

California Department of Fish and Game  
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Sacramento 14, California

REPORT OF THE 1962 GAME TAKE HUNTER SURVEY

Hunter game bag questionnaires were mailed to an approximate two percent random sample of California hunting license buyers after the close of the 1962-63 waterfowl season which ended January 6, 1963.

Two changes were made in the 1962 survey procedures:

1. Sampling Procedure

Each license book contained one (1) self-addressed, pre-glued license stub. The sample was drawn from this group.

2. Questionnaire

The general format and language of the questionnaire was retained, but to expedite processing the outside dimensions of the questionnaire were altered.

It is of importance to bear in mind that, due to the statistical bias inherent in surveys of this kind and the fact that any change in procedure may affect the survey results, the principal value of the total bag figures included in this report is in their indication of game bag trends.

A total of 10,366 questionnaires was mailed and 5,393 useable questionnaires were returned. The 52 percent return was the highest percentage response recorded for the annual game take survey.

<u>Year</u>	<u>Questionnaires Mailed</u>	<u>Questionnaires Returned</u>	<u>Percent Response</u>
1954	11,011	5,231	47.5
1955	11,016	5,082	46.1
1956	11,725	5,304	45.2
1957	11,275	5,200	46.1
1958	10,478	5,036	48.1
1959	10,461	5,047	48.1
1960	10,676	5,314	49.8
1961	10,902	5,590	51.3
1962	10,366	5,393	52.0

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 1962 hunting season calculations was  $635,000 \div 5,393 = 117.7$ .

HUNTING LICENSE SALES

An estimated 635,000 hunting licenses were sold in 1962, a slight increase over the number sold in 1961.

## HUNTING REGULATION CHANGES

### 1. DEER

In Modoc and Lassen counties and portions of Siskiyou, Shasta and Tehama counties, the season closing date was two weeks earlier than the balance of the late season area.

### 2. BEAR

A uniform statewide season was effected.

### 3. SIERRA AND RUFFED GROUSE

The season was reopened after a one year closure.

### 4. CHUKAR

The season was one week shorter than 1961.

### 5. TREE SQUIRRELS

Counties of Mendocino, Sonoma, Monterey, and Tulare were added to the open season area.

### 6. DUCKS

The northeast portion of the State was zoned for a straight 75-day season in contrast to the split season in the balance of the State.

## BAG BY SPECIES

### UPLAND GAME

Pheasants - 1962 Bag - 724,600

The 1962 pheasant bag was higher, by 20 percent, than the 604,100 reported in 1961.

Pre-season population counts had indicated an excellent pheasant population in the traditional pheasant producing areas. However, due to several factors, among them adverse weather, the pre-season populations did not materialize in the reported bag in the Sacramento Valley.

Heavy rainfall in the latter part of October curtailed crop harvesting operations in the Sacramento Valley. Excellent cover was present during the season.

The contribution of the Sacramento Valley "pheasant bowl" area to the pheasant take was approximately the same numerically as in 1961. The most notable increase in kill was in the lower San Joaquin Valley and in southeastern California. These areas reported 49 percent of the statewide kill in 1962, compared to 39 percent in 1961.

The 1962 average seasonal bag of 3.6 pheasants per hunter was an increase over the 3.2 birds per hunter reported in 1961.

Quail - 1962 Bag - 2,147,800

An increase of 29 percent was recorded in the 1962 quail bag over the 1,659,200 reported in 1961.

Precipitation in the winter of 1961-62, which relieved drought conditions, also improved forage and contributed to higher quail populations in most of the State. The coastal and southwestern parts of California were benefited particularly, and bag figures there increased appreciably. Southeastern California, a traditional area of past quail abundance, was supplanted as a leader in the quail bag by the southwesterly portion of the State.

The average seasonal bag was 12.1 birds per hunter, an increase from the 10.8 average seasonal bag in 1961. This was accompanied by a 15 percent increase in the number of quail hunters in the field over the 154,200 reported in 1961.

Doves - 1962 Bag - 4,864,300

The dove bag reported in 1962 registered a 24 percent increase over the almost four million doves taken in 1961, with an increase of about 11 percent in the number of hunters over 1961 figures. The average seasonal bag rose to 21.8 doves per hunter from 19.4 in 1961.

Pre-season breeding surveys had indicated a good dove population.

Field checks of dove hunters indicated a higher kill in 1962 than was recorded in 1961.

Favorable weather held throughout the season, with very little movement of doves from preferred areas. As a result, most of the traditional dove hunting areas in the San Joaquin Valley and areas south of the Tehachapi Mountains had very good populations of doves during the 1962 season.

Chukar Partridge - 1962 Bag - 52,200

An increased kill over the 1961 figure of 19,300 was reported for the 1962 chukar bag. The reported 18,800 chukar hunters represented a 45 percent rise in hunter use over the 13,000 hunters in 1961.

