

California Department of Fish and Game
722 Capitol Avenue
Sacramento 14, California

REPORT OF THE 1963 GAME TAKE HUNTER SURVEY

On January 9, 1964 after the close of the 1963-64 waterfowl season in California, hunter game take questionnaires were mailed to 10,814 hunting license purchasers. This represented an approximate two percent random sample of license holders statewide.

Response to these questionnaires has continued at a high level. Some 5,637 usable questionnaires were returned and were 52 percent of the questionnaires mailed, the same percentage return received for the 1962 season.

<u>Year</u>	<u>Questionnaires Mailed</u>	<u>Questionnaires Returned</u>	<u>Percent Response</u>
1954-55	11,011	5,231	47.5
1955-56	11,016	5,082	46.1
1956-57	11,725	5,304	45.2
1957-58	11,275	5,200	46.1
1958-59	10,478	5,036	48.1
1959-60	10,461	5,047	48.1
1960-61	10,676	5,314	49.8
1961-62	10,902	5,590	51.3
1962-63	10,366	5,393	52.0
1963-64	10,814	5,637	52.1

The estimated total hunting license sales figure divided by the number of questionnaires returned provided the projection factor for calculating total bag figures. The projection figure used for the 1963-64 hunting season calculations was $650,000 \div 5,637 = 115.3$.

HUNTING LICENSE SALES

The sale of 1963-64 hunting licenses was an estimated 650,000, an increase of about 1.5 percent over the 641,015 licenses sold in 1962-63.

Deer tag sales - 389,900, down about four percent from the 1962 sale of 404,861.

Pheasant tag sales - 193,000, up about 11 percent over 1962 sales of 173,166.

Bear tag sales - 25,600, down about four percent below 1962 sales of 26,635.

Duck stamp figures were incomplete and no estimate was available.

HUNTING REGULATION CHANGES

1. Deer

In Modoc and Lassen counties and portions of Siskiyou, Shasta and Sierra counties: The season closed three weeks earlier than the balance of the late season area. Also, there was a change of boundaries in this section and a minimum of three antler points was required for a legal buck.

2. Waterfowl

In most of California a straight 75 day season was in effect; in 1962 the season was split, the first period 38 days, the second period 30 days, for a 68 day seasonal total. An increase of one (1) duck in the bag.

3. Sage Grouse

The sage grouse season was reopened after being closed from 1960.

4. Mountain Quail

Length of season extended from nine days in 1962 to five weeks in 1963.

5. Doves

Double limit of 20 doves in possession in effect for first time since 1901 when the first laws on limits were established.

BAG BY SPECIES

UPLAND GAME

Pheasants - 1963 Bag 817,900

The pheasant bag in 1963 increased 13 percent from the 724,600 pheasants taken in 1962.

Pre-season predictions for bumper pheasant populations were borne out in the 1963 season. A stormy opening weekend caused light hunting effort on the opening weekend which traditionally has attracted the greatest number of hunters of any two-day period during the season. Hunting pressure during the balance of the season was heavier than normally could be expected.

The increased pheasant take was evident principally in the Sacramento valley "pheasant bowl". This was in contrast to the 1962 season which had showed numerical increases in areas other than the Sacramento valley.

Ideal weather, with the exception of a rainy opening weekend, good cover, and an abundance of pheasants, contributed to the success of the 1963 pheasant season.

The 1963 average seasonal bag of 3.9 birds per hunter was higher than the 3.6 seasonal bag recorded in 1962.

Quail - 1963 Bag 2,658,400

A 25 percent increase in the quail bag over the 2,147,800 quail taken in 1962, was recorded in 1963. The increase in the bag was accompanied by an increase from 177,700 hunters in 1962 to 195,700 in 1963, a rise of 10 percent.

Field observations had indicated excellent pre-season quail populations. Good breeding conditions namely weather, feed and cover contributed to the high quail populations.

The average seasonal bag was 13.6 birds compared with a 12.1 seasonal bag reported in 1962.

Doves - 1963 Bag 4,766,300

The 1963 dove bag was lower by about two percent than the 4,864,300 reported dove take in 1962. The 220,800 dove hunters was a slight decrease of hunters in the field below the 223,400 who reported dove hunting in 1962. The 1963 average seasonal bag was 21.6 doves per hunter.

Areas of past abundance continued to provide a high percentage of the statewide dove bag, although some shifting occurred in the areas in which hunter success was most apparent. The San Joaquin valley from Fresno County north showed good hunter success with an increased kill reported for this section. In the southern San Joaquin valley dove bag numbers declined significantly. South of the Tehachapi Mts., which traditionally provides fine dove hunting, experienced good hunting in the portion east of Los Angeles County with a decrease in bag reported for the western portion. The regulation change which allowed a double limit of doves in possession apparently had no effect upon the total take .

Chukar Partridge - 1963 Bag 60,100

The 1963 chukar bag increased by 15 percent over the 52,200 chukars taken in 1962.

The chukar population reflected the generally excellent conditions which contributed to successful population increases of all upland game species.

