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REPORT OF THE 1978 GAME TAKE HUNTER SURVEY

Hunter game take questionnaires were mailed to 18,515 hunting licensees in January 1979. Two follow-up mailings were made to nonrespondents; the first approximately four weeks and the second approximately seven weeks after the initial mailing. One thousand forty-eight questionnaires were returned undelivered making a total possible response of 17,467. This was a randomly selected sample of 3.3 percent of the estimated 532,000 hunting license purchasers in 1978.

Thirteen thousand seven hundred eighty-three usable questionnaires were returned; a response of 79 percent. The survey indicated that there was hunting effort by about 539,000 hunting licensees who spent about 6,941,800 days in the field.

For the past several years, follow-up mailings to nonrespondents have significantly increased response percentage. The increase in response reduces nonresponse bias in the survey, a phenomenon based on the fact that individuals who were most successful (e.g. hunters) are more inclined to return a questionnaire than individuals who were not successful or did not participate. Nonresponse bias has been shown to be one of the principal causes of inflated bag and hunter use figures in surveys of this type. Statistical analysis of survey data now being gathered indicates a high degree of validity for species with large hunter use.

<u>HUNTING LICENSE SALES*</u>	<u>1977</u>	<u>1978</u>	<u>Change from 1977</u>
Hunting Licenses	572,000	532,000	- 7%
Deer Tags	324,000	287,900	-11%
Bear Tags	26,150	16,745	-36%
Federal Duck Stamps	124,750	124,200	NONE
State Duck Stamps	151,300	127,234	-16%

\*Estimates

HUNTING REGULATION CHANGES

Quail

The daily bag and possession limits for quail in San Benito and portions of Merced, Fresno, Kings, Kern, Santa Barbara, Santa Clara, San Luis Obispo and Monterey counties were increased from six to ten. The special mountain quail season was shortened one week, beginning one week later than in 1977.

Chukar Partridge

The daily bag and possession limits for chukar partridges in San Benito and portions of Merced, Fresno, Kings, Kern, Santa Barbara, Santa Clara, San Luis Obispo and Monterey counties were increased from four to six.

### Turkeys

The area open to turkey hunting in both the spring and fall seasons was expanded to include all counties in the state except San Diego.

### Bear

The late bear season started and ended one week later than in 1977.

### Deer

Extensive changes were made in the 1978 deer hunting regulations. Twenty-six new deer hunting zones were applied to the state and numerous season date and length changes were made (see the 1978 Mammal Hunting Regulations for zone boundary descriptions and zone season dates). Deer hunters were restricted to one or two zones, depending on whether a one or two deer application was purchased, and X-zone tag buyers could purchase only a two deer application. Deer tags were mailed from Department of Fish and Game headquarters as applications were received. The two deer option cost an additional \$5.00. Three preseason and two postseason Exceptional Opportunity Hunts were held by drawing. Glenn County and western Tehama County were made two deer areas.

### Ducks

The duck season in the Colorado River zone was a straight season instead of a split season as in 1977-78.

### Geese

The snow goose limit was reduced from three to one per day during the period October 14, 1978 to November 9, 1978 in the northeastern zone; and the period December 26, 1978 to January 21, 1979 in the balance of the state north of Interstate Highway 80. The goose season in the Colorado River zone was a straight season instead of a split season as in 1977-78. The opening of Canada goose season in District 22 of the southern zone was delayed three weeks from the rest of the zone.

### Coots, Gallinules and Jacksnipe

The coot, gallinule and jacksnipe seasons in the Colorado River zone were straight seasons instead of a split season as in 1977-78.

### Waterfowl (General)

On Delevan National Wildlife Refuge only steel shot in 12 gauge shotguns was allowed.

The following tables are appended to this report:

- Table 1 - Mailing and Return of Questionnaires by County of Residence - 1978 Hunter Survey
- Table 2 - Summary of Statewide Game Bag - 1978

- Table 3 - Game Bag, Ten Leading Counties - 1978 (Pheasants, Quail, Doves, Band-tailed Pigeons, Jackrabbits, Cottontail/Brush Rabbits, Ducks and Geese)
- Table 4 - Regional Game Bag, Major Species - 1978
- Table 5 - Distribution of Hunter Effort By Game Species - 1978
- Table 6 - Hunter Success Summary - 1954-78
- Table 7 - Where Metropolitan Area Hunters Bag Their Game - 1978 (expressed in percent of bag in the counties hunted)

Summary of Species: A. Pheasants  
 B. Quail  
 C. Doves  
 D. Ducks  
 E. Deer

It is important to recognize that there are statistical biases inherent in the hunter survey and the principal value of total bag figures in this report is the indication of game bag trends. The respondents to this survey represent approximately 2.6 percent of the total hunting license buying public; consequently, those species of game which attract the smallest number of hunters tend to be more seriously affected by sampling bias. The primary use of this survey is to compare this season with next season and to determine long-range trends.

The estimated total hunting license sales divided by the number of questionnaires returned provides the projection factor for calculating total figures. The projection factor used for the 1978 hunter survey calculations was  $532,000 \div 13,783 = 39$ .

#### BAG AND HUNTER EFFORT BY SPECIES

##### UPLAND GAME

<u>PHEASANTS</u>	<u>1977</u>	<u>1978</u>	<u>Change from 1977</u>
Statewide Bag	490,600	493,700	+0.6%
Hunters Reported	172,000	173,200	+0.7%
Average Seasonal Bag	2.9	2.8	-0.1
Total Days Hunted	660,100	596,600	-9.6%
Average Days Hunted	3.8	3.4	-0.4
<u>QUAIL</u>	<u>1977</u>	<u>1978</u>	<u>Change from 1977</u>
Statewide Bag	1,607,900	1,781,100	+11%
Hunters Reported	151,200	162,300	+ 7%
Average Seasonal Bag	10.6	11.0	+0.4
Total Days Hunted	801,500	718,300	-10%
Average Days Hunted	5.3	4.4	-0.9

