

California Department of Fish and Game
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REPORT OF THE 1961 GAME TAKE HUNTER SURVEY

Hunter game bag questionnaires were mailed to an approximate 2 percent random sample of California hunting license buyers after the close of the 1961-62 waterfowl season, which ended on January 7, 1962.

The procedure followed in drawing the survey sample was fundamentally the same system that has been in use since 1948.

A total of 10,902 questionnaires was mailed and a response of 5,590 useable questionnaires were recorded. This is a 51.3 percent response and is the highest percentage of questionnaires returned since the hunter survey has been in effect.

Some hunting success was reported by 64 percent of the 5,590 survey respondents, 28 percent were unsuccessful and 8 percent did not hunt in 1961.

The estimated total hunting license sales figure divided by the number of questionnaires returned provides the projection factor for calculating total kill figures. The projection factor used for the 1961 hunting season calculations was 113.6: $635,000 \div 5,590 = 113.6$.

HUNTING LICENSE SALES

An estimated 635,000 hunting licenses were sold in 1961. This figure represents an increase of 0.6 percent over the 631,062 hunting license sales reported for 1960.

HUNTING REGULATION CHANGES

1. A closed season on sierra and ruffed grouse was in effect for the 1961 hunting season.
2. Red-legged partridge (chukar) boundaries were extended to include that portion of the "San Joaquin and Sacramento Valleys" described in Fish and Game Code, Section 3276.
3. Standardized statewide opening and closing season dates for valley quail and desert quail were effected. (N.E. Calif. excepted)

BAG BY SPECIES

UPLAND GAME

Pheasants - 1961 Bag - 604,100

The 1961 pheasant bag showed an increase of 4 percent over the 579,500 pheasants taken in 1960 with a slight increase in the number of hunters being reported compared with 1960.

The average seasonal pheasant bag showed an increase to 3.2 birds per hunter, compared with a 3.1 average seasonal bag in 1960.

The traditional pheasant habitat areas in the Sacramento and San Joaquin Valleys accounted for a greater proportion of the statewide 1961 pheasant bag than was recorded for the same areas the previous year. Pre-season counts had showed a higher pheasant population in these areas.

Quail - 1961 Bag - 1,659,200

The quail bag, in 1961, showed a 5 percent decrease from the 1,747,800 quail bagged in 1960 with about 4 percent less hunters in the field.

Traditional high quail producing areas of the San Joaquin Valley showed a very good return of quail in the bag.

In southern California, below Kern county, a decline in the take was apparent in areas of past quail abundance, with some localized exceptions. This decline in the quail bag was in accord with pre-season field reports which showed that the southern California area quail population had been adversely affected by extreme drought conditions which had curtailed quail reproduction, with a resultant drop in the number of quail available to hunters.

Doves - 1961 Bag - 3,906,700

The 1961 dove bag dropped 3 percent below the 1960 total of 4,033,200 doves. With approximately the same number of hunters afield each year, the average seasonal bag dropped from 20.2 doves per hunter in 1960 to 19.4 in 1961.

It is felt that rain and wind just prior to and during the opening weekend had some bearing on the lower dove bag last season.

Chukar Partridge - 1961 Bag - 19,300

In 1961 the chukar partridge bag dropped 29 percent below the 1960 bag of 27,000 chukars. This decline in kill was accompanied by a decrease of 16 percent in the number of chukar hunters in the field, compared with 1960.

Band-tailed Pigeons - 1961 Bag - 233,100

The band-tailed pigeon bag in 1961 was 25 percent lower than the 310,300 band-tails taken in 1960, and was accompanied by a 25 percent decrease in the number of hunters who participated in pigeon hunting.

Due to selective food requirements, the number of band-tailed pigeons migrating to preferred areas is dependent upon the food supplies available. Since the annual distribution of these food supplies is unstable, the areas in which band-tailed pigeons are available to hunters assume an erratic pattern from year to year.

Monterey County, which has traditionally afforded fine pigeon hunting, accounted for 41 percent of the statewide kill in 1961. Whereas in 1960 Monterey County had provided only 13 percent of the statewide bag.

Jackrabbits - 1961 Bag - 1,212,600

An increase of 10 percent in the 1961 bag, over the 1,103,900 jackrabbits bagged in 1960, was reported by survey respondents.

Approximately the same number of hunters were afield in 1961 as in 1960.

Cottontail/Brush Rabbits - 1961 Bag - 462,300

In 1961 rabbit hunters bagged 6 percent more cottontails than the 438,300 reported in 1960.

About 2 percent less hunters hunted rabbits last year than the 79,500 reported in 1960.

Tree Squirrels - 1961 Bag - 77,900

There was a 32 percent decrease in the tree squirrel bag compared with the 113,800 kill reported for 1960.

Hunter numbers dropped 11 percent below the 1960 reported figure.

UPLAND GAME SUMMARY

In 1961, among the principal upland game species, bag increases over 1960 totals were reported for; pheasants (+ 4%), jackrabbits (+ 10%) and cottontail/brush rabbits (+ 6%).

Game take results, for 1961, were lower than in 1960 for; quail (- 5%), doves (- 3%), chukar partridge (- 29%), band-tailed pigeons (- 25%) and tree squirrels (- 32%).

A total of about $2\frac{1}{2}$ million upland game hunter days was reported in 1961. Approximately the same amount of upland game hunting time was reported for 1960.

Upland game hunters numbered 790,000 in 1961, a 3% drop from the 812,000 survey respondents who indicated upland game hunting effort in 1960.

WATERFOWL

Ducks - 1961 Bag - 2,099,000

The 1961 duck bag was lower by 23 percent than the 2,717,600 ducks taken in 1960.

According to a pre-season census, the duck population in 1961 was down about 25 percent from the population recorded the previous year.

The sale of Federal Duck Stamps was 10 percent less than the 135,809 stamps sold in 1960.

