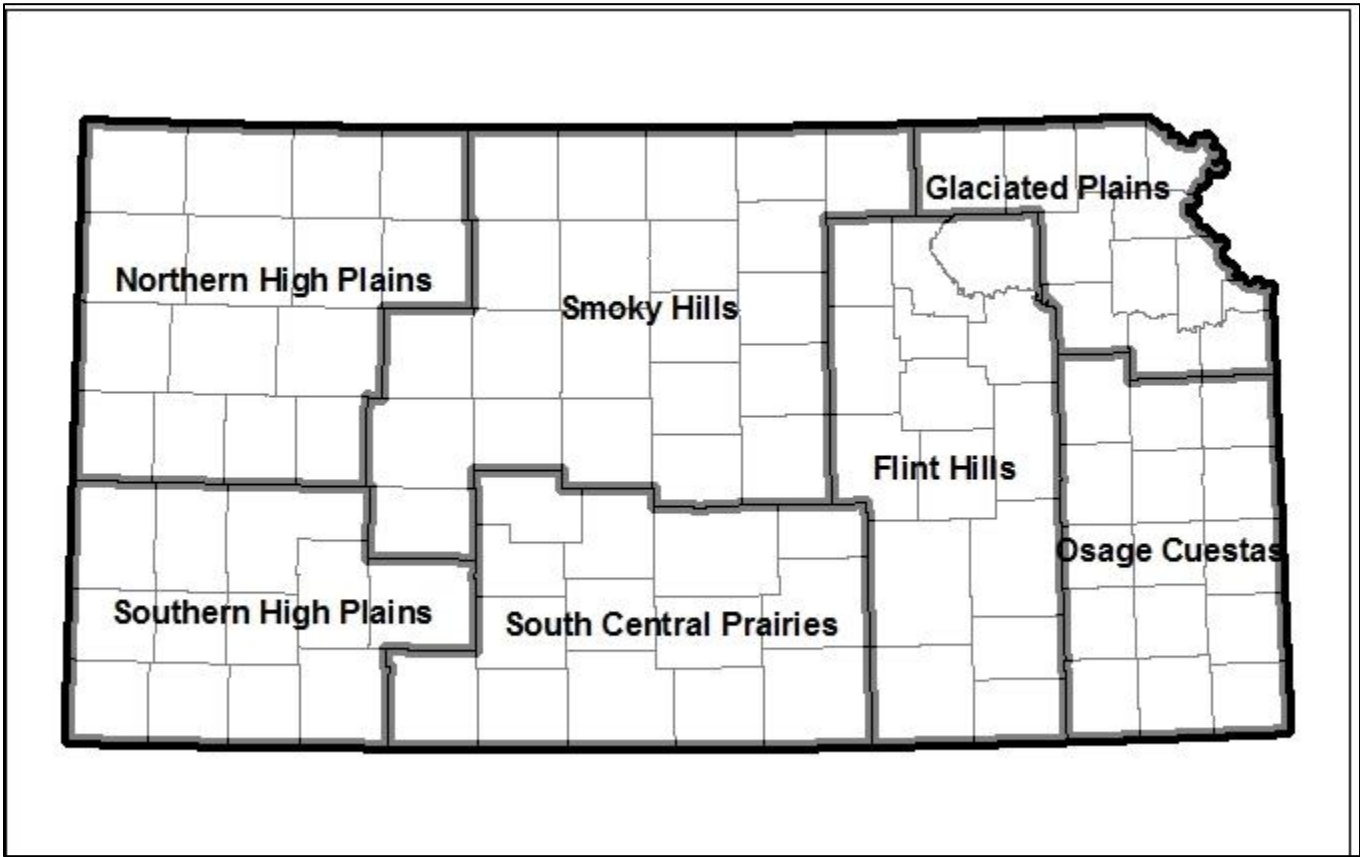
<sup>b</sup> Average Bag Per Day through 1967 expresses overall mean season bag divided by overall mean season days.

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

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

<sup>d</sup> Season was extended 2 months to run from June 1 through the end of February.

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



Kansas small game regions for all species

## Small Game Hunter Activity Tables 2010-2011

Table 9. All hunter activity for dove, 2011 - 2012 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	CI (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	916	38,429	112,355	747,538	63,598	4.24	19.45	4.80
Northern High Plains	68	2,853	7,490	65,320	16,585	3.81	22.90	6.31
Southern High Plains	62	2,601	10,131	89,216	32,777	5.65	34.30	5.76
Smoky Hills	270	11,327	34,439	256,595	33,569	4.41	22.65	5.50
South-Central Prairies	168	7,048	18,307	126,907	22,730	3.77	18.01	5.05
Flint Hills	140	5,873	15,415	85,499	17,141	3.81	14.56	3.97
Glaciated Plains	98	4,111	11,742	53,867	18,103	4.14	13.10	2.98
Osage Cuestas	105	4,405	14,374	67,963	17,301	4.73	15.43	3.87
County Unknown	5	210	289	2,098	NA	2.00	10.00	5.00
<u>Residents</u>								
State	835	41,391	128,036	807,631	74,167	4.39	19.51	4.58
Northern High Plains	54	2,677	7,690	61,666	18,732	4.07	23.04	5.92
Southern High Plains	55	2,726	11,790	101,236	38,379	6.13	37.13	5.73
Smoky Hills	241	11,946	38,845	271,470	39,237	4.61	22.72	5.15
South-Central Prairies	153	7,584	20,764	137,161	26,518	3.88	18.08	4.88
Flint Hills	135	6,692	18,317	97,109	19,852	3.88	14.51	3.88
Glaciated Plains	92	4,560	13,144	60,426	21,053	4.09	13.25	3.06
Osage Cuestas	101	5,007	17,094	77,231	20,334	4.84	15.43	3.74
County Unknown	4	198	280	1,983	NA	2.00	10.00	5.00
<u>Non-Residents</u>								
State	81	2,542	4,592	47,878	7,630	2.74	18.84	7.11
Northern High Plains	14	439	808	9,821	3,827	2.79	22.36	7.80
Southern High Plains	7	220	290	2,824	1,525	2.00	12.86	5.97
Smoky Hills	29	910	1,657	20,082	3,883	2.76	22.07	8.41
South-Central Prairies	15	471	808	8,095	2,803	2.60	17.20	6.79
Flint Hills	5	157	186	2,479	2,829	1.80	15.80	6.40
Glaciated Plains	6	188	621	2,040	2,608	5.00	10.83	1.83
Osage Cuestas	4	126	166	1,945	1,561	2.00	15.50	7.25
County Unknown	1	31	NA	NA	NA	NA	NA	NA