<u>DOVES</u>	<u>1977</u>	<u>1978</u>	<u>Change from 1977</u>
Statewide Bag	3,543,500	3,326,600	- 6%
Hunters Reported	203,600	198,900	- 2%
Average Seasonal Bag	17.4	16.7	-0.7
Total Days Hunted	909,300	775,200	-15%
Average Days Hunted	4.5	3.9	-0.6
<u>BAND-TAILED PIGEONS</u>	<u>1977</u>	<u>1978</u>	<u>Change from 1977</u>
Statewide Bag	160,900	136,500	-15%
Hunters Reported	24,500	22,900	- 6%
Average Seasonal Bag	6.6	6.0	-0.6
Total Days Hunted	66,700	68,900	+ 3%
Average Days Hunted	2.7	3.0	+0.3
<u>CHUKAR PARTRIDGE</u>	<u>1977</u>	<u>1978</u>	<u>Change from 1977</u>
Statewide Bag	51,300	96,800	+89%
Hunters Reported	17,500	21,000	+20%
Average Seasonal Bag	2.9	4.6	+1.7
Total Days Hunted	67,200	75,000	+12%
Average Days Hunted	3.8	3.6	-0.2
<u>SAGE GROUSE</u>	<u>1977</u>	<u>1978</u>	<u>Change from 1977</u>
Statewide Bag	4,000	4,000	NONE
Hunters Reported	3,900	4,500	+15%
Average Seasonal Bag	1.0	0.9	-0.1
Total Days Hunted	5,900	6,400	+ 8%
Average Days Hunted	1.5	1.4	-0.1
<u>SIERRA/RUFFED GROUSE</u>	<u>1977</u>	<u>1978</u>	<u>Change from 1977</u>
Statewide Bag	9,100	9,200	+ 1%
Hunters Reported	5,900	6,900	+17%
Average Seasonal Bag	1.5	1.3	-0.2
Total Days Hunted	21,000	18,500	-12%
Average Days Hunted	3.6	2.7	-0.9
<u>JACKRABBITS</u>	<u>1977</u>	<u>1978</u>	<u>Change from 1977</u>
Statewide Bag	710,500	757,100	+ 7%
Hunters Reported	83,400	84,800	+ 2%
Average Seasonal Bag	8.5	8.9	+0.4
Total Days Hunted	620,400	505,600	+19%
Average Days Hunted	7.4	6.0	-1.4
<u>COTTONTAIL/BRUSH RABBITS</u>	<u>1977</u>	<u>1978</u>	<u>Change from 1977</u>
Statewide Bag	498,400	463,400	- 7%
Hunters Reported	73,700	71,000	- 4%
Average Seasonal Bag	6.8	6.5	-0.3
Total Days Hunted	431,500	347,300	-19%
Average Days Hunted	5.9	4.9	-1.0

<u>TREE SQUIRRELS</u>	<u>1977</u>	<u>1978</u>	<u>Change from 1977</u>
Statewide Bag	346,500	241,600	-30%
Hunters Reported	63,900	57,100	-+11%
Average Seasonal Bag	5.4	4.2	-1.2
Total Days Hunted	322,400	257,700	-20%
Average Days Hunted	5.0	4.5	-0.5
<u>WILD TURKEY</u>	<u>1977</u>	<u>1978</u>	<u>Change from 1977</u>
Statewide Bag	2,300	2,800	+22%
Hunters Reported	9,800	7,600	-22%
Average Seasonal Bag	0.2	0.4	+0.2
Total Days Hunted	28,200	24,900	-12%
Average Days Hunted	2.9	3.3	+0.4
<u>WATERFOWL</u>			
<u>DUCKS</u>	<u>1977</u>	<u>1978</u>	<u>Change from 1977</u>
Statewide Bag	2,074,400	2,673,000	+29%
Hunters Reported	146,300	166,500	+14%
Average Seasonal Bag	14.2	16.1	+1.9
Total Days Hunted	1,172,300	1,028,300	-12%
Average Days Hunted	8.0	6.2	-1.8
<u>CEESE</u>	<u>1977</u>	<u>1978</u>	<u>Change from 1977</u>
Statewide Bag	216,500	188,600	-13%
Hunters Reported	60,900	65,200	+ 7%
Average Seasonal Bag	3.6	2.9	-0.7
<u>BIG GAME</u>			
<u>DEER (Hunter Survey)</u>	<u>1977</u>	<u>1978</u>	<u>Change from 1977</u>
Statewide Bag	90,700	69,300	-24%
Hunters Reported	337,400	342,900	+ 2%
Total Days Hunted	2,531,900	1,980,800	-22%
Average Days Hunted	7.5	5.8	-1.7
<u>DEER (Tag Returns)</u>	<u>1977</u>	<u>1978</u>	<u>Change from 1977</u>
Statewide Bag	36,700	30,900	-16%
Deer Tag Sales	349,000	377,300	+ 8%

The statewide deer take is estimated both by tag returns and by the Hunter Survey Questionnaire. Actual kill should fall between the two estimates. Both surveys indicate a substantial drop in the 1978 bag and a slight increase in hunting pressure.

<u>BEAR (Hunter Survey)</u>	<u>1977</u>	<u>1978</u>	<u>Change from 1977</u>
Statewide Bag	1,200	1,700	+42%
Hunters Reported	26,900	21,100	-22%
Total Days Hunted	144,500	99,100	-31%
Average Days Hunted	5.4	4.7	-0.7

  

<u>BEAR (Tag Returns)</u>	<u>1977</u>	<u>1978</u>	<u>Change from 1977</u>
Statewide Bag	451	655	+45%
Bear Tag Sales	26,200	16,700	-36%

  

<u>WILD PIGS</u>	<u>1977</u>	<u>1978</u>	<u>Change from 1977</u>
Statewide Bag	32,000	27,300	-15%
Hunters Reported	32,100	29,400	-8%
Total Days Hunted	188,000	147,700	-21%
Average Days Hunted	5.9	5.0	-0.9