Birds were plentiful and a higher degree of success was reported by survey respondents than they had experienced the previous year. A seasonal average of 3.1 birds per hunter was recorded as compared with a 2.9 seasonal average in 1962.

The report of an appreciable chukar kill in areas where no known natural chukar population is present indicated that the stocking of chukars on licensed pheasant clubs was also a factor in the increased kill of the past few years.

Sage Grouse - 1963 Bag 9,900

The reported take of sage grouse during the 1963 season was 27% over the 7,800 reported as bagged during the previous season held in 1959.

Sierra and Ruffed Grouse - 1963 Bag 4,100

An increase of 95 percent was reported, over the bag of 2,100 grouse recorded in 1962.

Band-tailed Pigeons - 1963 Bag 248,500

The band-tailed pigeon bag was lower by about 26 percent than the 337,800 birds taken in 1962.

Hunter bag checks had indicated an excellent pigeon bag for the coast range section of San Luis Obispo and Monterey counties, a section which traditionally has produced a good harvest of band-tails. Hunter survey tabulations confirmed the results of these bag checks. The dispersion of the migrating pigeon population resulted in the displacement, as preferred areas, of some of the interior valley section by counties in the central Sierra Nevada, in contrast to 1962 when the major portion of the kill was recorded in the coastal area south of San Francisco Bay to the Mexican border.

The average seasonal bag of 7.4 birds per hunter was about the same as the average bag reported in 1962.

Jackrabbits - 1963 Bag 1,870,200

A 20 percent increase over the 1962 kill of 1,553,400 was reported in 1963. This is the third consecutive year in which an increased jackrabbit bag has been recorded.

A reported 116,300 jackrabbit hunters were afield in 1963. This exceeded the 1962 figure of 109,000 by about seven percent.

The average seasonal bag was 16.1 jackrabbits per hunter compared with 14.1 in 1962.

Cottontail and Brush Rabbits - 1963 Bag 779,200

The 1963 cottontail and brush rabbit bag was approximately 45 percent higher than the 537,100 rabbits taken in 1962. The 95,600 rabbit hunters in 1963 was an increase of 19 percent over the 80,200 reported in 1962.

The average seasonal bag rose from a take of 6.7 rabbits to 8.2 rabbits in the bag in 1963.

Tree Squirrels - 1963 Bag 75,900

A decline in the squirrel kill was recorded in 1963 showing a four percent drop from the 1962 kill of 79,300.

UPLAND GAME SUMMARY

In 1963 hunting seasons for the principal native game birds and mammals was very successful. Migratory species, doves and band-tailed pigeons, dropped below bag figures recorded in 1962.

The generally excellent upland game populations and good fall hunting conditions contributed to the highly successful 1963 season.

It is of interest to note, in Table VII, page A-I-12, "Distribution of Pheasant Hunters by Type of Hunting Area," that in spite of the decrease in the number of state cooperative hunting areas, pheasant hunters seem to have found other lands on which to hunt. Apparently, very little change has occurred in the use of any of the other areas which offer pheasant hunting for unattached hunters.

Upland game hunting effort of 2,755,000 man days in 1963 was about eight percent greater than the 2,546,200 man days reported in 1962.

WATERFOWL

Ducks - 1963-64 Bag 2,342,700

The 1963-64 duck bag showed an increase of 37 percent over the take of 1,705,500 birds reported in 1962-63.

Several factors probably contributed to the increased duck kill in 1963-64; the increase of one duck in the bag limit, larger populations of birds available, and generally better hunting weather.

The increased kill was made by a reported 155,400 duck hunters, about nine percent more than the 142,300 hunters reported in 1962-63. These hunters accounted for a seasonal average of 15.1 birds in 1963-64 compared with a 12.0 average the previous year.

Geese - 1963-64 Bag, 369,300

A rise of 17 percent in the goose bag over the 316,100 goose kill in 1962-63 was recorded in 1963-64. The 75,600 goose hunters last season was an increase of almost three percent over the 73,600 hunters in 1962-63. Good hunting weather and a good wintering goose population were probable contributing factors to the successful 1963-64 hunting season.

The seasonal average take was 4.9 geese in 1963-64, the year previous the average had been 4.3 birds per hunter.

WATERFOWL SUMMARY

An increase of 37 percent in the duck kill and 17 percent in the goose kill reflected the generally better conditions prevailing during the last waterfowl hunting season.

Hunter effort increased from 973,900 hunter days in 1962-63 to 1,025,200 in 1963-64, up about five percent from the previous year.

BIG GAME

Deer - 1963 Bag, 117,100 (Tag count - 56,814)

The 1963 deer bag, as reported by survey respondents was four percent greater than the 112,300 deer bag in 1962. The 56,814 hunter submitted deer tags in 1963 also indicated a four percent higher kill than the 54,909 deer tags submitted in 1962.

As in the past, the reported kill by survey respondents is about double the kill as calculated from hunter submitted deer tags.

Deer hunting effort was reported by 397,500 respondents, about three percent less than the 412,000 hunters reported in 1962.

Bear - 1963 Bag, 1,600 (Tag count - 685)

The bear kill of 1,600 reported by survey respondents in 1963, indicated a decrease of 36 percent from the 2,500 bag reported in 1962; whereas, the 1963 hunter submitted bear tag count of 685 produced an increase of 15 percent over the tag count of 594 in 1962.

