

# ***SMALL GAME HUNTER ACTIVITY SURVEY – 2006***

**STATEWIDE WILDLIFE RESEARCH AND SURVEYS  
PERFORMANCE REPORT  
for the period  
July 1, 2006 to June 30, 2007**

**A Contribution of Pittman-Robertson Funds  
Federal Aid in Wildlife Restoration**

**Grant W-39-R-13**

**Kansas Department of Wildlife and Parks**

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**December 2007**



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## **ABSTRACT**

*Samples of 11,617 Kansas resident and 6,486 non-resident hunting and combination license buyers were selected from all 2006 electronic license buyers. The electronic Kansas Outdoors Automated Licensing System (KOALS) was initiated in August of 2005, so 2006 was the first full calendar year of it's operation. Each individual was asked to complete an on-line questionnaire about their hunting activity in Kansas for the 2006-2007 seasons. Hunters who did not have internet access were offered an opportunity to complete a paper survey. From the 17,911 deliverable postcards, 3,065 usable responses (1,706 residents, 1,359 non-residents) were obtained and 2,383 indicated hunting in Kansas during the 2006-2007 small game seasons (1,357 residents, 1,026 non-residents).*

*About 161,000 active licensed hunters harvested an estimated 1,038,000 mourning doves, 600,000 quail, 774,000 pheasants, 6,300 greater prairie chickens, 340 lesser prairie chickens, 169,000 cottontails, 58,000 jackrabbits, and 105,000 squirrels.*

## **SMALL GAME HUNTER ACTIVITY SURVEY - 2006**

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

**Procedure:** *Random samples of 11,617 Kansas resident and 6,486 non-resident hunting- and combination-license buyers were selected from 2006 electronic license buyers from all Kansas counties. The electronic Kansas Outdoors Automated Licensing System (KOALS) was initiated in August 2005, so 2006 was the first full calendar year of it's operation. Each individual was notified by postcard in March (see note below) of their selection for the survey and asked to complete an on-line questionnaire of their hunting activity for the 2006-2007 seasons. Hunters who did not have internet access were offered an opportunity to complete a paper survey. After approximately 6 weeks, non-respondents were mailed a second postcard notification requesting their participation in this survey. Note: Due to difficulties in initial development of the on-line questionnaire, initiation of the 2006 survey notification was sent about 6 weeks later than the normal early February start.*

**Results:** *From the 17,911 deliverable postcards, 3,065 usable responses (1,706 residents, 1,359 non-residents) were obtained and 2,383 indicated hunting small game during the 2005-2006 seasons (1,357 residents, 1,026 non-residents). Based on these values, 79.5% and 75.5% of resident and non-resident hunters, respectively, hunted small game in Kansas. Female hunters accounted for 5.2% of the resident responses and 2.5% of the non-resident responses.*

*Hunting license sales totaled 170,308 in 2006, a decrease of 1.54% compared to 2005 sales of 172,985. Resident license sales decreased 5.87% from 116,196 in 2005 to 109,376 in 2006. Non-resident license sales increased 7.30% from 56,789 in 2005 to 60,932 in 2006. Lifetime license holders numbered 35,340 during 2006.*

*Using the small game participation percentages previously noted (residents = 79.5%, non-residents = 75.5%), it was estimated that about 86,998 resident and 46,004 non-resident license buyers hunted small game in Kansas during the 2006-2007 seasons. The resident percentage was applied to lifetime license holders yielding an estimated 28,109 additional active hunters.*

*Long-term harvest estimates and hunter success indices are presented by species in tables 1 through 7. Tables 8 through 16 (a = all hunters, b = residents, c = non-residents) present regional harvest and hunter success indices for each species during the 2006-2007 seasons. Table 17 indicates the proportion of Kansas small game hunting that occurred on public land. Tables 18(a,b) and 19 present age and county-of-residence, respectively, for survey respondents. Relative small game hunting participation and harvest estimates by species are shown in tables 20a and 20b for residents and non-residents, respectively.*

*A summary of the 2006 small game hunting season regulations and a copy of the 2006 small game harvest questionnaire follow.*

**2006**

**SMALL GAME HUNTING SEASONS, BAG LIMITS, AND POSSESSION LIMITS**

<b>MOURNING DOVE</b>	<i>September 1 through October 14 and November 1 through 16 Daily bag = 15, Possession = 30</i>
<b>QUAIL</b>	<i>November 11 through January 21, 2007 Daily bag = 8, Possession = 32</i>
<b>PHEASANT</b>	<i>November 4 through January 31, 2007 Daily bag = 4 cocks, Possession = 16 cocks</i>
<b>PRAIRIE CHICKEN</b>	<i>September 15 through October 15 east of U.S. 281 (East Unit) and November 18 through January 31, 2007 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 18 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>
<b>COTTONTAIL &amp; JACKRABBIT</b>	<i>Season open all year Daily bag = 10, Possession = 30</i>
<b>SQUIRREL</b>	<i>June 1 through February 28, 2006 Daily bag = 5, Possession = 20</i>

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

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**Note:** Please return within 14 days. If you receive a 2nd questionnaire after returning this one, you may disregard it.

## 2006 Kansas Small Game Hunter Survey

Dear Kansas Sportsman:

We need your help in obtaining information about the 2006-2007 Kansas hunting season. Please take a couple of minutes to give your answers as accurately as you can, then staple or tape the form to show our return address and drop it in the mail. Your answers should pertain ONLY to hunting in Kansas. You need not answer questions in a shaded box IF you checked "NO" on the question just above it. Answer questions which ask "how many" with a number, even if it's a "0". Responses such as "a lot" or "a limit" can not be used.

If you need other information, please request it separately, or visit our website at [www.kdwp.state.ks.us](http://www.kdwp.state.ks.us). Thanks for your time.

**Joe Kramer, Director of Fisheries and Wildlife Division**

Please state your Age \_\_\_\_\_, Sex \_\_\_\_\_ and County of Residence \_\_\_\_\_.

- Did you buy a 2006 Kansas Hunting License or hold a Kansas Lifetime Hunting License? ..... YES  NO   
Did you buy a 2006 Kansas Furharvester License? ..... YES  NO   
Did you buy a 2006 Federal Duck Stamp? ..... YES  NO   
Did you buy a 2006 Kansas Duck Stamp? ..... YES  NO

### UPLAND GAME

Did you hunt MOURNING DOVES this season? ..... YES  NO

If you checked YES: In what county did you hunt mourning doves most? \_\_\_\_\_

How many days did you hunt mourning doves? \_\_\_\_\_ How many doves did you bag? \_\_\_\_\_

Did you hunt QUAIL this season? ..... YES  NO

If you checked YES: In what county did you hunt quail most? \_\_\_\_\_

How many days did you hunt quail? \_\_\_\_\_ How many quail did you bag? \_\_\_\_\_

Did you hunt PHEASANTS this season? ..... YES  NO

If you checked YES: In what county did you hunt pheasants most? \_\_\_\_\_

How many days did you hunt pheasants? \_\_\_\_\_ How many pheasants did you bag? \_\_\_\_\_

Did you hunt PRAIRIE CHICKENS during the REGULAR seasons (Nov, Dec, Jan)? ..... YES  NO

If you checked YES: In what county did you hunt prairie chickens most? \_\_\_\_\_

How many days did you hunt prairie chickens? \_\_\_\_\_ How many prairie chickens did you bag? \_\_\_\_\_

Did you hunt PRAIRIE CHICKENS during the EARLY season (Sept. 15 - Oct. 15)? ..... YES  NO

If you checked YES: In what county did you hunt prairie chickens most? \_\_\_\_\_

How many days did you hunt prairie chickens? \_\_\_\_\_ How many prairie chickens did you bag? \_\_\_\_\_

Did you hunt COTTONTAILS this season? ..... YES  NO

If you checked YES: In what county did you hunt cottontails most? \_\_\_\_\_

How many days did you hunt cottontails? \_\_\_\_\_ How many cottontails did you bag? \_\_\_\_\_

Did you hunt JACKRABBITS this season? ..... YES  NO

If you checked YES: In what county did you hunt jackrabbits most? \_\_\_\_\_

How many days did you hunt jackrabbits? \_\_\_\_\_ How many jackrabbits did you bag? \_\_\_\_\_

Did you hunt SQUIRRELS this season? ..... YES  NO

If you checked YES: In what county did you hunt squirrels most? \_\_\_\_\_

How many days did you hunt squirrels? \_\_\_\_\_ How many squirrels did you bag? \_\_\_\_\_

How many of the squirrels you bagged were: Fox (Red) squirrels? \_\_\_\_\_ or Gray squirrels? \_\_\_\_\_

How many days did you hunt these upland species? \_\_\_\_\_ How many of these days did you hunt on public land (not WIHA)? \_\_\_\_\_

How many days did you hunt QUAIL in Kansas during each of the following periods of the 2006-2007 season? .....

Nov. 11-30 \_\_\_\_\_ Dec. 1-15 \_\_\_\_\_ Dec. 16-31 \_\_\_\_\_ Jan. 1-21 \_\_\_\_\_



**WATERFOWL**

Did you hunt TEAL during the SPECIAL teal season? ..... YES  NO

If you checked YES: In what county did you hunt teal most during the special season? \_\_\_\_\_  
How many days did you hunt teal during the special season? \_\_\_\_\_  
How many of each species did you bag during the special season? Blue-winged teal \_\_\_\_\_ Green-winged teal \_\_\_\_\_

Did you hunt DUCKS this season? ..... YES  NO

If you checked YES: In what county did you hunt ducks most? \_\_\_\_\_  
How many days did you hunt ducks? \_\_\_\_\_ How many of each of the species below did you bag?  
Mallard \_\_\_\_\_ Wigeon (Baldpate) \_\_\_\_\_ Ringneck \_\_\_\_\_ Merganser \_\_\_\_\_  
Pintail \_\_\_\_\_ Shoveler \_\_\_\_\_ Scaup \_\_\_\_\_ Coot (Mud Hen) \_\_\_\_\_  
Gadwall \_\_\_\_\_ Green-winged Teal \_\_\_\_\_ Redhead \_\_\_\_\_ Other (specify) \_\_\_\_\_  
Wood Duck \_\_\_\_\_ Blue-winged Teal \_\_\_\_\_ Canvasback \_\_\_\_\_ Unknown \_\_\_\_\_

Did you hunt GEESE this season? ..... YES  NO

If you checked YES: In what county did you hunt geese most? \_\_\_\_\_  
How many days did you hunt just geese? \_\_\_\_\_  
How many of each of the species below did you bag?  
Canada \_\_\_\_\_ Whitefronted \_\_\_\_\_ Snow or Blue \_\_\_\_\_ Ross \_\_\_\_\_ Unknown \_\_\_\_\_

How many days did you hunt waterfowl? \_\_\_\_\_ How many of these days did you hunt on public land (not WIHA)? \_\_\_\_\_

Did/Will you hunt SNOW GEESE during the Light Goose Conservation Order season (2/19-4/30, 2007)? ..... YES  NO

Is there a chance you will hunt the Light Goose Conservation Order season in future years? ..... YES  NO

**PRAIRIE DOGS**

Did you hunt prairie dogs this year? ..... YES  NO

If you checked YES: In what county did you hunt prairie dogs most? \_\_\_\_\_  
How many days did you hunt prairie dogs? \_\_\_\_\_ How many prairie dogs did you shoot? \_\_\_\_\_

**COYOTES** Your answers should NOT include coyotes trapped.

Did you hunt COYOTES this season? ..... YES  NO

If you checked YES: In what county did you hunt coyotes most? \_\_\_\_\_  
How many days did you hunt coyotes? \_\_\_\_\_ How many coyotes did you bag? \_\_\_\_\_  
How many coyotes did you sell to Kansas fur dealers? \_\_\_\_\_ How many did you sell out of state? \_\_\_\_\_  
How many coyotes were bagged but not sold due to poor pelt condition or other reasons? \_\_\_\_\_

**SPECIAL QUESTIONS**

Public access to private land is being provided through the Walk-In Hunting Area (WIHA) program. This program made about 1,000,000 acres of private land available to hunters for the 2006-2007 season.

Were you aware of the WIHA program? ..... YES  NO

Did you hunt either small game or big game on WIHA during the 2006-2007 seasons? ..... YES  NO

**THANKS FOR YOUR ANSWERS**

# KANSAS DOVE HARVEST

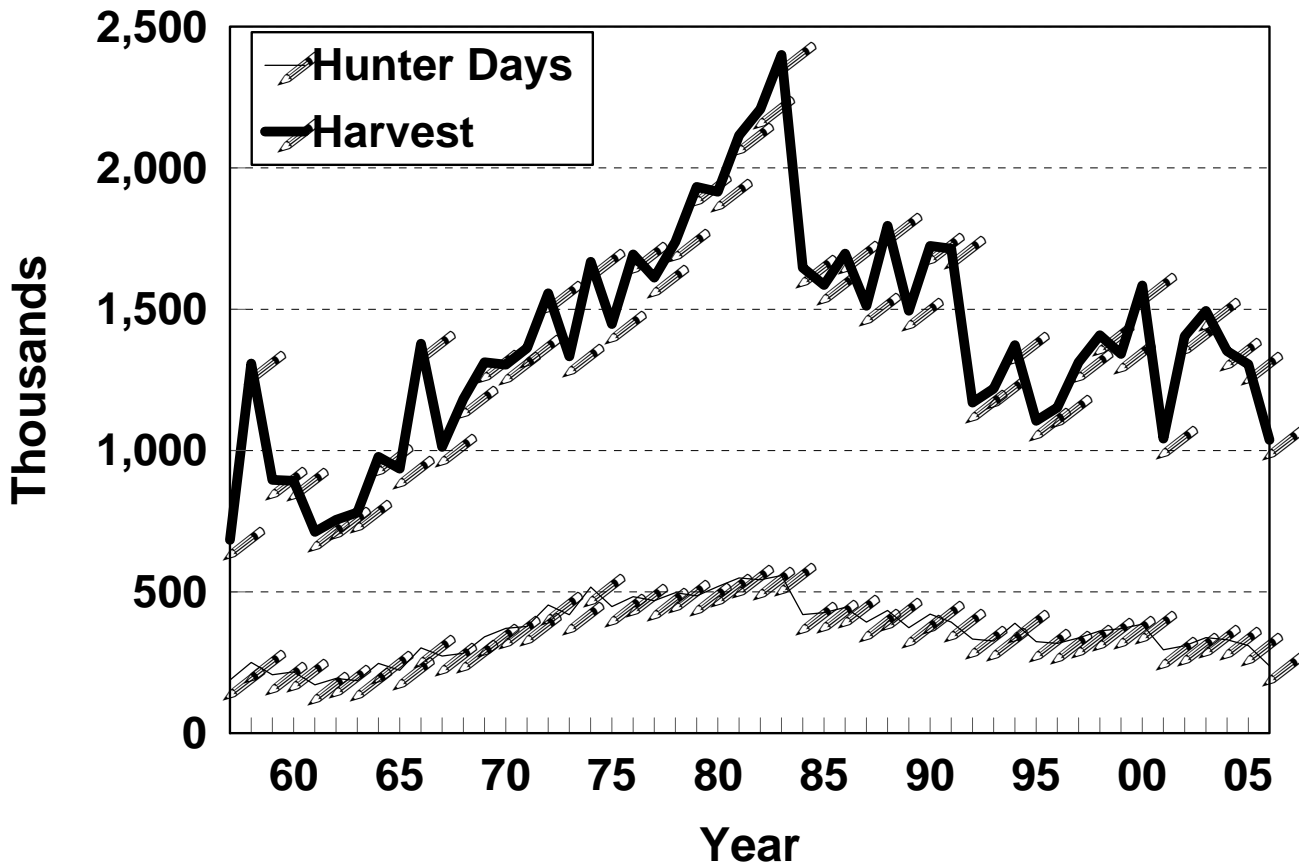


Table 1. Estimated annual **DOVE** hunting activity in Kansas.