\*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

<sup>a</sup> 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 northernbobwhite quail, 2011 - 2012 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	CI (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	1,410	59,153	186,161	339,495	27,944	4.57	5.74	1.27
Northern High Plains	188	7,887	24,843	39,058	9,347	4.57	4.95	1.13
Southern High Plains	76	3,188	8,358	9,565	3,882	3.80	3.00	0.93
Smoky Hills	545	22,864	68,600	131,186	16,695	4.35	5.74	1.26
South-Central Prairies	222	9,313	28,471	52,594	8,884	4.43	5.65	1.41
Flint Hills	203	8,516	33,490	66,621	15,708	5.70	7.82	1.42
Glaciated Plains	84	3,524	8,763	13,760	4,190	3.61	3.90	1.00
Osage Cuestas	76	3,188	11,771	23,410	5,497	5.36	7.34	1.58
County Unknown	16	671	771	895	1,754	1.67	1.33	0.43
<u>Residents</u>								
State	885	43,870	149,439	247,248	26,497	4.83	5.64	1.21
Northern High Plains	70	3,470	11,571	15,466	5,657	4.73	4.46	1.16
Southern High Plains	40	1,983	6,082	7,931	4,334	4.35	4.00	1.13
Smoky Hills	329	16,309	54,148	93,292	16,013	4.71	5.72	1.18
South-Central Prairies	158	7,832	24,379	37,115	7,834	4.41	4.74	1.20
Flint Hills	147	7,287	31,601	58,890	16,369	6.15	8.08	1.37
Glaciated Plains	70	3,470	8,774	12,740	4,299	3.59	3.67	0.94
Osage Cuestas	64	3,173	11,885	20,175	5,250	5.31	6.36	1.43
County Unknown	7	347	489	694	1,360	2.00	2.00	0.65
<u>Non-Residents</u>								
State	525	16,473	44,734	97,438	12,473	4.11	5.91	1.37
Northern High Plains	118	3,703	10,935	19,423	6,015	4.47	5.25	1.12
Southern High Plains	36	1,130	2,382	2,134	826	3.19	1.89	0.70
Smoky Hills	216	6,778	17,045	39,065	7,311	3.81	5.76	1.38
South-Central Prairies	64	2,008	5,944	15,814	4,246	4.48	7.88	1.91
Flint Hills	56	1,757	5,261	12,551	5,581	4.54	7.14	1.53
Glaciated Plains	14	439	1,077	2,228	1,580	3.71	5.07	1.27
Osage Cuestas	12	377	1,388	4,738	2,174	5.58	12.58	2.38
County Unknown	9	282	186	NA	NA	1.00	NA	NA

\*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

<sup>a</sup> 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 pheasant, 2011 - 2012 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	CI (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	2,220	93,135	294,556	475,170	28,584	4.59	5.10	1.19
Northern High Plains	600	25,172	87,168	188,366	20,460	5.02	7.48	1.52
Southern High Plains	199	8,349	24,336	35,386	5,711	4.23	4.24	1.13
Smoky Hills	872	36,583	113,879	172,932	15,161	4.52	4.73	1.11
South-Central Prairies	302	12,670	37,751	50,679	8,708	4.32	4.00	1.02
Flint Hills	138	5,789	21,653	16,331	3,182	5.43	2.82	0.79
Glaciated Plains	69	2,895	5,840	5,279	1,536	2.93	1.82	0.90
Osage Cuestas	17	713	1,417	1,342	687	2.88	1.88	1.02
County Unknown	23	965	2,348	4,087	1,766	3.53	4.24	1.24
<u>Residents</u>								
State	1,286	63,748	225,616	324,479	28,473	5.02	5.09	1.10
Northern High Plains	258	12,789	51,526	109,529	19,910	5.71	8.56	1.53
Southern High Plains	108	5,354	19,611	23,843	5,729	5.19	4.45	0.96
Smoky Hills	532	26,371	92,036	126,822	15,030	4.95	4.81	1.05
South-Central Prairies	210	10,410	32,580	42,333	9,681	4.44	4.07	1.00
Flint Hills	96	4,759	21,290	13,969	3,353	6.34	2.94	0.71
Glaciated Plains	58	2,875	5,833	4,893	1,545	2.88	1.70	0.93
Osage Cuestas	14	694	1,398	1,091	694	2.86	1.57	1.01
County Unknown	10	496	1,359	1,542	978	3.89	3.11	0.78
<u>Non-Residents</u>								
State	934	29,307	77,165	150,007	11,465	3.99	5.12	1.31
Northern High Plains	342	10,731	31,884	71,563	8,596	4.50	6.67	1.51
Southern High Plains	91	2,855	5,760	11,357	2,234	3.06	3.98	1.35
Smoky Hills	340	10,668	26,993	49,056	6,166	3.83	4.60	1.21
South-Central Prairies	92	2,887	7,726	11,103	2,184	4.05	3.85	1.07
Flint Hills	42	1,318	2,907	3,375	1,090	3.34	2.56	0.96
Glaciated Plains	11	345	725	847	608	3.18	2.45	0.73
Osage Cuestas	3	94	186	314	246	3.00	3.33	1.07
County Unknown	13	408	841	2,244	1,264	3.13	5.50	1.75