The excellent spring vegetative growth of 1962 contributed to increased chukar populations.

The report of an appreciable chukar kill in areas where no known natural population is present, indicated that the stocking of chukars on licensed pheasant clubs also had an effect on the increased kill.

Sierra and Ruffed Grouse - 1962 Bag - 2,100

After a one year closure, the 1962 Sierra and ruffed grouse season produced a kill that was almost equal to the bag reported for the 1960 season.

Band-tailed Pigeons - 1962 Bag - 337,800

A marked increase of 45 percent over the 1961 bag of 233,100 was reported by survey respondents in 1962 and confirmed findings from in-season bag checks made by department personnel.

In general, the increased kill was apparent in the coastal area extending from San Francisco Bay in the north to the Mexican border.

In 1961, Monterey County accounted for about 41 percent of the statewide bag, whereas in 1962 a more widespread kill trend was in evidence.

The 44,800 pigeon hunters reported for 1962 exceeded the 27,600 hunters reported in 1961 by 62 percent, but the average seasonal pigeon bag of 7.5 birds per hunter in 1962 was less than the average bag of 8.4 pigeons reported in 1961.

Jackrabbits - 1962 Bag - 1,553,400

A 28 percent increase over the 1961 jackrabbit bag of 1,212,600 was recorded in 1962, with about six percent more hunters in the field.

Cottontail and Brush Rabbits - 1962 Bag - 537,100

The 1962 cottontail and brush rabbit bag represents an increase of about 16 percent over the 462,300 rabbits bagged in 1961. There were about three percent more hunters reported in 1962 than the 1961 figure.

Tree Squirrels - 1962 Bag - 79,300

The tree squirrel bag increased by two percent over the 77,900 squirrel take reported in 1961.

#### UPLAND GAME SUMMARY

All upland game species reported increases in their 1962 kill over the bag recorded in 1961.

Total hunter effort expended was about 12 percent higher than was reported in 1961.

An improvement, from 1961, of most upland game habitat resulted from rainfall, which was average or above, during the winter of 1961-62 and contributed to increased upland game populations.

#### WATERFOWL

Ducks - 1962 Bag - 1,705,500

The 1962 duck bag fell 19 percent below the 1961 reported bag of 2,099,000. About four percent fewer duck hunters reported hunting effort in 1962 than in 1961.

Pre-season duck population counts indicated that the 1962 population was approximately the same number as it was in 1961.

Severe pre-season storms, which produced flood conditions in the Sacramento Valley, made many unharvested crops available to ducks for feed.

Though the duck population was adequate, the availability of feed and the fair weather which prevailed during both halves of the duck season, it is felt, contributed to the decline in the duck bag in the 1962 season.

The 1962 average seasonal duck bag was 12.0 ducks per hunter compared with a 14.1 seasonal average kill in 1961.

Geese - 1962 Bag - 316,100

The goose bag was almost identical in both 1962 and 1961, but in 1962 about 10 percent fewer goose hunters reported goose hunting effort than were reported in 1961.

Siskiyou County, principally at Tule Lake, has been a traditionally fine goose hunting area and in 1962 produced about 19 percent of the statewide goose bag. In 1961 this area contributed only nine percent of the statewide kill.

Jacksnipes - 1962 Bag - 46,600

The 1962 jacksnipe kill declined about five percent below the 49,000 reported bagged in 1961.

WATERFOWL SUMMARY

The duck bag continued the decline which has been in evidence since 1959 and is paralleled by the drop in the sale of Federal duck stamps during the same period.

The total goose kill was about the same as was reported in 1961.

A total of 973,900 waterfowl hunter days was reported in 1962, an increase of about four percent over the 956,500 hunter days reported in 1961.

State-operated waterfowl management areas, in 1962, showed an increase in their kill, also in the hunter use of the areas, over 1959 figures. Prior to 1962 the waterfowl management area bag and hunter use inquiry was last included in the 1959 questionnaire. Comparative figures for these years are listed below.

	<u>1959</u>	<u>1962</u>
No. of Hunters	23,700	36,800
Total Bag	174,500	226,000
Avg. Seasonal Bag	7.4	6.1

BIG GAME

Deer - 1962 Bag - 112,300 (Deer tag count - 54,909)

The 1962 buck deer kill, as reported by survey respondents, was 11 percent less than the 126,100 bucks reported in 1961.

Hunters submitted 54,909 deer kill tags in 1962 compared with 69,118 tags in 1961, a 21 percent decrease in kill.

A comparison of these two methods of determining the buck kill during the regular season continues the trend of former years in which the reported kill by survey respondents has been about double the kill obtained from deer tag returns.

Bears - 1962 Bag - 2,500 (Bear tag count - 594)

The 1962 bear kill, as reported by survey respondents, exceeded the 1961 kill of 1,700 by 47 percent.

The 1962 bear kill, obtained from bear kill report tags was 594, a decrease of 29 percent from the bear kill of 841 reported in 1961.