TABLE 1  
MAILING AND RETURN OF QUESTIONNAIRES BY COUNTY OF RESIDENCE - 1978 HUNTER SURVEY

COUNTY	QUESTIONNAIRES MAILED AND DELIVERABLE	PERCENT OF TOTAL MAILED	NUMBER RETURNED	PERCENT RETURNED
ALAMEDA	627	3.6	513	81.8
ALPINE	4	TRACE	3	75.0
AMADOR	51	0.3	41	80.4
BUTTE	460	2.6	389	84.6
CALAVERAS	59	0.3	51	86.4
COLUSA	74	0.4	58	78.4
CONTRA COSTA	616	3.5	408	66.2
DEL NORTE	70	0.4	63	90.0
EL DORADO	125	0.7	93	74.4
FRESNO	649	3.7	519	80.0
GLENN	126	0.7	100	79.4
HUMBOLDT	361	2.1	274	75.9
IMPERIAL	112	0.7	82	73.2
INYO	85	0.5	64	75.3
KERN	629	3.6	472	75.0
KINGS	154	0.9	114	74.0
LAKE	79	0.5	58	73.4
LASSEN	122	0.7	103	84.4
LOS ANGELES	2,063	11.8	1,557	75.5
MADERA	98	0.6	70	71.4
MARIN	182	1.0	158	86.8
MARIPOSA	25	0.2	22	88.0
MENDOCINO	207	1.2	149	72.0
MERCED	257	1.5	209	81.3
MODOC	55	0.3	52	94.5
MONO	33	0.2	30	90.9
MONTEREY	233	1.3	196	84.1
NAPA	128	0.7	112	87.5
NEVADA	111	0.6	97	87.4
ORANGE	701	4.0	549	78.3
PLACER	246	1.4	199	80.9
PLUMAS	84	0.5	66	78.6
RIVERSIDE	385	2.2	313	81.3
SACRAMENTO	1,035	5.9	869	84.0
SAN BENITO	45	0.3	36	80.0
SAN BERNARDINO	482	2.8	378	78.4
SAN DIEGO	655	3.8	499	76.2
SAN FRANCISCO	163	0.9	128	78.5
SAN JOAQUIN	541	3.1	421	77.8
SAN LUIS OBISPO	197	1.1	157	79.7
SAN MATEO	428	2.5	358	83.6
SANTA BARBARA	194	1.1	145	74.7
SANTA CLARA	803	4.6	626	78.0
SANTA CRUZ	121	0.7	100	82.6
SHASTA	506	2.9	405	80.0
SIERRA	14	0.1	13	92.9
SISKIYOU	292	1.7	241	82.5
SOLANO	283	1.6	234	82.7
SONOMA	382	2.2	323	84.6
STANISLAUS	493	2.8	395	80.1
SUTTER	183	1.0	155	84.7
TEHAMA	208	1.2	159	76.4
TRINITY	79	0.5	73	92.4
TULARE	372	2.1	267	71.8
TUOLUMNE	75	0.4	60	80.0
VENTURA	252	1.4	193	76.6
YOLO	246	1.4	197	80.1
YUBA	136	0.8	108	79.4
NONRESIDENT	71	0.4	59	83.1
TOTAL	17,467	100.0	13,763	78.9

TABLE 2

## SUMMARY OF STATEWIDE BAG - 1978

<u>Species</u>	<u>Yearly Average 1972-1976</u>	<u>1977</u>	<u>1978</u>	<u>% Change From 1977</u>
Pheasant	610,120	490,600	493,700	+ 1
Quail	1,800,240	1,607,900	1,781,100	+11
Dove	4,041,900	3,543,500	3,326,600	- 6
Chukar Partridge	59,080	51,300	96,800	+89
Sage Grouse	4,380	4,000	4,000	NONE
Sierra/Ruffed Grouse	9,200	9,100	9,200	+ 1
Band-tailed Pigeons	248,180	160,900	136,500	-15
Wild Turkeys	2,360	2,300	2,800	+22
Jackrabbits	937,580	710,500	757,100	+ 7
Cottontail/Brush Rabbits	640,440	498,400	463,400	- 7
Tree Squirrels	216,460	346,500	241,600	-30
Ducks	3,192,080	2,074,400	2,673,000	+29
Geese	312,140	216,500	188,600	-13
Jacksnipe	89,580	72,100	72,700	+ 1
Coots	488,900	280,300	274,600	- 2
Buck Deer (Hunter Survey)	76,220	90,700	69,300	-24
Buck Deer (Tag Returns)	29,422	36,687	30,900	-16
Bear (Hunter Survey)	1,952	1,200	1,700	+42
Bear (Tag Returns)	613	451	655	+45
Wild Pigs	23,460	32,000	27,300	-15

TABLE 3  
MAJOR SPECIES GAME BAG - 1978  
(TEN LEADING COUNTIES)

<u>PHEASANTS</u>	<u>% OF STATE TOTAL</u>	<u>POSITION 1977</u>	<u>JACKRABBITS</u>	<u>% OF STATE TOTAL</u>	<u>POSITION 1977</u>
1. YOLO	7.8	5	1. KERN	12.0	1
2. SUTTER	7.6	2	2. SAN BERNARDINO	11.7	2
3. BUTTE	7.6	1	3. LASSEN	6.1	9
4. SAN JOAQUIN	7.2	4	4. FRESNO	4.3	4
5. SACRAMENTO	5.8	6	5. MODOC	4.1	19
6. SOLANO	5.8	8	6. SAN DIEGO	4.1	8
7. STANISLAUS	5.8	12	7. SAN JOAQUIN	4.0	7
8. MERCED	5.4	9	8. SISKIYOU	3.4	12
9. COLUSA	5.3	3	9. RIVERSIDE	3.1	3
10. FRESNO	5.3	10	10. LOS ANGELES	3.1	10
ALL OTHERS	<u>36.4</u>		ALL OTHERS	<u>44.1</u>	
TOTAL	100.0		TOTAL	100.0	
<u>DOUAL</u>			<u>RABBITS (COTTONTAIL/BRUSH)</u>		
1. KERN	7.3	2	1. SAN BERNARDINO	16.4	1
2. RIVERSIDE	7.0	1	2. RIVERSIDE	11.7	2
3. SAN DIEGO	6.3	3	3. KERN	9.6	3
4. MONTEREY	5.3	9	4. SAN DIEGO	7.0	4
5. SAN BERNARDINO	4.7	4	5. MONTEREY	5.5	5
6. FRESNO	4.6	5	6. FRESNO	4.3	6
7. SHASTA	4.1	6	7. IMPERIAL	4.3	9
8. VENTURA	3.5	17	8. LASSEN	4.2	7
9. SAN LUIS OBISPO	3.1	13	9. LOS ANGELES	3.6	8
10. MENDOCINO	3.1	10	10. VENTURA	2.9	31
ALL OTHERS	<u>51.0</u>		ALL OTHERS	<u>30.5</u>	
TOTAL	100.0		TOTAL	100.0	
<u>DOVES</u>			<u>DUCKS</u>		
1. IMPERIAL	10.9	1	1. MERCED	17.1	1
2. KERN	9.4	2	2. COLUSA	9.3	2
3. FRESNO	8.7	3	3. SOLANO	7.9	4
4. RIVERSIDE	7.6	5	4. BUTTE	5.6	3
5. TULARE	6.4	4	5. IMPERIAL	4.6	5
6. STANISLAUS	3.4	10	6. SISKIYOU	3.9	6
7. MERCED	3.3	6	7. SUTTER	3.8	7
8. SAN DIEGO	2.9	11	8. FRESNO	3.7	9
9. MONTEREY	2.9	20	9. GLENN	3.7	8
10. SAN BERNARDINO	2.7	12	10. KERN	3.5	14
ALL OTHERS	<u>41.8</u>		ALL OTHERS	<u>36.9</u>	
TOTAL	100.0		TOTAL	100.0	
<u>BAND-TAILED PIGEONS</u>			<u>GEESE</u>		
1. TRINITY	11.5	8	1. SISKIYOU	17.2	2
2. SHASTA	8.9	6	2. COLUSA	12.7	1
3. SAN DIEGO	6.8	7	3. GLENN	8.3	4
4. MONTEREY	6.5	1	4. MODOC	7.5	6
5. BUTTE	6.5	9	5. BUTTE	7.2	3
6. HUMBOLDT	4.8	13	6. MERCED	6.5	5
7. AMADOR	4.5	36	7. LASSEN	3.5	8
8. KERN	4.5	2	8. SAN JOAQUIN	3.4	11
9. SISKIYOU	4.4	11	9. SUTTER	3.3	9
10. DEL NORTE	3.5	28	10. RIVERSIDE	3.1	24
ALL OTHERS	<u>38.1</u>		ALL OTHERS	<u>27.3</u>	
TOTAL	100.0		TOTAL	100.0	