\*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

<sup>a</sup> 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, 2011 - 2012 regular season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	CI (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	109	4,573	9,949	4,321	2,377	3.16	0.94	0.30
Northern High Plains	31	1,301	2,776	336	289	3.10	0.26	0.12
Southern High Plains	NA	NA	NA	NA	NA	NA	NA	NA
Smoky Hills	49	2,056	4,743	2,895	2,263	3.35	1.41	0.39
South-Central Prairies	NA	NA	NA	NA	NA	NA	NA	NA
Flint Hills	26	1,091	2,227	965	573	2.96	0.88	0.33
Glaciated Plains	NA	NA	NA	NA	NA	NA	NA	NA
Osage Cuestas	3	126	202	126	142	2.33	1.00	0.47
County Unknown	NA	NA	NA	NA	NA	NA	NA	NA
<u>Residents</u>								
State	58	2,875	6,432	3,966	2,715	3.17	1.38	0.37
Northern High Plains	11	545	1,119	149	208	2.91	0.27	0.05
Southern High Plains	NA	NA	NA	NA	NA	NA	NA	NA
Smoky Hills	24	1,190	2,866	2,974	2,577	3.42	2.50	0.61
South-Central Prairies	NA	NA	NA	NA	NA	NA	NA	NA
Flint Hills	20	991	2,202	694	583	3.15	0.70	0.23
Glaciated Plains	NA	NA	NA	NA	NA	NA	NA	NA
Osage Cuestas	3	149	245	149	168	2.33	1.00	0.47
County Unknown	NA	NA	NA	NA	NA	NA	NA	NA
<u>Non-Residents</u>								
State	51	1,600	3,314	722	376	3.14	0.45	0.23
Northern High Plains	20	628	1,325	157	176	3.20	0.25	0.17
Southern High Plains	NA	NA	NA	NA	NA	NA	NA	NA
Smoky Hills	25	784	1,698	282	215	3.28	0.36	0.18
South-Central Prairies	NA	NA	NA	NA	NA	NA	NA	NA
Flint Hills	6	188	290	282	208	2.33	1.50	0.67
Glaciated Plains	NA	NA	NA	NA	NA	NA	NA	NA
Osage Cuestas	NA	NA	NA	NA	NA	NA	NA	NA
County Unknown	NA	NA	NA	NA	NA	NA	NA	NA

\*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

<sup>a</sup> 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 Greater Prairie Chicken, 2011 - 2012 early season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	CI (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	21	881	1,851	1,930	1,128	3.05	2.19	0.68
Northern High Plains	NA	NA	NA	NA	NA	NA	NA	NA
Southern High Plains	NA	NA	NA	NA	NA	NA	NA	NA
Smoky Hills	10	420	1,388	1,636	913	4.80	3.90	0.98
South-Central Prairies	NA	NA	NA	NA	NA	NA	NA	NA
Flint Hills	8	336	376	294	290	1.63	0.88	0.56
Glaciated Plains	2	84	58	0	0	1.00	0.00	0.00
Osage Cuestas	1	42	29	0	NA	1.00	0.00	0.00
County Unknown	NA	NA	NA	NA	NA	NA	NA	NA
<u>Residents</u>								
State	14	694	1,084	1,636	1,198	2.21	2.36	0.74
Smoky Hills	5	248	629	1,289	888	3.60	5.20	1.16
Flint Hills	6	297	350	347	316	1.67	1.17	0.75
Glaciated Plains	2	99	70	0	0	1.00	0.00	0.00
Osage Cuestas	1	50	35	0		1.00	0.00	0.00
<u>Non-Residents</u>								
State	7	220	683	408	403	4.71	1.86	0.57
Smoky Hills	5	157	621	408	359	6.00	2.60	0.80
Flint Hills	2	63	62	0	0	1.50	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

<sup>a</sup> 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 Lesser Prairie Chicken, 2011 - 2012 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	CI (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	12	503	1,041	378	324	3.00	0.75	0.31
<u>Residents</u>								
State	6	297	385	149	130	1.83	0.50	0.33
<u>Non-Residents</u>								
State	6	188	518	188	233	4.17	1.00	0.28

\*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

<sup>a</sup> 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 Woodcock, 2011 - 2012.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	CI (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	5	210	202	84	101	1.40	0.40	0.26
Smoky Hills	1	42	87	42	NA	3.00	1.00	0.30
Flint Hills	1	42	29	42	NA	1.00	1.00	1.00
Glaciated Plains	2	84	58	0	0	1.00	0.00	0.00
Osage Cuestas	1	42	29	0	NA	1.00	0.00	0.00
Northern High Plains	NA	NA	NA	NA	NA	NA	NA	NA
Southern High Plains	NA	NA	NA	NA	NA	NA	NA	NA
South-Central Prairies	NA	NA	NA	NA	NA	NA	NA	NA

