

***Trends in Resident and Non-resident Hunter Effort and
Harvest for Quail in Mississippi:
1980-81 to 2010-11 Seasons***



**Human Dimensions & Conservation Law Enforcement Laboratory
Forest and Wildlife Research Center
Mississippi State University**

***Trends in Resident and Non-resident Hunter Effort and
Harvest for Quail in Mississippi:
1980-81 to 2010-11 Seasons***

Prepared for the

**DIVISION of WILDLIFE
MISSISSIPPI DEPARTMENT OF WILDLIFE, FISHERIES & PARKS
P.O. BOX 451
JACKSON, MS 39205**

By

**Human Dimensions & Conservation Law Enforcement Laboratory
Forest and Wildlife Research Center
Mississippi State University
Mississippi State, MS 39762-9609**

April 2012

TABLE OF CONTENTS

TABLE OF CONTENTS.....	i
LIST OF TABLES & FIGURES	ii
INTRODUCTIONS & METHODS.....	1
LITERATURE CITED	2
RESULTS	3

Suggested Citation:

Hunt, K. M. 2012. Trends in Resident and Non-resident Hunter Effort and Harvest for Quail in Mississippi: 1980-81 to 2010-11 Seasons. Human Dimensions and Conservation Law Enforcement Laboratory Technical Document # 131, Mississippi State University, 12 pp.

LIST OF TABLES & FIGURES

Table #		Page
1	Mississippi quail hunting effort & harvest trends for licensed resident hunters (1980 to the Present)	3
2	Mississippi quail hunting effort & harvest trends for licensed non-resident hunters (1994 to the Present)	8
Figure #		
1	Trends in total harvest of quail for licensed resident hunters (1980 to the Present).....	4
2	Trends in average daily kill of quail for licensed resident hunters (1980 to the Present)....	4
3	Trends in average seasonal harvest of quail for licensed resident hunters (1980 to the Present)	5
4	Trends in percent successful quail hunters for licensed resident hunters (1980 to the Present)	5
5	Trends in total man days quail hunting for licensed resident hunters (1980 to the Present)	6
6	Trends in average seasonal days quail hunting for licensed resident hunters (1980 to the Present)	6
7	Trends in total quail hunters for licensed resident hunters (1980 to the Present).....	7
8	Trends in proportion of licensed resident hunters who hunted for quail (1980 to the Present)	7
9	Trends in total harvest of quail for licensed non-resident hunters (1994 to the Present)	9
10	Trends in average daily kill of quail for licensed non-resident hunters (1994 to the Present)	9
11	Trends in average seasonal harvest of quail for licensed non-resident hunters (1994 to the Present)	10
12	Trends in percent successful quail hunters for licensed non-resident hunters (1994 to the Present)	10
13	Trends in total man days quail hunting for licensed non-resident hunters (1994 to the Present)	11

14	Trends in average seasonal days quail hunting for licensed non-resident hunters (1994 to the Present)	11
15	Trends in total quail hunters for licensed non-resident hunters (1994 to the Present)	12
16	Trends in proportion of licensed non-resident hunters who hunted for quail (1994 to the Present)	12

INTRODUCTION & METHODS

Self-administered mail surveys of resident hunters have been conducted intermittently since the 1947-48 Mississippi hunting season to estimate hunter effort and game harvest in Mississippi, with annual surveys (unless noted) starting in the 1980-1981 hunting season. Non-resident hunter surveys began on an annual basis in the 1994-95 hunting season (unless noted).

Annual surveys were completed by the Human Dimensions & Conservation Law Enforcement Laboratory in the Forest & Wildlife Research Center at Mississippi State University from 2001 thru 2011 using mail survey methodology prescribed by Dillman (2000). This entailed an introductory letter being sent to hunters followed one-week later by another letter, questionnaire, and business reply envelope (i.e., a complete packet). Ten days after that, hunters were sent a reminder/thank you postcard. Non-respondents were sent a complete packet as necessary three and seven weeks after the postcard.

These surveys provide information to biologists and researchers to determine trends in total harvest, average seasonal harvest per hunter, average daily harvest per hunter, average person-days spent afield, total person-days spent afield, percent successful hunters, and the proportion of hunters seeking 13 different game species and feral hog. This report includes mail survey data for quail (*Colinus virginianus*) spanning from the 1980-1981 hunting season to the 2010-11 hunting season for resident hunters, and data spanning from the 1994-1995 hunting season to the 2010-11 hunting season for non-resident hunters.

This document will be updated annually with most recent data and will evolve to include other measures and information as that information is extracted from archived files. This report does not attempt to determine and describe trends in hunter effort and harvest. It is meant to provide the reader with the data for these estimates in an organized manner.

LITERATURE CITED

Dillman, D.A. 2000. *Mail and Internet Surveys: The Tailored Design Method*. 2nd Edition. New York: John Wiley and Sons, Inc.

RESULTS

TABLE 1. Mississippi quail hunting effort and harvest trends for licensed resident hunters
(1980 to the Present)