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	24.00	45,400	188,000	684,000	4.15	15.07	3.63
1958	25.26	58,000	250,000	1,308,000	4.31	22.56	5.24
1959	23.14	53,200	207,000	896,000	3.89	16.85	4.33
1960	27.45	61,400	217,000	893,000	3.54	14.55	4.11
1961	23.47	48,300	181,000	712,000	3.75	14.74	3.93
1962	25.37	48,800 <sup>a</sup>	194,000	755,000	3.98	15.48	2.87
1963	27.75	50,100	186,000	781,000	3.71	15.58	4.20
1964	33.22	58,000	247,000	978,000	4.26	16.87	3.96
1965	30.63	54,100	223,000	936,000	4.13	17.30	4.19
1966	33.90	67,000	302,000	1,378,000	4.50	20.57	4.57
1967	31.17	63,300	273,000	1,013,000	4.31	16.01	3.71
1968	33.36	66,100	283,000	1,183,000	4.27	17.89	4.17 <sup>b</sup>
1969	35.76	74,500	341,000	1,312,000	4.58	17.61	3.84
1970	35.07	74,200	371,000	1,304,000	5.00	17.57	3.51
1971	39.21	81,200	378,000	1,363,000	4.66	16.79	3.75
1972	40.54	85,900	454,000	1,556,000	5.29	18.11	3.78
1973	36.27	78,200	419,000	1,333,000	5.36	17.05	3.60
1974	44.45	94,300	517,000	1,668,000	5.48	17.69	3.50
1975	43.10	86,000	448,000	1,448,000	5.21	16.84	3.49
1976	44.21	89,700	483,000	1,694,000	5.39	18.89	3.75
1977	43.39	89,200	469,000	1,612,000	5.26	18.06	3.69
1978	41.58	89,300	497,000	1,739,000	5.56	19.45	4.14
1979	43.35 <sup>c</sup>	98,700	486,000	1,933,000	4.92	19.59	4.51
1980	45.30	104,100	519,000	1,916,000	4.99	18.41	3.93
1981	44.11	103,000	549,000	2,115,000	5.33	20.54	3.95
1982	43.19	107,300	543,000	2,208,000	5.06	20.58	4.23
1983	43.58	104,900	558,000	2,400,000	5.32	23.06	4.49
1984	45.33	85,900	420,000	1,647,000	4.89	19.17	4.27
1985	45.39	84,200	426,000	1,586,000	5.05	18.84	3.83
1986	47.15	91,300	445,000	1,697,000	4.88	18.58	3.95
1987	42.49	83,100	393,000	1,512,000	4.73	18.18	3.93
1988	47.93	92,000	434,000	1,795,000	4.67	19.32	4.21
1989	44.91	79,600	373,000	1,495,000	4.69	18.79	4.12
1990	44.26	79,100	421,000	1,724,000	5.32	21.79	4.27
1991	44.90	83,100	393,000	1,714,000	4.73	20.63	4.44
1992	42.56	73,100	333,000	1,170,000	4.55	16.00	3.62
1993	41.13	72,000	326,000	1,219,000	4.53	16.94	3.80
1994	40.54	77,400	389,000	1,373,000	5.02	17.74	3.78
1995	41.31	74,400	324,000	1,105,000	4.35	14.86	3.35
1996	43.94	70,100	318,000	1,152,000	4.54	16.44	3.64
1997	43.25	71,700	337,000	1,312,000	4.69	18.29	4.20
1998	42.62	73,800	362,000	1,408,000	4.91	19.08	4.05
1999	39.65	71,200	370,000	1,342,000	5.19	18.83	3.87
2000	43.13	80,300	386,000	1,584,000	4.81	19.72	4.31
2001	42.14	69,900	295,000	1,042,000	4.23	14.90	3.74
2002	44.38	70,600	309,800	1,404,600	4.39	19.89	4.54
2003	43.86	73,500	338,000	1,494,000	4.60	20.34	4.72
2004	41.59	72,300	331,000	1,352,000	4.58	18.71	4.45
2005	37.98	66,500	310,000	1,305,000	4.67	19.63	4.42
2006 <sup>d</sup>	32.42	52,200	238,000	1,038,000	4.55	19.86	4.69

<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 QUAIL HARVEST

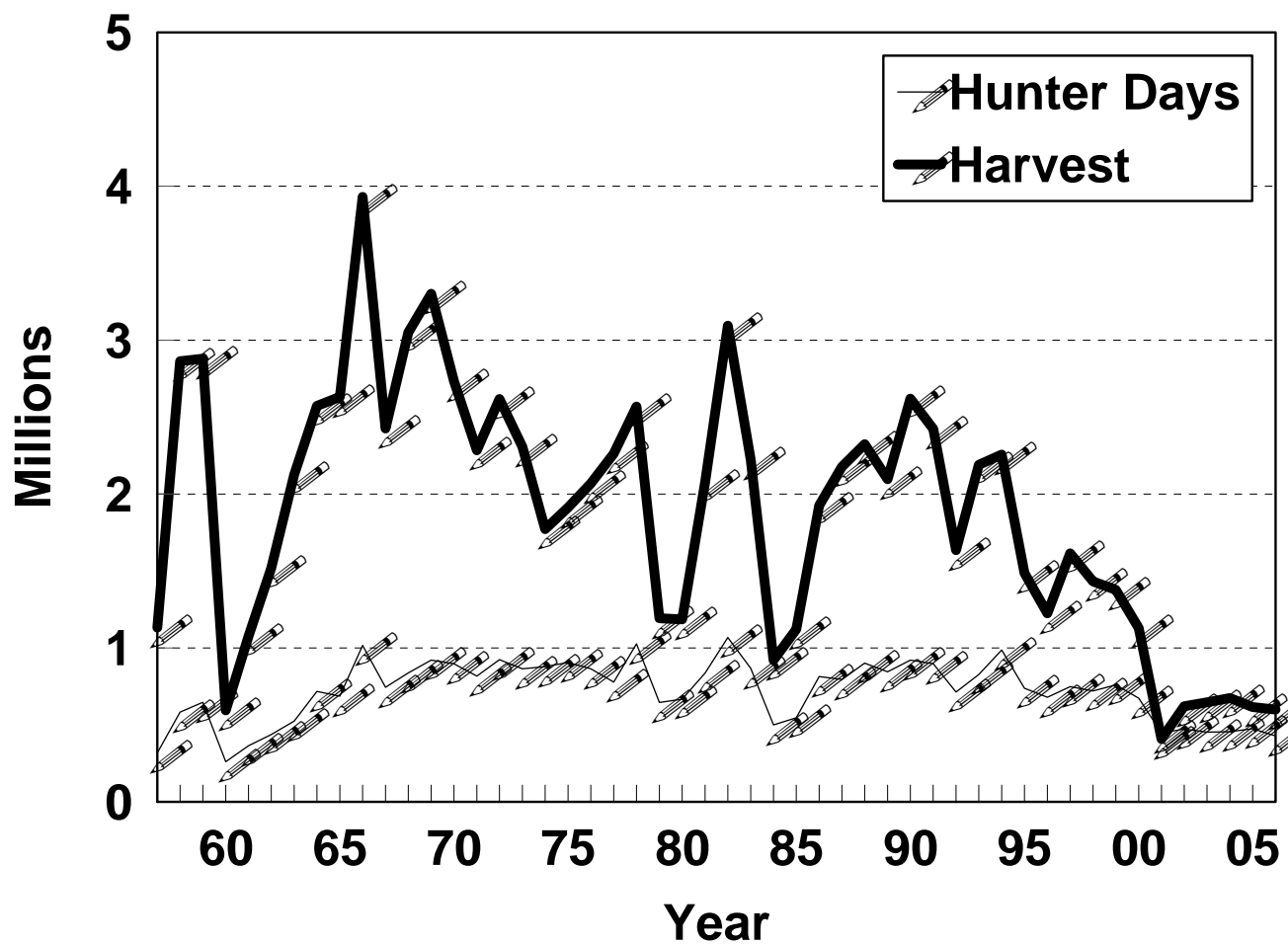


Table 2. Estimated annual **BOBWHITE** hunting activity in Kansas.

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	46.00	87,100	318,000	1,132,000	3.65	13.00	3.56
1958	60.86	139,800	583,000	2,863,000	4.17	20.48	4.91
1959	61.64	141,800	647,000	2,879,000	4.56	20.30	4.45
1960	43.18	96,500	261,000	594,000	2.70	6.16	2.28
1961	48.39	99,600	364,000	1,076,000	3.65	10.80	2.96
1962	55.28	106,300 <sup>a</sup>	437,000	1,520,000	4.11	14.30	3.48
1963	66.73	120,400	524,000	2,126,000	4.35	17.66	4.06
1964	74.91	130,800	717,000	2,573,000	5.48	19.67	3.59
1965	75.58	133,600	687,000	2,631,000	5.14	19.69	3.83
1966	79.36	156,800	1,016,000	3,931,000	6.48	25.07	3.87
1967	74.97	152,200	744,000	2,426,000	4.89	15.94	3.26
1968	76.62	151,800	838,000	3,050,000	5.52	20.09	3.50 <sup>b</sup>
1969	76.59	159,600	921,000	3,301,000	5.77	20.68	3.59
1970	75.69	160,200	897,000	2,733,000	5.60	17.06	3.04
1971	74.99	155,300	818,000	2,284,000	5.27	14.71	2.56
1972	74.71	158,200	924,000	2,618,000	5.84	16.55	2.73
1973	70.81	152,700	864,000	2,307,000	5.66	15.11	2.70
1974	71.63	152,000	879,000	1,772,000	5.78	11.66	2.06
1975	74.24	148,200	906,000	1,912,000	6.11	12.90	2.27
1976	73.23	148,700	864,000	2,068,000	5.81	13.91	2.43
1977	74.11	152,300	778,000	2,263,000	5.11	14.86	2.72
1978	74.97	161,000	1,027,000	2,569,000	6.38	15.96	2.70
1979	55.19 <sup>c</sup>	125,600	646,000	1,193,000	5.14	9.50	1.90
1980	55.19	126,800	668,000	1,186,000	5.27	9.35	1.84
1981	61.18	142,900	836,000	2,076,000	5.85	14.53	2.40
1982	67.08	166,600	1,068,000	3,094,000	6.41	18.57	2.88
1983	63.58	153,100	867,000	2,223,000	5.66	14.53	2.50
1984	52.24	99,000	500,000	920,000	5.04	9.29	1.90
1985	52.51	97,400	546,000	1,121,000	5.60	11.50	1.91
1986	63.14	122,200	815,000	1,925,000	6.67	15.75	2.31
1987	65.54	128,200	796,000	2,177,000	6.21	16.98	2.68
1988	68.43	132,700	901,000	2,324,000	6.79	17.52	2.51
1989	68.30	121,100	845,000	2,096,000	6.98	17.32	2.44
1990	73.05	130,500	920,000	2,620,000	7.05	20.07	2.82
1991	72.51	134,200	897,000	2,423,000	6.69	18.05	2.54
1992	70.39	120,900	713,000	1,635,000	5.90	13.52	2.23
1993	72.24	126,400	828,000	2,190,000	6.55	17.33	2.51
1994	74.23	141,700	987,000	2,256,000	6.96	15.92	2.18
1995	69.66	125,400	738,000	1,487,000	5.88	11.86	1.97
1996	68.95	110,000	679,000	1,225,000	6.17	11.13	1.74
1997	70.17	116,400	748,000	1,615,000	6.43	13.87	2.12
1998	66.71	115,500	721,000	1,432,000	6.24	12.40	1.96
1999	65.42	117,600	760,000	1,378,000	6.46	11.72	1.83
2000	61.29	114,100	673,000	1,129,000	5.90	9.89	1.64
2001	55.04	91,300	448,000	408,000	4.91	4.47	0.92
2002	53.32	84,900	473,000	621,000	5.57	7.32	1.36
2003	54.30	91,000	452,000	647,000	4.97	7.11	1.46
2004	51.80	90,000	456,000	674,000	5.07	7.49	1.50
2005	51.92	90,900	475,000	616,000	5.23	6.78	1.39
2006 <sup>d</sup>	50.20	80,900	428,000	600,000	5.29	7.41	1.39