\*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

<sup>a</sup> 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 cottontail, 2011 - 2012 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	CI (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	357	14,977	48,847	71,068	11,702	4.73	4.75	1.24
Northern High Plains	29	1,217	2,950	4,363	2,873	3.52	3.59	1.05
Southern High Plains	23	965	4,888	9,313	5,453	7.35	9.65	1.69
Smoky Hills	86	3,608	11,858	19,382	4,433	4.77	5.37	1.41
South-Central Prairies	47	1,972	5,437	5,286	1,642	4.00	2.68	0.96
Flint Hills	52	2,182	8,965	8,349	2,504	5.96	3.83	0.96
Glaciated Plains	42	1,762	5,119	5,748	2,513	4.21	3.26	0.91
Osage Cuestas	76	3,188	9,515	18,082	7,691	4.33	5.67	1.50
County Unknown	2	84	116	545	904	2.00	6.50	2.50
<u>Residents</u>								
State	305	15,119	52,785	72,422	11,115	4.95	4.79	1.24
Northern High Plains	18	892	2,482	4,412	3,250	3.94	4.94	1.25
Southern High Plains	18	892	5,209	9,914	6,305	8.28	11.11	1.69
Smoky Hills	64	3,173	11,815	19,828	4,875	5.28	6.25	1.52
South-Central Prairies	42	2,082	5,768	5,155	1,447	3.93	2.48	1.00
Flint Hills	48	2,379	10,382	9,171	2,913	6.19	3.85	0.89
Glaciated Plains	42	2,082	6,187	6,791	2,970	4.21	3.26	0.91
Osage Cuestas	71	3,520	10,802	16,507	4,626	4.35	4.69	1.42
County Unknown	2	99	140	644	1,069	2.00	6.50	2.50
<u>Non-Residents</u>								
State	52	1,632	3,707	7,311	5,251	3.44	4.48	1.23
Northern High Plains	11	345	642	471	379	2.82	1.36	0.73
Southern High Plains	5	157	414	690	502	4.00	4.40	1.68
Smoky Hills	22	690	1,491	1,945	893	3.27	2.82	1.10
South-Central Prairies	5	157	476	690	862	4.60	4.40	0.58
Flint Hills	4	126	269	439	382	3.25	3.50	1.75
Glaciated Plains	NA	NA	NA	NA	NA	NA	NA	NA
Osage Cuestas	5	157	414	3,075	5,034	4.00	19.60	2.70
County Unknown	NA	NA	NA	NA	NA	NA	NA	NA

\*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

<sup>a</sup> 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. All hunter activity for jackrabbit, 2011 - 2012 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	CI (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	74	3,104	12,176	22,361	10,718	5.69	7.20	1.42
Northern High Plains	16	671	2,256	2,475	1,610	4.88	3.69	0.83
Southern High Plains	26	1,091	5,206	15,355	9,854	6.92	14.08	2.20
Smoky Hills	20	839	3,644	3,566	2,063	6.30	4.25	1.13
South-Central Prairies	8	336	839	755	606	3.63	2.25	1.09
Flint Hills	1	42	116	0	NA	4.00	0.00	0.00
Glaciated Plains	1	42	29	0	NA	1.00	0.00	0.00
Osage Cuestas	1	42	29	84	NA	1.00	2.00	2.00
County Unknown	1	42	58	126	NA	2.00	3.00	1.50
<u>Residents</u>								
State	60	2,974	13,319	24,290	12,521	6.35	8.17	1.45
Northern High Plains	11	545	2,167	2,826	1,704	5.64	5.18	1.09
Southern High Plains	22	1,091	5,943	17,151	11,502	7.73	15.73	2.25
Smoky Hills	16	793	4,090	3,420	2,386	7.31	4.31	0.91
South-Central Prairies	7	347	839	644	654	3.43	1.86	1.10
Flint Hills	1	50	140	0	NA	4.00	0.00	0.00
Glaciated Plains	1	50	35	0	NA	1.00	0.00	0.00
Osage Cuestas	1	50	35	99	NA	1.00	2.00	2.00
County Unknown	1	50	70	149	NA	2.00	3.00	1.50
<u>Non-Residents</u>								
State	14	439	828	1,349	736	2.86	3.07	1.28
Northern High Plains	5	157	331	63	75	3.20	0.40	0.26
Southern High Plains	4	126	207	628	460	2.50	5.00	1.90
Smoky Hills	4	126	186	502	402	2.25	4.00	2.00
South-Central Prairies	1	31	104	157	NA	5.00	5.00	1.00
Glaciated Plains	NA	NA	NA	NA	NA	NA	NA	NA
Flint Hills	NA	NA	NA	NA	NA	NA	NA	NA
Osage Cuestas	NA	NA	NA	NA	NA	NA	NA	NA

\*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

<sup>a</sup> 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 18. All hunter activity for squirrel, 2011 - 2012 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	CI (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	271	11,369	43,368	70,699	12,909	5.53	6.22	1.24
Northern High Plains	2	84	318	461	82	5.50	5.50	1.10
Southern High Plains	1	42	578	839		20.00	20.00	1.00
Smoky Hills	25	1,049	3,152	3,608	1,720	4.36	3.44	1.00
South-Central Prairies	30	1,259	2,632	3,021	943	3.03	2.40	0.97
Flint Hills	50	2,098	10,845	14,641	6,201	7.50	6.98	1.08
Glaciated Plains	72	3,021	11,366	20,305	9,282	5.46	6.72	1.28
Osage Cuestas	90	3,776	14,316	27,563	5,678	5.50	7.30	1.48
County Unknown	1	42	NA	NA	NA	NA	NA	NA
<u>Residents</u>								
State	260	12,888	51,269	81,659	15,177	5.64	6.34	1.24
Northern High Plains	2	99	385	545	97	5.50	5.50	1.10
Southern High Plains	1	50	699	991		20.00	20.00	1.00
Smoky Hills	21	1,041	3,391	3,966	1,984	4.62	3.81	1.08
South-Central Prairies	30	1,487	3,181	3,569	1,115	3.03	2.40	0.97
Flint Hills	48	2,379	12,794	16,854	7,313	7.63	7.08	1.07
Glaciated Plains	72	3,569	13,738	23,992	10,967	5.46	6.72	1.28
Osage Cuestas	85	4,213	16,884	31,428	6,595	5.68	7.46	1.44
County Unknown	1	50	NA	NA	NA	NA	NA	NA
<u>Non-Residents</u>								
State	11	345	683	1,192	828	3.00	3.45	1.43
Northern High Plains	NA	NA	NA	NA	NA	NA	NA	NA
Southern High Plains	NA	NA	NA	NA	NA	NA	NA	NA
Smoky Hills	4	126	249	188	159	3.00	1.50	0.58
South-Central Prairies	NA	NA	NA	NA	NA	NA	NA	NA
Flint Hills	2	63	186	282	308	4.50	4.50	1.30
Glaciated Plains	NA	NA	NA	NA	NA	NA	NA	NA
Osage Cuestas	5	157	249	722	763	2.40	4.60	2.16
County Unknown	NA	NA	NA	NA	NA	NA	NA	NA