	TOTAL HARVEST	SE of TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENCEES
1981	1,504,599	81,835	3.22	23.18	88.2	449,740	7.05	65,084	25.4
1982	1,284,291	131,463	3.04	23.14	89.2	424,676	7.71	56,248	23.1
1983	1,226,987	114,429	2.98	21.46	89.1	412,475	7.24	57,562	21.9
1984	1,260,278	144,654	3.02	24.59	87.0	406,151	8.15	51,849	20.0
1985	854,804	87,960	2.87	18.76	89.5	298,529	6.61	45,651	17.8
1986	708,449	50,055	2.56	17.42	84.7	275,086	6.88	40,748	16.1
1987	617,893	70,282	2.73	15.49	84.9	228,568	5.91	39,995	15.7
1988	604,346	75,220	2.81	14.19	81.0	225,762	5.39	42,949	16.7
1989	-	-	-	-	-	-	-	-	-
1990	363,209	56,169	2.62	15.54	81.7	134,069	5.83	42,183	18.4
1991	429,882	73,113	2.77	20.82	87.9	152,762	7.71	25,706	11.2
1992	220,474	35,482	2.16	11.91	76.7	101,888	5.59	18,580	8.20
1993	215,093	29,214	2.04	10.95	80.2	104,297	5.42	19,634	8.50
1994	194,622	18,398	2.18	13.42	84.2	87,633	6.17	14,507	6.60
1995	230,721	48,460	2.35	17.43	72.5	98,673	7.62	13,446	6.20
1996	156,319	26,248	2.34	12.11	80.9	62,361	4.96	12,998	6.20
1997	98,460	16,836	2.34	10.28	80.3	55,203	4.96	9,579	4.60
1998	111,100	18,194	2.21	10.09	75.6	49,806	4.63	11,170	5.40
1999	140,233	20,787	2.10	12.91	82.8	65,193	6.16	10,987	5.30
2000	-	-	-	-	-	-	-	-	-
2001	53,132	8,313.80	1.42	8.84	79.8	36,851	6.26	6,010	3.00
2002	89,471	17,821.15	2.25	13.03	77.5	37,426	5.85	6,867	3.40
2003	64,142	13,754.49	2.48	11.06	76.4	25,376	4.46	5,800	3.10
2004	84,710	21,078	3.2	14.59	82.9	26,104	4.72	5,808	3.1
2005	53,163	15,388	2.23	9.00	80.0	21,903	3.96	5,907	3.2
2006	50,501	12,106	7.9	11.44	83.7	21,786	5.17	4,414	2.5
2007	16,928	6,485	1.5	9.35	82.4	9,801	5.75	1,810	1
2008	28,641	8,229	1.15	8.8	66.7	24,641	7.83	3,255	1.8
2009	44,966	13,544	4.08	12.36	76	8,891	2.65	3,638	2
2010	24,362	6,523	3.18	10.95	100	7,155	3.59	2,225	1.3
2011	48,938	33,854	3.1	19.78	83.3	15,684	6.71	2,474	1.5

(A) Calculated as a percent of small game license holders only

Figure 1. Trends in total harvest of quail for licensed resident hunters (1980 to the Present)

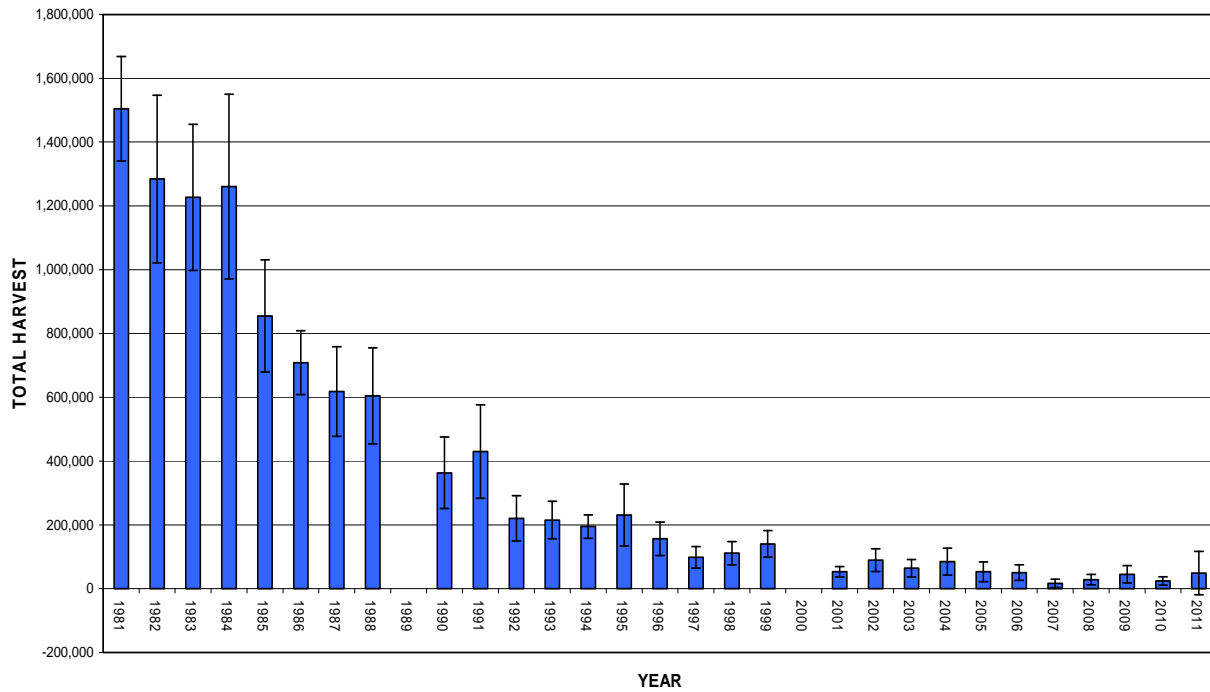


Figure 2. Trends in average daily kill of quail for licensed resident hunters (1980 to the Present)

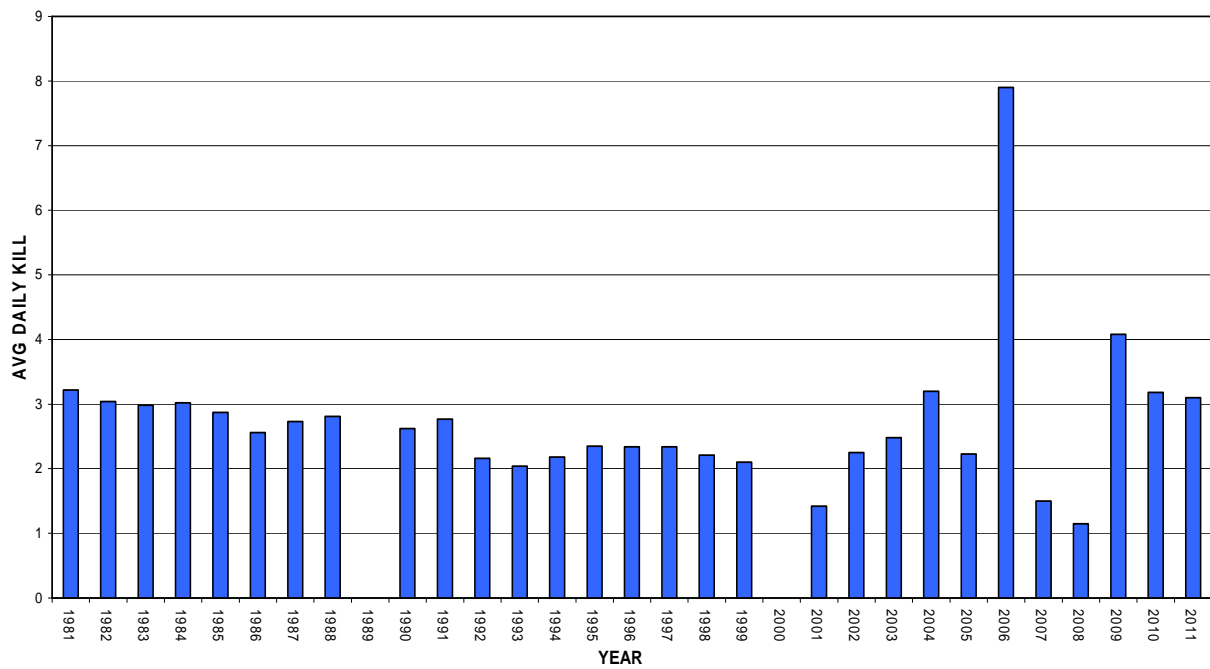


Figure 3. Trends in average seasonal harvest of quail for licensed resident hunters (1980 to the Present)