The small sample of bear hunters included in this survey tends to make this portion susceptible to extreme bias.

#### BIG GAME SUMMARY

The 1962 deer season was below average. Several factors contributed to the lower kill; the drought years of 1959 through 1961 resulted in a reduced deer population and heavy storms during late October curtailed hunting effort with many preferred deer ranges inaccessible to hunters.

Survey respondents indicated a drop in the deer kill in 1962, but the percentage decrease was only about half as great as was indicated by deer kill tag returns.

Over three million big game hunter days were reported for 1962 compared with about 2-3/4 million hunter days in 1961, an increase of about eight percent.

There were a reported 19,100 archery hunters in 1962.

The following tables are appended to this report:

1. Summary of Statewide Game Bag - 1962
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 - 1962
4. Hunting Tags and Stamps Purchased - 1962
5. Preferred Game Species as Indicated by Questionnaire Respondents - 1962
6. Distribution of Hunting Tags and Stamps Purchased by Questionnaire Respondents - 1962
7. Distribution of Pheasant Hunters by Type of Hunting Area 1959 and 1962
8. Mailing and Return by County of Residence - 1962 Hunter Questionnaire

TABLE I

## SUMMARY OF STATEWIDE GAME BAG - 1962

<u>Species</u>	<u>Yearly Avg. 1956-60</u>	<u>1961</u>	<u>1962</u>	<u>% Change From 1961</u>
Pheasants	689,000	604,100	724,600	+ 20
Quail	1,594,600	1,659,200	2,147,800	+ 29
Doves	3,410,500	3,906,700	4,864,300	+ 24
Chukar Partridge	23,400	19,300	52,200	+170
Sierra and Ruffed Grouse	2,000	No Season	2,100	--
Sage Grouse	18,200*	No Season	No Season	--
Band-tailed Pigeons	202,700	233,100	337,800	+ 45
Jackrabbits	1,097,600	1,212,600	1,553,400	+ 28
Cottontail/Brush Rabbits	472,600	462,300	537,100	+ 16
Tree Squirrels	73,800	77,900	79,300	+ 2
Ducks	3,358,300	2,099,000	1,705,500	- 19
Geese	342,100	315,900	316,100	+ T
Jacksnipes	47,800	49,000	46,600	- 5
Coots	377,400	263,100	270,400	+ 3
Buck Deer (Tag Count)	68,665	69,118	54,909	- 21
Bears (Tag Count)	865	841	594	- 29
European Wild Pig	1,100	4,000	7,400	+ 85

\* No season on sage grouse since 1959.

TABLE II  
 GAME BAG - 1962  
 (TEN LEADING COUNTIES)

<u>PHEASANTS</u>	<u>% OF STATE TOTAL</u>	<u>POSITION 1961</u>	<u>JACKRABBITS</u>	<u>% OF STATE TOTAL</u>	<u>POSITION 1961</u>
1. BUTTE	10.3	2	1. KERN	9.0	2
2. FRESNO	9.0	4	2. MADERA	6.7	14
3. COLUSA	7.3	1	3. SAN JOAQUIN	5.7	8
4. SUTTER	6.4	5	4. MERCED	4.8	1
5. SOLANO	5.7	12	5. SUTTER	4.2	12
6. YOLO	5.4	3	6. LOS ANGELES	4.0	7
7. MERCED	5.1	9	7. TULARE	4.0	5
8. SAN JOAQUIN	4.8	6	8. FRESNO	4.0	3
9. SACRAMENTO	4.3	7	9. YOLO	3.9	16
10. STANISLAUS	4.1	8	10. SAN BERNARDINO	3.9	4
ALL OTHERS	<u>37.6</u>	-	ALL OTHERS	<u>49.8</u>	-
TOTAL	100.0		TOTAL	100.0	

<u>QUAIL</u>	<u>% OF STATE TOTAL</u>	<u>POSITION 1961</u>
1. KERN	11.7	1
2. SAN DIEGO	7.1	6
3. RIVERSIDE	5.9	2
4. FRESNO	5.6	5
5. VENTURA	4.3	16
6. TULARE	4.2	3
7. MONTEREY	3.7	10
8. SAN LUIS OBISPO	3.6	20
9. LOS ANGELES	3.4	16
10. IMPERIAL	3.0	4
ALL OTHERS	<u>47.5</u>	-
TOTAL	100.0	

<u>RABBITS (COTTONTAIL AND BRUSH)</u>	<u>% OF STATE TOTAL</u>	<u>POSITION 1961</u>
1. RIVERSIDE	13.6	1
2. KERN	12.2	3
3. SAN DIEGO	11.8	2
4. ORANGE	8.7	16
5. SAN BERNARDINO	6.4	5
6. VENTURA	5.7	9
7. LOS ANGELES	4.8	6
8. MONTEREY	3.9	4
9. IMPERIAL	3.5	8
10. FRESNO	3.1	10
ALL OTHERS	<u>26.3</u>	-
TOTAL	100.0	