The small sample of bear hunters included in this survey may influence the validity of this section of the report.

BIG GAME SUMMARY

The 1963 big game seasons showed slight gains over results of the previous season.

An improvement of range conditions since 1961 in the late deer season area, such as increased forage and water, coupled with temperate winters, has allowed deer populations to increase and this increase, starting in 1962, is beginning to be apparent in the bag.

The percentage increase in the deer kill in 1963 corresponded identically with the four percent increase calculated from deer tag returns.

Big game hunter effort of 2,903,500 was slightly less than the more than three million hunter days expended in 1962.

TABLE I
SUMMARY OF STATEWIDE GAME BAG - 1963

<u>Species</u>	<u>Yearly Avg.</u> <u>1957-61</u>	<u>1962</u>	<u>1963</u>	<u>% Change</u> <u>From 1962</u>
Pheasants	660,900	724,600	817,900	+ 13
Quail	1,695,800	2,147,800	2,658,400	+ 25
Doves	3,630,200	4,864,300	4,766,300	- 2
Chukar Partridge	26,500	52,200	60,100	+ 15
Sierra and Ruffed Grouse	-	2,100	4,100	+ 95
Sage Grouse	-	No Season	9,900	-
Band-tailed Pigeons	230,100	337,800	248,500	- 26
Jackrabbits	1,158,500	1,553,400	1,870,200	+ 20
Cottontail/Brush Rabbits	493,900	537,100	779,200	+ 45
Tree Squirrels	81,100	79,300	75,900	- 4
Ducks	3,072,800	1,705,500	2,342,700	+ 37
Geese	336,600	316,100	369,300	+ 17
Jacksnipes	48,700	46,600	35,000	- 25
Coots	352,000	270,400	235,800	- 13
Buck Deer (Tag Count)	68,414	54,909	56,814	+ 4
Bears (Tag Count)	871	594	685	+ 15
European Wild Pig	-	7,400	4,700	- 36

TABLE II
 GAME BAG - 1963
 (TEN LEADING COUNTIES)

<u>PHEASANTS</u>	<u>% OF STATE TOTAL</u>	<u>POSITION 1962</u>	<u>JACKRABBITS</u>	<u>% OF STATE TOTAL</u>	<u>POSITION 1962</u>
1. SUTTER	9.6	4	1. KERN	12.2	1
2. BUTTE	7.6	1	2. FRESNO	7.1	8
3. COLUSA	7.5	3	3. MERCED	6.9	4
4. FRESNO	7.3	2	4. SAN JOAQUIN	5.1	3
5. SACRAMENTO	6.8	9	5. COLUSA	4.6	32
6. YOLO	5.6	6	6. TULARE	3.9	7
7. STANISLAUS	5.4	10	7. LASSEN	3.7	23
8. MERCED	5.3	7	8. SACRAMENTO	3.5	28
9. SAN JOAQUIN	5.1	8	9. SAN BERNARDINO	3.3	10
10. GLENN	4.1	11	10. YOLO	3.0	9
ALL OTHERS	<u>35.7</u>		ALL OTHERS	<u>46.7</u>	
TOTAL	100.0		TOTAL	100.0	
<u>QUAIL</u>			<u>RABBITS (COTTONTAIL AND BRUSH)</u>		
1. KERN	8.4	1	1. SAN DIEGO	16.4	3
2. SAN DIEGO	6.3	2	2. RIVERSIDE	10.1	1
3. RIVERSIDE	6.0	3	3. KERN	8.5	2
4. FRESNO	5.7	4	4. SAN BERNARDINO	7.8	5
5. SANTA BARBARA	5.0	14	5. VENTURA	7.3	6
6. TULARE	4.7	6	6. SAN MATEO	5.1	19
7. SAN LUIS OBISPO	4.3	8	7. MONTEREY	4.6	8
8. MONTEREY	3.5	7	8. FRESNO	4.0	10
9. LOS ANGELES	3.2	9	9. ORANGE	3.5	4
10. IMPERIAL	2.8	10	10. LOS ANGELES	3.4	7
ALL OTHERS	<u>50.1</u>		ALL OTHERS	<u>29.3</u>	
TOTAL	100.0		TOTAL	100.0	
<u>DOVES</u>			<u>DUCKS</u>		
1. IMPERIAL	10.3	1	1. MERCED	16.7	1
2. FRESNO	9.5	4	2. SOLANO	9.8	3
3. KERN	6.6	3	3. COLUSA	8.6	2
4. TULARE	6.5	2	4. BUTTE	5.8	7
5. RIVERSIDE	6.4	5	5. SISKIYOU	5.4	5
6. SAN JOAQUIN	4.6	9	6. IMPERIAL	4.7	4
7. STANISLAUS	4.4	6	7. SUTTER	4.6	8
8. MERCED	3.8	8	8. FRESNO	4.4	6
9. SAN DIEGO	3.4	7	9. SAN JOAQUIN	4.0	12
10. SAN LUIS OBISPO	3.1	13	10. KERN	3.1	9
ALL OTHERS	<u>41.4</u>		ALL OTHERS	<u>32.9</u>	
TOTAL	100.0		TOTAL	100.0	
<u>BAND-TAILED PIGEONS</u>			<u>GEESE</u>		
1. SAN LUIS OBISPO	17.9	5	1. COLUSA	18.6	1
2. MONTEREY	13.6	4	2. SISKIYOU	18.4	2
3. PLACER	9.5	24	3. BUTTE	10.2	6
4. BUTTE	4.8	30	4. MERCED	8.8	3
5. MENDOCINO	4.2	14	5. MODOC	5.9	5
6. SANTA BARBARA	3.9	10	6. SUTTER	3.8	7
7. SHASTA	3.6	13	7. GLENN	3.7	4
8. SANTA CLARA	3.5	3	8. SAN JOAQUIN	2.8	10
9. AMADOR	3.4	34	9. SOLANO	2.7	9
10. SANTA CRUZ	3.1	1	10. YOLO	2.6	8
ALL OTHERS	<u>32.5</u>		ALL OTHERS	<u>22.5</u>	
TOTAL	100.0		TOTAL	100.0	

