California Department of Fish and Game
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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.

Year	Questionnaires Mailed	Questionnaires Returned	Percent Response
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 ÷ 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.

	1959	1962
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

Species	Yearly Avg. 1956-60	1961	1962	% Change From 1961
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)

PHEASANTS	% OF STATE TOTAL	POSITION 1961
1. BUTTE	10.3	2
2. FRESNO	9.0	4
3. COLUSA	7.3	1
4. SUTTER	6.4	5
5. SOLANO	5.7	12
6. YOLO	5.4	3
7. MERCED	5.1	9
8. SAN JOAQUIN	4.8	6
9. SACRAMENTO	4.3	7
10. STANISLAUS	4.1	8
ALL OTHERS	37.6	-
TOTAL	100.0	

JACKRABBITS	% OF STATE TOTAL	POSITION 1961
1. KERN	9.0	2
2. MADERA	6.7	14
3. SAN JOAQUIN	5.7	8
4. MERCED	4.8	1
5. SUTTER	4.2	12
6. LOS ANGELES	4.0	7
7. TULARE	4.0	5
8. FRESNO	4.0	3
9. YOLO	3.9	16
10. SAN BERNARDINO	3.9	4
ALL OTHERS	49.8	-
TOTAL	100.0	

QUAIL		
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	47.5	-
TOTAL	100.0	

RABBITS (COTTONTAIL AND BRUSH)		
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	26.3	-
TOTAL	100.0	

DOVES		
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	43.3	-
TOTAL	100.0	

DUCKS		
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	37.7	-
TOTAL	100.0	

BAND-TAILED PIGEONS		
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	28.8	-
TOTAL	100.0	

GEESE		
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	15.9	-
TOTAL	100.0	

TABLE III

MAJOR GAME SPECIES BAG - 1962
BY ADMINISTRATIVE REGION

Species	Percentage of State Bag				
	Region I	Region II	Region III	Region IV	Region V
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

	Reported by Questionnaire Respondents	Estimated* Sales	Difference	Percent Difference From Estimated Sales
	Number	Number	Number	Percent
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)

Deer Tags	Pheasant Tags	Federal Duck Stamps	Bear Tags	Number of Respondents	Percent
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		681	12.6
		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.)

	1959		1962	
Hunters Using One Area Only	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
Subtotal	167,700	83.9	149,800	84.0
Hunters Using More Than One Area	32,200	16.1	28,600	16.0
Total Hunters With Area Indicated	199,900	100.0	178,400	100.0
Hunting Area Not Indicated	12,100		23,000	
GRAND TOTAL ALL PHEASANT HUNTERS	212,000		201,400	

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
*TOTAL	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 who reported.

TABLE VIII

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	ELDORADO				
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	600		
24	MERCED	250,000	16,700	32,000	4,700
25	MODOC	27,800	4,300	21,400	700
26	MONO	10,800	2,000	2,600	
27	MONTEREY	6,600	700		2,800
28	NAPA	5,400	1,400	200	200
29	NEVADA				
30	ORANGE	3,200			
31	PLACER	3,100	700	900	
32	PLUMAS	2,400	700	900	
33	RIVERSIDE	33,800	3,200	1,300	
34	SACRAMENTO	37,300	3,800	5,900	3,700
35	San BENITO	2,400	100		
36	San BERNARDINO	6,700	1,300		
37	San DIEGO	17,700	2,600	500	1,200
38	San FRANCISCO				
39	San JOAQUIN	52,400	5,300	8,000	6,100
40	San LUIS OBISPO	800			
41	San MATEO	13,300	1,100		
42	Santa BARBARA	4,400	400		
43	Santa CLARA	16,400	1,300		
44	Santa CRUZ				400
45	SHASTA	9,400	2,100	1,400	
46	SIERRA	900		100	
47	SISKIYOU	73,400	2,700	59,200	200
48	SOLANO	159,700	12,400	10,500	2,200
49	SONOMA	20,200		200	2,200
50	STANISLAUS	15,900	1,200	700	
51	SUTTER	69,000	8,000	12,100	1,200
52	TEHAMA	3,300	600	800	
53	TRINITY	700	100		
54	TULARE	19,500	1,500	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

COUNTY OF KILL BY SPECIES

		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	
	Total	724,600		2,147,800		4,864,300	

		COOTS	DEER	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	
TOTAL		270,400	112,300	2,500

		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		1,400
14 INYO	4,500		
15 KERN	21,200		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
TOTAL	52,200	2,100	337,800

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