The first half of the 1961 split season was exceedingly hot and hunter success was poor. During the second half of the season, the weather was more suitable for waterfowl hunting and greater success was enjoyed by duck hunters.

The average seasonal duck bag was 14.1 ducks per hunter compared with a 16.9 seasonal average in 1960.

Geese - 1961 Bag - 315,900

Though the 1961 goose population was up from 1960 population figures, 13 percent less geese were taken in 1961 than the 363,600 bagged in 1960.

Siskiyou and Modoc Counties, which have traditionally produced a high percentage of the statewide goose kill, about 22 percent in 1960, declined sharply and accounted for only 14 percent of the statewide bag in 1961. This was due in part to an abundance of feed on the Tulelake Lower Klamath Refuge. Geese did not have to leave the refuge to feed which made less birds available to hunters.

In the balance of the state, in which geese are taken incidental to duck hunting in most cases, the conditions which affected duck hunting would also apply to goose hunting.

Jacksnipes - 1961 Bag - 49,000

An increase of 43 percent over the 1960 figure of 34,200 jacksnipes in the bag, was reported by 1961 survey respondents.

Coots - 1961 Bag - 263,100

The coot bag in 1961 exceeded the 1960 kill of 200,500 coots, by 31 percent.

WATERFOWL SUMMARY

For the principal waterfowl species, a decrease from 1960 bag figures was experienced during the 1961 waterfowl season; the duck kill was down 23% and the goose kill down 13%.

According to the 1961 pre-season waterfowl census, the duck population was lower and the goose population higher than the counts recorded in 1960.

The first half of the 1961 split season was exceedingly hot and hunter success was poor. The weather during the second half of the season was more suitable for waterfowl hunting and hunters enjoyed greater success.

The number of waterfowl hunters statewide was 10% lower than was reported in 1961 according to duck stamp sales, but the hunter days expended in 1961 exceeded the 1960 total of 938,700 waterfowl hunting days by 2%, for a total of 956,500 hunter days.

BIG GAME

Deer - 1961 Bag - 126,100 (Deer Tag Count - 69,118)

Questionnaire respondents reported a deer kill of 126,100, a decrease of about 6 percent below the 133,400 reported deer bag in 1960.

Hunter submitted deer report tags in 1961 numbered 69,118 compared with 75,584 tags in 1960, a decrease of 9 percent.

The relationship between these two styles of sampling, namely mail survey versus buck tag returns, continues to bear roughly the same relationship; with the 1961 deer kill as reported by mail survey exceeding the 1961 deer tag count by 82 percent.

Bears - 1961 Bag - 1,700 (Bear Tag Count - 841)

The 1961 bear kill of 1,700 as reported by survey respondents, exceeded the 1960 figure of 1,600 by 6 percent.

The bear tag count from hunter submitted bear report tags was 841 in 1961 and 925 in 1960 and represented a decrease of 9 percent in the kill.

The exceedingly small sample of bear hunters in this survey makes this section subject to extreme bias which is evident in the comparisons above.

The survey respondents figure of 1,700 bear bagged exceeds the bear tag count of 841 by 98 percent.

BIG GAME SUMMARY

An average deer season was experienced in 1961, though it was lower than the near record year of 1960.

The 1961 bear season showed a decrease in the tag count and an increase according to survey respondents.

Survey respondents reported slightly more than 2-3/4 million hunter days expended in big game hunting, about the same amount of time which was reported in 1960.

Archery deer hunters numbered 17,700 in 1961, according to survey respondents.

The following tables are appended to this report:

1. Summary of Statewide Game Bag - 1961
2. Ten leading counties in bag of pheasants, quail, doves, band-tailed pigeons, jackrabbits, cottontail/brush rabbits, ducks and geese.
3. Major Game Species Bag, by Administrative Region - 1961
4. Reported Total Tags and Stamps Purchased - 1961
5. Preferred Game Species as Indicated by Questionnaire Respondents - 1961
6. Distribution of Hunting Tags and Stamps Purchased by Questionnaire Respondents - 1961
7. Mailing and Return by County of Residence - 1961 Hunter Questionnaire.

TABLE I
SUMMARY OF STATEWIDE GAME BAG - 1961

<u>Species</u>	<u>1960</u>	<u>1961</u>	<u>% Change from 1960</u>
Pheasants	579,500	604,100	+ 4
Quail	1,747,800	1,659,200	- 5
Doves	4,033,200	3,906,700	- 3
Chukar Partridges	27,000	19,300	- 29
Sierra and Ruffed Grouse	2,900	No Season	--
Band-tailed Pigeons	310,300	233,100	- 25
Jackrabbits	1,103,900	1,212,600	+ 10
Cottontail / Brush Rabbits	438,300	462,300	+ 6
Tree Squirrels	113,800	77,900	- 32
Ducks	2,717,600	2,099,000	- 23
Geese	363,600	315,900	- 13
Jack Snipes	34,200	49,000	+ 43
Coots	200,500	263,100	+ 31
Buck Deer (Tag Count)	75,584	69,118	- 9
Bears (Tag Count)	925	841	- 9
European Wild Pig	3,600	4,000	+ 11

TABLE II
GAME BAG - 1961
(TEN LEADING COUNTIES)