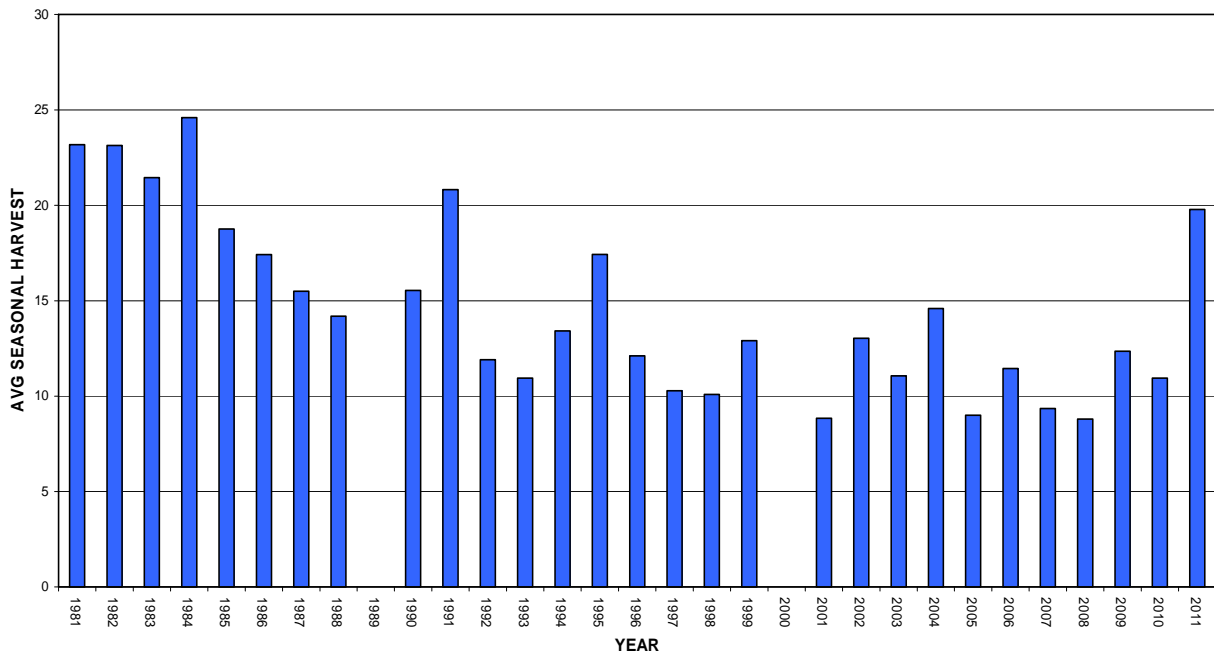


Figure 4. Trends in percent successful quail hunters for licensed resident hunters (1980 to the Present)

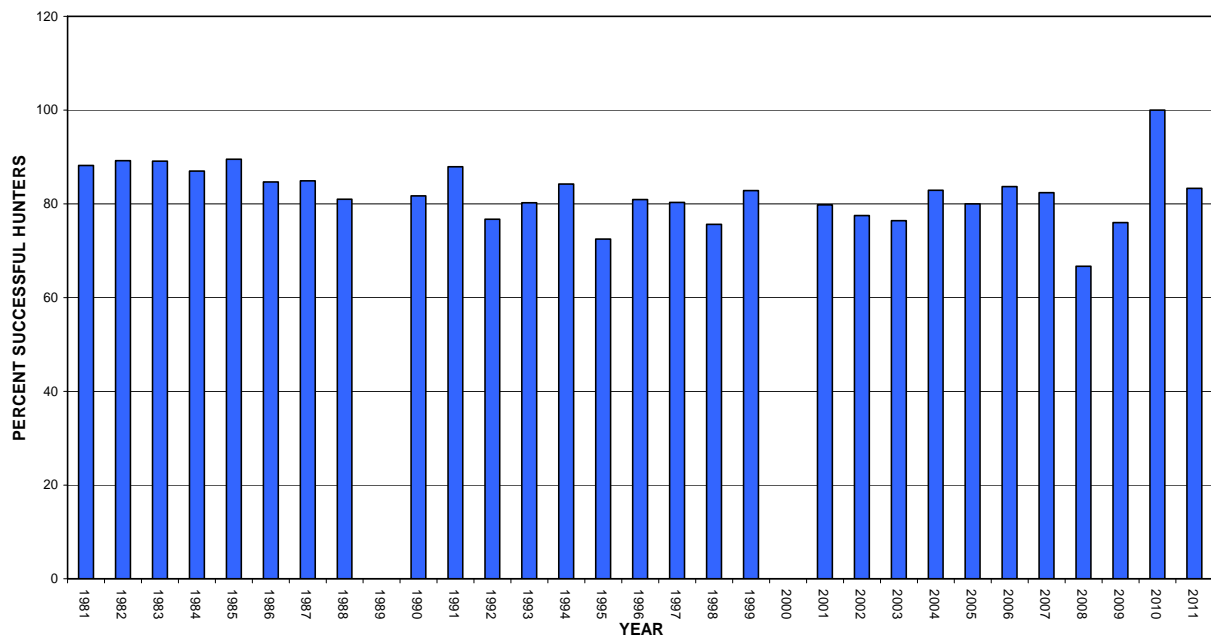


Figure 5. Trends in total man days quail hunting for licensed resident hunters (1980 to the Present)