\*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

<sup>a</sup> 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 19. Mean number of Upland Game hunting days and the proportion that occurred on Public Land.

Year	Sample <sup>a</sup> 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	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 <sup>c</sup>	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
2011	2,951	6.58	1.44	21.88

<sup>a</sup> Hunters reporting some small game activity. Values from 1980-2005 are for Resident hunters only.

<sup>b</sup> 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.

<sup>c</sup> 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 20. Number and percent of non-residents respondents by state of residence  
2011 - 2012.

State	Number	Percent	State	Number	Percent
Colorado	351	15.64	South Carolina	22	0.98
Texas	293	13.06	Arizona	21	0.94
Missouri	229	10.20	Utah	21	0.94
Oklahoma	184	8.20	Virginia	20	0.89
Arkansas	160	7.13	New Jersey	15	0.67
Minnesota	70	3.12	Wyoming	13	0.58
Louisiana	68	3.03	Alaska	10	0.45
Georgia	52	2.32	South Dakota	10	0.45
Nebraska	50	2.23	Maryland	9	0.40
Michigan	49	2.18	Montana	8	0.36
Wisconsin	48	2.14	Washington	8	0.36
Alabama	45	2.01	Oregon	6	0.27
Mississippi	45	2.01	Vermont	6	0.27
North Carolina	45	2.01	Canada	5	0.22
Illinois	42	1.87	Massachusetts	5	0.22
Pennsylvania	38	1.69	West Virginia	5	0.22
Tennessee	38	1.69	Idaho	4	0.18
Florida	36	1.60	Maine	4	0.18
Iowa	35	1.56	Connecticut	3	0.13
New Mexico	31	1.38	Nevada	3	0.13
New York	28	1.25	North Dakota	3	0.13
Kentucky	27	1.20	Delaware	1	0.04
Ohio	27	1.20	New Hampshire	1	0.04
California	25	1.11	Hawaii	0	0.00
Indiana	23	1.02	Rhode Island	0	0.00

Table 21. Regional breakdown of hunting activity as indicated by sample sizes for the 2011 - 2012 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	<sup>a</sup> Greater Prairie Chicken (Regular)	<sup>a</sup> Lesser Prairie Chicken	Cottontail	Jackrabbit	Squirrel
<u>All Hunters (Resident and Non-Resident)</u>								
State	916 ( 33)	1410 ( 50)	2220 ( 79)	109 ( 4)	12 ( 0)	357 ( 13)	74 ( 3)	271 ( 10)
Flint Hills	140 ( 15)	203 ( 14)	138 ( 6)	26 ( 24)	NA	52 ( 15)	1 ( 1)	50 ( 18)
Glaciated Plains	98 ( 11)	84 ( 6)	69 ( 3)	NA	NA	42 ( 12)	1 ( 1)	72 ( 27)
Northern High Plains	68 ( 7)	188 ( 13)	600 ( 27)	31 ( 28)	2 ( 17)	29 ( 8)	16 ( 22)	2 ( 1)
Osage Cuestas	105 ( 11)	76 ( 5)	17 ( 1)	3 ( 3)	NA	76 ( 21)	1 ( 1)	90 ( 33)
Smoky Hills	270 ( 29)	545 ( 39)	872 ( 39)	49 ( 45)	3 ( 25)	86 ( 24)	20 ( 27)	25 ( 9)
South-Central Prairies	168 ( 18)	222 ( 16)	302 ( 14)	NA	5 ( 42)	47 ( 13)	8 ( 11)	30 ( 11)
Southern High Plains	62 ( 7)	76 ( 5)	199 ( 9)	NA	2 ( 17)	23 ( 6)	26 ( 35)	1 ( 0)
Unknown County	5 ( 1)	16 ( 1)	23 ( 1)	NA	NA	2 ( 1)	1 ( 1)	1 ( 0)
<u>Residents</u>								
State	835 ( 47)	885 ( 50)	1286 ( 73)	58 ( 3)	6 ( 0)	305 ( 17)	60 ( 3)	260 ( 15)
Flint Hills	135 ( 16)	147 ( 17)	96 ( 7)	20 ( 34)	NA	48 ( 16)	1 ( 2)	48 ( 18)
Glaciated Plains	92 ( 11)	70 ( 8)	58 ( 5)	NA	NA	42 ( 14)	1 ( 2)	72 ( 28)
Northern High Plains	54 ( 6)	70 ( 8)	258 ( 20)	11 ( 19)	1 ( 17)	18 ( 6)	11 ( 18)	2 ( 1)
Osage Cuestas	101 ( 12)	64 ( 7)	14 ( 1)	3 ( 5)	NA	71 ( 23)	1 ( 2)	85 ( 33)
Smoky Hills	241 ( 29)	329 ( 37)	532 ( 41)	24 ( 41)	2 ( 33)	64 ( 21)	16 ( 27)	21 ( 8)
South-Central Prairies	153 ( 18)	158 ( 18)	210 ( 16)	NA	2 ( 33)	42 ( 14)	7 ( 12)	30 ( 12)
Southern High Plains	55 ( 7)	40 ( 5)	108 ( 8)	NA	1 ( 17)	18 ( 6)	22 ( 37)	1 ( 0)
Unknown County	4 ( 0)	7 ( 1)	10 ( 1)	NA	NA	2 ( 1)	1 ( 2)	1 ( 0)
<u>Non-Residents</u>								
State	81 ( 8)	525 ( 51)	934 ( 91)	51 ( 5)	6 ( 1)	52 ( 5)	14 ( 1)	11 ( 1)
Flint Hills	5 ( 6)	56 ( 11)	42 ( 4)	6 ( 12)	NA	4 ( 8)	NA	2 ( 18)
Glaciated Plains	6 ( 7)	14 ( 3)	11 ( 1)	NA	NA	NA	NA	NA
Northern High Plains	14 ( 17)	118 ( 22)	342 ( 37)	20 ( 39)	1 ( 17)	11 ( 21)	5 ( 36)	NA
Osage Cuestas	4 ( 5)	12 ( 2)	3 ( 0)	NA	NA	5 ( 10)	NA	5 ( 45)
Smoky Hills	29 ( 36)	216 ( 41)	340 ( 36)	25 ( 49)	1 ( 17)	22 ( 42)	4 ( 29)	4 ( 36)
South-Central Prairies	15 ( 19)	64 ( 12)	92 ( 10)	NA	3 ( 50)	5 ( 10)	1 ( 7)	NA
Southern High Plains	7 ( 9)	36 ( 7)	91 ( 10)	NA	1 ( 17)	5 ( 10)	4 ( 29)	NA
Unknown County	1 ( 1)	9 ( 2)	13 ( 1)	NA	NA	NA	NA	NA