TABLE 4

DISTRIBUTION OF MAJOR GAME SPECIES BY ADMINISTRATIVE REGION\*  
 1977-78  
 (Percentage of State Bag)

	<u>Pheasants</u>		<u>Quail</u>		<u>Dove</u>		<u>Jackrabbits</u>		<u>Cottontail</u>		<u>Ducks</u>	
	<u>1977</u>	<u>1978</u>	<u>1977</u>	<u>1978</u>	<u>1977</u>	<u>1978</u>	<u>1977</u>	<u>1978</u>	<u>1977</u>	<u>1978</u>	<u>1977</u>	<u>1978</u>
Region 1	7	7	15	16	8	6	12	18	7	8	14	11
Region 2	54	55	14	13	18	16	18	19	4	5	43	42
Region 3	4	5	16	18	9	11	10	10	13	11	10	8
Region 4	24	25	22	22	37	36	30	25	26	23	22	28
Region 5	<u>11</u>	<u>8</u>	<u>33</u>	<u>31</u>	<u>28</u>	<u>31</u>	<u>30</u>	<u>28</u>	<u>50</u>	<u>53</u>	<u>11</u>	<u>11</u>
TOTALS	100	100	100	100	100	100	100	100	100	100	100	100

\*See annual deer report for deer statistics.

TABLE 5  
DISTRIBUTION OF HUNTER EFFORT BY GAME SPECIES - 1978

Species	Number of Individual Hunters			Percent of Total Individual Hunters		
	Successful	Unsuccessful	Total	Successful	Unsuccessful	Total
Deer	60,600	234,500	295,100	13	51	64
Doves	170,200	14,100	184,200	37	3	40
Pheasants	110,900	44,600	155,500	24	10	34
Ducks	114,900	16,300	131,200	25	4	28
Quail	120,000	21,400	141,400	26	5	31
Jackrabbits	69,700	6,600	76,300	15	1	17
Cottontail/ Brush Rabbits	56,100	8,200	64,300	12	2	14
Geese	39,900	17,000	56,900	9	4	12
Tree Squirrels	43,500	8,900	52,400	10	2	11
Band-tailed Pigeons	16,100	5,900	22,000	3	1	5
Coots	19,000	800	19,800	4	<0.5	4
Wild Pigs	11,700	16,100	27,800	3	3	6
Bear	1,700	17,900	19,600	<0.5	4	4
Chukar						
Partridges	12,900	7,000	19,900	3	2	4
Jacksnipe	8,800	1,300	10,100	2	<0.5	2
Wild Turkeys	1,600	5,500	7,100	<0.5	1	2
Sierra/Ruffed Grouse	4,300	2,300	6,600	<0.5	<0.5	1
Sage Grouse	2,700	1,700	4,400	<0.5	<0.5	<0.5

Total Individual Hunters - 462,200

Due to multiple game species hunter effort, percent totals exceed 100% and hunter numbers exceed the total number of individual hunters reported.

TABLE 6

## HUNTER SUCCESS

As Reported by Hunter Survey Respondents  
(In Percent)

	<u>Did Not Hunt</u>	<u>Hunted Unsuccessfully</u>	<u>Hunted Successfully</u>
1954	8	26	66
1955	10	23	67
1956	11	22	67
1957	12	22	66
1958	8	23	69
1959	7	27	66
1960	7	28	65
1961	8	28	64
1962	8	28	64
1963	9	25	66
1964	7	23	70
1965	10	24	67
1966	11	23	66
1967	10	22	68
1968	10	22	68
1969	10	21	69
1970	11	22	67
1971	13	23	64
1972	12	23	65
1973	10	25	65
1974	10	22	68
1975	12	23	65
1976	11	25	64
1977	11	25	64
1978	14	24	62





TABLE 7-C

WHERE METROPOLITAN AREA DOVE HUNTERS BAGGED THEIR DOVES - 1978  
 EXPRESSED IN PERCENT OF BAG BY METROPOLITAN AREA HUNTERS IN THE COUNTIES THEY HUNTED  
 (STATEWIDE BAG 3,326,600)