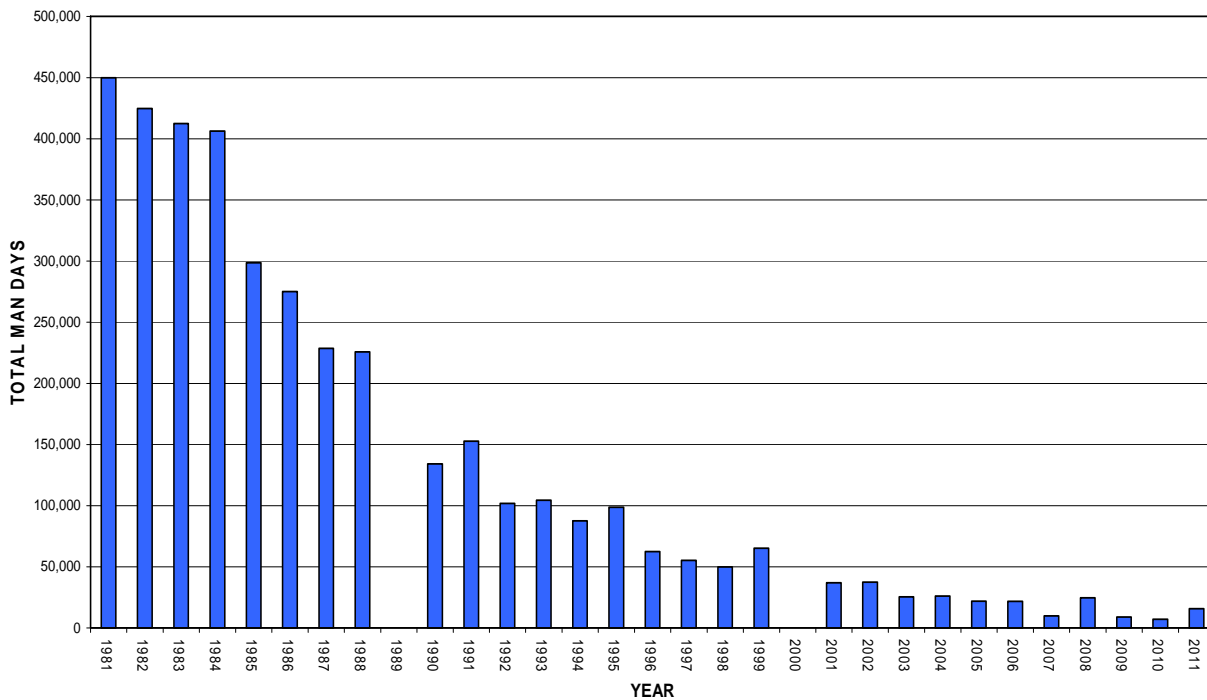


Figure 6. Trends in average seasonal days quail hunting for licensed resident hunters (1980 to the Present)

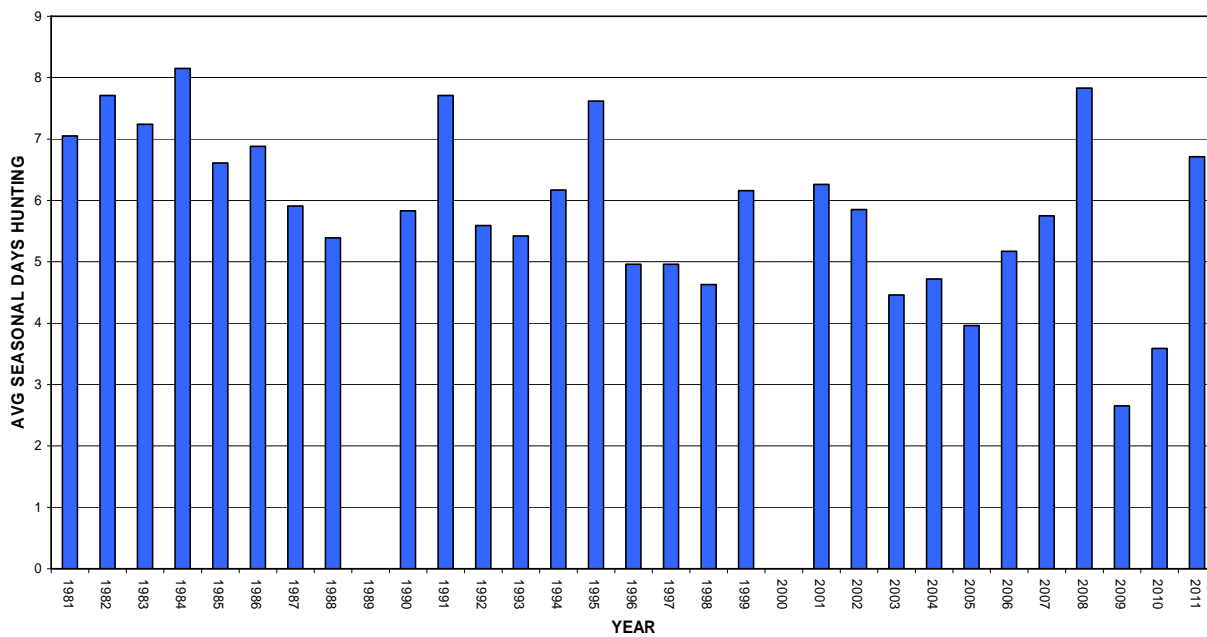


Figure 7. Trends in total quail hunters for licensed resident hunters (1980 to the Present)