\*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

<sup>a</sup> Prairie Chickens were calculated by historic counties dominated by either species (see introduction for list of counties).

## Prairie Dog Hunter Activity Tables

Table 22. All hunter activity for prairie dog, 2011 - 2012 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	CI (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	171	7,174	18,307	161,164	35,883	3.70	22.47	9.00
Northern High Plains	55	2,307	4,396	50,763	22,317	2.76	22.00	9.17
Southern High Plains	55	2,307	8,965	49,224	19,333	5.64	21.33	8.06
Smoky Hills	31	1,301	2,256	36,960	15,972	2.52	28.42	12.64
South-Central Prairies	26	1,091	2,429	19,198	11,913	3.23	17.60	5.64
County Unknown	4	168	260	4,405	5,476	2.25	26.25	10.75
<u>Residents</u>								
State	133	6,593	19,016	125,693	32,080	4.09	19.07	6.72
Northern High Plains	41	2,032	4,300	45,568	22,004	3.00	22.42	8.66
Southern High Plains	45	2,231	9,998	38,493	16,620	6.36	17.26	4.57
Smoky Hills	24	1,190	2,132	28,751	14,577	2.54	24.17	10.15
South-Central Prairies	21	1,041	2,412	11,295	6,461	3.29	10.85	3.25
County Unknown	2	99	175	1,140	1,652	2.50	11.50	5.50
<u>Non-Residents</u>								
State	38	1,192	1,843	40,640	16,765	2.34	34.08	16.78
Northern High Plains	14	439	601	9,124	9,544	2.07	20.77	10.68
Southern High Plains	10	314	497	12,237	9,269	2.40	39.00	23.22
Smoky Hills	7	220	352	9,445	7,579	2.43	43.00	21.19
South-Central Prairies	5	157	311	6,997	6,966	3.00	44.60	15.22
County Unknown	2	63	83	2,573	4,182	2.00	41.00	16.00

\*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

<sup>a</sup> 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, 2011 - 2012 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	CI (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	623	26,136	212,817	105,219	20,621	11.81	4.03	0.49
Northern High Plains	63	2,643	7,086	4,825	2,355	3.89	1.83	0.50
Southern High Plains	41	1,720	8,792	10,656	7,897	7.41	6.20	0.73
Smoky Hills	140	5,873	56,222	21,731	8,968	13.89	3.70	0.48
South-Central Prairies	92	3,860	33,288	11,705	3,947	12.51	3.03	0.63
Flint Hills	123	5,160	45,059	26,724	9,191	12.67	5.18	0.48
Glaciated Plains	74	3,104	26,983	10,824	5,916	12.61	3.49	0.32
Osage Cuestas	85	3,566	34,069	17,662	11,712	13.86	4.95	0.36
County Unknown	5	210	1,060	1,259	1,444	7.33	6.00	1.13
<u>Residents</u>								
State	534	26,471	234,634	116,879	24,160	12.57	4.42	0.47
Northern High Plains	43	2,132	6,852	4,858	2,686	4.56	2.28	0.57
Southern High Plains	32	1,586	9,963	11,550	9,211	8.91	7.28	0.60
Smoky Hills	119	5,899	65,404	24,587	10,502	15.72	4.17	0.51
South-Central Prairies	81	4,015	38,313	12,194	4,542	13.53	3.04	0.58
Flint Hills	106	5,254	52,610	29,841	10,738	14.20	5.68	0.45
Glaciated Plains	72	3,569	32,475	12,789	6,974	12.90	3.58	0.33
Osage Cuestas	77	3,817	27,406	19,828	13,801	10.18	5.19	0.35
County Unknown	4	198	1,468	1,586	1,943	10.50	8.00	0.70
<u>Non-Residents</u>								
State	89	2,793	13,421	4,738	1,475	7.28	1.70	0.59
Northern High Plains	20	628	1,015	533	360	2.45	0.85	0.38
Southern High Plains	9	282	394	659	715	2.11	2.33	1.19
Smoky Hills	21	659	1,512	690	441	3.48	1.05	0.30
South-Central Prairies	11	345	1,139	1,035	707	5.00	3.00	0.98
Flint Hills	17	533	1,098	1,098	637	3.12	2.06	0.66
Glaciated Plains	2	63	83	0	0	2.00	0.00	0.00
Osage Cuestas	8	251	8,160	659	609	49.25	2.63	0.45
County Unknown	1	31	21	63		1.00	2.00	2.00