<u>PHEASANTS</u>			<u>JACKRABBITS</u>		
	% OF STATE TOTAL	POSITION 1960		% OF STATE TOTAL	POSITION 1960
1. COLUSA	9.8	2	1. MERCED	12.9	2
2. BUTTE	9.3	4	2. KERN	9.7	1
3. YOLO	8.9	1	3. FRESNO	6.3	3
4. FRESNO	7.9	5	4. SAN BERNARDINO	6.1	4
5. SUTTER	7.4	3	5. TULARE	4.0	14
6. SAN JOAQUIN	7.1	8	6. RIVERSIDE	3.8	6
7. SACRAMENTO	5.7	6	7. LOS ANGELES	3.5	7
8. STANISLAUS	5.2	10	8. SAN JOAQUIN	3.1	9
9. MERCED	4.8	7	9. BUTTE	2.9	36
10. GLENN	4.7	9	10. SACRAMENTO	2.8	11
ALL OTHERS	<u>29.2</u>	-	ALL OTHERS	<u>44.9</u>	-
TOTAL	100.0		TOTAL	100.0	
<u>QUAIL</u>			<u>RABBITS (COTTONTAIL AND BRUSH)</u>		
1. KERN	10.6	1	1. RIVERSIDE	13.3	3
2. RIVERSIDE	5.5	5	2. SAN DIEGO	9.8	1
3. TULARE	4.4	11	3. KERN	8.9	5
4. IMPERIAL	4.3	3	4. MONTEREY	7.9	6
5. FRESNO	4.2	6	5. SAN BERNARDINO	7.2	2
6. SAN DIEGO	4.2	4	6. LOS ANGELES	4.6	4
7. SAN BERNARDINO	4.0	2	7. MERCED	4.3	10
8. MADERA	2.9	13	8. IMPERIAL	4.2	7
9. SAN JOAQUIN	2.6	24	9. VENTURA	3.5	8
10. MONTEREY	2.4	10	10. FRESNO	3.3	9
ALL OTHERS	<u>54.9</u>	-	ALL OTHERS	<u>33.0</u>	-
TOTAL	100.0		TOTAL	100.0	
<u>DOVES</u>			<u>DUCKS</u>		
1. IMPERIAL	14.9	1	1. MERCED	15.1	1
2. TULARE	8.0	3	2. SOLANO	9.7	3
3. FRESNO	7.3	2	3. COLUSA	8.5	2
4. RIVERSIDE	5.5	4	4. IMPERIAL	6.2	12
5. KERN	5.3	5	5. SUTTER	4.5	6
6. STANISLAUS	4.1	7	6. FRESNO	4.2	10
7. SAN JOAQUIN	4.0	10	7. BUTTE	4.1	4
8. MERCED	3.7	8	8. SAN JOAQUIN	3.7	5
9. KINGS	2.8	19	9. GLENN	3.6	11
10. SAN BERNARDINO	2.6	9	10. KERN	3.3	9
ALL OTHERS	<u>41.8</u>	-	ALL OTHERS	<u>37.1</u>	-
TOTAL	100.0		TOTAL	100.0	
<u>BAND-TAILED PIGEONS</u>			<u>GEESE</u>		
1. MONTEREY	41.4	3	1. COLUSA	15.8	1
2. SANTA CRUZ	5.0	6	2. BUTTE	10.8	5
3. SONOMA	4.8	4	3. GLENN	10.5	4
4. PLACER	4.8	10	4. MERCED	10.2	7
5. EL DORADO	4.3	31	5. SISKIYOU	9.0	2
6. AMADOR	3.3	13	6. SAN JOAQUIN	6.1	6
7. SAN LUIS OBISPO	2.9	1	7. MODOC	5.3	3
8. HUMBOLDT	2.8	33	8. SOLANO	4.7	11
9. MENDOCINO	2.7	11	9. SUTTER	4.5	9
10. MERCED	2.7	34	10. IMPERIAL	3.5	15
ALL OTHERS	<u>25.3</u>	-	ALL OTHERS	<u>19.6</u>	-
TOTAL	100.0		TOTAL	100.0	

TABLE III

MAJOR GAME SPECIES BAG - 1961
BY ADMINISTRATIVE REGION

<u>Species</u>	<u>Percentage of State Bag</u>				
	<u>Region I</u>	<u>Region II</u>	<u>Region III</u>	<u>Region IV</u>	<u>Region V</u>
Pheasants	5	62	3	23	7
Quail	10	18	17	29	26
Doves	4	21	9	34	32
Jackrabbits	7	24	9	40	20
Cottontail/Brush					
Rabbits	2	7	19	23	49
Ducks	10	42	10	25	13

TABLE IV

REPORTED TOTAL TAGS AND STAMPS PURCHASED - 1961

	<u>Questionnaire</u> <u>Respondents</u>	<u>Actual*</u> <u>Sales</u>	<u>Difference</u>	<u>Percent Difference</u> <u>from Actual Sales</u>
	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Percent</u>
Deer Tags	445,900	418,000	+ 27,900	+ 7
Pheasant Tags	200,900	175,000	+ 25,900	+ 15
Federal Duck Stamps	177,800	122,087	+ 55,713	+ 46
Bear Tags	41,700	28,000	+ 13,700	+ 49

*Estimated

TABLE V

PREFERRED GAME SPECIES AS INDICATED BY
QUESTIONNAIRE RESPONDENTS - 1961

<u>Species</u>	<u>Percent</u>		<u>Total Hunters</u>	<u>Number</u>		<u>Total Hunters</u>
	<u>Successful Hunters</u>	<u>Unsuccessful Hunters</u>		<u>Successful Hunters</u>	<u>Unsuccessful Hunters</u>	
Deer	17	46	63	108,000	291,400	399,400
Doves	30	2	32	192,700	8,500	201,200
Pheasants	22	8	30	138,300	48,500	186,800
Quail	20	4	24	129,900	24,300	154,200
Ducks	20	3	23	131,100	17,600	148,700
Jackrabbits	15	1	16	95,800	7,000	102,800
Geese	10	3	13	63,000	18,900	81,900
Cottontail/Brush Rabbits	10	2	12	69,500	8,300	77,800
Band-tailed Pigeons	3	1	4	20,600	7,000	27,600
Tree Squirrels	3	1	4	21,100	5,700	26,800
Bears	T	4	4	1,800	22,400	24,200
Coots	3	T	3	16,000	600	16,600
Chukar Partridge	T	2	2	4,700	8,300	13,000
Jacksnipes	1	T	1	6,100	1,400	7,500
European Wild Pigs	T	1	1	2,200	5,100	7,300

Calculated percentages exceed 100 percent due to multiple species hunting effort reported by many respondents.