PERCENTAGE OF STATE BAG	(6%) BAY AREA	(2%) CHICO AREA	(8%) FRESNO AREA	(1) EUREKA AREA	(8%) BKSFLD. AREA	(14%) L.A. AREA	(3%) SACRT. AREA	(7%) S.DIEGO AREA	(3%) STOCKTON AREA	(2%) SAN JOSE AREA	(1%) REDDING AREA
	ALAMEDA S.F. CON.COSTA COUNTIES	BUTTE COUNTY	FRESNO COUNTY	HUN- BOLDT COUNTY	KERN COUNTY	L.A. ORGE. COUN.	SACRA- MENTO COUNTY	SAN DIEGO COUNTY	SAN JOAQUIN COUNTY	SANTA CLARA COUNTY	SHASTA COUNTY
ALAMEDA	9	-	-	-	-	-	-	-	-	-	-
AMADOR	-	-	-	-	-	-	-	-	-	1	-
BUTTE	2	76	-	-	-	-	2	-	-	-	-
CALAVERAS	-	-	-	-	-	-	3	-	-	1	-
COLUSA	4	2	-	-	-	-	-	-	-	-	-
CONTRA COSTA	18	-	-	-	-	-	3	-	-	-	-
EL DORADO	-	-	-	-	-	-	1	-	-	2	-
FRESNO	9	1	85	-	1	2	-	-	-	11	-
GLENN	3	8	-	-	-	-	2	-	-	3	3
HUMBOLDT	-	-	-	56	-	-	-	-	-	-	-
IMPERIAL	-	-	-	-	-	29	-	-	54	-	-
INYO	-	-	-	-	-	1	-	-	-	-	-
KERN	2	-	1	-	87	12	-	-	-	-	-
KINGS	1	-	3	-	3	1	-	-	-	-	-
LAKE	2	-	3	-	-	-	-	-	-	3	-
LASSEN	-	1	-	-	-	-	-	-	-	1	2
LOS ANGELES	-	1	-	-	-	-	11	-	-	3	12
MADERA	2	-	7	-	-	-	-	-	-	5	-
MARIN	-	-	-	-	-	-	-	-	-	-	-
MENDOCINO	2	-	-	-	-	-	-	-	-	-	-
MERCED	10	-	-	-	-	-	-	-	-	14	-
MODOC	-	-	-	-	-	-	-	-	-	2	-
MONTEREY	4	-	-	-	-	-	-	-	-	8	-
NAPA	2	-	-	-	-	-	-	-	-	-	-
ORANGE	-	-	-	-	-	-	-	-	-	-	-
PLACER	-	-	-	-	-	-	-	-	-	-	-
RIVERSIDE	-	-	-	-	-	-	-	-	-	-	-
SACRAMENTO	2	-	-	-	-	-	-	41	-	-	-
SAN BENITO	1	-	-	-	-	-	-	-	-	3	-
SAN BERNARDINO	-	-	-	-	-	-	-	-	-	5	-
SAN DIEGO	-	-	-	-	-	-	7	-	-	-	-
SAN JOAQUIN	2	-	2	-	-	-	2	-	-	77	-
SAN LUIS OBISPO	2	-	-	-	-	-	5	-	-	2	4
SAN MATEO	2	-	-	-	-	-	1	-	-	4	4
SANTA CLARA	1	-	-	-	-	-	-	-	-	26	-
SANTA CRUZ	-	-	-	-	-	-	-	-	-	1	-
SHASTA	-	-	-	-	-	-	-	-	-	59	3
SISKIYOU	-	-	-	-	-	-	-	-	-	-	-
SOLANO	3	-	-	-	-	-	-	-	-	1	-
SONOMA	2	-	-	-	-	-	-	-	-	1	-
STANISLAUS	5	-	-	-	-	-	-	-	-	2	-
SUTTER	-	-	-	-	-	-	-	-	-	5	-
TEHAMA	3	-	-	-	-	-	-	-	-	2	-
TRINITY	-	5	-	-	6	-	-	-	-	2	19
TULARE	2	-	-	3	38	4	-	-	-	-	-
YOLO	1	-	-	-	-	-	5	-	-	2	-
YUBA	-	-	-	-	-	-	9	-	-	-	-
ALL OTHERS	4	-	5	1	-	3	25	2	6	1	-
TOTAL	100	100	100	100	100	100	100	100	100	100	100

TABLE 7-D

WHERE METROPOLITAN AREA DUCK HUNTERS BAGGED THEIR DUCKS - 1978  
EXPRESSED IN PERCENT OF BAG BY METROPOLITAN AREA HUNTERS IN THE COUNTIES THEY HUNTED

(STATEWIDE BAG 2,673,000)

PERCENTAGE OF STATE BAG	(19%) BAY AREA	(3%) CHICO AREA	(3%) FRESNO AREA	(2%) EUREKA AREA	(2%) BKSFLD. AREA	(8%) L.A. AREA	(7%) SACTO. AREA	(3%) S.DIEGO AREA	(3%) STOCKTON AREA	(9%) SAN JOSE AREA	(2%) REDDING AREA
	ALAMEDA S.F. CON COSTA COUNTIES	BUTTE COUNTY	FRESNO COUNTY	HUM-BOLDT COUNTY	KERN COUNTY	L.A. ORGE. COUN.	SACRA-MENTO COUNTY	SAN DIEGO COUNTY	SAN JOAQUIN COUNTY	SANTA CLARA COUNTY	SHASTA COUNTY
ALAMEDA	6	-	-	-	-	-	-	-	-	-	-
BUTTE	5	70	1	9	-	1	8	-	-	1	5
CALAVERAS	-	-	-	-	-	-	-	-	2	-	-
COLUSA	18	13	51	1	-	2	15	-	1	5	2
CONTRA COSTA	8	-	-	-	-	-	-	-	4	1	-
DEL NORTE	-	-	-	6	-	-	-	-	-	-	-
EL DORADO	-	-	-	-	-	-	-	-	-	-	-
FRESNO	2	-	3	-	2	7	1	2	-	4	-
GLENN	6	7	-	2	1	-	5	-	-	2	6
HUMBOLDT	-	-	-	62	-	-	-	1	3	-	-
IMPERIAL	-	-	-	-	-	23	-	65	-	-	-
INYO	-	-	-	-	3	1	-	-	-	-	-
KERN	-	-	-	-	78	25	-	-	-	-	-
KINGS	-	-	8	-	-	-	-	-	-	-	-
LASSEN	-	2	-	-	-	-	-	1	-	-	6
LOS ANGELES	-	-	-	32	-	-	4	-	-	-	-
MADERA	-	-	-	-	-	1	5	-	7	-	-
MERCED	16	1	-	-	-	5	3	2	14	56	-
MODOC	-	2	-	7	-	-	1	1	-	1	17
MONO	-	-	-	-	-	-	-	-	-	-	-
PLUMAS	-	-	-	-	-	-	-	-	-	-	-
RIVERSIDE	-	-	-	-	-	15	-	-	-	1	-
SACRAMENTO	3	-	-	-	2	1	9	-	5	4	-
SAN BENITO	-	-	-	-	-	-	-	-	-	3	-
SAN BERNARDINO	-	-	-	-	-	6	-	-	-	-	-
SAN DIEGO	-	-	-	-	-	1	-	25	-	-	-
SAN JOAQUIN	3	-	-	-	-	-	2	-	46	2	-
SAN MATEO	1	-	-	-	-	-	-	-	-	1	-
SANTA CLARA	1	-	-	-	-	-	-	-	-	8	-
SHASTA	-	-	-	-	-	-	-	-	-	-	43
SISKIYOU	2	-	-	8	-	3	3	1	-	2	12
SOLANO	18	-	5	-	-	-	2	-	12	5	-
STANISLAUS	1	-	-	-	-	-	-	-	-	3	-
SUTTER	4	-	-	1	-	-	22	-	-	-	8
TEHAMA	-	1	-	-	-	-	-	-	-	-	1
TRINITY	-	-	-	-	-	-	-	-	-	-	-
TULARE	-	-	-	-	13	1	-	-	-	-	-
VENTURA	-	-	-	-	1	2	-	-	-	-	-
YOLO	3	-	-	2	-	-	16	-	-	-	-
YUBA	1	4	-	2	-	-	5	-	-	-	-
ALL OTHERS	2	-	-	2	1	2	8	1	1	1	-
TOTAL	100	100	100	100	100	100	100	100	100	100	100