TABLE III

MAJOR GAME SPECIES BAG - 1963
(By Administrative Region)

	<u>Percentage of State Bag</u>					
	<u>Pheasants</u>	<u>Quail</u>	<u>Doves</u>	<u>Jackrabbits</u>	<u>Cottontail & Brush Rabbits</u>	<u>Ducks</u>
Region 1	4	6	3	8	3	10
Region 2	55	15	19	28	6	42
Region 3	4	21	13	10	16	8
Region 4	26	26	35	37	19	27
Region 5	<u>11</u>	<u>32</u>	<u>30</u>	<u>17</u>	<u>56</u>	<u>13</u>
TOTAL	100	100	100	100	100	100

TABLE IV

HUNTING TAGS AND STAMPS PURCHASED - 1963

	<u>Reported by Questionnaire Respondents</u>	<u>Estimated* Sales</u>	<u>Difference</u>	<u>Percent Difference From Estimated Sales</u>
	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Percent</u>
Deer Tags	436,400	389,900	+ 46,500	+ 12
Pheasant Tags	217,200	193,000	+ 24,200	+ 13
Federal Duck Stamps	182,600	(Figures incomplete)		--
Bear Tags	40,300	25,600	+ 14,700	+ 57

*Supplied by Department of Fish and Game License Section.

TABLE V
PREFERRED GAME SPECIES AS REPORTED BY
QUESTIONNAIRE RESPONDENTS - 1963

Species	Percent			Number		
	Successful Hunters	Unsuccessful Hunters	Total Hunters	Successful Hunters	Unsuccessful Hunters	Total Hunters
Deer	17	50	67	98,500	299,000	397,500
Doves	36	1	37	212,200	8,600	220,800
Pheasants	27	8	35	159,900	49,500	209,400
Quail	28	5	33	168,900	26,800	195,700
Ducks	22	4	26	133,500	21,900	155,400
Jackrabbits	19	1	20	111,000	5,300	116,300
Cottontail/Brush Rabbits	15	1	16	89,400	6,200	95,600
Geese	11	2	13	64,100	11,500	75,600
Band-tailed Pigeons	4	2	6	24,700	9,000	33,700
Tree Squirrels	4	1	5	21,600	5,800	27,300
Bears	T	4	4	1,400	25,000	26,400
Coots	3	T	3	17,200	100	17,300
Chukar Partridge	2	1	3	10,700	8,500	19,200
Wild Pigs	T	1	2	2,400	6,800	9,200
Jacksnipes	1	T	1	5,400	400	5,800
Sage Grouse	1	T	1	5,100	1,100	6,200
Sierra/Ruffed Grouse	T	T	1	1,700	1,300	3,000

Of the estimated 650,000 license buyers in 1963, 594,200 indicated some degree of hunting effort.

Due to multiple hunting effort by individual hunters, percentage figures exceed 100 percent and numerical figures exceed the individual hunters reported.

TABLE VI

DISTRIBUTION OF HUNTING TAGS AND STAMPS PURCHASED
BY QUESTIONNAIRE RESPONDENTS - 1963

Expressed in Percent of Total Respondents

(The "xx" indicates the individual type of stamp or tag purchased)

<u>Deer Tags</u>	<u>Pheasant Tags</u>	<u>Federal Duck Stamps</u>	<u>Bear Tags</u>	<u>Number of Respondents</u>	<u>Percent</u>
xx				2,088	37.1
xx	xx	xx		546	9.7
xx	xx			531	9.4
	xx			343	6.1
	xx	xx		342	6.1
		xx		310	5.5
xx		xx		284	5.0
xx			xx	196	3.5
xx	xx	xx	xx	67	1.2
xx	xx		xx	48	0.9
xx		xx	xx	25	0.4
	xx	xx	xx	8	0.1
			xx	4	T
		xx	xx	2	T
		No stamps or tags purchased		<u>843</u>	<u>15.0</u>
		Total Respondents		5,637	100.0