TABLE VI

DISTRIBUTION OF HUNTING TAGS AND STAMPS PURCHASED
BY QUESTIONNAIRE RESPONDENTS - 1961

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				2,236	40.0
xx	xx	xx		490	8.8
xx	xx			475	8.5
xx		xx		366	6.5
	xx			366	6.5
	xx	xx		310	5.5
		xx		290	5.3
xx			xx	206	3.7
xx	xx	xx	xx	77	1.4
xx	xx		xx	46	0.8
xx		xx	xx	28	0.5
			xx	5	0.1
	xx	xx	xx	3	0.1
		xx	xx	1	T
	xx		xx	1	T
No Stamps or Tags Purchased				690	12.3
Total Respondents				5,590	100.0

TABLE VII

MAILING AND RETURN BY COUNTY OF RESIDENCE - 1961 HUNTER QUESTIONNAIRE

COUNTY	QUESTIONNAIRES MAILED	PERCENT OF TOTAL MAILED	NUMBER RETURNED	PERCENT RETURNED
ALAMEDA	550	5.0	301	54.7
ALPINE	2	T	1	50.0
AMADOR	25	0.2	14	56.0
BUTTE	266	2.4	149	56.0
CALAVERAS	30	0.3	13	43.3
COLUSA	37	0.3	16	43.2
CONTRA COSTA	400	3.7	188	47.0
DEL NORTE	50	0.5	23	46.0
EL DORADO	73	0.7	42	57.5
FRESNO	499	4.6	231	46.3
GLENN	65	0.6	23	35.4
HUMBOLDT	263	2.4	127	48.3
IMPERIAL	97	0.9	39	40.2
INYO	53	0.5	28	52.8
KERN	361	3.3	181	50.1
KINGS	75	0.7	38	50.7
LAKE	14	0.1	6	42.9
LASSEN	66	0.6	34	51.5
LOS ANGELES	1,915	17.5	1,024	53.5
MADERA	87	0.8	42	48.3
MARIN	124	1.1	65	52.4
MARIPOSA	12	0.1	5	41.7
MENDOCINO	100	1.0	42	42.0
MERCED	140	1.3	67	47.9
MODOC	30	0.3	12	40.0
MONO	8	0.1	5	62.5
MONTEREY	160	1.5	82	51.3
NAPA	83	0.7	44	53.0
NEVADA	67	0.6	37	55.2
ORANGE	229	2.1	126	55.0
PLACER	105	0.9	53	50.5
PLUMAS	48	0.4	31	64.6
RIVERSIDE	143	1.3	70	49.0
SACRAMENTO	606	5.6	330	54.5
SAN BENITO	27	0.2	12	44.4
SAN BERNARDINO	246	2.3	129	52.4
SAN DIEGO	408	3.7	224	54.9
SAN FRANCISCO	237	2.2	120	50.6
SAN JOAQUIN	269	2.5	145	53.9
SAN LUIS OBISPO	116	1.1	58	50.0
SAN MATEO	283	2.6	160	56.5
SANTA BARBARA	151	1.4	81	53.6
SANTA CLARA	414	3.8	223	53.9
SANTA CRUZ	82	0.7	37	45.1
SHASTA	227	2.1	118	52.0
SIERRA	11	0.1	7	63.6
SISKIYOU	173	1.6	84	48.6
SOLANO	151	1.4	81	53.6
SONOMA	194	1.8	87	44.8
STANISLAUS	217	2.0	111	51.2
SUTTER	85	0.8	36	42.4
TEHAMA	108	1.0	43	39.8
TRINITY	42	0.4	16	38.1
TULARE	266	2.4	125	47.0
TUOLUMNE	45	0.4	22	48.9
VENTURA	127	1.2	62	48.8
YOLO	123	1.1	73	59.3
YUBA	111	1.0	44	39.6
NON-RESIDENT	6	0.1	3	50.0
TOTAL	10,902	100.0	5,590	51.3