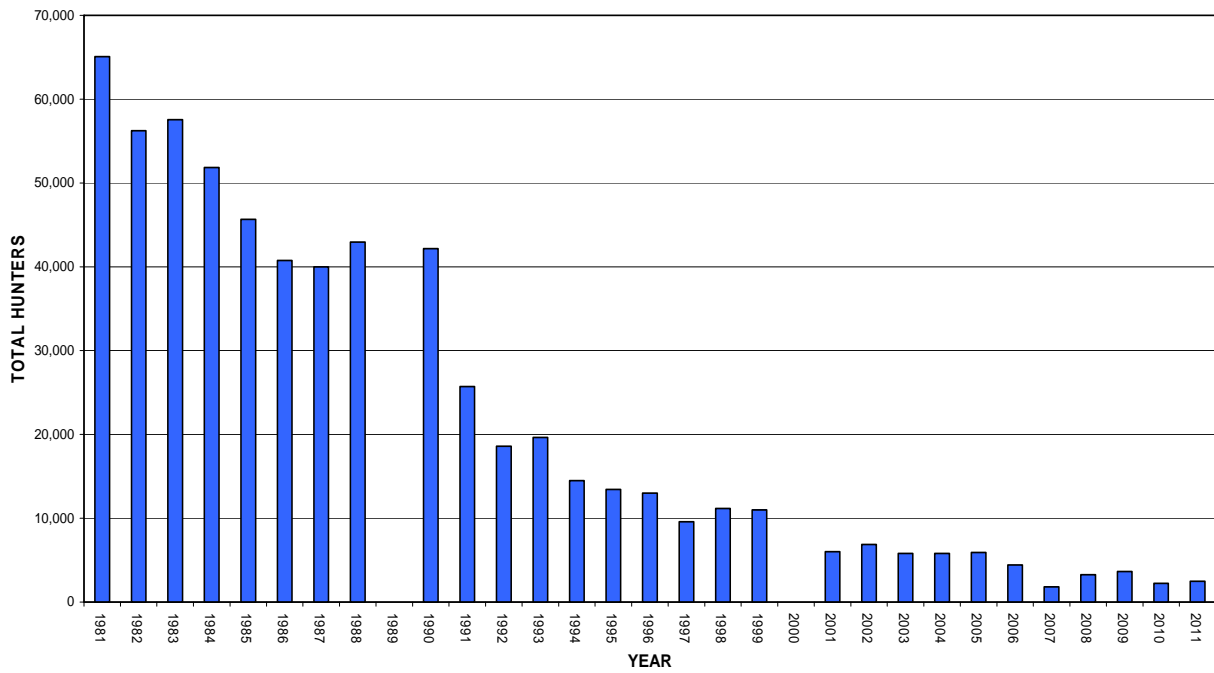


Figure 8. Trends in proportion of licensed resident hunters who hunted for quail (1980 to the Present)

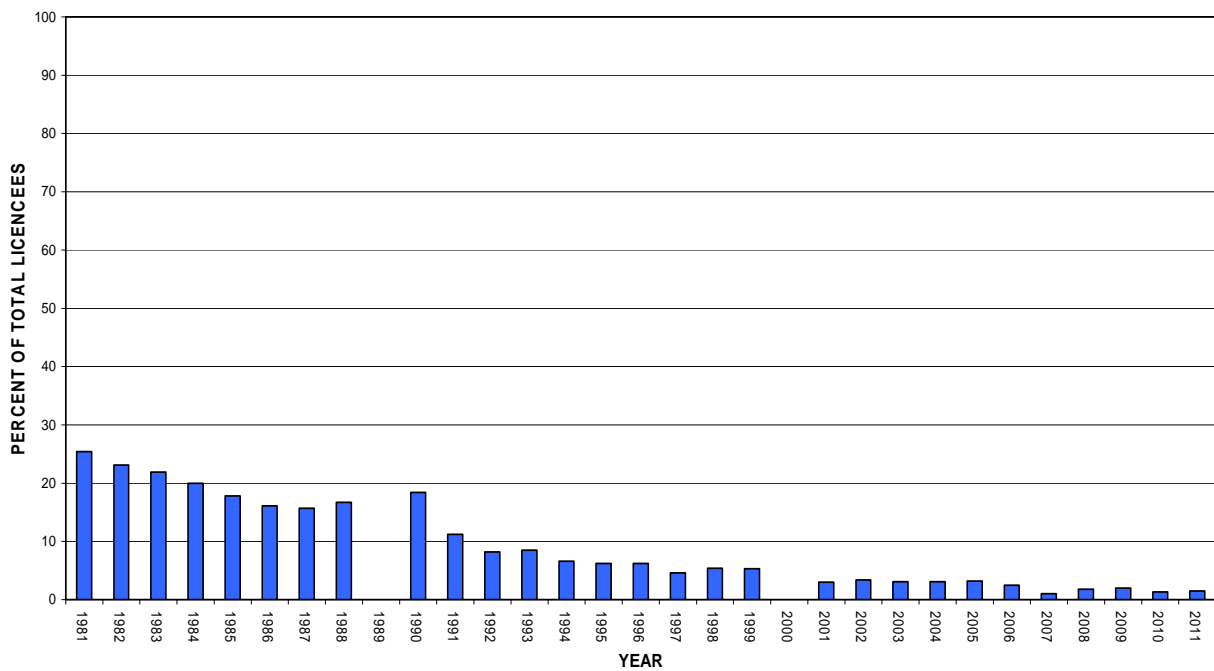


TABLE 2. Mississippi quail hunting effort and harvest trends for licensed non-resident hunters (1994 to the Present)

	TOTAL HARVEST	SE of TOTAL HARVEST	AVERAGE DAILY KILL	AVERAGE SEASONAL HARVEST	PERCENT SUCCESSFUL HUNTERS	TOTAL MAN-DAYS	AVERAGE SEASONAL DAYS HUNTING	TOTAL HUNTERS	PERCENT OF TOTAL LICENCEES
1995	17,910	-	3.45	17.328	0.86	7,513	6.733	995	0.068
1996	9,411	-	2.697	12.297	79.333	4,262	5.427	734	6.133
1997	-	-	-	-	-	-	-	-	-
1998	11,992	-	3.62	16.143	95.325	3,195	4.28	644	3.475
1999	6,523	-	2.947	14.947	93.167	2,033	4.897	390	2.467
2000	-	-	-	-	-	-	-	-	-
2001	8,042	1,804.91	2.27	13.22	85.5	3,455	6	608	1.8
2002	25,549	5,294.14	3.78	21.35	76.3	6,707	5.74	1,197	3.4
2003	5,823.79	2,182.55	4.49	14.88	87.5	1,297	3.31	392	1.2
2004	10,025	4,954	6.24	32.94	83.3	1,606	5.28	305	1
2005	2,582	1,065	3.66	11.7	90	707	3.2	221	0.7
2006	4,973	1,791	3.66	20.93	80	1,315	5.96	238	0.8
2007	6,025	3,169	3	17.2	100	1,052	3.33	350	1
2008	3,305	1,653	6.19	12.38	87.5	534	2	267	0.7
2009	5,078	1,869	2.17	9.79	71.4	2,335	4.5	519	1.4
2010	3,480	1,802	4.82	10.5	75	705	2.43	331	0.9
2011	4,025	2,016	1.76	13.86	71.4	2,282	7.86	290	0.8

(A) Calculated as a percent of small game license holders only

Figure 9. Trends in total harvest of quail for licensed non-resident hunters (1994 to the Present)