TABLE VII

DISTRIBUTION OF PHEASANT HUNTERS BY TYPE OF HUNTING AREA

THE FOLLOWING ABBREVIATIONS ARE USED IN THIS TABLE:

1. CO-OP (STATE OPERATED COOPERATIVE PHEASANT HUNTING AREAS)
2. COMMUNITY (COMMUNITY OPERATED OR PHEASANT ASSOCIATION AREAS)
3. LIC. PHEAS. CLUB (LICENSED PHEASANT CLUBS)
4. W.M.A. (STATE OR FEDERAL WATERFOWL MANAGEMENT AREAS)
5. OTHER (UNMANAGED PUBLIC AND PRIVATE LANDS OPEN TO PHEASANT HUNTING)

HUNTERS USING ONE AREA ONLY	1959		1962		1963	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
1. OTHER	104,000	52	104,900	59	118,800	63
2. CO-OP	27,800	14	6,700	4	5,100	3
3. COMMUNITY	15,600	8	17,300	10	16,500	9
4. LIC. PHEAS. CLUB	14,600	7	14,600	8	17,800	10
5. W.M.A.	5,700	3	6,100	3	7,800	4
SUBTOTAL	167,700	84	149,800	84	166,000	89
HUNTERS USING MORE THAN ONE AREA	32,200	16	28,600	16	20,400	11
<u>TOTAL HUNTERS WITH AREA INDICATED</u>	199,900	100	178,400	100	186,400	100
HUNTING AREA NOT INDICATED	12,100		23,000		23,000	
GRAND TOTAL ALL PHEASANT	212,000		201,400		209,400	

MAN DAYS HUNTING ON EACH TYPE OF AREA

1. OTHER	127,700	55	126,300	60	135,000	65
2. CO-OP	46,200	20	18,200	9	12,200	6
3. COMMUNITY	26,600	11	26,600	13	22,800	11
4. LIC. PHEAS. CLUB	21,900	9	24,900	12	24,200	12
5. W.M.A.	10,700	5	14,000	6	14,000	6
* TOTAL	233,100	100	210,000	100	208,200	100

* THIS TOTAL EXCEEDS THE ACTUAL NUMBER OF PHEASANT HUNTERS WHO INDICATED HUNTING EFFORT ON SPECIFIC AREAS, DUE TO THE FACT THAT SOME PHEASANT HUNTERS HUNTED ON TWO OR MORE PHEASANT HUNTING AREAS.

TABLE VIII

MAILING AND RETURN OF QUESTIONNAIRES BY COUNTY OF RESIDENCE - 1963 HUNTER SURVEY

COUNTY	QUESTIONNAIRES MAILED	PERCENT OF TOTAL MAILED	NUMBER RETURNED	PERCENT RETURNED
ALAMEDA	515	4.8	284	55.1
ALPINE	1	T	1	100.0
AMADOR	30	0.3	16	53.3
BUTTE	244	2.3	133	54.5
CALAVERAS	35	0.3	19	37.1
COLUSA	49	0.5	20	40.8
CONTRA COSTA	377	3.5	170	45.1
DEL NORTE	37	0.3	18	48.6
EL DORADO	80	0.7	32	40.0
FRESNO	442	4.1	214	48.4
GLENN	55	0.5	30	54.5
HUMBOLDT	260	2.4	135	51.9
IMPERIAL	75	0.7	33	44.0
INYO	54	0.5	33	61.1
KERN	336	3.1	172	51.2
KINGS	74	0.7	37	50.0
LAKE	49	0.5	18	36.7
LASSEN	59	0.5	29	49.2
LOS ANGELES	1,689	17.4	973	51.5
MADERA	68	0.6	34	50.0
MARIN	118	1.1	79	66.9
MARIPOSA	14	0.1	8	57.1
MENDOCINO	125	1.2	57	45.6
MERCED	154	1.4	64	41.2
MODOC	30	0.3	16	53.3
MONO	17	0.2	11	64.7
MONTEREY	159	1.5	102	64.2
NAPA	91	0.8	48	52.7
NEVADA	62	0.6	34	54.8
ORANGE	308	2.8	170	55.2
PLACER	116	1.1	63	54.3
PLUMAS	48	0.4	29	60.4
RIVERSIDE	155	1.4	89	57.4
SACRAMENTO	632	5.8	377	59.7
SAN BENITO	25	0.2	15	60.0
SAN BERNARDINO	249	2.3	123	49.4
SAN DIEGO	368	3.4	192	52.2
SAN FRANCISCO	233	2.2	121	51.9
SAN JOAQUIN	309	2.9	172	55.7
SAN LUIS OBISPO	124	1.1	65	52.4
SAN MATEO	270	2.5	146	54.1
SANTA BARBARA	152	1.4	78	51.3
SANTA CLARA	453	4.2	244	53.9
SANTA CRUZ	95	0.9	50	52.6
SHASTA	234	2.2	120	51.3
SIERRA	12	0.1	5	41.7
SISKIYOU	149	1.4	88	59.1
SOLANO	131	1.2	66	50.4
SONOMA	223	2.1	118	52.9
STANISLAUS	228	2.1	126	55.3
SUTTER	97	0.9	38	39.2
TEHAMA	88	0.8	48	54.5
TRINITY	34	0.3	14	41.2
TULARE	220	2.0	90	40.9
TUOLUMNE	40	0.4	16	40.0
VENTURA	126	1.2	68	54.0
YOLO	118	1.1	56	47.5
YUBA	78	0.7	36	46.2
TOTAL	10,814	100.0	5,637	52.1