<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

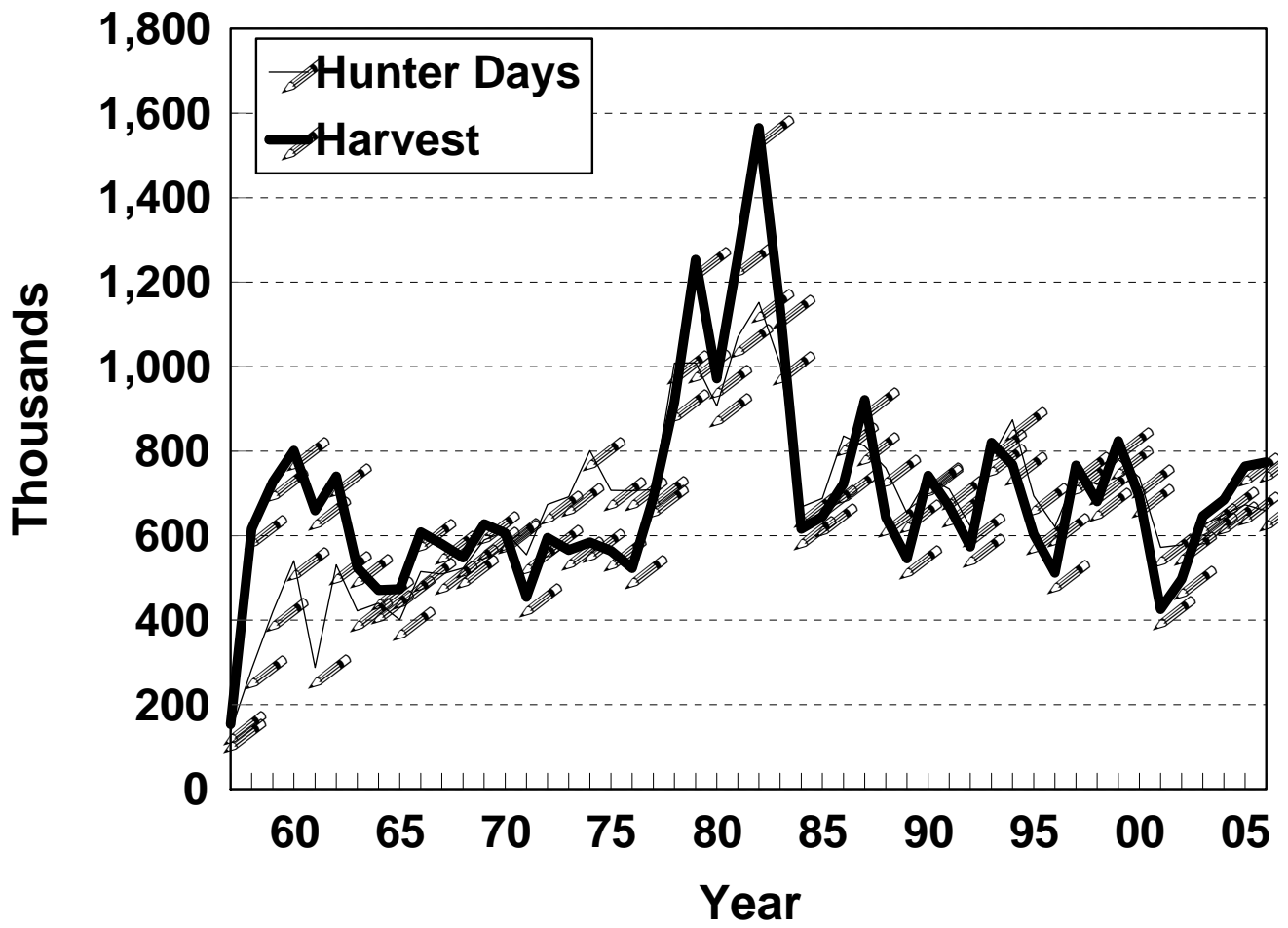


Table 3. Estimated annual PHEASANT hunting activity in Kansas.

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	40.00	75,700	136,000	154,000	1.80	2.03	1.13
1958	56.83	130,500	284,000	616,000	2.18	4.72	2.16
1959	63.56	146,300	420,000	727,000	2.87	4.97	1.73
1960	75.42	168,600	541,000	801,000	3.21	4.75	1.48
1961	69.99	144,000	288,000	660,000	2.00	4.59	2.29
1962	77.70	149,500 <sup>b</sup>	531,000	740,000	3.55	4.95	1.39
1963	72.38	130,600	422,000	524,000	3.23	4.01	1.24
1964	67.73	118,300	440,000	471,000	3.72	3.98	1.07
1965	69.02	122,000	401,000	473,000	3.29	3.88	1.18
1966	68.09	134,500	515,000	608,000	3.83	4.52	1.18
1967	68.44	139,000	509,000	580,000	3.66	4.17	1.14
1968	68.70	136,100	523,000	548,000	3.84	4.03	0.84 <sup>c</sup>
1969	69.69	145,200	590,000	627,000	4.06	4.32	1.06
1970	71.20	150,700	610,000	606,000	4.05	4.02	0.99
1971	68.40	141,700	555,000	455,000	3.92	3.21	0.96
1972	67.44	142,800	674,000	595,000	4.72	4.17	1.03
1973	64.97	139,700	692,000	566,000	4.95	4.05	0.96
1974	70.75	150,200	801,000	584,000	5.33	3.89	0.85
1975	70.69	141,100	707,000	564,000	5.01	3.97	0.92
1976	71.50	145,200	706,000	523,000	4.86	3.60	0.90
1977	72.21	148,400	709,000	690,000	4.78	4.65	1.09
1978	78.17	168,000	1,008,000	916,000	6.00	5.46	1.11
1979	78.17 <sup>d</sup>	177,900	1,009,000	1,253,000	5.67	7.05	1.41
1980	76.69	176,200	907,000	972,000	5.15	5.52	1.19
1981	78.45	183,200	1,070,000	1,260,000	5.84	6.88	1.36
1982	78.73	195,600	1,152,000	1,565,000	5.89	8.00	1.51
1983	76.27	183,600	1,006,000	1,138,000	5.48	6.20	1.28
1984	71.59	135,700	668,000	616,000	4.92	4.54	1.07
1985	73.64	136,600	688,000	645,000	5.03	4.72	1.02
1986	73.90	143,100	836,000	723,000	5.84	5.06	1.01
1987	76.44	149,600	812,000	921,000	5.43	6.16	1.21
1988	74.50	144,400	760,000	644,000	5.26	4.46	1.00
1989	70.49	124,900	653,000	546,000	5.23	4.37	0.96
1990	74.44	133,000	738,000	742,000	5.55	5.58	1.14
1991	74.80	138,400	710,000	669,000	5.13	4.83	1.08
1992	73.42	126,100	622,000	574,000	4.93	4.55	0.99
1993	76.81	134,400	785,000	820,000	5.84	6.10	1.18
1994	76.10	145,300	874,000	768,000	6.02	5.28	1.07
1995	74.14	133,500	694,000	603,000	5.20	4.52	0.96
1996	70.02	111,700	621,000	512,000	5.56	4.59	0.94
1997	75.26	124,800	742,000	766,000	5.94	6.13	1.15
1998	72.63	125,800	721,000	681,000	5.73	5.41	1.01
1999	74.43	133,700	780,000	824,000	5.83	6.16	1.18
2000	71.64	133,400	738,000	692,000	5.53	5.19	1.00
2001	70.27	116,600	572,000	426,000	4.91	3.66	0.82
2002	67.09	106,800	578,000	497,000	5.41	4.65	0.93
2003	69.87	117,000	625,000	646,000	5.34	5.52	1.13
2004	71.22	123,800	650,000	685,000	5.25	5.53	1.11
2005	71.26	124,700	673,000	764,000	5.40	6.12	1.20
2006 <sup>e</sup>	75.10	120,900	659,000	774,000	5.44	6.39	1.26

<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 PRAIRIE CHICKEN HARVEST

## Greater Prairie Chicken

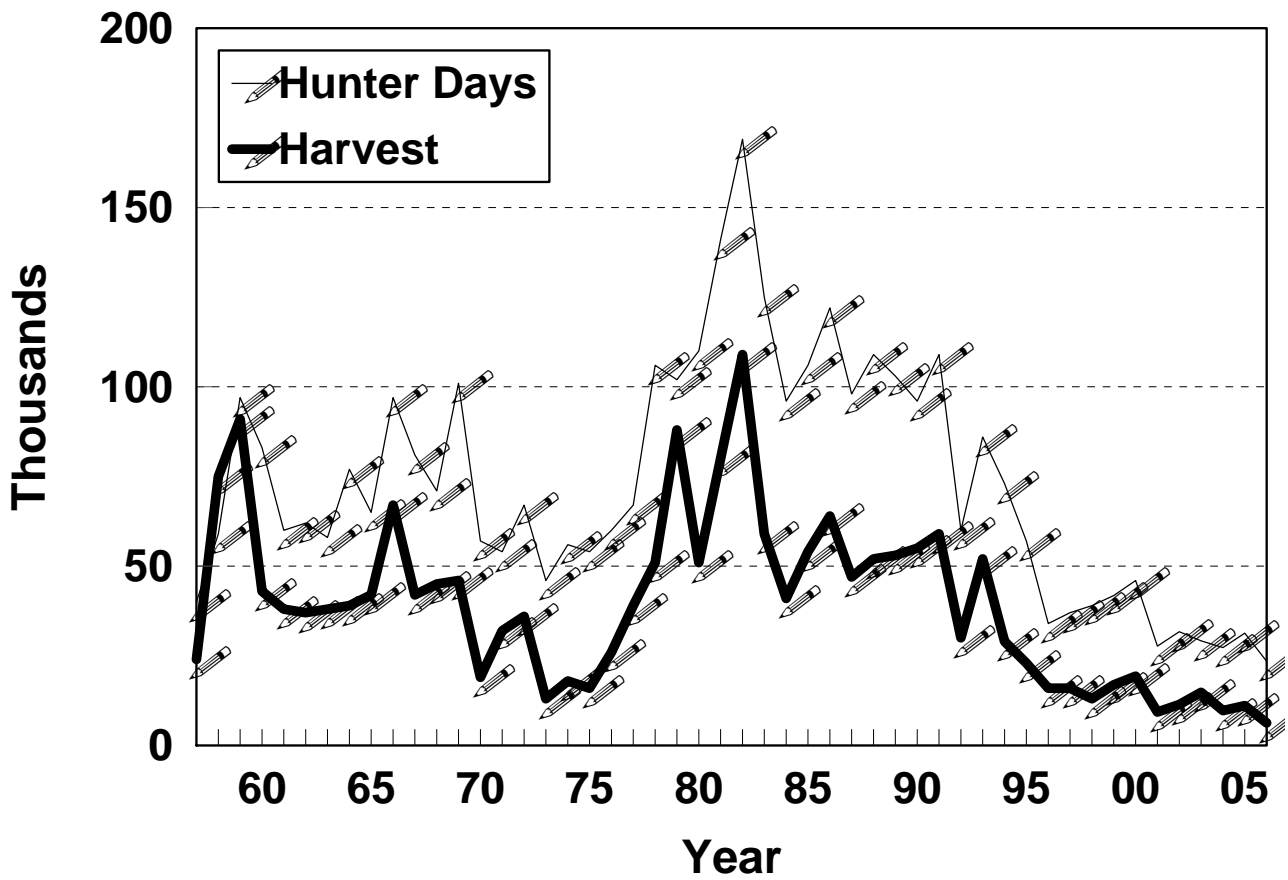




Table 4. Estimated annual **GREATER PRAIRIE CHICKEN** hunting activity in Kansas.

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	16.00	30,300	40,000	24,000	1.32	0.78	0.59
1958	22.59	51,900	59,000	75,000	1.13	1.45	1.28
1959	27.86	64,100	97,000	91,000	1.52	1.42	0.94
1960	25.71	57,500	83,000	43,000	1.45	0.74	0.51
1961	19.46	40,000	60,000	38,000	1.50	0.96	0.64
1962	20.37	39,200 <sup>a</sup>	62,000	37,000	1.59	0.95	0.60
1963	20.58	37,100	58,000	38,000	1.57	1.02	0.65
1964	25.49	44,500	77,000	39,000	1.73	0.87	0.50
1965	23.49	41,500	65,000	42,000	1.56	1.01	0.65
1966	26.67	52,700	97,000	67,000	1.84	1.27	0.69
1967	22.20	45,100	81,000	42,000	1.79	0.94	0.53
1968	19.94	39,500	71,000	45,000	1.80	1.13	0.63
1969	23.34	48,600	101,000	46,000	2.08	0.95	0.46
1970	16.68	35,300	57,000	19,000	1.62	0.53	0.33
1971	15.81	32,700	54,000	32,000	1.65	0.98	0.60
1972	16.07	34,000	67,000	36,000	1.96	1.06	0.54
1973	8.69	18,700	46,000	13,000	2.45	0.71	0.29
1974	9.54	20,200	56,000	18,000	2.75	0.91	0.33
1975	8.57	17,100	54,000	16,000	3.16	0.92	0.29
1976	10.76	21,800	60,000	26,000	2.75	1.19	0.44
1977	11.11	22,800	67,000	39,000	2.92	1.71	0.59
1978	15.88	34,100	106,000	51,000	3.12	1.49	0.50
1979	15.88 <sup>c</sup>	36,100	102,000	88,000	2.83	2.45	0.87
1980	16.12	37,000	110,000	51,000	2.98	1.37	0.49 <sup>b</sup>
1981	19.46	45,400	141,000	80,000	3.11	1.76	0.57
1982	21.36	53,100	169,000	109,000	3.18	2.05	0.70
1983	17.07	41,100	125,000	59,000	3.04	1.44	0.50
1984	15.85	30,000	96,000	41,000	3.20	1.38	0.45
1985	16.22	30,100	106,000	54,000	3.52	1.78	0.52
1986	17.49	33,900	122,000	64,000	3.61	1.90	0.54
1987	15.32	30,000	98,000	47,000	3.26	1.58	0.52
1988	16.88	32,700	109,000	52,000	3.35	1.59	0.46
1989 <sup>d</sup>	14.42	25,600	103,000	53,000	4.11	2.15	0.53
1990	14.54	26,000	96,000	55,000	3.67	2.09	0.55
1991	13.58	24,800	109,000	59,000	4.49	2.50	0.56
1992	10.89	18,700	60,000	30,000	3.28	1.65	0.52
1993	12.29	21,400	86,000	52,000	3.92	2.40	0.57
1994	9.99	19,100	73,000	29,000	3.87	1.52	0.47
1995	8.57	15,400	57,000	23,000	3.70	1.50	0.43
1996	7.15	11,400	34,000	16,000	3.01	1.36	0.44
1997	6.69	11,100	37,000	16,000	3.32	1.41	0.51
1998	6.38	11,000	39,000	13,000	3.49	1.21	0.46
1999	5.63	10,100	41,800	16,900	4.14	1.67	0.48
2000	6.12	11,400	46,000	19,300	4.42	1.36	0.43
2001	4.86	8,100	27,700	9,300	3.44	1.15	0.37
2002	5.43	8,600	31,700	11,400	3.68	1.31	0.42
2003	4.62	7,740	29,200	14,800	3.78	1.91	0.54
2004	5.48	9,530	27,500	9,700	2.86	1.02	0.45
2005	3.56	6,230	31,300	11,100	5.02	1.79	0.40
2006 <sup>e</sup>	4.16	5,640	23,500	6,300	4.17	1.11	0.34

<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.