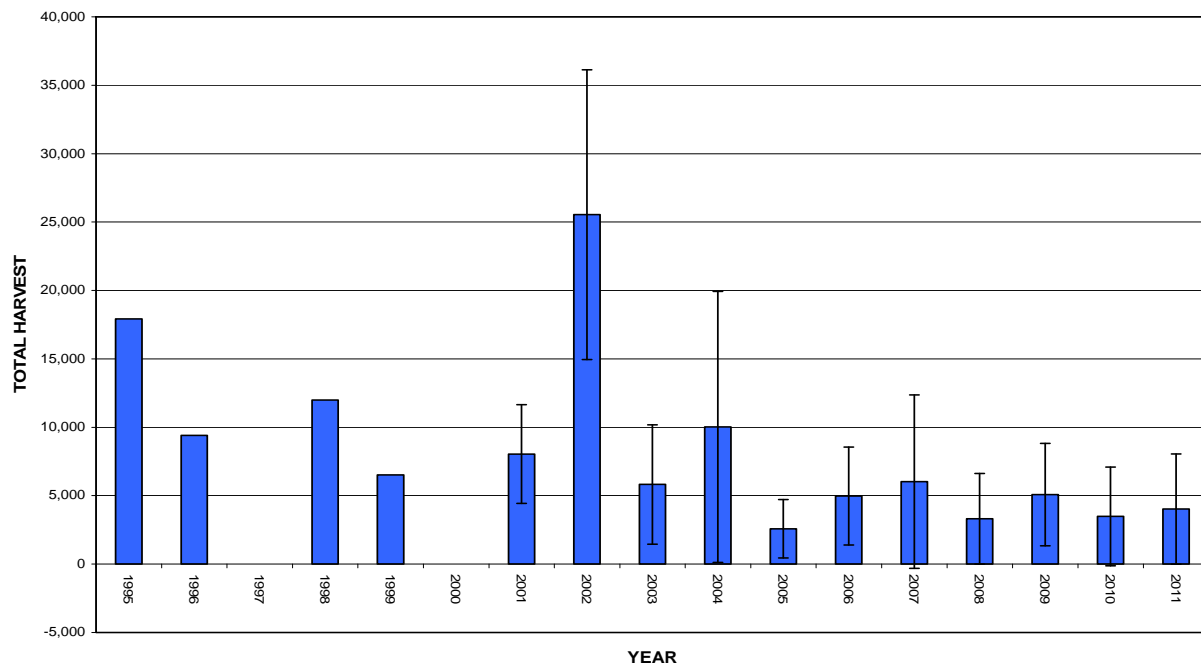


Figure 10. Trends in average daily kill of quail for licensed non-resident hunters (1994 to the Present)

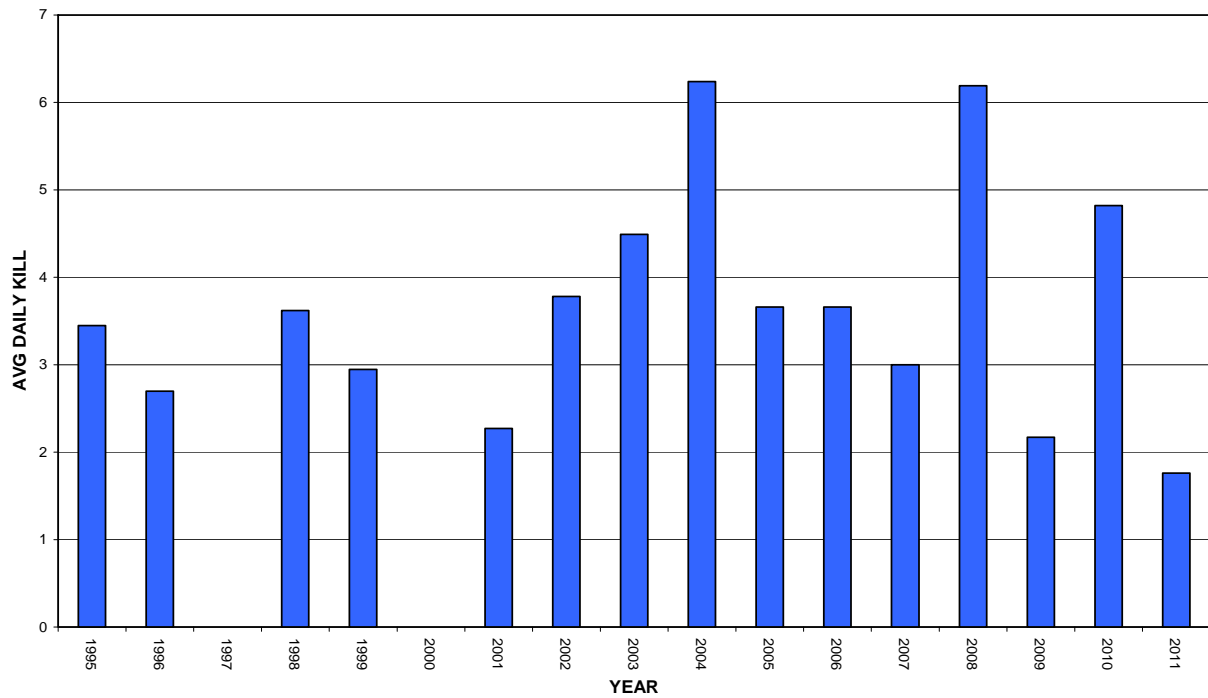


Figure 11. Trends in average seasonal harvest of quail for licensed non-resident hunters (1994 to the Present)