1963

	Tree Squirrels	Hunters	Ducks	Hunters	Geese	Hunters
1 ALAMEDA			31,700		100	
2 ALPINE			1,000			
3 AMADOR	2,100		1,800		2,200	
4 BUTTE	4,600		136,400		37,800	
5 CALAVERAS	4,600		1,600		100	
6 COLUSA			200,400		68,800	
7 CONTRA COSTA			33,000		1,300	
8 DEL NORTE			5,300		500	
9 ELDORADO	5,900		1,300			
10 FRESNO	1,400		102,000		5,200	
11 GLENN	900		35,600		13,600	
12 HUMBOLDT	2,100		20,900		5,900	
13 IMPERIAL			110,800		8,900	
14 INYO			6,600			
15 KERN	4,200		72,900		1,100	
16 KINGS			700			
17 LAKE	2,300		3,500		500	
18 LASSEN			21,400		7,800	
19 LOS ANGELES	200		6,600			
20 MADERA	500		25,100		5,200	
21 MARIN			20,200		500	
22 MARIPOSA	700		900			
23 MENDOCINO	5,300		2,900			
24 MERCED	100		391,400		32,400	
25 MODOC			40,900		21,700	
26 MONO	100		11,800		2,400	
27 MONTEREY	1,400		5,900		100	
28 NAPA	100		8,300		900	
29 NEVADA	2,400		1,400		-	-
30 ORANGE			30,600		200	500
31 PLACER	3,100		24,800		5,400	200
32 PLUMAS	1,800		8,000		1,500	200
33 RIVERSIDE	100		46,600		2,900	200
34 SACRAMENTO			33,400		8,300	100
35 San BENITO			700		-	-
36 San BERNARDINO	900		12,100		100	100
37 San DIEGO	300		33,000		800	200
38 San FRANCISCO						
39 San JOAQUIN			93,200		10,300	200
40 San LUIS OBISPO	200		8,400		4,500	200
41 San MATEO	2,100		14,800			
42 Santa BARBARA			2,800			
43 Santa CLARA	2,300		22,200			
44 Santa CRUZ	500		2,200		100	100
45 SHASTA	3,600		14,100		3,300	200
46 SIERRA	1,200		700			
47 SISKIYOU	4,400		126,200		67,900	10,700
48 SOLANO			230,000		9,900	200
49 SONOMA	1,600		21,300		200	200
50 STANISLAUS			27,100		1,100	200
51 SUTTER			107,200		14,000	200
52 TEHAMA	4,400		7,600		1,300	
53 TRINITY	2,900		100			
54 TULARE	1,700		13,500		100	
55 TUOLUMNE	3,500		100			100
56 VENTURA			35,000			200
57 YOLO			67,000		9,500	200
58 YUBA	1,500		36,700		8,100	
Unknown	900		21,000		2,800	100
Total	75,900		2,342,700		369,300	