<u>DOVES</u>	<u>% OF STATE TOTAL</u>	<u>POSITION 1961</u>
1. IMPERIAL	9.6	1
2. TULARE	8.9	2
3. KERN	7.6	5
4. FRESNO	7.5	3
5. RIVERSIDE	6.1	4
6. STANISLAUS	3.9	6
7. SAN DIEGO	3.5	13
8. MERCED	3.3	8
9. SAN JOAQUIN	3.2	7
10. LOS ANGELES	3.1	22
ALL OTHERS	<u>43.3</u>	-
TOTAL	100.0	

<u>DUCKS</u>	<u>% OF STATE TOTAL</u>	<u>POSITION 1961</u>
1. MERCED	14.7	1
2. COLUSA	9.9	3
3. SOLANO	9.4	2
4. IMPERIAL	4.4	4
5. SISKIYOU	4.3	11
6. FRESNO	4.1	6
7. BUTTE	4.1	7
8. SUTTER	4.0	5
9. KERN	3.8	10
10. ALAMEDA	3.6	22
ALL OTHERS	<u>37.7</u>	-
TOTAL	100.0	

<u>BAND-TAILED PIGEONS</u>	<u>% OF STATE TOTAL</u>	<u>POSITION 1961</u>
1. SANTA CRUZ	14.5	2
2. KERN	10.8	27
3. SANTA CLARA	9.3	18
4. MONTEREY	7.9	1
5. SAN LUIS OBISPO	6.2	7
6. TULARE	5.4	19
7. SAN DIEGO	5.2	12
8. LOS ANGELES	5.0	25
9. SONOMA	3.8	3
10. SANTA BARBARA	3.1	30
ALL OTHERS	<u>28.8</u>	-
TOTAL	100.0	

<u>GEESE</u>	<u>% OF STATE TOTAL</u>	<u>POSITION 1961</u>
1. COLUSA	22.9	1
2. SISKIYOU	18.7	5
3. MERCED	10.1	4
4. GLENN	7.1	3
5. MODOC	6.8	7
6. BUTTE	5.5	2
7. SUTTER	3.8	9
8. YOLO	3.4	13
9. SOLANO	3.3	8
10. SAN JOAQUIN	2.5	6
ALL OTHERS	<u>15.9</u>	-
TOTAL	100.0	

TABLE III

MAJOR GAME SPECIES BAG - 1962  
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	6	52	4	26	13
Quail	9	12	21	28	30
Doves	3	15	15	35	32
Jackrabbits	6	28	12	34	20
Cottontail/Brush Rabbits	2	4	14	23	57
Ducks	11	40	13	26	10

TABLE IV

## HUNTING TAGS AND STAMPS PURCHASED - 1962

	<u>Reported by</u>	<u>Estimated*</u>	<u>Difference</u>	<u>Percent Difference</u>
	<u>Questionnaire</u>	<u>Sales</u>		<u>From Estimated</u>
	<u>Respondents</u>			<u>Sales</u>
	<u>Number</u>	<u>Number</u>	<u>Number</u>	<u>Percent</u>
Deer Tags	454,800	405,000	+ 49,800	+ 12
Pheasant Tags	206,800	173,000	+ 33,800	+ 20
Federal Duck Stamps	169,100	115,000	+ 54,100	+ 47
Bear Tags	44,700	26,600	+ 18,100	+ 68

\*Supplied by Department of Fish and Game License Section and the U. S. Fish and Wildlife Service.

TABLE V

PREFERRED GAME SPECIES AS REPORTED BY  
QUESTIONNAIRE RESPONDENTS - 1962

Species	Percent			Number		
	Successful Hunters	Unsuccessful Hunters	Total Hunters	Successful Hunters	Unsuccessful Hunters	Total Hunters
Deer	17	54	71	96,100	315,900	412,000
Doves	37	2	39	213,500	9,900	223,400
Pheasants	26	9	35	151,300	50,100	201,400
Quail	26	5	31	151,800	25,900	177,700
Ducks	20	4	24	118,400	23,900	142,300
Jackrabbits	18	1	19	103,100	5,900	109,000
Cottontail/Brush Rabbits	13	1	14	73,000	7,200	80,200
Geese	10	3	13	57,700	15,900	73,600
Band-tailed Pigeons	6	2	8	31,800	13,000	44,800
Bears	T	5	5	2,100	29,300	31,400
Tree Squirrels	4	1	5	21,900	5,500	27,400
Coots	3	T	3	18,700	600	19,300
Chukar Partridge	2	1	3	11,000	7,800	18,800
Wild Pigs	1	1	2	3,400	7,800	11,200
Jacksnipes	1	T	1	6,700	1,400	8,100
Sierra/Ruffed Grouse	T	T	T	1,400	600	2,000

Of the estimated 635,000 license buyers in 1962, 581,300 indicated some degree of hunting effort.