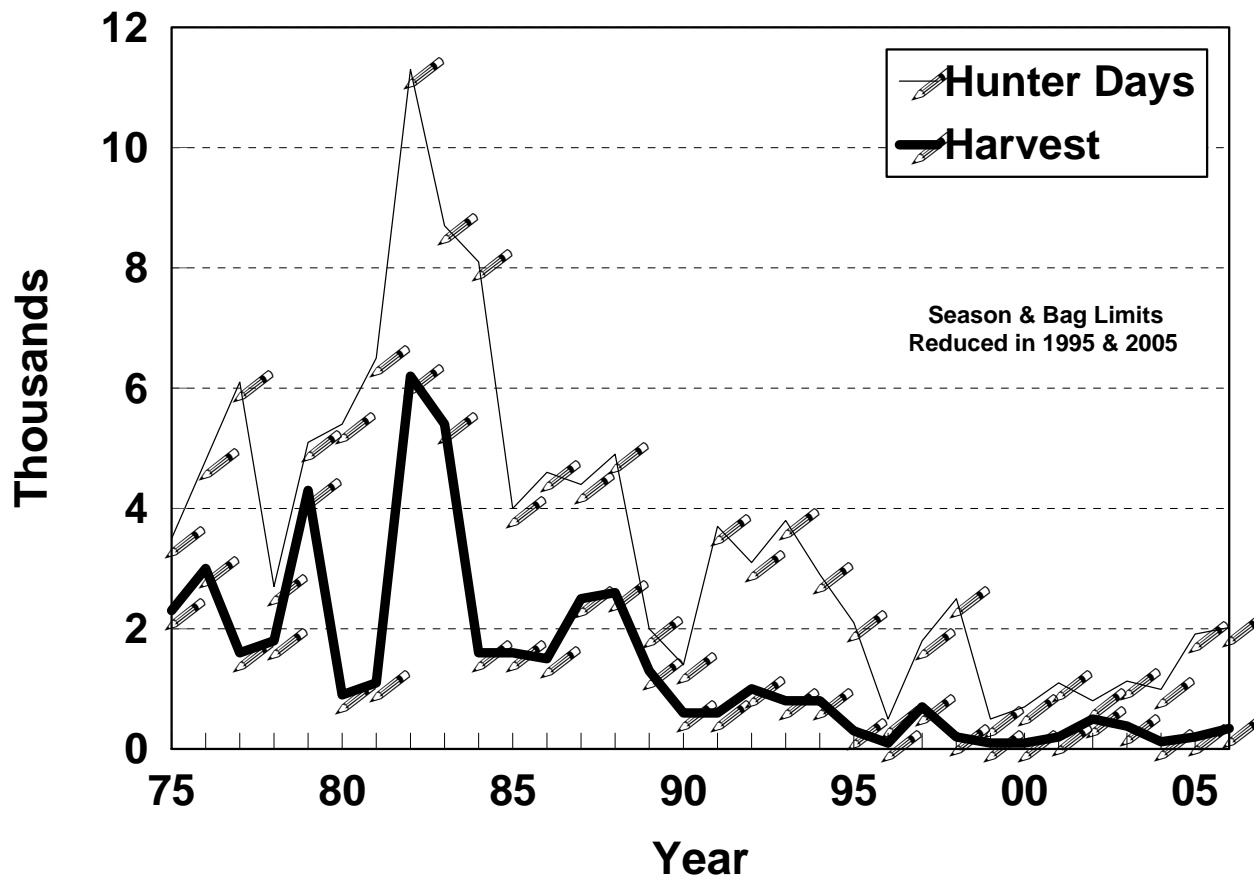
<sup>c</sup> Percent of active hunters hunting species unobtainable due to 1979 questionnaire error. Value is 1974-1978 mean.

<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 PRAIRIE CHICKEN HARVEST

## Lesser Prairie Chicken



Annual variation results, in part, from small sample sizes.

Table 5. 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	0.70	1,400	3,500	2,300	2.48	1.67	0.67
1976	0.90	1,800	4,800	3,000	2.67	1.64	0.61
1977	0.90	1,900	6,100	1,600	3.19	0.89	0.28
1978	0.51	1,100	2,700	1,800	2.46	1.63	0.66
1979	0.75 <sup>b</sup>	1,700	5,100	4,300	3.00	2.55	0.85
1980	0.98	2,200	5,400	900	2.44	0.41	0.30 <sup>c</sup>
1981	0.82	1,900	6,500	1,100	3.42	0.58	0.19
1982	1.38	3,400	11,300	6,200	3.31	1.81	0.58
1983	1.17	2,800	8,700	5,400	3.10	1.91	0.61
1984	0.70	1,300	8,100	1,600	6.12	1.24	0.51
1985	0.59	1,100	4,000	1,600	3.71	1.50	0.34
1986	0.73	1,400	4,600	1,500	3.24	1.06	0.32
1987	0.68	1,300	4,400	2,500	3.30	1.90	0.38
1988	0.87	1,700	4,900	2,600	2.90	1.55	0.73
1989	0.45	800	2,000	1,300	2.50	1.60	0.54
1990	0.25	400	1,400	600	3.17	1.33	0.49
1991	0.45	800	3,700	600	4.36	0.73	0.32
1992 <sup>d</sup>	0.66	1,100	3,100	1,000	2.80	0.80	0.51
1993	0.70	1,200	3,800	800	3.07	0.64	0.14
1994	0.40	800	2,900	800	5.00	1.00	0.27
1995 <sup>e</sup>	0.30	500	2,100	300	3.83	0.50	0.06
1996	0.15	200	500	100	2.00	0.00	0.00
1997	0.38	600	1,800	700	2.80	1.10	0.42
1998	0.18	300	2,500	200	7.83	0.67	0.31
1999	0.12	200	500	100	2.25	0.50	0.38
2000	0.17	300	700	100	2.20	0.40	0.30
2001	0.23	330	1,100	170	3.55	0.55	0.18
2002	0.22	300	790	520	2.25	1.50	0.68
2003	0.31	530	1,130	380	2.14	0.71	0.33
2004	0.14	250	990	120	4.00	0.50	0.50
2005 <sup>e</sup>	0.29	500	1,910	200	3.80	0.40	0.40
2006 <sup>f</sup>	0.41	650	2,020	340	3.09	0.52	0.23

<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

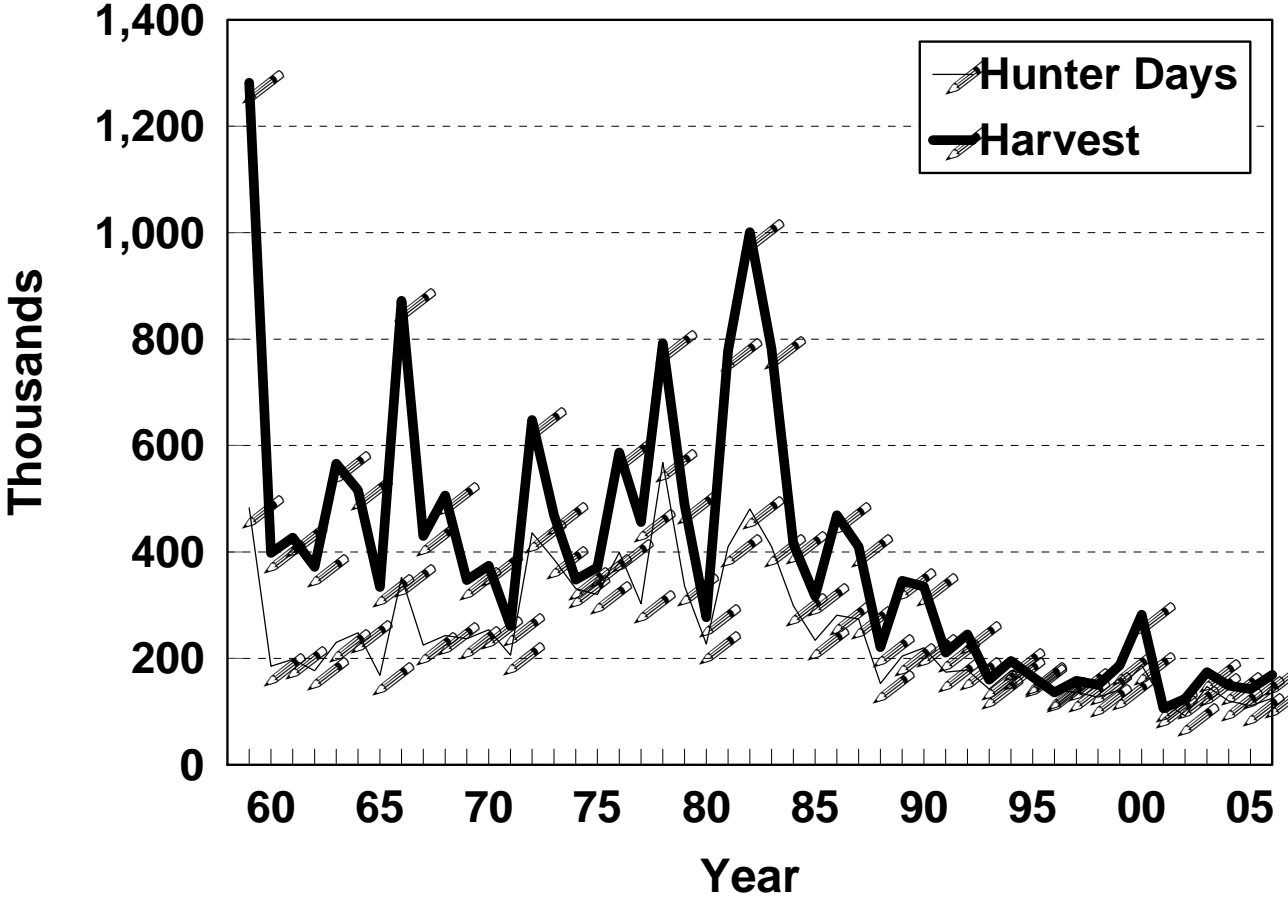


Table 6. Estimated annual **COTTONTAIL** hunting activity in Kansas.

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
1957							
1958	56.24	129,200	716,000	2,075,000	5.54	16.06	2.90
1959	38.07	87,600	483,000	1,282,000	5.51	14.63	2.66
1960	18.71	41,800	185,000	398,000	4.43	9.53	2.15
1961	25.19	51,800	198,000	427,000	3.83	8.24	2.15
1962	22.13	42,600 <sup>a</sup>	177,000	372,000	4.16	8.74	2.10
1963	33.54	60,500	230,000	566,000	3.80	9.35	2.46
1964	32.94	57,500	248,000	516,000	4.31	8.97	2.08
1965	23.61	41,700	168,000	334,000	4.04	8.00	1.98
1966	40.02	79,100	352,000	872,000	4.45	11.02	2.48
1967	28.44	57,700	225,000	430,000	3.90	7.45	1.92
1968	32.64	64,700	243,000	506,000	3.76	7.82	2.08 <sup>b</sup>
1969	27.31	56,900	237,000	347,000	4.17	6.09	1.46
1970	28.52	60,300	254,000	374,000	4.21	6.21	1.48
1971	23.69	49,100	206,000	261,000	4.20	5.31	1.69
1972	40.97	86,700	436,000	648,000	5.03	7.47	1.93
1973	32.15	69,300	386,000	469,000	5.57	6.77	1.68
1974	31.63	67,100	331,000	348,000	4.94	5.36	1.45
1975	32.02	63,900	320,000	371,000	5.01	5.81	1.65
1976	37.70	76,500	399,000	587,000	5.21	7.67	1.89
1977	33.05	67,900	303,000	456,000	4.46	6.71	1.94
1978	40.69	87,400	568,000	792,000	6.50	9.07	2.21
1979	35.02 <sup>c</sup>	79,700	336,000	489,000	4.22	6.13	1.96
1980	21.72	49,900	227,000	277,000	4.55	5.56	1.50
1981	36.00	84,100	410,000	778,000	4.88	9.26	2.26
1982	37.22	92,500	481,000	1,001,000	5.20	10.83	2.67
1983	32.18	77,500	410,000	781,000	5.29	10.09	2.32
1984	29.39	55,700	299,000	415,000	5.37	7.46	1.70
1985	24.27	45,000	234,000	317,000	5.20	7.04	1.71
1986	32.45	62,800	281,000	469,000	4.47	7.46	2.10
1987	28.40	55,600	274,000	410,000	4.92	7.38	2.01
1988	16.52	32,000	153,000	221,000	4.79	6.90	1.77
1989	23.66	41,900	204,000	346,000	4.86	8.25	1.87
1990	26.58	47,500	220,000	335,000	4.63	7.05	1.96
1991	17.91	33,100	174,000	211,000	5.26	6.36	1.73
1992	23.81	40,900	178,000	245,000	4.35	5.99	1.66
1993	16.86	29,500	142,000	160,000	4.81	5.42	1.53
1994	18.81	35,900	177,000	195,000	4.92	5.44	1.52
1995	18.88	34,000	168,000	165,000	4.95	4.85	1.25
1996	18.01	28,700	141,000	136,000	4.90	4.72	1.32
1997	16.41	27,200	136,000	158,000	5.01	5.82	1.58
1998	14.03	24,300	127,000	150,000	5.22	6.17	1.67
1999	15.45	27,800	141,000	187,000	5.07	6.75	1.61
2000	19.37	36,100	187,000	282,000	5.18	7.81	1.95
2001	12.78	21,200	118,000	106,000	5.56	4.98	1.21
2002	13.11	20,900	92,000	124,000	4.43	5.95	1.49
2003	15.07	25,200	147,000	174,000	5.83	6.90	1.55
2004	13.42	23,300	120,000	149,000	5.14	6.40	1.68
2005	12.39	21,700	111,000	142,000	5.13	6.56	1.57
2006 <sup>d</sup>	13.32	21,400	125,000	169,000	5.85	7.87	1.56