1963

County of Kill

	By Species	Pheasants	Hunters	Quail	Hunters	Doves	Hunters
1	ALAMEDA	3,000	1,800	14,900	1,800	54,300	3,000
2	ALPINE						
3	AMADOR			29,200	2,000	27,900	2,100
4	BUTTE	62,500	15,000	41,500	2,000	85,600	4,200
5	CALAVERAS		200	39,700	2,000	14,800	2,000
6	COLUSA	61,200	19,100	15,300	1,000	73,600	3,200
7	CONTRA COSTA	10,000	3,200	17,600	1,000	70,300	2,100
8	DEL NORTE			300			
9	ELDORADO		200	57,300	2,000	19,900	2,000
10	FRESNO	59,700	20,000	152,000	2,000	453,100	2,000
11	GLENN	33,700	2,100	5,600	2,000	38,300	2,200
12	HUMBOLDT			21,100	2,000	800	200
13	IMPERIAL	26,900	10,000	73,300	2,000	491,800	20,000
14	INYO	11,100	4,000	42,700	2,000	30,000	2,000
15	KERN	19,800	5,600	222,800	2,000	315,800	10,000
16	KINGS	12,000	4,000	9,100	2,000	87,700	2,000
17	LAKE			7,700		26,600	2,000
18	LASSEN	3,200	1,500	18,600	2,000	21,600	2,000
19	LOS ANGELES	13,800	5,000	84,300	1,000	102,000	2,000
20	MADERA	11,800	2,000	58,900	2,000	71,900	2,000
21	MARIN	1,400	200	16,400	2,000	10,400	2,000
22	MARIPOSA			17,500	2,000	19,000	2,000
23	MENDOCINO			34,600	2,000	7,300	2,000
24	MERCED	43,800	2,000	27,800	2,000	179,100	2,000
25	MODOC	4,000	2,000	19,900	2,000	14,900	2,000
26	MONO	500	200	3,700	2,000	11,000	2,000
27	MONTEREY	300	200	91,800	2,000	77,700	2,000
28	NAPA	4,600	1,400	35,700	2,000	25,900	2,000
29	NEVADA	900	200	28,500	2,000	4,600	2,000
30	ORANGE	13,000	2,000	39,700	2,000	85,900	2,000
31	PLACER	11,100	2,000	39,000	2,000	101,100	2,000
32	PLUMAS			11,200		5,200	
33	RIVERSIDE	10,600	2,000	159,900	2,000	306,400	2,000
34	SACRAMENTO	55,900	2,000	16,100	2,000	113,900	2,000
35	San BENITO	300	200	54,700	2,000	51,700	2,000
36	San BERNARDINO	3,700	2,000	70,400	2,000	87,700	2,000
37	San DIEGO	2,300	200	166,300	2,000	160,400	2,000
38	San FRANCISCO						
39	San JOAQUIN	41,500	2,000	59,000	2,000	216,900	2,000
40	San LUIS OBISPO			114,500	2,000	145,600	2,000
41	San MATEO	300	200	41,000	2,000	22,100	2,000
42	Santa BARBARA			133,100	2,000	67,900	2,000
43	Santa CLARA	7,000	5,000	41,500	2,000	49,600	2,000
44	Santa CRUZ	300	400	43,000	2,000	33,300	2,000
45	SHASTA	2,500	1,400	31,100	2,000	35,500	2,000
46	SIERRA			2,200		1,800	
47	SISKIYOU	13,300	2,000	25,300	2,000	18,200	2,000
48	SOLANO	29,400	2,000	2,800	2,000	34,400	2,000
49	SONOMA	5,100	2,000	36,200	2,000	28,500	2,000
50	STANISLAUS	44,200	2,000	45,500	2,000	208,700	2,000
51	SUTTER	78,800	2,000	9,800	2,000	56,800	2,000
52	TEHAMA	10,700	2,000	43,000	2,000	68,700	2,000
53	TRINITY			7,400	2,000	1,200	2,000
54	TULARE	16,700	2,000	126,000	2,000	312,800	2,000
55	TUOLUMNE	500	200	27,300	2,000	5,200	2,000
56	VENTURA	7,100	2,000	70,900	2,000	78,400	2,000
57	YOLO	46,000	2,000	31,500	2,000	90,400	2,000
58	YUBA	23,400	2,000	13,800	2,000	33,300	2,000
	UNKNOWN	10,000	2,000	8,400	2,000	8,800	2,000
	TOTAL	817,900	200,000	2,658,400	2,000	4,766,300	2,000

1963	Jacksnipe	Hunters	Coots	Hunters	Deer	Hunters	Bear	Hunters
1	ALAMEDA	3,100		1,000		1,000		
2	ALPINE					3,000		
3	AMADOR					300		
4	BUTTE			6,500		2,000		
5	CALAVERAS			900		2,400		
6	COLUSA	600		16,500		1,500		200
7	CONTRA COSTA			5,000		300		
8	DEL NORTE					300		
9	ELDORADO					3,000		
10	FRESNO	2,400		8,500		2,400		
11	GLENN	200		1,000		1,400		
12	HUMBOLDT	4,700		600		8,000	200	
13	IMPERIAL			5,400				
14	INYO			5,200		600		
15	KERN	1,000		6,700		2,400		
16	KINGS							
17	LAKE			1,500		2,100		
18	LASSEN			400		1,600		
19	LOS ANGELES			800		1,200		100
20	MADERA			1,700		900		
21	MARIN			2,900		2,700		
22	MARIPOSA					600		
23	MENDOCINO					8,800		
24	MERCED	6,800		21,300		700		
25	MODOC					1,500		
26	MONO	100				5,800		
27	MONTEREY			1,300		5,100		1,200
28	NAPA	2,500		2,000		2,900		
29	NEVADA					2,200		
30	ORANGE					300		
31	PLACER	600		1,700		1,700	400	
32	PLUMAS			1,000		4,500	400	
33	RIVERSIDE	1,000		2,500		300		
34	SACRAMENTO	900		16,900		100		
35	San BENITO					2,300		
36	San BERNARDINO	800		2,800		800		
37	San DIEGO			3,000		1,200		
38	San FRANCISCO							
39	San JOAQUIN	2,300		40,400		200		
40	San LUIS OBISPO	200		900		3,200		700
41	San MATEO			700		600		
42	Santa BARBARA			700		1,500		1,300
43	Santa CLARA			400		2,200		
44	Santa CRUZ					800		
45	SHASTA	100		5,200		4,500		
46	SIERRA	300				1,600		
47	SISKIYOU	100		700		7,300	300	
48	SOLANO	1,700		16,100		300		
49	SONOMA			2,300		4,600		1,100
50	STANISLAUS	1,500		7,000		700		
51	SUTTER	1,200		14,500				
52	TEHAMA			200		3,600		
53	TRINITY					4,300	200	100
54	TULARE	200		2,900		1,500		
55	TUOLUMNE					900	100	
56	VENTURA			5,300		1,800		
57	YOLO	1,500		14,800		600		
58	YUBA	500		4,400		800		
	UNKNOWN	700		1,800		200		
	TOTAL	35,000		235,800		117,100	1,600	4,700