\*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

<sup>a</sup> 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, 2011 - 2012 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	CI (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	497	20,850	139,803	67,166	13,871	9.73	3.22	0.48
Northern High Plains	51	2,140	4,627	3,902	2,282	3.14	1.82	0.53
Southern High Plains	37	1,552	7,490	9,901	7,880	7.00	6.38	0.76
Smoky Hills	113	4,741	29,817	15,732	6,532	9.12	3.32	0.48
South-Central Prairies	69	2,895	29,557	8,894	3,571	14.81	3.07	0.63
Flint Hills	103	4,321	22,067	14,474	4,697	7.41	3.35	0.44
Glaciated Plains	55	2,307	22,327	6,545	3,461	14.04	2.84	0.30
Osage Cuestas	66	2,769	23,281	6,964	5,867	12.20	2.52	0.33
County Unknown	3	126	636	755	866	7.33	6.00	1.13
<u>Residents</u>								
State	413	20,473	146,993	72,472	16,166	10.18	3.54	0.46
Northern High Plains	32	1,586	3,985	3,767	2,607	3.56	2.38	0.61
Southern High Plains	28	1,388	8,390	10,658	9,186	8.57	7.68	0.63
Smoky Hills	92	4,560	33,489	17,498	7,613	10.41	3.84	0.52
South-Central Prairies	58	2,875	33,803	8,873	4,087	16.67	3.09	0.57
Flint Hills	89	4,412	25,239	15,962	5,450	8.11	3.62	0.42
Glaciated Plains	53	2,627	26,847	7,733	4,071	14.49	2.94	0.32
Osage Cuestas	59	2,925	14,507	7,188	6,884	7.03	2.46	0.31
County Unknown	2	99	734	793	972	10.50	8.00	0.70
<u>Non-Residents</u>								
State	84	2,636	13,027	4,362	1,428	7.49	1.65	0.58
Northern High Plains	19	596	953	533	356	2.42	0.89	0.39
Southern High Plains	9	282	394	659	715	2.11	2.33	1.19
Smoky Hills	21	659	1,512	690	441	3.48	1.05	0.30
South-Central Prairies	11	345	1,139	1,035	707	5.00	3.00	0.98
Flint Hills	14	439	849	722	546	2.93	1.64	0.58
Glaciated Plains	2	63	83	0	0	2.00	0.00	0.00
Osage Cuestas	7	220	8,077	659	587	55.71	3.00	0.51
County Unknown	1	31	21	63		1.00	2.00	2.00

\*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

<sup>a</sup> 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, 2011 - 2012 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	CI (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<sup>a</sup> All Hunters (Resident)								
State	126	5,286	73,498	38,324	15,095	20.17	7.25	0.50
Northern High Plains	12	503	2,458	923	617	7.08	1.83	0.41
Southern High Plains	4	168	1,301	755	678	11.25	4.50	0.40
Smoky Hills	27	1,133	26,405	5,999	6,197	33.81	5.30	0.45
South-Central Prairies	23	965	3,731	2,811	1,723	5.61	2.91	0.63
Flint Hills	20	839	22,992	12,250	7,079	39.75	14.60	0.67
Glaciated Plains	19	797	4,656	4,279	4,836	8.47	5.37	0.38
Osage Cuestas	19	797	10,787	10,698	9,735	19.63	13.42	0.46
County Unknown	2	84	NA	NA	NA	NA	NA	NA

<sup>a</sup> Non-residents respondents generally do not purchase a furharvester license

<sup>b</sup> 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, 2011 special early season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	CI (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	116	4,867	8,580	28,444	4,956	2.56	5.84	2.29
Northern High Plains	3	126	231	1,133	889	2.67	9.00	3.17
Southern High Plains	3	126	260	671	329	3.00	5.33	1.90
Smoky Hills	30	1,259	2,285	8,432	2,282	2.63	6.70	2.53
South-Central Prairies	28	1,175	1,919	5,915	1,664	2.37	5.04	2.26
Flint Hills	18	755	1,225	5,160	2,315	2.35	6.83	3.19
Glaciated Plains	12	503	1,273	4,153	2,869	3.67	8.25	1.85
Osage Cuestas	22	923	1,363	2,979	1,190	2.14	3.23	1.42
County Unknown	NA	NA	NA	NA	NA	NA	NA	NA
<u>Residents</u>								
State	103	5,106	9,072	30,535	5,748	2.52	5.98	2.29
Northern High Plains	3	149	280	1,338	1,051	2.67	9.00	3.17
Southern High Plains	3	149	315	793	389	3.00	5.33	1.90
Smoky Hills	26	1,289	2,342	9,319	2,512	2.58	7.23	2.66
South-Central Prairies	25	1,239	2,062	6,543	1,900	2.36	5.28	2.28
Flint Hills	17	843	1,449	5,849	2,733	2.44	6.94	3.08
Glaciated Plains	10	496	1,223	4,263	3,410	3.50	8.60	1.78
Osage Cuestas	19	942	1,398	2,429	1,132	2.11	2.58	1.29
County Unknown	NA	NA	NA	NA	NA	NA	NA	NA
<u>Non-Residents</u>								
State	13	408	783	1,945	696	2.91	4.77	2.29
Smoky Hills	4	126	249	408	486	3.00	3.25	1.70
South-Central Prairies	3	94	155	282	282	2.50	3.00	1.90
Flint Hills	1	31	21	157	NA	1.00	5.00	5.00
Glaciated Plains	2	63	186	408	62	4.50	6.50	2.20
Osage Cuestas	3	94	155	690	268	2.50	7.33	2.60
County Unknown	NA	NA	NA	NA	NA	NA	NA	NA