<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

## Fox and Gray Squirrels

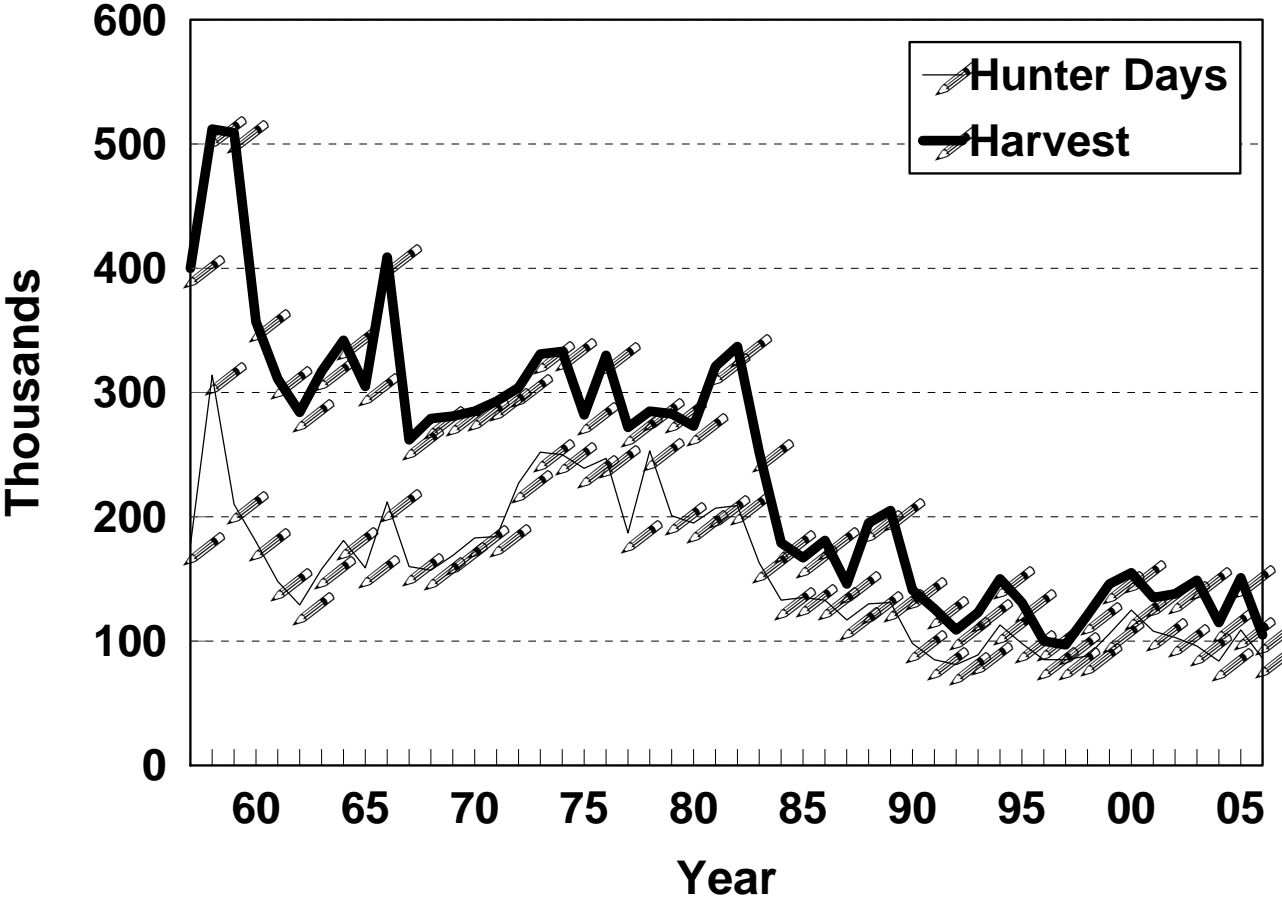


Table 7. Estimated annual **SQUIRREL** hunting activity in Kansas.

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	21.00	39,800	177,000	400,000	4.44	10.06	2.27
1958	27.80	63,900	314,000	512,000	4.91	8.01	1.63
1959	21.51	49,500	210,000	509,000	4.24	10.29	2.43
1960	20.38	45,600	180,000	357,000	3.95	7.82	1.98
1961	18.74	38,600	148,000	311,000	3.73	8.06	2.16
1962	17.95	34,500 <sup>a</sup>	129,000	284,000	3.74	8.23	2.20
1963	22.74	41,000	158,000	317,000	3.86	7.72	2.00
1964	25.27	44,100	181,000	342,000	4.10	7.75	1.89
1965	21.73	38,400	159,000	305,000	4.14	7.95	1.92
1966	23.49	46,400	212,000	409,000	4.57	8.82	1.93
1967	20.87	42,400	160,000	262,000	3.77	6.19	1.64
1968	20.76	41,100	157,000	279,000	3.81	6.78	1.52 <sup>b</sup>
1969	21.12	44,000	169,000	281,000	3.85	6.39	1.66
1970	21.52	45,500	183,000	285,000	4.03	6.27	1.55
1971	21.46	44,400	184,000	293,000	4.14	6.60	1.74
1972	23.34	49,400	227,000	304,000	4.59	6.16	1.60
1973	22.90	49,400	252,000	331,000	5.10	6.70	1.64
1974	24.64	52,300	250,000	333,000	4.78	6.56	1.58
1975	23.82	47,600	239,000	282,000	5.03	5.93	1.55
1976	24.23	49,200	247,000	330,000	5.02	6.70	1.62
1977	21.13	43,400	187,000	272,000	4.32	6.27	1.63
1978	19.69	42,000	253,000	285,000	6.02	6.74	1.65
1979	22.70 <sup>c</sup>	51,700	201,000	283,000	3.88	5.48	1.72
1980	16.98	39,000	195,000	273,000	4.99	6.99	1.54
1981	18.35	42,800	207,000	321,000	4.84	7.50	1.64
1982	16.14	40,100	209,000	337,000	5.21	8.40	1.81
1983	13.64	32,800	163,000	252,000	4.97	7.68	1.68
1984	14.86	28,200	133,000	179,000	4.73	6.34	1.51
1985	15.55	28,800	135,000	167,000	4.67	5.79	1.41
1986	13.42	26,000	133,000	181,000	5.10	6.98	1.40
1987	12.56	24,600	117,000	146,000	4.76	5.92	1.55
1988	13.36	26,300	130,000	195,000	4.93	7.39	1.71
1989	16.34	29,000	131,000	205,000	4.52	7.09	1.64
1990	13.35	23,900	98,000	141,000	4.10	5.90	1.57
1991	10.95	20,300	85,000	126,000	4.20	6.21	1.57
1992	9.84	16,900	81,000	109,000	4.81	6.45	1.48
1993	10.18	17,800	89,000	123,000	5.01	6.90	1.42
1994	10.64	20,300	113,000	150,000	5.55	7.38	1.48
1995	10.51	18,900	98,000	131,000	5.16	6.91	1.52
1996	9.99	15,900	85,000	100,000	5.36	6.28	1.48
1997 <sup>d</sup>	10.59	17,600	85,000	97,000	4.87	5.53	1.31
1998	9.84	17,000	88,000	121,000	5.15	7.12	1.45
1999	11.02	19,800	106,000	146,000	5.36	7.39	1.61
2000	11.66	21,700	125,000	155,000	5.78	7.13	1.47
2001	10.74	17,800	108,000	135,000	6.09	7.58	1.54
2002	13.00	20,700	103,000	138,000	5.00	6.67	1.53
2003	10.18	17,000	96,000	149,000	5.63	8.72	1.60
2004	9.55	16,600	84,000	115,000	5.08	6.92	1.41
2005	11.02	19,300	109,000	151,000	5.65	7.82	1.46
2006 <sup>e</sup>	8.42	13,600	86,000	105,000	6.28	7.72	1.45

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

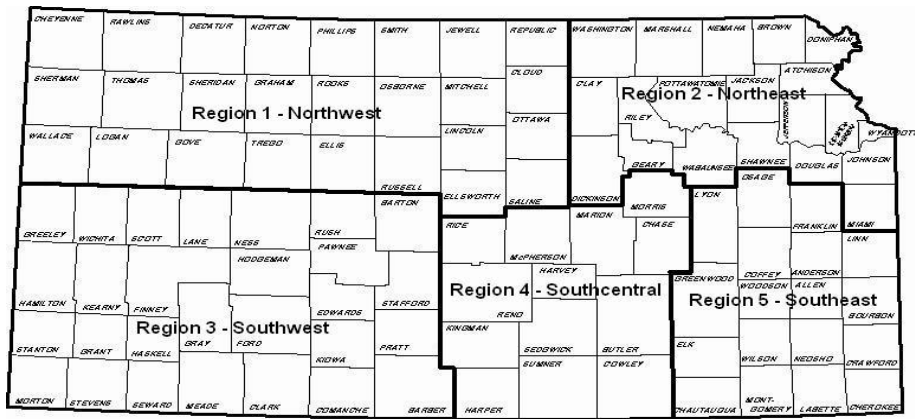
<sup>b</sup> Average Bag Per Day through 1967 expresses overall mean season bag divided by overall mean season days.

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.



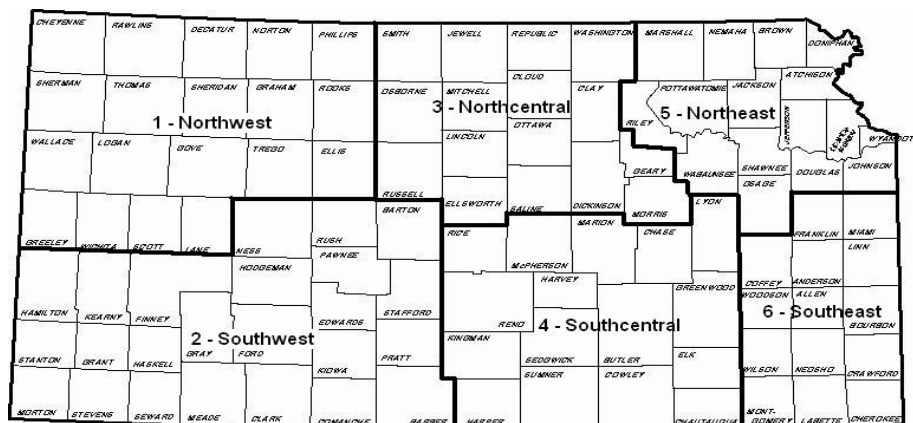
Kansas Department of Wildlife and Parks **ADMINISTRATIVE** regions.

Table 8a. **All** hunter activity for **DOVES**, 2006 season <sup>a</sup>.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	659	52,200	238,000	1,038,000	4.55	19.86	4.69
A1-NW	134	10,200	48,500	223,800	4.77	22.02	5.37
A2-NE	116	9,300	41,100	131,500	4.39	14.04	3.51
A3-SW	125	10,000	49,400	260,600	4.97	26.26	5.61
A4-SC	157	13,100	57,200	247,900	4.36	18.90	4.25
A5-SE	95	7,700	30,900	144,700	4.03	18.88	4.84
A0-NS <sup>b</sup>	32	2,000	11,300	28,400	5.69	14.24	4.67
M1-NW	74	5,500	29,000	128,100	5.29	23.37	5.46
M2-SW	116	9,300	44,400	240,900	4.79	25.96	5.57
M3-NC	116	9,100	45,200	197,300	4.95	21.64	4.81
M4-SC	172	14,200	60,300	269,800	4.24	18.96	4.45
M5-NE	77	6,200	24,400	65,800	3.90	10.52	3.14
M6-SE	72	5,900	23,800	106,600	4.05	18.16	4.66

<sup>a</sup> The sum of regional values may not precisely equal state total due to computation method.

<sup>b</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.



Kansas **DOVE** management / survey regions.



Table 8b. **Resident** hunter activity for **DOVES**, 2006 season <sup>a</sup>.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	567	48,100	226,000	962,000	4.70	19.99	4.56
A1-NW	104	8,800	43,500	185,200	4.93	20.99	4.85
A2-NE	104	8,800	39,600	125,600	4.49	14.23	3.49
A3-SW	108	9,200	47,300	245,200	5.16	26.76	5.51
A4-SC	152	12,900	56,800	245,600	4.41	19.05	4.23
A5-SE	85	7,200	29,700	138,200	4.12	19.16	4.80
A0-NS <sup>b</sup>	14	1,200	9,800	21,400	8.25	18.00	5.43
M1-NW	54	4,600	26,600	108,800	5.80	23.74	4.93
M2-SW	102	8,700	42,600	227,600	4.92	26.30	5.50
M3-NC	98	8,300	41,700	172,500	5.02	20.74	4.47
M4-SC	163	13,800	59,400	264,700	4.29	19.14	4.43
M5-NE	70	5,900	23,600	63,000	3.97	10.60	3.11
M6-SE	66	5,600	23,100	103,300	4.12	18.44	4.70

<sup>a</sup> The sum of regional values may not precisely equal state total due to computation method.