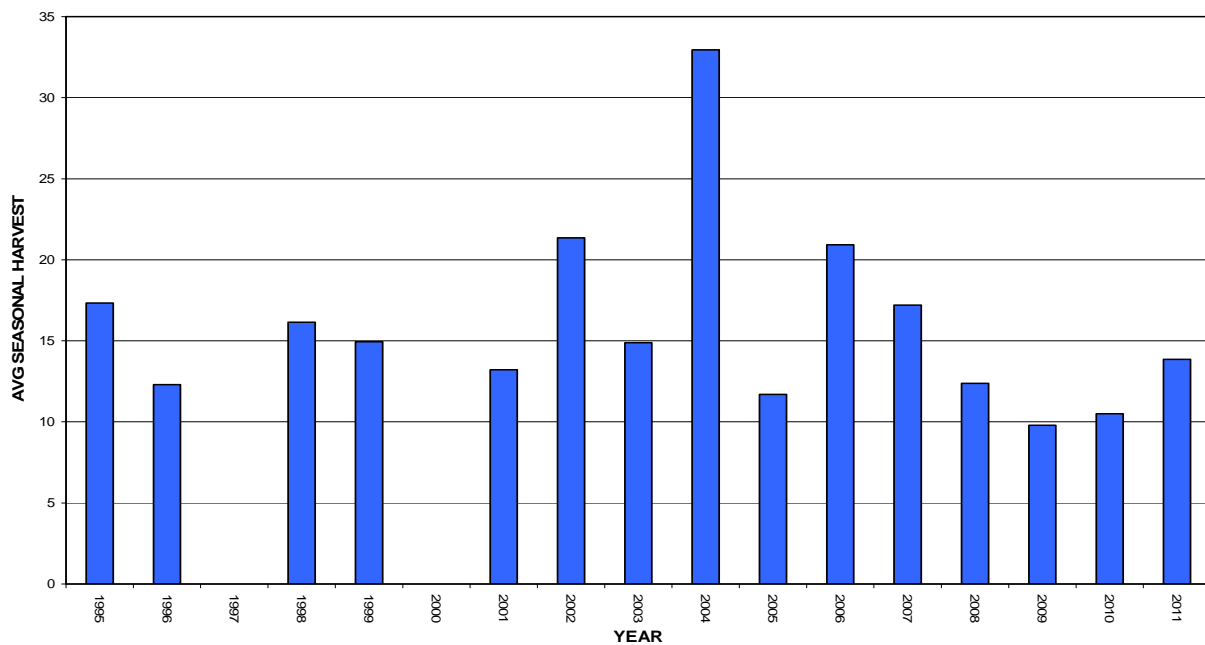


Figure 12. Trends in percent successful quail hunters for licensed non-resident hunters (1994 to the Present)

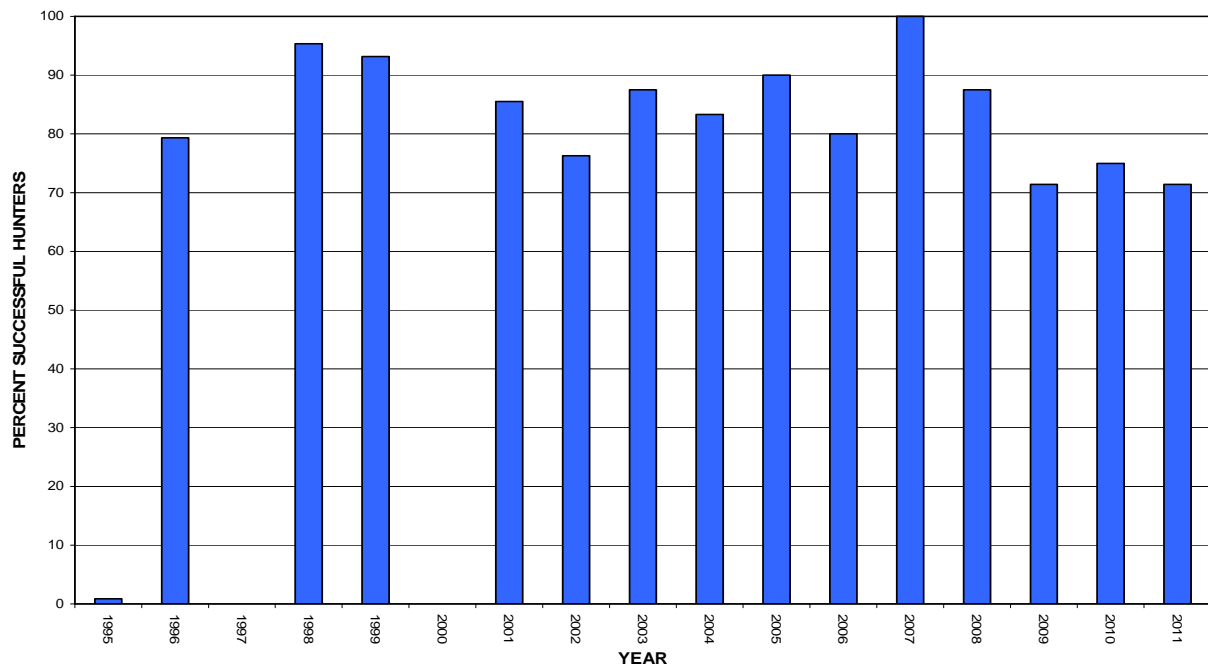


Figure 13. Trends in total man days quail hunting for licensed non-resident hunters (1994 to the Present)

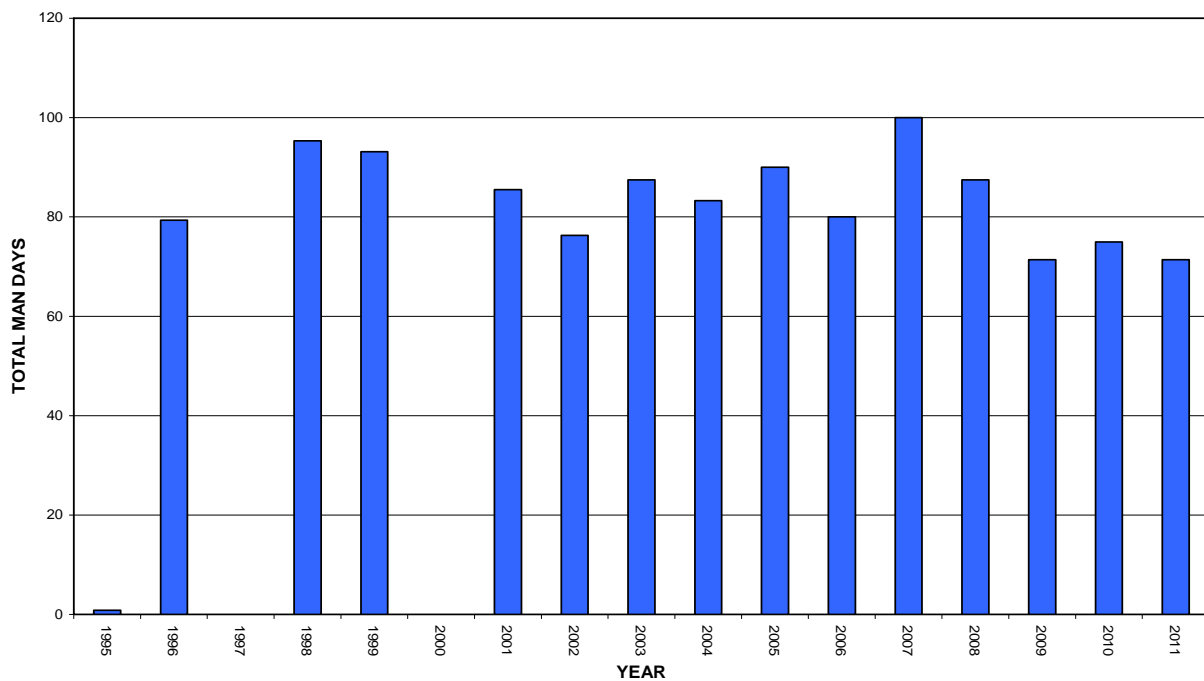


Figure 14. Trends in average seasonal days quail hunting for licensed non-resident hunters (1994 to the Present)