1970 Hunter Survey - Bag and Hunters  
Chukar

## Sage Grouse

## Sierra &amp; Ruffed Grouse

		Bag	Hunters	Bag	Hunters	Bag	Hunters
1	Alameda	-	-	-	-	-	-
2	Alpine	-	-	39	39	312	234
3	Amador	-	-	39	-	-	-
4	Butte	-	-	-	-	-	39
5	Calaveras	-	-	-	-	-	-
6	Colusa	-	-	-	-	-	-
7	Contra Costa	-	-	-	-	-	-
8	Del Norte	-	-	117	39	234	191
9	El Dorado	-	-	-	-	156	156
10	Fresno	3,861	702	-	-	234	351
11	Glenn	39	39	-	-	-	-
12	Humboldt	-	-	-	-	1,053	936
13	Imperial	663	117	-	-	195	39
14	Inyo	16,341	2,886	117	117	195	156
15	Kern	32,643	6,162	-	-	-	39
16	Kings	1,209	78	-	-	-	-
17	Lake	-	-	-	-	-	-
18	Lassen	8,073	2,496	1,443	1,716	663	501
19	Los Angeles	1,443	390	-	-	-	-
20	Madera	-	-	-	-	78	39
21	Marin	-	-	-	-	-	-
22	Mariposa	-	-	-	-	-	-
23	Mendocino	-	-	-	-	156	78
24	Merced	975	273	-	-	-	-
25	Modoc	2,574	468	663	624	585	351
26	Mono	2,847	507	1,131	1,560	351	234
27	Monterey	-	-	-	-	-	-
28	Napa	-	-	-	-	-	-
29	Nevada	-	-	-	-	39	39
30	Orange	78	39	-	-	-	111
31	Placer	-	-	-	-	273	234
32	Plumas	234	39	-	-	897	624
33	Riverside	2,652	312	-	-	78	39
34	Sacramento	-	-	-	-	-	-
35	San Benito	273	273	-	-	-	-
36	San Bernardino	21,099	4,680	-	-	-	-
37	San Diego	78	117	-	-	195	39
38	San Francisco	-	-	-	-	-	-
39	San Joaquin	117	78	-	-	-	-
40	San Luis Obispo	234	117	-	-	-	-
41	San Mateo	-	-	-	-	-	-
42	Santa Barbara	39	78	-	-	-	-
43	Santa Clara	-	-	-	-	-	-
44	Santa Cruz	-	-	-	-	-	-
45	Shasta	312	117	-	-	468	191
46	Sierra	273	78	-	-	429	111
47	Siskiyou	156	78	78	39	1,443	1,014
48	Solano	-	-	-	-	-	-
49	Sonoma	-	-	-	-	-	-
50	Stanislaus	-	-	-	-	-	-
51	Sutter	78	39	-	-	-	-
52	Tehama	-	-	-	-	-	-
53	Trinity	-	-	117	78	663	501
54	Tulare	-	78	-	-	312	271
55	Tuolumne	-	-	-	-	156	191
56	Ventura	234	78	-	-	-	-
57	Yolo	-	-	-	-	-	-
58	Yuba	-	-	-	-	-	39
59	Unknown	273	585	273	234	-	111
	Total	96,798	21,060	3,978	4,485	9,165	6,864



## Squirrel

## Turkey

		Bag	Hunters	Bag	Hunters
1	Alameda	195	78	-	39
2	Alpine	897	390	-	-
3	Amador	3,042	780	-	78
4	Butte	12,402	2,886	156	585
5	Calaveras	7,215	1,599	-	351
6	Colusa	390	117	78	78
7	Contra Costa	1,560	195	39	39
8	Del Norte	-	78	-	-
9	El Dorado	9,477	2,652	117	429
10	Fresno	10,842	2,886	-	39
11	Glenn	3,705	858	-	39
12	Humboldt	5,070	1,404	-	78
13	Imperial	-	-	156	39
14	Inyo	-	-	-	-
15	Kern	14,430	3,510	39	117
16	Kings	-	78	-	-
17	Lake	5,811	1,404	-	-
18	Lassen	4,446	1,014	-	39
19	Los Angeles	741	273	-	-
20	Madera	3,315	1,131	-	-
21	Marin	507	156	-	-
22	Mariposa	11,583	1,677	-	-
23	Mendocino	5,499	1,794	117	117
24	Merced	234	195	-	39
25	Modoc	2,028	663	-	-
26	Mono	-	-	-	-
27	Monterey	1,365	429	78	117
28	Napa	1,287	390	-	-
29	Nevada	6,279	1,248	351	546
30	Orange	-	-	-	-
31	Placer	8,112	1,950	78	390
32	Plumas	8,112	1,638	-	39
33	Riverside	351	117	-	-
34	Sacramento	1,521	195	-	-
35	San Benito	-	-	-	-
36	San Bernardino	78	39	-	39
37	San Diego	429	156	39	39
38	San Francisco	-	-	-	-
39	San Joaquin	312	78	-	-
40	San Luis Obispo	117	156	117	624
41	San Mateo	78	39	-	39
42	Santa Barbara	-	-	-	-
43	Santa Clara	1,092	156	-	-
44	Santa Cruz	1,053	234	-	-
45	Shasta	24,531	4,446	858	1,794
46	Sierra	2,106	741	-	-
47	Siskiyou	11,037	1,989	-	-
48	Solano	312	78	-	-
49	Sonoma	2,106	702	-	-
50	Stanislaus	3,705	663	39	39
51	Sutter	1,170	390	-	-
52	Tehama	10,764	2,496	312	468
53	Trinity	14,625	2,847	-	39
54	Tulare	12,675	3,276	-	195
55	Tuolumne	12,948	2,457	-	234
56	Ventura	390	117	-	39
57	Yolo	1,521	273	-	-
58	Yuba	5,460	1,287	156	429
59	Unknown	4,719	2,730	78	390
	Total	241,644	57,135	2,808	7,566