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

TABLE VI

DISTRIBUTION OF HUNTING TAGS AND STAMPS PURCHASED  
BY QUESTIONNAIRE RESPONDENTS - 1962

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				2,204	40.9
xx	xx	xx		517	9.6
xx	xx			490	9.1
	xx			307	5.7
	xx	xx		292	5.4
xx		xx		276	5.1
		xx		239	4.4
xx			xx	205	3.8
xx	xx	xx	xx	88	1.7
xx	xx		xx	60	1.1
xx		xx	xx	24	0.5
			xx	7	0.1
	xx		xx	2	T
	xx	xx	xx	1	T
No Stamps or Tags Purchased				<u>681</u>	<u>12.6</u>
Total Respondents				5,393	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	
	Number	Percent	Number	Percent
1. Other	104,000	52.0	104,900	58.8
2. Co-op	27,800	13.9	6,700	3.8
3. Community	15,600	7.8	17,300	9.7
4. Lic. Pheas. Club	14,600	7.3	14,800	8.3
5. W.M.A.	5,700	2.9	6,100	3.4
<u>Subtotal</u>	167,700	83.9	149,800	84.0
Hunters Using More Than One Area	<u>32,200</u>	<u>16.1</u>	<u>28,600</u>	<u>16.0</u>
<u>Total Hunters With Area Indicated</u>	199,900	100.0	178,400	100.0
Hunting Area Not Indicated	<u>12,100</u>		<u>23,000</u>	
<u>GRAND TOTAL ALL PHEASANT HUNTERS</u>	212,000		201,400	

*Actual Max Days Hunting Per Area*  
Total Individual Area Hunter Use

1. Other	127,700	54.8	126,300	60.1
2. Co-op	46,200	19.8	18,200	8.7
3. Community	26,600	11.4	26,600	12.7
4. Lic. Pheas. Club	21,900	9.4	24,900	11.8
5. W.M.A.	10,700	4.6	14,000	6.7
<u>*TOTAL</u>	233,100	100.0	210,000	100.0

\*Due to the fact that some pheasant hunters hunted on two or more pheasant hunting areas, this total exceeds the actual number of pheasant hunters reported.

TABLE VIII D

## MAILING AND RETURN OF QUESTIONNAIRES BY COUNTY OF RESIDENCE - 1962 HUNTER SURVEY

COUNTY	QUESTIONNAIRES MAILED	PERCENT OF TOTAL MAILED	NUMBER RETURNED	PERCENT RETURNED
ALAMEDA	507	4.9	263	51.8
ALPINE	1	T	1	100.0
AMADOR	26	0.3	12	46.1
BUTTE	266	2.6	139	52.2
CALAVERAS	33	0.3	18	54.5
COLUSA	40	0.4	19	47.5
CONTRA COSTA	370	3.6	194	52.4
DEL NORTE	38	0.4	18	47.4
EL DORADO	86	0.8	48	55.8
FRESNO	423	4.1	229	54.1
GLENN	59	0.6	37	62.7
HUMBOLDT	252	2.4	124	49.2
IMPERIAL	79	0.8	33	41.8
INYO	44	0.4	28	63.6
KERN	329	3.2	161	48.9
KINGS	71	0.7	27	38.0
LAKE	47	0.4	26	55.0
LASSEN	58	0.6	35	60.3
LOS ANGELES	1,738	16.8	904	52.0
MADERA	69	0.7	40	58.0
MARIN	110	1.1	57	51.8
MARIPOSA	11	0.1	7	63.6
MENDOCINO	123	1.2	61	49.6
MERCED	138	1.3	63	45.7
MODOC	28	0.3	15	53.6
MONO	19	0.2	12	63.1
MONTEREY	153	1.5	84	54.9
NAPA	88	0.8	47	53.4
NEVADA	58	0.6	31	53.4
ORANGE	264	2.5	136	51.5
PLACER	116	1.1	59	50.9
PLUMAS	53	0.5	22	41.5
RIVERSIDE	140	1.4	72	51.4
SACRAMENTO	598	5.8	319	53.3
SAN BENITO	22	0.2	13	59.1
SAN BERNARDINO	210	2.0	106	50.5
SAN DIEGO	365	3.5	196	53.7
SAN FRANCISCO	234	2.3	131	56.0
SAN JOAQUIN	296	2.9	147	49.7
SAN LUIS OBISPO	132	1.3	82	62.1
SAN MATEO	263	2.5	144	54.8
SANTA BARBARA	143	1.4	66	46.2
SANTA CLARA	440	4.2	236	53.6
SANTA CRUZ	88	0.8	53	60.2
SHASTA	234	2.2	122	52.1
SIERRA	10	0.1	6	60.0
SISKIYOU	147	1.4	71	48.3
SOLANO	135	1.3	76	56.3
SONOMA	211	2.0	105	49.8
STANISLAUS	215	2.1	107	49.8
SUTTER	96	0.9	51	53.1
TEHAMA	85	0.8	43	50.6
TRINITY	35	0.3	17	48.6
TULARE	220	2.1	107	48.6
TUOLUMNE	43	0.4	22	51.2
VENTURA	112	1.1	63	56.3
YOLO	119	1.1	66	55.5
YUBA	74	0.7	21	28.4
NON-RESIDENT	2	T	1	50.0
TOTAL	10,366	100.0	5,393	52.0