<sup>b</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.

Table 8c. **Non-Resident** hunter activity for **DOVES**, 2006 season <sup>a</sup>.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	92	4,100	12,000	76,000	2.83	18.34	6.18
A1-NW	30	1,350	5,000	38,600	3.70	28.70	8.75
A2-NE	12	540	1,500	5,900	2.75	11.00	3.88
A3-SW	17	760	2,100	15,400	2.71	20.18	6.82
A4-SC	5	220	400	2,300	1.80	10.20	5.10
A5-SE	10	450	1,200	6,500	2.70	14.40	5.39
A0-NS <sup>b</sup>	18	810	1,500	7,000	1.89	8.67	3.54
M1-NW	20	900	2,400	19,300	2.70	21.50	8.19
M2-SW	14	630	1,800	13,300	2.93	21.21	6.64
M3-NC	18	810	3,500	24,800	4.28	30.78	8.38
M4-SC	9	400	900	5,100	2.22	12.56	5.30
M5-NE	7	310	800	2,800	2.57	9.00	3.64
M6-SE	6	270	700	3,300	2.67	12.33	3.95

<sup>a</sup> The sum of regional values may not precisely equal state total due to computation method.

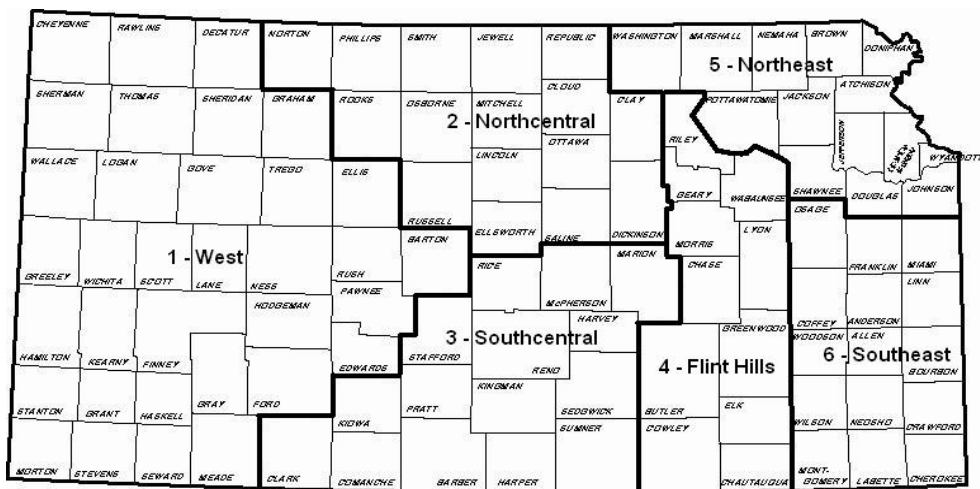
<sup>b</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.

Table 9a. **All** hunter activity for **BOBWHITE**, 2006-2007 season <sup>a</sup>.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	1,181	80,900	428,000	600,000	5.29	7.41	1.39
A1-NW	247	16,200	86,000	90,400	5.31	5.58	1.14
A2-NE	188	14,200	70,000	77,600	4.93	5.48	1.23
A3-SW	265	17,300	93,300	133,400	5.38	7.70	1.52
A4-SC	209	16,100	95,900	134,500	5.94	8.34	1.37
A5-SE	124	9,100	55,400	123,100	6.11	13.54	1.51
A0-NS <sup>b</sup>	148	8,000	27,000	40,000	3.40	5.03	1.47
M1-W	221	14,800	78,000	96,300	5.29	6.53	1.36
M2-NC	235	16,000	81,900	83,300	5.11	5.20	1.10
M3-SC	253	17,800	102,000	137,600	5.72	7.73	1.38
M4-FH	108	8,100	48,400	86,800	5.92	10.63	1.66
M5-NE	121	9,000	45,500	53,500	5.02	5.88	1.21
M6-SE	95	7,100	44,700	101,400	6.29	14.29	2.00

<sup>a</sup> The sum of regional values may not precisely equal state total due to computation method.

<sup>b</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.



Kansas **QUAIL** management / survey regions.

Table 9b. **Resident** hunter activity for **BOBWHITE**, 2006-2007 season <sup>a</sup>.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	698	59,220	335,000	441,000	5.65	7.44	1.30
A1-NW	128	10,900	60,200	59,800	5.54	5.50	1.07
A2-NE	144	12,200	58,800	59,200	4.81	4.85	1.15
A3-SW	136	11,500	69,200	86,700	6.00	7.51	1.37
A4-SC	169	14,300	89,200	123,400	6.22	8.61	1.32
A5-SE	88	7,500	46,200	95,900	6.19	12.84	1.74
A0-NS <sup>b</sup>	33	2,800	10,700	15,100	3.83	5.40	1.28
M1-W	121	10,300	60,500	70,700	5.89	6.89	1.28
M2-NC	137	11,600	60,200	57,500	5.18	4.95	1.04
M3-SC	162	13,700	84,300	100,500	6.14	7.31	1.21
M4-FH	83	7,000	42,300	73,400	6.00	10.42	1.64
M5-NE	91	7,700	36,700	39,600	4.76	5.13	1.15
M6-SE	71	6,000	39,600	83,300	6.58	13.83	1.84

<sup>a</sup> The sum of regional values may not precisely equal state total due to computation method.

<sup>b</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.

Table 9c. **Non-Resident** hunter activity for **BOBWHITE**, 2006-2007 season <sup>a</sup>.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	483	21,700	93,000	159,000	4.31	7.34	1.64
A1-NW	119	5,300	25,800	30,600	4.84	5.74	1.29
A2-NE	44	2,000	11,200	18,400	5.66	9.32	1.68
A3-SW	129	5,800	24,100	46,700	4.16	8.07	1.81
A4-SC	40	1,800	6,700	11,100	3.73	6.18	1.76
A5-SE	36	1,600	9,200	27,200	5.71	16.83	0.47
A0-NS <sup>b</sup>	115	5,200	16,300	24,900	3.16	4.83	1.56
M1-W	100	4,500	17,500	25,600	3.91	5.72	1.53
M2-NC	98	4,400	21,700	25,800	4.93	5.88	1.27
M3-SC	91	4,100	17,700	37,100	4.34	9.10	1.93
M4-FH	25	1,100	6,100	13,400	5.44	11.96	1.83
M5-NE	30	1,300	8,800	13,900	6.57	10.33	1.57
M6-SE	24	1,100	5,100	18,100	4.74	16.83	2.88

<sup>a</sup> The sum of regional values may not precisely equal state total due to computation method.

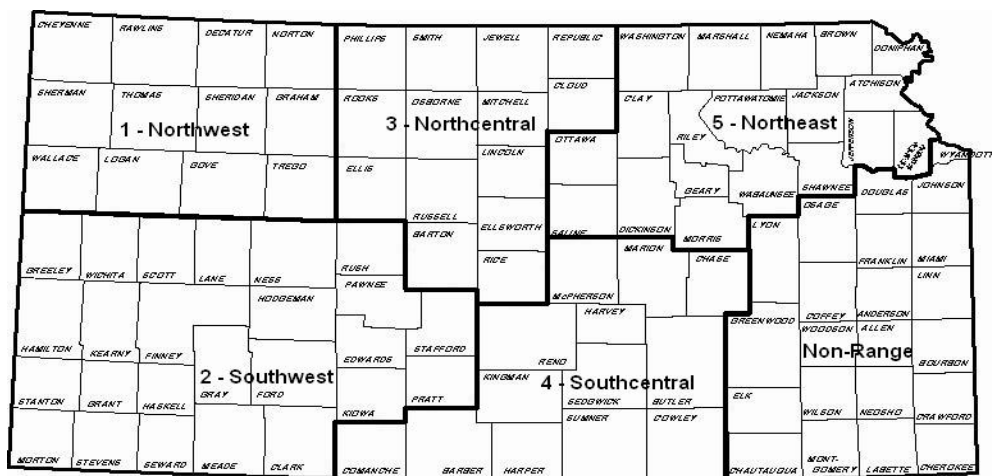
<sup>b</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.

Table 10a. **All** hunter activity for **PHEASANTS**, 2006-2007 season <sup>a</sup>.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	1,842	120,900	659,000	774,000	5.44	6.39	1.26
A1-NW	607	39,700	222,300	268,300	5.59	6.74	1.25
A2-NE	195	14,100	65,400	56,300	4.62	3.97	0.86
A3-SW	509	34,100	216,100	276,600	6.33	8.11	1.47
A4-SC	195	14,900	90,700	81,100	6.06	5.41	0.90
A5-SE	9	600	1,500	2,300	2.28	3.61	1.99
A0-NS <sup>b</sup>	327	17,300	60,700	84,900	3.51	4.91	1.50
M1-NW	193	12,200	76,000	97,200	6.24	7.98	1.27
M2-SW	454	30,400	200,400	255,400	6.60	8.40	1.48
M3-NC	428	28,600	155,700	191,900	5.44	6.71	1.27
M4-SC	187	14,000	80,400	68,900	5.75	4.92	0.93
M5-NE	237	17,400	81,200	67,700	4.65	3.88	0.86
M6-SE	16	1,100	2,400	3,600	2.15	3.25	1.63

<sup>a</sup> The sum of regional values may not precisely equal state total due to computation method.

<sup>b</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.



Kansas **PHEASANT** management / survey regions.

Table 10b. **Resident** hunter activity for **PHEASANTS**, 2006-2007 season <sup>a</sup>.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	960	81,400	493,000	525,000	6.05	6.44	1.13
A1-NW	314	26,600	161,400	178,400	6.06	6.70	1.13
A2-NE	136	11,500	55,300	46,600	4.79	4.04	0.82
A3-SW	282	23,900	170,100	201,100	7.11	8.41	1.40
A4-SC	156	13,200	84,300	70,200	6.37	5.30	0.82
A5-SE	6	500	1,100	1,700	2.20	3.40	2.00
A0-NS <sup>b</sup>	66	5,600	19,000	23,300	3.39	4.17	1.33
M1-NW	88	7,500	53,800	60,100	7.20	8.05	1.12
M2-SW	251	21,300	157,500	184,500	7.40	8.66	1.41
M3-NC	235	19,900	116,300	137,300	5.83	6.89	1.17
M4-SC	140	11,900	73,300	57,400	6.17	4.83	0.84
M5-NE	170	14,400	69,700	56,200	4.83	3.89	0.83
M6-SE	10	800	1,600	2,400	1.89	2.78	1.61

<sup>a</sup> The sum of regional values may not precisely equal state total due to computation method.

<sup>b</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.

Table 10c. **Non-Resident** hunter activity for **PHEASANTS**, 2006-2007 season <sup>a</sup>.

Region	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	882	39,500	166,000	249,000	4.19	6.29	1.53
A1-NW	293	13,100	60,900	89,900	4.64	6.84	1.49
A2-NE	59	2,600	10,100	9,700	3.83	3.68	1.02
A3-SW	227	10,200	46,000	75,500	4.52	7.42	1.64
A4-SC	39	1,700	6,400	10,900	3.67	6.26	1.50
A5-SE	3	100	400	600	2.67	4.67	1.93
A0-NS <sup>b</sup>	261	11,700	41,700	61,600	3.56	5.26	1.58
M1-NW	105	4,700	22,200	37,100	4.71	7.88	1.52
M2-SW	203	9,100	42,900	70,900	4.72	7.79	1.65
M3-NC	193	8,700	39,400	54,600	4.56	6.31	1.52
M4-SC	47	2,100	7,100	11,500	3.35	5.45	1.47
M5-NE	67	3,000	11,500	11,500	3.81	3.81	1.02
M6-SE	6	300	800	1,200	2.83	4.50	1.68

<sup>a</sup> The sum of regional values may not precisely equal state total due to computation method.

<sup>b</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.

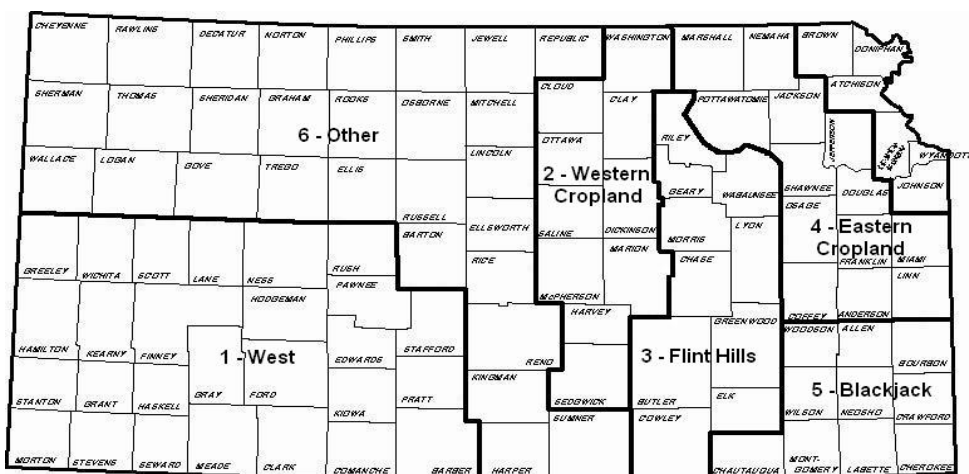
Table 11a. *All* hunter activity for **GREATER PRAIRIE CHICKENS**, 2006-2007 **REGULAR** season <sup>a</sup>.

Region <sup>b</sup>	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	77	5,200	20,300	4,600	3.90	0.88	0.32
A1-NW	35	2,090	8,780	1,810	4.20	0.86	0.31
A2-NE	9	720	1,910	250	2.65	0.35	0.25
A3-SW							
A4-SC	17	1,440	6,620	1,610	4.59	1.12	0.31
A5-SE	5	340	1,380	340	4.02	0.98	0.34
A0-NS <sup>c</sup>	11	610	1,550	590	2.54	0.98	0.44
M2-WC	12	970	3,320	680	3.39	0.70	0.26
M3-FH	21	1,740	7,170	1,950	4.12	1.12	0.36
M4-EC	0	0	0	0			
M5-BJ	2	90	450	0	5.00	0.00	0.00
M6-OT	31	1,790	7,350	1,390	4.11	0.78	0.28

<sup>a</sup> The sum of regional values may not precisely equal state total due to computation method.