	Jackrabbits	Quintess	Bay	Cottontails	Quintess	Bay	squirrel	
1	ALAMEDA	13,500	2,000	6.2	5,900	1,100	9.5	300
2	ALPINE	11,700	200	8.2	800	100	8.2	-
3	AMADOR	3,100	700	4.2	5,400	600	9.7	2,200
4	BUTTE	34,100	3,200	10.8	600	200	3.2	3,500
5	CALAVERAS	4,300	500	8.2	2,600	700	3.7	8,500
6	COLUSA	11,400	2,500	4.6	1,000	300	3.2	500
7	CONTRA COSTA	10,000	1,500	6.7	900	200	4.6	-
8	DEL NORTE	-	-	-	-	-	-	300
9	ELDORADO	4,500	800	5.6	3,100	900	3.4	7,600
10	FRESNO	76,400	2,200	16.7	15,200	4,200	3.6	5,900
11	GLENN	13,000	1,800	7.2	-	100	-	1,000
12	HUMBOLDT	2,200	700	2.4	1,000	400	5.2	3,900
13	IMPERIAL	9,200	3,100	3.0	19,600	5,800	5.1	-
14	INYO	4,900	1,400	3.5	8,600	200	9.6	-
15	KERN	118,100	13,600	9.4	41,100	2,200	4.7	200
16	KINGS	22,700	1,600	14.2	4,700	800	5.2	-
17	LAKE	6,700	700	9.6	2,200	600	3.7	2,400
18	LASSEN	22,800	2,100	10.9	2,200	1,000	2.2	-
19	LOS ANGELES	42,800	6,200	6.9	21,200	4,800	4.4	900
20	MADERA	27,200	1,300	20.9	6,700	1,700	3.9	2,500
21	MARIN	1,700	500	3.4	800	200	4.0	-
22	MARIPOSA	-	-	-	3,200	900	10.7	2,100
23	MENDOCINO	1,600	600	2.7	1,300	300	4.3	600
24	MERCED	156,400	4,200	27.0	20,100	3,300	6.1	-
25	MODOC	27,000	1,700	15.7	5,000	1,200	4.2	-
26	MONO	2,300	500	2.6	2,200	700	3.1	100
27	MONTEREY	20,600	1,200	17.2	36,300	2,000	18.2	-
28	NAPA	3,500	900	3.9	-	-	-	-
29	NEVADA	2,300	300	7.7	-	-	-	1,000
30	ORANGE	10,200	1,500	6.4	8,100	1,700	4.1	-
31	PLACER	8,600	400	5.2	4,000	100	1.0	3,000
32	PLUMAS	7,300	800	9.1	1,400	500	2.8	1,100
33	RIVERSIDE	46,400	8,300	5.6	61,600	9,900	6.2	1,100
34	SACRAMENTO	33,600	3,900	8.6	2,800	900	3.1	300
35	San BENITO	700	100	7.0	3,200	600	5.3	-
36	San BERNARDINO	73,200	2,300	10.0	33,100	6,500	5.1	-
37	San DIEGO	28,300	3,600	7.9	45,100	6,400	7.1	-
38	San FRANCISCO	-	-	-	-	-	-	-
39	San JOAQUIN	37,900	5,900	9.7	3,900	1,100	5.5	100
40	San LUIS OBISPO	12,700	1,100	11.5	7,000	900	7.8	200
41	San MATEO	200	500	0.7	15,000	1,800	8.3	-
42	Santa BARBARA	9,000	1,100	8.2	10,100	1,600	6.3	-
43	Santa CLARA	4,500	700	5.0	4,400	700	6.3	300
44	Santa CRUZ	4,500	600	7.5	4,700	900	5.2	-
45	SHASTA	9,800	200	10.9	1,000	500	2.0	9,000
46	SIERRA	13,800	800	17.3	1,300	200	6.5	200
47	SISKIYOU	19,000	1,700	11.2	1,600	700	2.3	3,300
48	SOLANO	17,900	2,000	9.0	200	100	2.0	-
49	SONOMA	23,300	1,100	21.2	600	300	2.0	100
50	STANISLAUS	32,000	3,700	8.6	3,400	900	3.8	-
51	SUTTER	30,400	2,800	13.8	1,000	600	1.7	-
52	TEHAMA	7,700	1,000	7.7	-	100	-	4,900
53	TRINITY	2,300	300	7.7	-	100	-	700
54	TULARE	48,700	2,500	14.8	13,200	2,200	4.9	-
55	TUOLUMNE	700	300	3.3	100	200	0.5	3,900
56	VENTURA	17,000	2,400	7.1	16,200	3,600	4.5	500
57	YOLO	26,700	2,400	7.9	900	300	3.0	-
58	YUBA	24,400	1,000	17.4	1,300	800	1.0	4,000
	UG	7,400	1,500	4.9	1,500	700	2.1	1,700
		1,212,600	121,600	10.0	462,300	87,300	5.3	77,900

	Ceres	Humboldt	Chukar	Pigeon
1 ALAMEDA	22,400	2,400		1,300
2 ALPINE	100	100		←
3 AMADOR	32,800	2,400		7,800
4 BUTTE	36,000	2,400		3,900
5 CALAVERAS	7,200	2,400		—
6 COLUSA	29,100	2,400		200
7 CONTRA COSTA	32,000	2,300		600
8 DEL NORTE				600
9 ELDORADO	17,400	2,400		10,100
10 FRESNO	283,700	2,400	2,400	600
11 GLENN	53,300	1,800		900
12 HUMBOLDT	900	400		6,500
13 IMPERIAL	522,700	26,300		2,000
14 INYO	40,600	1,900	5,700	—
15 KERN	207,700	12,100	4,200	800
16 KINGS	103,100	4,200		5,200
17 LAKE	21,900	2,400		—
18 LASSEN	2,800	2,200	500	1,000
19 LOS ANGELES	54,000	2,400	1,000	—
20 MADERA	72,600	2,100	100	1,100
21 MARIN	6,900	600		—
22 MARIPOSA	10,200	100		—
23 MENDOCINO	11,000	600		6,400
24 MERCED	145,800	6,100	100	6,200
25 MODOC	10,700	1,000		—
26 MONO	8,700	700		—
27 MONTEREY	47,300	2,400		96,400
28 NAPA	36,300	2,400		100
29 NEVADA	5,800	2,400		700
30 ORANGE	56,900	2,400	200	—
31 PLACER	58,400	2,400		11,200
32 PLUMAS	2,700	2,400	600	100
33 RIVERSIDE	215,000	2,400		2,300
34 SACRAMENTO	64,400	2,400		1,600
35 San BENITO	14,500	1,400		—
36 San BERNARDINO	99,500	2,400	1,000	2,200
37 San DIEGO	86,000	2,400		5,500
38 San FRANCISCO	—			—
39 San JOAQUIN	155,900	2,400	200	1,500
40 San LUIS OBISPO	65,900	2,400		6,800
41 San MATEO	11,900	1,000		2,500
42 Santa BARBARA	28,700	2,400		300
43 Santa CLARA	17,600	2,400		2,300
44 Santa CRUZ	17,800	2,400		11,600
45 SHASTA	42,700	2,400		5,200
46 SIERRA	3,700	500		—
47 SISKIYOU	17,600	2,400		3,300
48 SOLANO	69,900	2,400		—
49 SONOMA	33,500	2,400		11,200
50 STANISLAUS	159,600	2,400	1,700	100
51 SUTTER	66,300	4,200		—
52 TEHAMA	58,000	3,500		300
53 TRINITY	6,700	200		—
54 TULARE	214,400	11,600		2,200
55 TUOLUMNE	17,900	1,000	1,300	2,700
56 VENTURA	59,500	2,200	300	600
57 YOLO	88,200	2,400		1,600
58 YUBA	73,500	3,100		5,600
	14,400	1,100		—
	3,906,700	224,700	19,300	33,100