	Ducks	Geese	Jacksnipes
1 ALAMEDA	61,400	600	1,900
2 ALPINE	1,300		
3 AMADOR			
4 BUTTE	69,400	17,300	800
5 CALAVERAS			
6 COLUSA	168,300	72,500	4,200
7 CONTRA COSTA	53,700	2,800	1,800
8 DEL NORTE	3,500		
9 EL DORADO			
10 FRESNO	70,400	2,900	500
11 GLENN	40,500	22,300	500
12 HUMBOLDT	37,400	1,300	2,400
13 IMPERIAL	75,000	7,200	1,300
14 INYO	3,900	400	
15 KERN	64,900	1,300	
16 KINGS	4,000	200	
17 LAKE	4,000		
18 LASSEN	21,900	6,900	
19 LOS ANGELES	3,500		
20 MADERA	9,300	3,500	700
21 MARIN	27,800	900	1,900
22 MARIPOSA			
23 MENDOCINO	4,900		
24 MERCED	250,000	32,000	4,700
25 MODOC	27,800	21,400	700
26 MONO	10,800	2,600	
27 MONTEREY	6,600		2,800
28 NAPA	5,400	200	200
29 NEVADA			
30 ORANGE	3,200		
31 PLACER	3,100	900	
32 PLUMAS	2,400	900	
33 RIVERSIDE	33,800	1,300	
34 SACRAMENTO	37,300	5,900	3,700
35 San BENITO	2,400		
36 San BERNARDINO	6,700		
37 San DIEGO	17,700	500	1,200
38 San FRANCISCO			
39 San JOAQUIN	52,400	8,000	6,100
40 San LUIS OBISPO	800		
41 San MATEO	13,300		
42 Santa BARBARA	4,400		
43 Santa CLARA	16,400		
44 Santa CRUZ			400
45 SHASTA	9,400	1,400	
46 SIERRA	900	100	
47 SISKIYOU	73,400	59,200	200
48 SOLANO	159,700	10,500	2,200
49 SONOMA	20,200	200	2,200
50 STANISLAUS	15,900	700	
51 SUTTER	69,000	12,100	1,200
52 TEHAMA	3,300	800	
53 TRINITY	700		
54 TULARE	19,500	900	2,200
55 TUOLUMNE	100		
56 VENTURA	17,500	200	1,500
57 YOLO	39,700	10,800	800
58 YUBA	32,500	3,500	400
NOT GIVEN	24,100	1,900	100
TOTAL	1,705,500	316,100	46,600

	PHEASANTS	QUAIL	DOVES
1 ALAMEDA	3,900	22,100	65,600
2 ALPINE		700	1,100
3 AMADOR		10,600	19,800
4 BUTTE	74,300	33,400	77,900
5 CALAVERAS		8,800	6,100
6 COLUSA	53,100	12,000	39,000
7 CONTRA COSTA	9,700	18,500	122,000
8 DEL NORTE			
9 ELDORADO		41,200	28,200
10 FRESNO	65,100	120,500	365,600
11 GLENN	29,200	8,800	53,700
12 HUMBOLDT	100	27,200	5,200
13 IMPERIAL	23,100	64,600	467,100
14 INYO	10,200	26,800	59,100
15 KERN	21,800	250,200	367,600
16 KINGS	9,200	13,800	67,000
17 LAKE	600	38,700	35,100
18 LASSEN	4,800	17,400	35,200
19 LOS ANGELES	13,900	73,300	153,400
20 MADERA	7,200	45,800	74,300
21 MARIN	800	13,800	10,200
22 MARIPOSA		32,400	7,300
23 MENDOCINO	-	23,800	6,900
24 MERCED	37,100	12,700	158,700
25 MODOC	8,200	29,900	10,600
26 MONO	600	3,100	11,700
27 MONTEREY	2,000	79,100	96,400
28 NAPA	3,400	11,700	44,400
29 NEVADA	-	19,500	2,600
30 ORANGE	4,000	10,500	73,700
31 PLACER	5,600	31,400	62,100
32 PLUMAS	-	1,600	5,600
33 RIVERSIDE	17,300	126,400	297,000
34 SACRAMENTO	31,000	8,600	76,700
35 San BENITO	1,200	28,100	46,800
36 San BERNARDINO	5,300	59,100	133,800
37 San DIEGO	3,300	152,700	169,100
38 San FRANCISCO			
39 San JOAQUIN	34,800	37,000	158,100
40 San LUIS OBISPO	500	77,800	124,100
41 San MATEO	4,400	4,600	8,000
42 Santa BARBARA		44,300	65,300
43 Santa CLARA	2,000	42,000	44,800
44 Santa CRUZ	500	40,000	38,600
45 SHASTA	2,500	43,700	42,300
46 SIERRA		200	1,200
47 SISKIYOU	17,100	14,600	16,400
48 SOLANO	41,400	5,200	47,100
49 SONOMA	3,400	46,800	58,700
50 STANISLAUS	29,800	26,300	191,000
51 SUTTER	46,400	6,700	54,800
52 TEHAMA	6,600	18,800	42,600
53 TRINITY		16,200	3,500
54 TULARE	12,900	90,500	432,400
55 TUOLUMNE	400	15,700	9,100
56 VENTURA	11,900	93,000	131,500
57 YOLO	39,400	20,400	76,100
58 YUBA	14,100	20,800	33,300
Not Given	10,500	4,400	28,800
<b>Total</b>	<b>724,600</b>	<b>2,147,800</b>	<b>4,864,300</b>