\*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

<sup>a</sup> 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, 2011 - 2012 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	CI (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	517	21,689	116,406	366,330	49,861	7.79	16.89	1.97
Northern High Plains	16	671	1,764	5,622	2,625	3.81	8.38	2.01
Southern High Plains	8	336	2,400	3,063	2,140	10.38	9.13	1.80
Smoky Hills	119	4,992	20,794	74,382	17,688	6.04	14.90	2.41
South-Central Prairies	104	4,363	20,968	72,578	19,936	6.97	16.63	2.04
Flint Hills	77	3,230	18,741	53,909	15,494	8.42	16.69	1.89
Glaciated Plains	61	2,559	14,374	39,352	17,869	8.15	15.38	1.53
Osage Cuestas	131	5,496	37,337	117,341	34,506	9.85	21.35	1.79
County Unknown	1	42	29	84	NA	1.00	2.00	2.00
<u>Residents</u>								
State	398	19,729	118,573	356,610	56,471	8.52	18.08	1.85
Northern High Plains	7	347	1,049	4,065	2,616	4.29	11.71	2.46
Southern High Plains	6	297	2,727	3,073	2,421	13.00	10.33	1.77
Smoky Hills	74	3,668	16,989	58,939	18,014	6.57	16.07	2.27
South-Central Prairies	88	4,362	22,687	74,405	22,938	7.38	17.06	1.98
Flint Hills	63	3,123	19,751	55,073	17,161	8.97	17.63	1.82
Glaciated Plains	54	2,677	16,325	43,374	20,961	8.65	16.20	1.42
Osage Cuestas	105	5,205	39,012	117,581	39,870	10.63	22.59	1.63
County Unknown	1	50	35	99	NA	1.00	2.00	2.00
<u>Non-Residents</u>								
State	119	3,734	13,110	48,259	10,258	5.32	12.92	2.40
Northern High Plains	9	282	642	1,632	912	3.44	5.78	1.67
Southern High Plains	2	63	104	345	554	2.50	5.50	1.90
Smoky Hills	45	1,412	4,826	18,325	6,729	5.18	12.98	2.63
South-Central Prairies	16	502	1,574	7,186	3,482	4.75	14.31	2.38
Flint Hills	14	439	1,719	5,460	4,053	5.93	12.43	2.21
Glaciated Plains	7	220	621	1,977	1,403	4.29	9.00	2.33
Osage Cuestas	26	816	3,624	13,336	5,301	6.73	16.35	2.41
County Unknown	NA	NA	NA	NA	NA	NA	NA	NA

\*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

<sup>a</sup> 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 species, 2011 - 2012 season.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	CI (+/-)	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
<u>All Hunters (Resident and Non-Resident)</u>								
State	409	17,159	76,099	154,935	29,099	6.43	9.03	1.31
Northern High Plains	9	378	1,475	2,182	2,052	5.67	5.78	0.85
Southern High Plains	11	461	2,776	4,489	5,891	8.73	9.73	0.59
Smoky Hills	98	4,111	17,613	37,841	11,652	6.21	9.20	1.43
South-Central Prairies	84	3,524	14,027	32,849	16,269	5.77	9.32	1.39
Flint Hills	73	3,063	14,779	23,703	7,888	7.00	7.74	1.13
Glaciated Plains	61	2,559	12,205	20,683	8,333	6.92	8.08	1.20
Osage Cuestas	67	2,811	11,539	28,528	15,522	5.96	10.15	1.50
County Unknown	6	252	2,256	7,048	12,088	13.00	28.00	1.90
<u>Residents</u>								
State	334	16,557	80,744	162,972	33,309	6.92	9.84	1.33
Northern High Plains	5	248	1,433	2,082	2,323	8.20	8.40	0.92
Southern High Plains	9	446	3,146	5,155	6,910	10.00	11.56	0.61
Smoky Hills	69	3,420	16,500	39,309	13,076	6.84	11.49	1.63
South-Central Prairies	71	3,520	15,661	35,542	18,974	6.31	10.10	1.39
Flint Hills	60	2,974	16,010	24,290	8,962	7.63	8.17	1.15
Glaciated Plains	57	2,826	14,507	23,992	9,779	7.28	8.49	1.18
Osage Cuestas	58	2,875	11,641	27,462	17,520	5.74	9.55	1.33
County Unknown	5	248	2,272	6,940	11,903	13.00	28.00	1.90
<u>Non-Residents</u>								
State	75	2,353	6,633	12,657	4,909	4.27	5.38	1.26
Northern High Plains	4	126	207	314	310	2.50	2.50	0.73
Southern High Plains	2	63	124	94	185	3.00	1.50	0.50
Smoky Hills	29	910	2,837	3,420	1,776	4.72	3.76	0.97
South-Central Prairies	13	408	766	2,071	1,809	2.85	5.08	1.35
Flint Hills	13	408	1,098	2,353	1,630	4.08	5.77	1.05
Glaciated Plains	4	126	145	282	118	1.75	2.25	1.50
Osage Cuestas	9	282	1,367	3,954	3,567	7.33	14.00	2.58
County Unknown	1	31	NA	NA	NA	NA	NA	NA

\*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

<sup>a</sup> 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