		Ducks	PERCENT	AVG	Geese	WATERFOWL	PERCENT	Jacksnipe
1	ALAMEDA	23,900	2,300	12.4	500	500	1.0	1,700
2	ALPINE	2,800	100	25.0	-	100	-	100
3	AMADOR	4,000	500	8.6	900	400	2.3	100
4	BUTTE	85,600	8,100	15.6	34,100	5,600	6.2	800
5	CALAVERAS	-	-	-	-	-	-	-
6	COLUSA	178,700	12,700	12.3	49,900	12,600	4.7	3,600
7	CONTRA COSTA	43,200	3,800	12.8	3,500	1,100	3.6	-
8	DEL NORTE	15,800	200	17.6	600	100	1.2	3,100
9	ELDORADO	100	100	1.0	-	-	-	-
10	FRESNO	89,200	2,500	11.9	5,800	2,400	2.0	-
11	GLENN	75,000	2,000	12.7	33,300	2,700	7.1	-
12	HUMBOLDT	46,700	3,800	4.0	2,000	100	1.0	9,300
13	IMPERIAL	129,100	15,300	8.6	11,100	6,300	1.8	1,000
14	INYO	4,800	1,500	3.4	-	100	-	-
15	KERN	70,300	2,500	9.5	1,100	1,000	2.7	900
16	KINGS	5,300	200	5.7	600	500	1.2	-
17	LAKE	6,600	300	22.0	100	100	1.0	-
18	LASSEN	13,700	2,600	5.3	1,500	2,200	0.7	-
19	LOS ANGELES	4,300	800	5.4	100	200	0.5	-
20	MADERA	18,700	1,100	17.0	400	500	0.7	-
21	MARIN	9,300	1,200	7.8	800	300	2.7	1,100
22	MARIPOSA	300	200	1.5	-	-	-	-
23	MENDOCINO	10,800	300	21.6	100	300	2.5	900
24	MERCED	316,000	16,300	19.4	32,700	2,000	4.0	2,900
25	MODOC	39,100	6,000	6.5	16,800	5,600	3.0	-
26	MONO	3,900	1,200	3.3	-	500	-	-
27	MONTEREY	44,500	1,100	40.4	700	200	2.5	3,800
28	NAPA	9,000	1,100	8.3	800	400	2.0	800
29	NEVADA	-	-	-	-	-	-	-
30	ORANGE	5,600	700	3.4	-	-	-	-
31	PLACER	1,600	300	3.7	800	400	5.0	-
32	PLUMAS	6,800	1,000	6.8	1,100	400	2.8	-
33	RIVERSIDE	35,600	2,300	12.3	700	700	1.0	1,400
34	SACRAMENTO	55,000	4,500	12.5	8,600	2,500	3.4	800
35	San BENITO	4,900	300	24.5	100	100	1.0	-
36	San BERNARDINO	16,900	1,800	9.4	600	800	0.8	400
37	San DIEGO	35,900	2,500	14.4	700	500	1.4	300
38	San FRANCISCO	-	-	-	-	-	-	-
39	San JOAQUIN	77,600	5,100	15.2	19,300	3,700	5.3	2,200
40	San LUIS OBISPO	6,400	200	7.1	400	500	0.8	-
41	San MATEO	13,000	200	18.6	200	100	2.0	-
42	Santa BARBARA	5,600	200	6.2	300	100	3.0	-
43	Santa CLARA	11,400	1,200	9.5	-	100	-	-
44	Santa CRUZ	4,700	300	15.7	-	-	-	-
45	SHASTA	9,700	1,800	5.4	1,500	1,200	1.3	-
46	SIERRA	-	-	-	-	-	-	-
47	SISKIYOU	67,800	2,700	7.5	28,500	7,800	3.7	100
48	SOLANO	203,300	15,200	13.4	14,700	7,100	2.1	2,900
49	SONOMA	17,200	2,000	9.6	1,000	700	1.4	1,400
50	STANISLAUS	15,100	1,500	8.4	2,400	1,000	2.4	1,900
51	SUTTER	94,400	9,300	3.7	14,700	5,500	2.6	200
52	TEHAMA	10,200	1,200	8.5	5,200	1,100	4.7	-
53	TRINITY	-	-	-	-	-	-	-
54	TULARE	10,800	1,100	9.8	100	100	1.0	-
55	TUOLUMNE	500	200	2.5	-	-	-	-
56	VENTURA	25,900	1,300	19.9	100	200	0.5	-
57	YOLO	59,900	2,900	15.4	9,700	2,700	3.6	5,500
58	YUBA	35,200	3,000	11.7	7,300	2,500	3.3	700
		15,300	1,500	3.3	1,500	900	1.7	1,100
		2,099,000	180,100	11.7	315,900	95,400	3.4	49,000