	COOTS	Deer	DEER	Bear	BEAR
1	ALAMEDA	4,600	1,800		
2	ALPINE	3,200	3,400		
3	AMADOR	-	200		
4	BUTTE	7,800	2,500		
5	CALAVERAS	-	900		
6	COLUSA	7,400	1,100		
7	CONTRA COSTA	35,100	600		
8	DEL NORTE	700			
9	ELDORADO	-	2,100		400
10	FRESNO	3,700	1,900		200
11	GLENN	1,200	2,800		
12	HUMBOLDT	1,800	6,700		100
13	IMPERIAL	17,000	100		
14	INYO	3,500	600		
15	KERN	16,000	2,200		
16	KINGS	-	100		
17	LAKE	1,800	3,800		100
18	LASSEN	4,900	2,200		
19	LOS ANGELES	-	900		
20	MADERA	4,100	2,000		
21	MARIN	5,900	1,600		
22	MARIPOSA	-	700		100
23	MENDOCINO	-	6,900		200
24	MERCED	20,800	500		
25	MODOC	4,600	2,100		
26	MONO	600	3,100		
27	MONTEREY	6,000	4,100		
28	NAPA	800	2,900		
29	NEVADA	-	2,100		
30	ORANGE	700	400		
31	PLACER	-	1,600		
32	PLUMAS	-	3,200		
33	RIVERSIDE	14,400	500		
34	SACRAMENTO	2,900	100		
35	San BENITO	500	2,200		
36	San BERNARDINO	700	800		
37	San DIEGO	7,500	900		
38	San FRANCISCO	-			
39	San JOAQUIN	9,200	200		
40	San LUIS OBISPO	-	3,100		
41	San MATEO	-	400		
42	Santa BARBARA	1,500	2,400		
43	Santa CLARA	600	2,400		
44	Santa CRUZ	-	100		
45	SHASTA	2,100	4,700		400
46	SIERRA	2,900	800		
47	SISKIYOU	6,000	6,600		500
48	SOLANO	19,900			
49	SONOMA	900	3,800		
50	STANISLAUS	1,100	2,000		
51	SUTTER	12,900			
52	TEHAMA	-	4,500		200
53	TRINITY	-	4,100		100
54	TULARE	13,300	1,500		
55	TUOLUMNE	-	2,000		
56	VENTURA	4,600	1,900		
57	YOLO	5,300	800		
58	YUBA	8,000	500		100
	NOT GIVEN	3,900	900		
	<b>TOTAL</b>	<b>270,400</b>	<b>112,300</b>		<b>2,500</b>