<sup>b</sup> Management Region 1 and Administrative Region 3 constitute lesser prairie chicken range.

<sup>c</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.



Kansas **PRAIRIE-CHICKEN** management / survey regions.

Table 11b. **Resident** hunter activity for **GREATER PRAIRIE CHICKENS**, 2006-2007 **REGULAR** season <sup>a</sup>.

Region <sup>b</sup>	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	44	3,700	14,700	3,820	3.93	1.02	0.36
A1-NW	13	1,100	4,880	1,500	4.43	1.36	0.47
A2-NE	8	680	1,780	250	2.63	0.38	0.26
A3-SW							
A4-SC	17	1,440	6,620	1,610	4.59	1.12	0.31
A5-SE	3	250	930	340	3.67	1.33	0.47
A0-NS <sup>c</sup>	3	250	420	80	1.67	0.33	0.33
M2-WC	11	930	3,140	680	3.36	0.73	0.27
M3-FH	20	1,700	7,040	1,950	4.15	1.15	0.37
M4-EC	0	0	0	0			
M5-BJ	0	0	0	0			
M6-OT	10	850	3,630	1,080	4.28	1.27	0.45

<sup>a</sup> The sum of regional values may not precisely equal state total due to computation method.

<sup>b</sup> Management Region 1 and Administrative Region 3 constitute lesser prairie chicken range.

<sup>c</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.

Table 11c. **Non-Resident** hunter activity for **GREATER PRAIRIE CHICKENS**, 2006-2007 **REGULAR** season <sup>a</sup>.

Region <sup>b</sup>	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	33	1,480	5,640	790	3.81	0.53	0.21
A1-NW	22	990	3,900	310	3.95	0.32	0.13
A2-NE	1	40	130	0	3.00	0.00	0.00
A3-SW							
A4-SC	0	0	0	0			
A5-SE	2	90	450	0	5.00	0.00	0.00
A0-NS <sup>c</sup>	8	360	1,130	510	3.14	1.43	0.52
M2-WC	1	40	180	0	4.00	0.00	0.00
M3-FH	1	40	130	0	3.00	0.00	0.00
M4-EC	0	0	0	0			
M5-BJ	2	90	450	0	5.00	0.00	0.00
M6-OT	21	940	3,720	310	3.95	0.33	0.14

<sup>a</sup> The sum of regional values may not precisely equal state total due to computation method.

<sup>b</sup> Management Region 1 and Administrative Region 3 constitute lesser prairie chicken range.

<sup>c</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.

Table 12a. **All** hunter activity for **GREATER PRAIRIE CHICKENS**, 2006 **EARLY** season <sup>a</sup>.

Region <sup>b</sup>	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	19	1,490	3,200	1,700	2.14	1.14	0.44
A1-NW	8	550	1,490	590	2.68	1.07	0.53
A2-NE	6	510	760	170	1.50	0.33	0.17
A3-SW							
A4-SC	3	250	680	850	2.67	3.33	0.93
A5-SE	1	80	170	80	2.00	1.00	0.50
A0-NS <sup>c</sup>	1	80	80	0	1.00	0.00	0.00
M2-WC	2	170	250	250	1.50	1.50	1.00
M3-FH	6	510	1,100	850	2.17	1.67	0.38
M4-EC	2	170	250	0	1.50	0.00	0.00
M5-BJ	0	0	0	0			
M6-OT	8	550	1,490	590	2.68	1.07	0.53

<sup>a</sup> The sum of regional values may not precisely equal state total due to computation method.

<sup>b</sup> Management Region 1 and Administrative Region 3 constitute lesser prairie chicken range.

<sup>c</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.

Table 12b. **Resident** hunter activity for **GREATER PRAIRIE CHICKENS**, 2006 **EARLY** season <sup>a</sup>.

Region <sup>b</sup>	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	16	1,360	2,970	1,700	2.19	1.25	0.49

Table 12c. **Non-Resident** hunter activity for **GREATER PRAIRIE CHICKENS**, 2006 **EARLY** season <sup>a</sup>.

Region <sup>b</sup>	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	3	130	220	0	1.67	0.00	0.00



Table 13a. **All** hunter activity for **LESSER PRAIRIE CHICKENS**, 2006 season.

Region <sup>a</sup>	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	12	650	2,020	340	3.09	0.52	0.23

<sup>a</sup> Statewide values equal those of Administrative Region 3 and Management Region 1.

Table 13b. **Resident** hunter activity for **LESSER PRAIRIE CHICKENS**, 2006 season.

Region <sup>a</sup>	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	3	250	590	250	2.33	1.00	0.50

<sup>a</sup> Statewide values equal those of Administrative Region 3 and Management Region 1.

Table 13c. **Non-Resident** hunter activity for **LESSER PRAIRIE CHICKENS**, 2006 season.

Region <sup>a</sup>	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	9	400	1,430	90	3.56	0.22	0.07

<sup>a</sup> Statewide values equal those of Administrative Region 3 and Management Region 1.

Table 14a. **All** hunter activity for **COTTONTAILS**, 2006-2007 season <sup>a</sup>.

Region <sup>b</sup>	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	285	21,400	125,000	169,000	5.85	7.87	1.56
A1-NW	45	2,900	26,100	31,300	9.02	10.80	1.39
A2-NE	50	4,000	22,500	23,000	5.62	5.76	1.21
A3-SW	53	3,800	24,000	33,500	6.28	8.80	1.70
A4-SC	52	4,300	25,200	39,400	5.86	9.18	1.48
A5-SE	58	4,800	21,900	31,900	4.58	6.71	1.77
A0-NS <sup>c</sup>	27	1,700	5,200	8,600	3.10	5.07	2.00
M1-W	61	4,400	30,200	42,800	6.90	9.78	1.64
M2-NC	43	2,900	22,200	24,000	7.70	8.31	1.48
M3-SC	41	3,300	17,900	22,900	5.46	6.97	1.56
M4-FH	27	2,200	11,600	22,000	5.24	9.91	1.40
M5-NE	30	2,400	13,600	12,300	5.67	5.14	1.01
M6-SE	56	4,600	24,100	35,200	5.22	7.62	1.76

<sup>a</sup> The sum of regional values may not precisely equal state total due to computation method.

<sup>b</sup> Management regions are the same as for bobwhite.

<sup>c</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.

Table 14b. **Resident** hunter activity for **COTTONTAILS**, 2006-2007 season <sup>a</sup>.

Region <sup>b</sup>	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	217	18,400	113,000	150,000	6.16	8.13	1.55
A1-NW	22	1,870	21,200	22,900	11.36	12.27	1.39
A2-NE	44	3,730	21,200	21,600	5.68	5.80	1.23
A3-SW	36	3,050	21,200	29,400	6.94	9.64	1.66
A4-SC	49	4,160	24,900	39,000	5.98	9.39	1.50
A5-SE	54	4,580	21,600	31,700	4.70	6.93	1.79
A0-NS <sup>c</sup>	12	1,020	2,600	3,700	2.56	3.67	2.03
M1-W	41	3,480	26,200	34,700	7.54	9.98	1.61
M2-NC	24	2,040	19,000	20,500	9.33	10.08	1.52
M3-SC	36	3,050	17,000	21,500	5.56	7.03	1.57
M4-FH	25	2,120	11,400	21,600	5.38	10.16	1.38
M5-NE	26	2,210	12,600	11,400	5.69	5.15	1.02
M6-SE	53	4,500	23,900	35,100	5.32	7.81	1.78

<sup>a</sup> The sum of regional values may not precisely equal state total due to computation method.

<sup>b</sup> Management regions are the same as for bobwhite.

<sup>c</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.

Table 14c. **Non-Resident** hunter activity for **COTTONTAILS**, 2006-2007 season <sup>a</sup>.

Region <sup>b</sup>	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	68	3,000	12,000	19,000	3.96	6.32	1.59
A1-NW	23	1,030	4,920	8,390	4.77	8.14	1.40
A2-NE	6	270	1,290	1,400	4.80	5.20	1.00
A3-SW	17	760	2,760	4,130	3.62	5.41	1.88
A4-SC	3	130	270	360	2.00	2.67	1.00
A5-SE	4	180	270	220	1.50	1.25	1.25
A0-NS <sup>c</sup>	15	670	2,640	4,850	3.93	7.21	1.95
M1-W	20	900	3,990	8,070	4.45	9.00	1.75
M2-NC	19	850	3,220	3,460	3.78	4.06	1.37
M3-SC	5	220	920	1,390	4.10	6.20	1.32
M4-FH	2	90	180	360	2.00	4.00	2.00
M5-NE	4	180	960	900	5.33	5.00	0.93
M6-SE	3	130	220	130	1.67	1.00	1.00

<sup>a</sup> The sum of regional values may not precisely equal state total due to computation method.

<sup>b</sup> Management regions are the same as for bobwhite.

<sup>c</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.

Table 15a. **All** hunter activity for **JACKRABBITS**, 2006-2007 season <sup>a</sup>.

Region <sup>b</sup>	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	53	3,640	29,700	57,900	8.12	15.82	1.73
A1-NW	13	900	8,300	10,300	9.23	11.35	1.43
A2-NE	0	0	0	0			
A3-SW	31	2,350	46,600	46,300	19.84	19.71	1.98
A4-SC	0	0	0	0			
A5-SE	1	40	40	40	1.00	1.00	1.00
A0-NS <sup>c</sup>	8	360	1,130	1,380	3.14	3.86	1.10
M1-W	40	3,000	28,100	56,100	9.40	18.71	1.89
M2-NC	2	120	210	210	1.67	1.67	1.00
M3-SC	2	120	210	210	1.67	1.67	1.00
M4-FH	1	40	40	40	1.00	1.00	1.00
M5-NE	0	0	0	0			
M6-SE	0	0	0	0			

<sup>a</sup> The sum of regional values may not precisely equal state total due to computation method.

<sup>b</sup> Management regions are the same as for bobwhite.

<sup>c</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.

Table 15b. **Resident** hunter activity for **JACKRABBITS**, 2006-2007 season <sup>a</sup>.

Region <sup>b</sup>	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	32	2,700	25,700	54,100	9.47	19.94	2.05
A1-NW	8	680	6,500	8,600	9.63	12.63	1.65
A2-NE	0	0	0	0			
A3-SW	24	2,040	45,600	45,600	22.38	22.38	2.20
A4-SC	0	0	0	0			
A5-SE	0	0	0	0			
A0-NS <sup>c</sup>	0	0	0	0			
M1-W	30	2,550	25,500	53,900	10.04	21.17	2.13
M2-NC	1	80	170	170	2.00	2.00	1.00
M3-SC	1	80	80	80	1.00	1.00	1.00
M4-FH	0	0	0	0			
M5-NE	0	0	0	0			
M6-SE	0	0	0	0			

<sup>a</sup> The sum of regional values may not precisely equal state total due to computation method.

<sup>b</sup> Management regions are the same as for bobwhite.

<sup>c</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.

Table 15c. **Non-Resident** hunter activity for **JACKRABBITS**, 2006-2007 season <sup>a</sup>.

Region <sup>b</sup>	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	21	940	4,000	3,770	4.25	4.00	0.82
A1-NW	5	220	1,790	1,660	8.00	7.40	0.76
A2-NE	0	0	0	0			
A3-SW	7	310	990	670	3.14	2.14	0.54
A4-SC	0	0	0	0			
A5-SE	1	40	40	40	1.00	1.00	1.00
A0-NS <sup>c</sup>	8	360	1,130	1,380	3.14	3.86	1.10
M1-W	10	450	2,600	2,150	5.80	4.80	0.56
M2-NC	1	40	40	40	1.00	1.00	1.00
M3-SC	1	40	130	130	3.00	3.00	1.00
M4-FH	1	40	40	40	1.00	1.00	1.00
M5-NE	0	0	0	0			
M6-SE	0	0	0	0			

<sup>a</sup> The sum of regional values may not precisely equal state total due to computation method.

<sup>b</sup> Management regions are the same as for bobwhite.

<sup>c</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.

Table 16a. **All** hunter activity for **SQUIRRELS**, 2006-2007 season <sup>a</sup>.

Region <sup>b</sup>	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	167	13,600	86,000	105,000	6.28	7.72	1.45
A1-NW	7	550	4,900	2,700	8.95	5.02	1.21
A2-NE	63	5,220	31,700	32,700	6.07	6.25	1.29
A3-SW	8	600	2,200	2,100	3.69	3.41	1.18
A4-SC	25	2,040	13,300	22,300	6.54	10.93	1.61
A5-SE	55	4,510	29,900	40,700	6.62	9.02	1.55
A0-NS <sup>c</sup>	9	640	3,300	4,700	5.06	7.40	2.07
M1-W	8	630	2,200	2,000	3.54	3.27	1.17
M2-NC	14	1,140	6,900	5,800	6.01	5.08	1.33
M3-SC	14	1,110	6,000	9,400	5.48	8.54	1.50
M4-FH	24	1,960	13,500	24,400	6.93	12.47	1.66
M5-NE	44	3,650	24,000	20,500	6.57	5.61	1.22
M6-SE	54	4,420	29,300	38,300	6.64	8.64	1.53

<sup>a</sup> The sum of regional values may not precisely equal state total due to computation method.

<sup>b</sup> Management regions are the same as for bobwhite.

<sup>c</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.

Table 16b. **Resident** hunter activity for **SQUIRRELS**, 2006-2007 season <sup>a</sup>.