	Pheasant	Quail	House	2nd
1 ALAMEDA	1 100	1 500	10 300	11.4
2 ALPINE			100	6.5
3 AMADOR	200	200	26 600	10.0
4 BUTTE	56 000	12 400	21 000	6.0
5 CALAVERAS		100	15 000	7.1
6 COLUSA	58 900	16 000	7 700	7.0
7 CONTRA COSTA	8 200	2 000	2 600	6.2
8 DEL NORTE			800	7.0
9 ELDORADO			36 700	7.0
10 FRESNO	47 700		70 300	9.8
11 GLENN	28 800	8 800	1 700	5.1
12 HUMBOLDT	200	200	24 700	8.8
13 IMPERIAL	17 300	7 400	71 300	7.1
14 INYO	4 500	3 700	29 800	7.2
15 KERN	6 700	2 100	175 400	1.8
16 KINGS	9 500	3 200	20 000	1.2
17 LAKE	100	100	22 300	11.7
18 LASSEN	3 900	1 700	22 500	9.0
19 LOS ANGELES	1 800	1 100	32 600	5.5
20 MADERA	5 200	2 800	47 800	14.5
21 MARIN	1 100	200	16 200	14.7
22 MARIPOSA			20 700	13.2
23 MENDOCINO			35 400	11.8
24 MERCED	29 100	11 700	28 300	9.8
25 MODOC	2 600	1 600	32 100	16.1
26 MONO		300	300	0.8
27 MONTEREY	1 700	300	40 700	12.0
28 NAPA	1 700	300	19 700	10.6
29 NEVADA	1 100	200	34 800	7.0
30 ORANGE	3 200	500	13 900	10.6
31 PLACER	6 600	1 100	33 500	9.0
32 PLUMAS	200		10 400	5.6
33 RIVERSIDE	3 900	3 200	91 700	7.1
34 SACRAMENTO	34 500	15 800	20 900	5.8
35 San BENITO			10 800	10.8
36 San BERNARDINO	700	1 300	66 100	9.2
37 San DIEGO	8 400	3 300	69 800	7.2
38 San FRANCISCO			42 400	
39 San JOAQUIN	42 500	12 400	42 400	11.8
40 San LUIS OBISPO	100	500	27 700	15.4
41 San MATEO	200	500	17 400	10.2
42 Santa BARBARA			25 100	6.0
43 Santa CLARA	800	800	16 400	8.0
44 Santa CRUZ	200	100	37 500	17.0
45 SHASTA	900	1 000	26 600	7.0
46 SIERRA			700	1.2
47 SISKIYOU	18 200	5 800	24 400	8.4
48 SOLANO	21 300	8 100	1 400	7.0
49 SONOMA	1 100	1 300	24 300	7.2
50 STANISLAUS	31 600	10 700	24 800	7.2
51 SUTTER	44 900	13 200	9 200	6.1
52 TEHAMA	6 000	3 200	35 800	10.8
53 TRINITY			4 900	4.5
54 TULARE	7 000	2 600	23 500	12.3
55 TUOLUMNE	200	100	31 000	9.2
56 VENTURA	400	200	32 600	7.6
57 YOLO	53 900	15 700	18 300	8.7
58 YUBA	22 900	5 000	17 300	7.5
	400	2 400	4 000	2.2
	664 100	217 000		3.6

1961

Coots

Deer

Antelope

1961

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

1961

263,100

126,100

576,200

1,700

4,000

	Jacksrabbits	Antelope	Squirrels	Ducks	Geese	Chickens
1 ALAMEDA	3,500	2,500	(700)	25,900	500	1,700
2 ALPINE	11,700	800		2,800		100
3 AMADOR	2,100	8,800	5,000	4,000	100	100
4 BUTTE	34,500	600	3,500	35,600	34,000	800
5 CALAVERAS	4,500	2,000	8,500			
6 COLUSA	11,400	1,000	500	178,700	18,800	3,600
7 CONTRA COSTA	10,000	200		13,200	3,500	
8 DEL NORTE			300	15,800	500	3,100
9 ELDORADO	4,500	5,000	7,000	100		
10 FRESNO	20,400	15,000	5,900	24,300	3,800	
11 GLENN	15,000		1,500	20,000	39,300	
12 HUMBOLDT	2,500	1,000	3,900	10,700	5,200	9,900
13 IMPERIAL	9,500	19,600		12,100	11,100	1,000
14 INYO	1,900	5,000		4,800		
15 KERN	115,100	41,000	(500)	70,300	1,100	200
16 KINGS	22,700	1,700		1,300	600	
17 LAKE	6,700	3,500	3,200	6,000	100	
18 LASSEN	30,400	2,500		15,700	15,000	
19 LOS ANGELES	45,100	41,500	900	4,500	100	
20 MADERA	27,500	5,200	2,100	11,500	500	
21 MARIN	1,700	800		2,500	800	1,100
22 MARIPOSA		3,200	2,100	200		
23 MENDOCINO	1,600	1,300	(200)	10,800	100	
24 MERCED	156,400	50,100		212,000	32,900	2,100
25 MODOC	27,000	5,000		39,100	15,800	
26 MONO	2,300	2,200	(11)	3,700		
27 MONTEREY	20,500	40,300		41,500	700	3,300
28 NAPA	3,500			2,000	800	200
29 NEVADA	2,300		1,000			
30 ORANGE	10,200	4,100		5,600		
31 PLACER	2,400	2,000				
32 PLUMAS	1,500	1,100	2,700	2,700	1,100	
33 RIVERSIDE	20,000	11,000	4,000	15,000	2,500	2,000
34 SACRAMENTO	23,000	3,300	200	35,000	9,600	200
35 San BENITO	700	3,300		4,000	100	
36 San BERNARDINO	20,200	25,100		16,900	600	800
37 San DIEGO	28,300	25,100		35,000	700	500
38 San FRANCISCO						
39 San JOAQUIN	37,400	5,900	(50)	72,000	19,800	5,300
40 San LUIS OBISPO	18,700	200	(50)	6,400	400	
41 San MATEO	200	15,000		13,000	200	
42 Santa BARBARA	2,000	10,100		2,600	300	
43 Santa CLARA	4,500	4,400	200	11,400		
44 Santa CRUZ	4,500	4,700		4,700		
45 SHASTA	1,800	1,200	1,000	4,700	100	
46 SIERRA	15,000	1,000	500			
47 SISKIYOU	10,000	1,500	3,200	67,800	1,400	
48 SOLANO	17,900	200		203,900	2,700	
49 SONOMA	22,200	100	(100)	12,200	1,000	
50 STANISLAUS	20,000	3,400		15,100	200	
51 SUTTER	20,500	1,000		21,500	14,200	
52 TEHAMA	7,700		2,000	10,300	500	
53 TRINITY	2,500		200		100	
54 TULARE	15,000	1,000		10,000		
55 TUOLUMNE	10,000	200	2,000	11,000		
56 VENTURA	10,000	1,000	1,500	15,000	100	
57 YOLO	30,000	500		20,000	9,700	
58 YUBA	20,000	100	500	25,000	7,500	