Wild Boar

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

TOTAL 7,400

COUNTY OF KILL BY SPECIES	Chukar Partridge	Sierra & Ruffed Grouse	Pigeons
1 ALAMEDA			7,500
2 ALPINE			100
3 AMADOR			200
4 BUTTE			1,200
5 CALAVERAS			
6 COLUSA			
7 CONTRA COSTA			2,000
8 DEL NORTE			
9 ELDORADO			3,400
10 FRESNO	8,800		2,100
11 GLENN			
12 HUMBOLDT		200	7,800
13 IMPERIAL	3,500		91,400
14 INYO	4,500		
15 KERN	21,200	10,100	36,400
16 KINGS			
17 LAKE			
18 LASSEN	200	200	
19 LOS ANGELES	800		16,800
20 MADERA			2,400
21 MARIN			
22 MARIPOSA			400
23 MENDOCINO			6,400
24 MERCED	400	100	1,200
25 MODOC		200	1,200
26 MONO	1,200	200	
27 MONTEREY			26,800
28 NAPA			700
29 NEVADA			3,700
30 ORANGE	500		4,700
31 PLACER			2,900
32 PLUMAS			1,400
33 RIVERSIDE	500		6,200
34 SACRAMENTO			1,400
35 San BENITO	1,300		
36 San BERNARDINO	2,200		1,500
37 San DIEGO			17,400
38 San FRANCISCO			
39 San JOAQUIN			4,000
40 San LUIS OBISPO	1,100		21,100
41 San MATEO			100
42 Santa BARBARA			10,400
43 Santa CLARA			31,500
44 Santa CRUZ			48,900
45 SHASTA		400	7,400
46 SIERRA	200	100	
47 SISKIYOU	200	200	5,300
48 SOLANO	3,100		600
49 SONOMA			12,800
50 STANISLAUS			1,400
51 SUTTER			
52 TEHAMA		100	700
53 TRINITY		200	4,900
54 TULARE			18,400
55 TUOLUMNE			4,800
56 VENTURA	2,000		5,700
57 YOLO			500
58 YUBA			1,500
NOT GIVEN	500		600
<b>TOTAL</b>	<b>52,200</b>	<b>2,100</b>	<b>337,800</b>

		Jackrabbits		Cottontail		Tree Squirrels	
1	ALAMEDA	28 27,200	2,600	12,800			
2	ALPINE	4,600	200	1,700			
3	AMADOR	1,200	200	200		600	
4	BUTTE	24 22,000	2,500	200		6,100	
5	CALAVERAS	2,300	100	400		1,900	
6	COLUSA	3 14,000	1,200				
7	CONTRA COSTA	13,800	600	1,700			
8	DEL NORTE						
9	ELDORADO	7,300	200	1,300		4,700	
10	FRESNO	61,800	5,500	16,600		1,800	
11	GLENN	38,500	5,000	400		1,300	
12	HUMBOLDT	4,900	200	3,700		7,200	
13	IMPERIAL	25 21,900	3,300	18,600			
14	INYO	17 30,100	2,100	7,300			
15	KERN	140,000	12,200	65,300		900	
16	KINGS	28 18,200	1,200	5,200			
17	LAKE	20 15,500	1,200	700		2,600	
18	LASSEN	23 22,800	2,200	3,400		800	
19	LOS ANGELES	62,200	7,200	25,900		100	
20	MADERA	103,800	6,000	6,600		600	
21	MARIN	800					
22	MARIPOSA			2,800		100	
23	MENDOCINO	2,000	600			2,400	
24	MERCED	74,400	5,200	9,100		400	
25	MODOC	27 21,500	1,200	2,800		100	
26	MONO	7,500	1,200	2,400			
27	MONTEREY	13 34,000	2,200	21,000		3,200	
28	NAPA	7,500	1,200	200	100	200	
29	NEVADA	2,000	200	100	200	1,300	
30	ORANGE	7,400	1,200	46,600	1,700		
31	PLACER	17 32,200	1,200	1,300	500	1,500	
32	PLUMAS	23 23,300	1,200	100	200	2,100	
33	RIVERSIDE	17 47,100	2,200	73,200	12,200		
34	SACRAMENTO	28 21,000	2,200	2,100	200		
35	San BENITO	11,500	1,200	5,200	1,200		
36	San BERNARDINO	16 60,100	7,200	34,600	7,200	700	
37	San DIEGO	46,600	3,200	63,300	2,200		
38	San FRANCISCO						
39	San JOAQUIN	88,900	4,200	7,300	1,200	600	
40	San LUIS OBISPO	6 33,000	1,200	12,500	1,200		
41	San MATEO	700	200	4,800 X	1,200	100	
42	Santa BARBARA	2,600	200	1,700	200		
43	Santa CLARA	9,800	1,200	4,600	1,200	2,000	
44	Santa CRUZ	3,100	1,200	10,100	1,200	100	
45	SHASTA	9,500	200	400	400	7,700	
46	SIERRA	8,400	200	400	200	700	
47	SISKIYOU	26 21,700	1,200	2,200	200	2,200	
48	SOLANO	33,200	2,200	500	200		
49	SONOMA	9 28,900	1,200	800	200	2,200	
50	STANISLAUS	11 51,100	1,200	2,700	200		
51	SUTTER	65,700	2,200	800	200		
52	TEHAMA	6,400	1,200			1,800	
53	TRINITY	5,200	1,200			8,900	
54	TULARE	61,900	3,200	12,000	2,200	3,200	
55	TUOLUMNE	5,800	200	1,800	200	4,600	
56	VENTURA	21 24,900	2,200	30,700	4,200	500	
57	YOLO	60,300	2,200	2,600	1,200	200	
58	YUBA	31 14,700	1,200	200	200	1,800	
	NOT GIVEN	6,400	200	4,200	200	2,100	
	TOTAL	1,553,400		537,100		79,300	