## Jacksnipe

## Coots

		Bag	Hunters	Bag	Hunters
1	Alameda	-	-	507	195
2	Alpine	-	-	-	-
3	Amador	195	39	468	78
4	Butte	2,769	624	14,547	1,326
5	Calaveras	-	-	39	39
6	Colusa	7,839	702	22,854	1,716
7	Contra Costa	819	117	1,911	390
8	Del Norte	3,354	351	5,967	351
9	El Dorado	-	-	-	-
10	Fresno	78	39	11,076	702
11	Glenn	1,794	312	6,396	429
12	Humboldt	4,173	624	12,090	546
13	Imperial	273	117	5,343	975
14	Inyo	-	39	780	195
15	Kern	3,081	312	22,191	1,092
16	Kings	78	39	2,925	195
17	Lake	-	-	273	117
18	Lassen	429	117	780	195
19	Los Angeles	-	39	2,223	156
20	Madera	-	-	117	39
21	Marin	117	78	78	78
22	Mariposa	-	-	-	-
23	Mendocino	273	78	39	39
24	Merced	10,725	1,209	35,412	2,379
25	Modoc	1,794	195	4,992	234
26	Mono	39	39	234	117
27	Monterey	429	39	1,989	156
28	Napa	975	39	2,184	117
29	Nevada	-	-	-	-
30	Orange	117	39	39	39
31	Placer	429	117	2,925	312
32	Plumas	897	156	1,755	117
33	Riverside	1,755	273	5,616	390
34	Sacramento	1,638	312	5,889	702
35	San Benito	429	78	-	39
36	San Bernardino	1,482	78	1,482	234
37	San Diego	-	39	3,432	273
38	San Francisco	-	-	-	-
39	San Joaquin	1,872	390	3,042	624
40	San Luis Obispo	156	39	4,992	234
41	San Mateo	-	-	390	39
42	Santa Barbara	78	39	78	39
43	Santa Clara	1,131	156	4,446	273
44	Santa Cruz	78	39	1,560	78
45	Shasta	390	195	10,608	624
46	Sierra	-	-	195	39
47	Siskiyou	2,145	312	3,588	351
48	Solano	4,992	585	7,215	897
49	Sonoma	1,482	195	390	156
50	Stanislaus	1,911	195	9,360	741
51	Sutter	1,833	312	10,491	1,131
52	Tehama	351	195	1,365	117
53	Trinity	234	39	3,900	156
54	Tulare	1,599	78	10,335	390
55	Tuolumne	-	-	-	-
56	Ventura	858	156	4,368	351
57	Yolo	3,822	273	6,435	429
58	Yuba	1,092	195	6,513	390
59	Unknown	2,652	975	8,775	429
	Total	72,657	10,608	274,599	21,450

1970 Hunter Survey - Bag and Hunters  
Ducks

Geese

		Bag	Hunters	Bag	Hunters
1	Alameda	30,303	1,482	312	117
2	Alpine	1,170	78	-	-
3	Amador	1,677	312	390	156
4	Butte	150,423	9,594	13,611	4,797
5	Calaveras	2,340	429	585	351
6	Colusa	249,600	15,093	23,907	7,956
7	Contra Costa	49,647	2,808	1,209	507
8	Del Norte	19,812	1,092	117	39
9	El Dorado	1,014	117	78	78
10	Fresno	98,397	6,942	1,482	1,014
11	Glenn	97,890	5,031	15,678	3,471
12	Humboldt	41,769	2,418	2,340	390
13	Imperial	122,187	9,594	5,226	4,056
14	Inyo	8,268	1,014	468	312
15	Kern	92,703	5,928	624	975
16	Kings	12,324	1,209	351	312
17	Lake	7,566	507	-	39
18	Lassen	32,097	3,237	6,513	2,574
19	Los Angeles	9,048	780	78	195
20	Madera	16,770	897	351	234
21	Marin	21,528	1,170	78	78
22	Mariposa	1,560	39	-	-
23	Mendocino	5,265	507	-	-
24	Merced	455,949	18,681	12,324	4,680
25	Modoc	44,382	3,744	14,118	3,510
26	Mono	4,251	663	1,092	351
27	Monterey	13,065	819	819	234
28	Napa	15,171	1,209	273	117
29	Nevada	-	-	39	39
30	Orange	3,432	312	780	195
31	Placer	16,887	1,287	1,404	741
32	Plumas	11,037	819	1,170	546
33	Riverside	67,938	3,549	5,811	2,106
34	Sacramento	59,475	5,187	5,265	2,262
35	San Benito	5,967	390	195	78
36	San Bernardino	16,809	1,599	1,209	741
37	San Diego	20,163	1,794	975	273
38	San Francisco	1,092	78	-	-
39	San Joaquin	80,379	4,914	6,357	2,067
40	San Luis Obispo	11,856	1,131	858	195
41	San Mateo	8,541	819	273	78
42	Santa Barbara	5,148	351	39	78
43	Santa Clara	23,088	1,131	78	78
44	Santa Cruz	273	156	-	-
45	Shasta	24,999	2,496	2,535	1,287
46	Sierra	2,769	273	117	117
47	Siskiyou	103,896	7,644	32,487	5,967
48	Solano	211,536	10,296	2,457	2,145
49	Sonoma	14,001	1,521	195	234
50	Stanislaus	33,571	2,613	3,705	1,053
51	Sutter	101,166	6,123	6,201	2,925
52	Tehama	31,512	1,872	3,276	780
53	Trinity	4,173	312	117	39
54	Tulare	26,520	1,950	2,379	663
55	Tuolumne	273	78	39	78
56	Ventura	29,289	1,248	39	195
57	Yolo	71,253	4,407	3,159	1,911
58	Yuba	50,076	3,003	4,134	897
59	Unknown	24,726	3,705	1,326	858
	Total	2,673,021	166,452	188,643	65,169