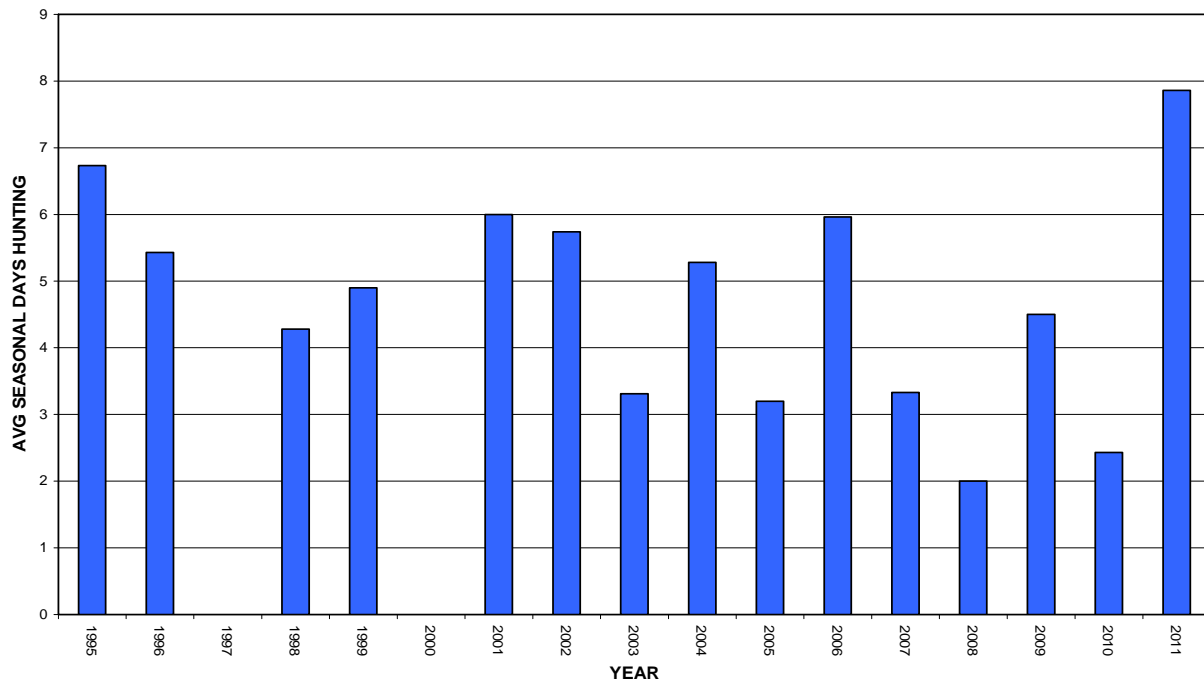


Figure 15. Trends in total quail hunters for licensed non-resident hunters (1994 to the Present)

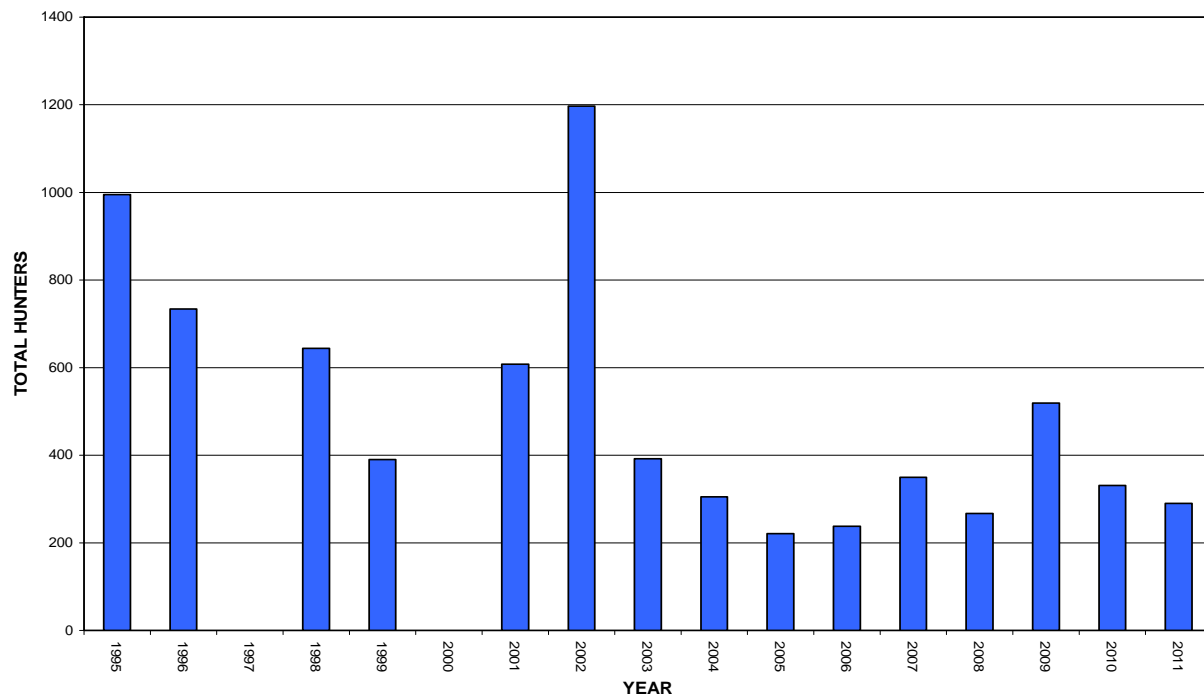


Figure 16. Trends in proportion of licensed non-resident hunters who hunted for quail (1994 to the Present)