Region <sup>b</sup>	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	152	12,900	84,000	102,000	6.49	7.87	1.42
A1-NW	6	510	4,800	2,700	9.50	5.33	1.27
A2-NE	60	5,090	31,300	32,000	6.15	6.28	1.28
A3-SW	6	510	2,100	2,000	4.17	3.83	1.22
A4-SC	23	1,950	13,200	22,200	6.77	11.36	1.61
A5-SE	51	4,330	29,400	39,500	6.78	9.12	1.50
A0-NS <sup>c</sup>	6	510	2,900	3,600	5.67	7.17	1.75
M1-W	7	590	2,200	2,000	3.71	3.43	1.19
M2-NC	13	1,100	6,800	5,800	6.15	5.23	1.36
M3-SC	12	1,020	5,900	9,400	5.83	9.25	1.58
M4-FH	22	1,870	13,400	23,900	7.19	12.81	1.57
M5-NE	42	3,560	23,700	20,200	6.64	5.67	1.23
M6-SE	50	4,240	28,800	37,100	6.80	8.73	1.47

<sup>a</sup> The sum of regional values may not precisely equal state total due to computation method.

<sup>b</sup> Management regions are the same as for bobwhite.

<sup>c</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.

Table 16c. **Non-Resident** hunter activity for **SQUIRRELS**, 2006-2007 season <sup>a</sup>.

Region <sup>b</sup>	Sample Size	Est. Total Hunters	Est. Total Days	Est. Total Harvest	Season Days Per Hunter	Season Bag Per Hunter	Avg. Bag Per Day
STATE	15	670	1,600	3,200	2.33	4.80	2.15

Table 17. 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 <sup>b</sup>	14.83 <sup>b</sup>
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

<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 18a. **AGE** of **RESIDENT** respondents to 2006 Small Game Harvest Survey <sup>a</sup>.

Age <sup>b</sup>	Number	Percent of Total	Age <sup>b</sup>	Number	Percent of Total
17	24	1.44	42	29	1.74
18	24	1.44	43	49	2.93
19	12	0.72	44	43	2.57
20	9	0.54	45	59	3.53
21	13	0.78	46	52	3.11
22	16	0.96	47	59	3.53
23	7	0.42	48	51	3.05
24	16	0.96	49	57	3.41
25	20	1.20	50	57	3.41
26	14	0.84	51	57	3.41
27	16	0.96	52	59	3.53
28	24	1.44	53	62	3.71
29	15	0.90	54	48	2.87
30	23	1.38	55	43	2.57
31	15	0.90	56	36	2.15
32	18	1.08	57	47	2.81
33	24	1.44	58	53	3.17
34	25	1.50	59	54	3.23
35	29	1.74	60	41	2.45
36	33	1.97	61	36	2.15
37	28	1.68	62	42	2.51
38	33	1.97	63	28	1.68
39	25	1.50	64	43	2.57
40	36	2.15	65	36	2.15
41	31	1.86			

<sup>a</sup> Only 79.5% of the resident survey respondents actively hunted small game in the 2006-2007 seasons.

<sup>b</sup> Hunters under 16 or over 64 are not required to purchase hunting licenses, so are generally not sampled.

Table 18b. **AGE** of **NON-RESIDENT** respondents to 2006 Small Game Harvest Survey <sup>a</sup>.

Age <sup>b</sup>	Number	Percent of Total	Age <sup>b</sup>	Number	Percent of Total
10	1	0.07	50	51	3.79
11	5	0.37	51	40	2.97
12	4	0.30	52	27	2.00
13	3	0.22	53	35	2.60
14	6	0.45	54	38	2.82
15	9	0.67	55	34	2.52
16	6	0.45	56	45	3.34
17	5	0.37	57	39	2.90
18	4	0.30	58	32	2.38
19	1	0.07	59	46	3.41
20	4	0.30	60	42	3.12
21	3	0.22	61	36	2.67
22	3	0.22	62	27	2.00
23	9	0.67	63	29	2.15
24	5	0.37	64	30	2.23
25	6	0.45	65	35	2.60
26	10	0.74	66	28	2.08
27	5	0.37	67	22	1.63
28	5	0.37	68	20	1.48
29	7	0.52	69	17	1.26
30	16	1.19	70	11	0.82
31	9	0.67	71	16	1.19
32	16	1.19	72	18	1.34
33	12	0.89	73	13	0.97
34	22	1.63	74	7	0.52
35	10	0.74	75	4	0.30
36	25	1.86	76	8	0.59
37	27	2.00	77	1	0.07
38	20	1.48	78	2	0.15
39	20	1.48	79	2	0.15
40	24	1.78	80	2	0.15
41	21	1.56	81	2	0.15
42	18	1.34	82	1	0.07
43	23	1.71	83	1	0.07
44	30	2.23	84	0	0.00
45	29	2.15	85	1	0.07
46	32	2.38	86	1	0.07
47	45	3.34	87	1	0.07
48	42	3.12	88	0	0.00
49	40	2.97	89	0	0.00
			90	1	0.07

<sup>a</sup> Only 75.5% of the non-resident survey respondents actively hunted small game in the 2006-2007 seasons.

Table 19. COUNTY OF RESIDENCE of RESIDENT respondents to 2006 Small Game Harvest Survey <sup>a</sup>.

County	Number	Percent of Total	County	Number	Percent of Total
AL	8	0.48	LN	14	0.84
AN	9	0.54	LG	2	0.12
AT	12	0.72	LY	22	1.32
BA	2	0.12	MP	32	1.92
BT	32	1.92	MN	10	0.60
BB	15	0.90	MS	13	0.78
BR	8	0.48	ME	0	0.00
BU	60	3.61	MI	24	1.44
CS	3	0.18	MC	17	1.02
CQ	5	0.30	MG	26	1.56
CK	16	0.96	MR	10	0.60
CN	2	0.12	MT	5	0.30
CA	2	0.12	NM	13	0.78
CY	19	1.14	NO	10	0.60
CD	10	0.60	NS	5	0.30
CF	10	0.60	NT	9	0.54
CM	2	0.12	OS	24	1.44
CL	27	1.62	OB	5	0.30
CR	21	1.26	OT	6	0.36
DC	3	0.18	PN	11	0.66
DK	28	1.68	PL	5	0.30
DP	5	0.30	PT	12	0.72
DG	30	1.80	PR	11	0.66
ED	7	0.42	RA	2	0.12
EK	5	0.30	RN	30	1.80
EL	25	1.50	RP	5	0.30
EW	6	0.36	RC	8	0.48
FI	24	1.44	RL	24	1.44
FO	23	1.38	RO	10	0.60
FR	18	1.08	RH	5	0.30
GE	25	1.50	RS	15	0.90
GO	3	0.18	SA	38	2.29
GH	5	0.30	SC	7	0.42
GT	9	0.54	SG	193	11.61
GY	7	0.42	SW	14	0.84
GL	3	0.18	SN	77	4.63
GW	9	0.54	SD	2	0.12
HM	1	0.06	SH	7	0.42
HP	3	0.18	SM	3	0.18
HV	23	1.38	SF	7	0.42
HS	3	0.18	ST	1	0.06
HG	5	0.30	SV	5	0.30
JA	13	0.78	SU	27	1.62
JF	17	1.02	TH	6	0.36
JW	5	0.30	TR	3	0.18
JO	182	10.94	WB	6	0.36
KE	7	0.42	WA	2	0.12
KM	4	0.24	WS	12	0.72
KW	4	0.24	WH	4	0.24
LB	21	1.26	WL	4	0.24
LE	5	0.30	WO	3	0.18
LV	40	2.41	WY	22	1.32
LC	4	0.24			

<sup>a</sup> Only 79.5% of the resident survey respondents actively hunted small game in the 2006-2007 seasons.

## **RELATIVE RESIDENT AND NON-RESIDENT SMALL GAME HUNTING INTERESTS**

**2006**

*For the first time, it was possible to make direct comparisons of Kansas Resident (R) and Non-Resident (NR) hunting activity from separate randomly-selected samples. This was made possible with the implementation of the Kansas Outdoor Licensing System (KOALS) which became functional in August 2005, with 2006 being it's first full calendar year of operation. Similar comparisons of residents and non-residents were made in the past using non-random samples from NR hunters and, generally, the new random-sampling method corroborates the hunting patterns of non-residents as previously estimated.*

*This survey, as those of previous years, indicates that ring-necked pheasants remain the species most pursued by both R and NR small-game hunters in Kansas, with a greater proportion (86%) of NR small game hunters pursuing pheasants than R small game hunters (71%). The presence of substantial pheasant populations also influences where NR hunters pursue other species such as bobwhite. About 81% of NR small game hunters hunt Bobwhite in the NW (M1), SW (M2), and NC (M3) regions as compared to 64% for R small game hunters. Pheasant population levels exert a disproportionate influence on the number of NR hunters who come to Kansas each fall. In the past, a one-year lag effect has been evident in that NR hunters have been more closely correlated with pheasant populations of the previous year rather than those of the current year. That is, improved hunting resultant from good pheasant production in one year produced an increase in NR hunters the following year, and the reverse. The growth and popularity of the WIHA program has played a significant role in increases in NR hunters and may have partially masked this lag effect in recent years.*

*Resident and NR small game hunters show similar preferences for hunting bobwhite, greater prairie-chickens, and jackrabbits. However, NR hunters exhibit much lower tendencies to hunt doves, cottontails, and squirrels than R small game hunters. Although hunting participation for lesser prairie chickens is quite low (< 1%) for both R and NR hunters, there appears to be greater interest on the part of NR hunters to pursue this species. This may reflect the fact that Kansas is one of only two states where lesser prairie-chickens may be legally taken. Some of these NR hunters may also pursue this species as part of a North American grouse grand slam.*

*Hunting participation also reflects changes in small game populations over time. The clearest examples of this are the changes, both over time and regionally, in the numbers and proportions of small game hunters who have pursued bobwhite. The proportion of resident small game hunters who hunt bobwhite has typically diminished in years following population crashes and increased around population highs. Since the bobwhite crash that occurred in the winter of 2000–2001, not only have overall numbers of quail hunters declined, but the proportion of small-game hunters who pursued quail has also remained low. Regionally, the northeast (M5) and southeast (M6) quail management regions only accounted for 23% of the overall numbers of quail hunters in 2006, compared to values of 40–42% in the early 1980's. Quail habitat deterioration and changes in societal interests probably account for these declines.*

Table 20a. Regional breakdown of **RESIDENT** hunting activity as indicated by sample sizes for the 2006-2007 season. State values in ( ) indicate percent of the 1,357 active **Resident** respondents. Regional values in ( ) indicate percent of the state total for the species.

Sample Size by Species								
Region <sup>a</sup>	Doves	Bobwhite	Pheasants	Greater Prairie Chickens	Lesser Prairie Chickens	Cottontails	Jackrabbits	Squirrels
State	567 (42)	698 (51)	960 (71)	48 ( 3)	3 ( <1)	217 (16)	32 ( 2)	152 (11)
A1-NW	104 (18)	128 (18)	314 (33)	14 (29)		22 (10)	8 (25)	6 ( 4)
A2-NE	104 (18)	144 (21)	136 (14)	9 (19)		44 (20)		60 (39)
A3-SW	108 (19)	136 (19)	282 (29)		3 (100)	36 (17)	24 (75)	6 ( 4)
A4-SC	152 (27)	169 (24)	156 (16)	19 (40)		49 (23)		23 (15)
A5-SE	85 (15)	88 (13)	6 (<1)	3 ( 6)		54 (25)		51 (34)
A0-NS <sup>b</sup>	14 ( 2)	33 ( 5)	66 ( 7)	3 ( 6)		12 ( 6)		6 ( 4)
M1	54 (10)	121 (17)	88 ( 9)		3 (100)	41 (19)	30 (94)	7 ( 5)
M2	102 (18)	137 (20)	251 (26)	12 (25)		24 (11)	1 ( 3)	13 ( 9)
M3	98 (17)	162 (23)	235 (24)	22 (46)		36 (17)	1 ( 3)	12 ( 8)
M4	163 (29)	83 (12)	140 (15)			25 (12)		22 (14)
M5	70 (12)	91 (13)	170 (18)			26 (12)		42 (28)
M6	66 (12)	71 (10)	10 ( 1)	11 (23)		53 (24)		50 (33)

<sup>a</sup> Management regions differ between species.

<sup>b</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.

Table 20b. Regional breakdown of **NON-RESIDENT** hunting activity as indicated by sample sizes for the 2006-2007 season. State values in ( ) indicate percent of the 1,026 active **NR** respondents. Regional values in ( ) indicate percent of the state total for the species.

Sample Size by Species								
Region <sup>a</sup>	Doves	Bobwhite	Pheasants	Greater Prairie Chickens	Lesser Prairie Chickens	Cottontails	Jackrabbits	Squirrels
State	92 ( 9)	483 (47)	882 (86)	33 ( 3)	9 ( <1)	68 ( 7)	21 ( 2)	15 ( 1)
A1-NW	30 (33)	119 (27)	293 (33)	24 (69)		23 (34)	5 (24)	1 ( 7)
A2-NE	12 (13)	44 ( 9)	59 ( 7)	1 ( 3)		6 ( 9)		3 (20)
A3-SW	17 (18)	129 (27)	227 (26)		9 (100)	17 (25)	7 (33)	2 (13)
A4-SC	5 ( 5)	40 ( 8)	39 ( 4)			3 ( 4)		2 (13)
A5-SE	10 (11)	36 ( 7)	3 (<1)	2 ( 6)		4 ( 6)	1 ( 5)	4 (27)
A0-NS <sup>b</sup>	18 (20)	115 (24)	261 (30)	8 (23)		15 (22)	8 (38)	3 (20)
M1	20 (22)	100 (21)	105 (12)		9 (100)	20 (29)	10 (48)	1 ( 7)
M2	14 (15)	98 (20)	203 (23)	1 ( 3)		19 (28)	1 ( 5)	1 ( 7)
M3	18 (20)	91 (19)	193 (22)	1 ( 3)		5 ( 7)	1 ( 5)	2 (13)
M4	9 (10)	25 ( 5)	47 ( 5)			2 ( 3)	1 ( 5)	2 (13)
M5	7 ( 8)	30 ( 6)	67 ( 8)	2 ( 6)		4 ( 6)		2 (13)
M6	6 ( 7)	24 ( 5)	6 (<1)	21 (66)		3 ( 4)		4 (27)

<sup>a</sup> Management regions differ between species.

<sup>b</sup> County hunted not specified. Non-specified management region equals non-specified administrative region.