## Deer

## Bear

## Boar

		Bag	Hunters	Bag	Hunters	Bag	Hunters
1	Alameda	624	1,599	-	-	-	117
2	Alpine	1,092	6,123	-	117	-	-
3	Amador	624	3,549	-	117	-	-
4	Butte	1,599	8,892	117	507	-	-
5	Calaveras	468	4,719	-	312	-	-
6	Colusa	273	1,209	39	39	39	39
7	Contra Costa	390	546	-	-	39	39
8	Del Norte	195	1,014	-	78	-	-
9	El Dorado	1,365	10,413	39	897	-	-
10	Fresno	1,404	12,792	78	1,404	663	936
11	Glenn	975	3,198	39	273	-	78
12	Humboldt	4,641	8,307	39	273	897	546
13	Imperial	156	858	-	-	-	-
14	Inyo	663	4,368	-	195	-	-
15	Kern	1,989	10,140	-	897	-	156
16	Kings	78	585	-	39	234	390
17	Lake	1,365	6,318	39	156	156	546
18	Lassen	1,872	11,973	-	195	117	39
19	Los Angeles	819	4,368	-	351	-	78
20	Madera	390	5,382	39	702	-	39
21	Marin	780	1,638	-	-	-	39
22	Mariposa	234	3,159	78	780	39	78
23	Mendocino	6,669	17,901	78	624	4,680	3,159
24	Merced	351	1,326	-	78	741	741
25	Modoc	1,989	10,374	-	78	-	-
26	Mono	1,287	8,502	-	195	-	-
27	Monterey	3,783	8,775	-	39	5,538	7,488
28	Napa	741	2,652	-	-	-	-
29	Nevada	819	5,811	78	351	-	39
30	Orange	507	819	-	-	-	-
31	Placer	780	5,616	-	741	-	-
32	Plumas	2,067	12,948	78	858	-	-
33	Riverside	312	1,911	-	78	-	39
34	Sacramento	-	156	-	-	-	-
35	San Benito	858	2,340	-	-	4,134	2,730
36	San Bernardino	1,209	5,187	-	819	-	39
37	San Diego	897	5,499	-	78	39	39
38	San Francisco	-	-	-	-	-	-
39	San Joaquin	-	39	-	-	78	39
40	San Luis Obispo	1,716	6,669	-	39	1,326	1,131
41	San Mateo	195	390	-	-	-	-
42	Santa Barbara	1,833	4,797	-	156	897	897
43	Santa Clara	1,326	2,574	-	-	1,287	1,014
44	Santa Cruz	39	429	-	-	-	117
45	Shasta	2,613	13,455	312	1,053	78	234
46	Sierra	663	5,889	-	468	-	-
47	Siskiyou	3,627	15,015	117	858	-	-
48	Solano	312	819	-	-	78	39
49	Sonoma	1,521	4,446	-	-	4,095	2,925
50	Stanislaus	468	2,847	-	156	312	234
51	Sutter	117	390	-	-	-	-
52	Tehama	3,588	13,650	78	624	897	2,535
53	Trinity	2,964	11,817	78	1,014	195	234
54	Tulare	780	8,463	234	2,067	156	234
55	Tuolumne	1,482	10,764	78	663	-	-
56	Ventura	312	2,886	-	156	39	156
57	Yolo	234	11,014	-	-	-	-
58	Yuba	234	1,833	-	117	-	-
59	Unknown	975	33,774	39	2,418	507	2,262
	Total	69,264	342,927	1,677	21,060	27,261	29,445

**1970 Hunter Survey - Bag and Hunters**  
**Coyote**

**Bobcat**

		Bag	Hunters	Bag	Hunters
1	Alameda	156	117	-	39
2	Alpine	273	390	-	-
3	Amador	663	507	39	39
4	Butte	429	507	-	39
5	Calaveras	1,443	624	39	78
6	Colusa	546	234	-	78
7	Contra Costa	156	78	-	-
8	Del Norte	39	39	39	39
9	El Dorado	975	624	-	117
10	Fresno	2,340	897	468	390
11	Glenn	702	390	-	39
12	Humboldt	936	702	351	312
13	Imperial	312	429	-	-
14	Inyo	975	546	117	195
15	Kern	3,393	1,950	351	546
16	Kings	78	117	-	-
17	Lake	312	234	-	39
18	Lassen	2,847	1,326	234	312
19	Los Angeles	1,404	1,287	39	195
20	Madera	585	312	78	156
21	Marin	-	-	117	39
22	Mariposa	468	273	39	78
23	Mendocino	1,053	585	390	468
24	Merced	780	234	-	-
25	Modoc	3,003	1,248	78	39
26	Mono	1,131	468	-	117
27	Monterey	897	507	273	251
28	Napa	468	234	78	156
29	Nevada	624	312	-	78
30	Orange	663	117	39	78
31	Placer	624	312	-	-
32	Plumas	3,237	858	117	195
33	Riverside	1,248	663	156	117
34	Sacramento	195	117	-	-
35	San Benito	195	234	-	78
36	San Bernardino	3,783	1,677	312	546
37	San Diego	4,134	1,872	351	468
38	San Francisco	-	-	-	-
39	San Joaquin	78	78	-	39
40	San Luis Obispo	1,287	312	273	234
41	San Mateo	78	78	-	39
42	Santa Barbara	507	351	117	195
43	Santa Clara	39	195	-	78
44	Santa Cruz	234	78	-	-
45	Shasta	1,755	1,248	234	312
46	Sierra	156	78	-	-
47	Siskiyou	1,677	1,170	39	273
48	Solano	546	195	-	39
49	Sonoma	429	117	78	39
50	Stanislaus	1,092	429	78	39
51	Sutter	117	156	-	-
52	Tehama	1,599	1,170	39	78
53	Trinity	1,209	780	195	312
54	Tulare	1,170	546	585	312
55	Tuolumne	468	234	78	117
56	Ventura	429	351	-	78
57	Yolo	468	156	117	78
58	Yuba	273	156	117	78
59	Unknown	702	1,950	78	663
	Total	55,380	30,849	5,733	8,424