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20,000

	Pleasants	Quinn	Smith	Chas. P. Jones
1 ALAMEDA	1100	10,300	22,400	1300
2 ALPINE		100	100	
3 AMADOR	200	26,600	33,800	7500
4 BUTTE	56,000	21,000	90,000	2700
5 CALAVERAS		15,000	7200	
6 COLUSA	58,900	7,700	32,200	300
7 CONTRA COSTA	8200	2,600	35,000	600
8 DEL NORTE		800		600
9 ELDORADO		25,700	17,400	10,100
10 FRESNO	47,700	22,200	223,700	2400
11 GLENN	28,800	1,700	53,300	700
12 HUMBOLDT	200	24,700	900	6500
13 IMPERIAL	17,300	71,300	582,700	2000
14 INYO	4500	29,200	40,600	5700
15 KERN	6720	125,400	207,700	4500
16 KINGS	9500	20,200	108,100	1700
17 LAKE	100	21,200	21,900	
18 LASSEN	9900	22,500	30,200	500
19 LOS ANGELES	1,800	23,600	24,000	1000
20 MADERA	8000	47,800	78,200	100
21 MARIN	1100	12,500	21,000	
22 MARIPOSA		20,700	10,200	
23 MENDOCINO		25,400	21,000	
24 MERCED	29,100	22,300	145,500	100
25 MODOC	2600	32,100	12,700	
26 MONO		300	8700	
27 MONTEREY	1,700	40,500	47,300	96,400
28 NAPA	1,200	2,700	36,500	100
29 NEVADA	1,100	21,200	5,800	700
30 ORANGE	3200	12,300	23,200	2700
31 PLACER	6500	12,200	12,200	12,300
32 PLUMAS	200	20,200	300	
33 RIVERSIDE	2900	22,200	43,500	1,300
34 SACRAMENTO	24,500	22,200	64,400	1,600
35 San BENITO		12,800	14,500	
36 San BERNARDINO	700	60,100	93,500	1,000
37 San DIEGO	8400	28,200	96,000	5500
38 San FRANCISCO				
39 San JOAQUIN	42,500	22,100	135,300	300
40 San LUIS OBISPO	100	22,200	65,900	2,200
41 San MATEO	200	12,200	11,900	2,500
42 Santa BARBARA		22,200	28,700	800
43 Santa CLARA	800	22,200	17,200	2300
44 Santa CRUZ	200	22,200	17,200	2000
45 SHASTA	900	22,200	13,200	2300
46 SIERRA		700	2,200	
47 SISKIYOU	18,500	22,200	12,200	2700
48 SOLANO	61,300	22,200	19,200	
49 SONOMA	1,100	22,200	22,200	1,200
50 STANISLAUS	31,600	22,200	159,600	1,200
51 SUTTER	47,200	22,200	22,200	
52 TEHAMA	2,200	22,200	22,200	200
53 TRINITY		22,200	22,200	
54 TULARE	7000	22,200	22,200	200
55 TUOLUMNE	200	22,200	22,200	1700
56 VENTURA		22,200	22,200	200
57 YOLO	22,200	22,200	22,200	200
58 YUBA	22,200	22,200	22,200	100

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	1945	1946	1947	1948
1 ALAMEDA	1,200	1,100		
2 ALPINE		2,000	100	
3 AMADOR		1,400		
4 BUTTE	8,800	2,200	100	
5 CALAVERAS		1,700		
6 COLUSA	4,400	600		
7 CONTRA COSTA	1,100	100		
8 DEL NORTE	1,700	300		
9 ELDORADO		2,100		
10 FRESNO	13,200	1,000		
11 GLENN	2,200	1,600		
12 HUMBOLDT	1,100	2,600	100	
13 IMPERIAL	10,100			
14 INYO	600	800		
15 KERN	5,500	2,300	100	
16 KINGS				
17 LAKE		3,200		
18 LASSEN	300	3,700		
19 LOS ANGELES	5,700	1,500		
20 MADERA	2,200	1,000		
21 MARIN	1,600	1,500		
22 MARIPOSA		1,100	100	
23 MENDOCINO	5,600	2,000		
24 MERCED	73,200	800		
25 MODOC	700	4,200	100	
26 MONO		2,100		
27 MONTEREY	300	6,700		2,700
28 NAPA	1,900	1,500		
29 NEVADA		1,200		
30 ORANGE		700		
31 PLACER		2,000	300	
32 PLUMAS	1,100	1,000	100	
33 RIVERSIDE	2,000	1,000		
34 SACRAMENTO	12,100	1,000		
35 San BENITO	1,100	1,000		
36 San BERNARDINO	1,100	1,200	100	
37 San DIEGO	200	1,200		
38 San FRANCISCO				
39 San JOAQUIN	2,700			
40 San LUIS OBISPO	500	2,000		
41 San MATEO		1,000		
42 Santa BARBARA	300	7,000		1,000
43 Santa CLARA	2,600	1,200		
44 Santa CRUZ	200	1,000		
45 SHASTA		2,200		100
46 SIERRA		2,000		
47 SISKIYOU	4,000	7,000	100	
48 SOLANO	12,100	1,000		
49 SONOMA	2,200	2,000		200
50 STANISLAUS	1,200	1,000		
51 SUTTER	12,100	1,000		
52 TEHAMA		2,000	200	
53 TRINITY		2,000	200	
54 TULARE		1,000	100	
55 TUOLUMNE		1,000		
56 VENTURA		2,000		
57 YOLO	1,000	1,000		
58 YUBA	2,000	1,000		
TOTAL	171,000	171,000	1,700	4,000