1963

Pigeons Hunters Jackrabbits Hunters Cottontails Hunters

	Pigeons Hunters	Jackrabbits Hunters	Cottontails Hunters
1 ALAMEDA	300	42,300	3,700
2 ALPINE		6,300	1,300
3 AMADOR	8,500	8,200	2,400
4 BUTTE	11,900	44,900	300
5 CALAVERAS	7,100	3,700	3,800
6 COLUSA	2,200	85,800	100
7 CONTRA COSTA	1,100	16,300	1,400
8 DEL NORTE			
9 ELDORADO	7,300	5,400	1,500
10 FRESNO	2,400	131,900	31,300
11 GLENN	800	11,600	100
12 HUMBOLDT	1,500	2,100	2,300
13 IMPERIAL		39,100	25,600
14 INYO	700	18,000	13,000
15 KERN	3,000	229,000	66,200
16 KINGS		44,400	4,700
17 LAKE	300	10,400	
18 LASSEN		68,700	10,200
19 LOS ANGELES	2,500	48,400	26,200
20 MADERA	700	41,600	6,100
21 MARIN		2,100	700
22 MARIPOSA	2,000	500	1,700
23 MENDOCINO	10,400	7,600	1,400
24 MERCED	800	129,100	18,600
25 MODOC		14,200	5,300
26 MONO		3,300	4,700
27 MONTEREY	33,900	37,500	35,700
28 NAPA	700	9,800	500
29 NEVADA	1,600	3,700	3,900
30 ORANGE		8,100	27,200
31 PLACER	23,600	18,900	3,800
32 PLUMAS	100	30,100	2,300
33 RIVERSIDE	5,800	55,300	78,400
34 SACRAMENTO	2,700	65,300	6,000
35 San BENITO	1,300	8,000	9,000
36 San BERNARDINO	3,600	61,100	60,500
37 San DIEGO		41,000	128,100
38 San FRANCISCO			
39 San JOAQUIN	5,200	96,000	10,000
40 San LUIS OBISPO	44,600	23,200	14,700
41 San MATEO	600	800	40,000
42 Santa BARBARA	9,600	8,300	6,600
43 Santa CLARA	8,800	6,500	4,800
44 Santa CRUZ	7,700	400	13,500
45 SHASTA	8,900	21,200	1,600
46 SIERRA	1,100	33,300	3,300
47 SISKIYOU	1,100	24,800	6,600
48 SOLANO		30,000	
49 SONOMA	500	28,200	100
50 STANISLAUS	1,000	35,400	5,500
51 SUTTER	1,000	22,800	1,900
52 TEHAMA	600	7,100	100
53 TRINITY	2,400	1,500	200
54 TULARE	2,000	72,100	10,600
55 TUOLUMNE	2,900		2,200
56 VENTURA	4,300	33,300	57,100
57 YOLO	4,200	56,300	2,400
58 YUBA	5,000	8,500	2,200
UNKNOWN	266	6,800	7,300
TOTAL	248,500	1,870,200	779,200

1963	Chukar	Hunters	Sierra Grouse	Hunters	Sierra Ruffed Grouse	Hunters
1	ALAMEDA					
2	ALPINE					
3	AMADOR					
4	BUTTE					
5	CALAVERAS					
6	COLUSA					
7	CONTRA COSTA					
8	DEL NORTE					
9	ELDORADO	200				
10	FRESNO	1,600			100	
11	GLENN					
12	HUMBOLDT				800	
13	IMPERIAL					
14	INYO	6,000	500			
15	KERN	11,700	1,500		1,800	
16	KINGS					
17	LAKE					
18	LASSEN	13,300	1,600			
19	LOS ANGELES	2,900				
20	MADERA	200			200	
21	MARIN					
22	MARIPOSA					
23	MENDOCINO					
24	MERCED	2,900				
25	MODOC	200	600		100	
26	MONO	4,700	5,600		600	
27	MONTEREY					
28	NAPA					
29	NEVADA					
30	ORANGE					
31	PLACER					
32	PLUMAS	1,400			200	
33	RIVERSIDE	500				
34	SACRAMENTO					
35	San BENITO	700				
36	San BERNARDINO	4,900				
37	San DIEGO	200				
38	San FRANCISCO					
39	San JOAQUIN					
40	San LUIS OBISPO	500				
41	San MATEO					
42	Santa BARBARA	100				
43	Santa CLARA					
44	Santa CRUZ					
45	SHASTA					
46	SIERRA	200				
47	SISKIYOU		100			
48	SOLANO	1,800				
49	SONOMA					
50	STANISLAUS					
51	SUTTER	100				
52	TEHAMA					
53	TRINITY				200	
54	TULARE	200			100	
55	TUOLUMNE					
56	VENTURA	5,800				
57	YOLO					
58	YUBA					
	UNKNOWN					
	TOTAL	60,100	9,900		4,100	