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California Department of Food and Agriculture

Agricultural Commissioners' Crop Reports

# Glenn County

1953-1958

California County Agricultural Commissioners' Reports from the California Department of Food and Agriculture. This collection consists of annual crop and livestock data from each of the 58 California Counties. The collection covers 1915-1981; digitization of the rest of the collection is forthcoming.

This digitization project was funded by the Giannini Foundation of Agricultural Economics,  
<http://giannini.ucop.edu/>.

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## OF TWENTY-TWO CROPS

Almonds Pounds	Walnuts Pounds	Olives Pounds	Oranges Boxes	Prunes Pounds	Other Fresh Fruits Pounds
2,961,129	221,175	665,769	71,538	3,551,892	2,857,328
2,015,740	1,203,344	2,276,166	103,554	2,583,832	2,382,785
47,414	508,514	4,018,132	58,327	2,709,109	4,513,423
1,999,222	516,820	1,601,293	64,517	2,068,508	5,199,775
1,415,500	515,500	7,874,000	85,000	4,056,000	5,219,000
2,700,000	258,000	7,858,000	115,000	4,864,000	4,540,000
1,900,000	342,000	3,690,000	85,000	6,000,000	3,630,000
2,000,000	302,000	1,573,000	120,000	4,500,000	7,307,000
2,000,000	437,000	4,479,000	78,000	7,000,000	5,130,000
1,250,000	325,000	4,181,000	45,000	6,000,000	1,895,000
3,000,000	787,000	1,763,000	86,000	5,500,000	5,899,000
3,500,000	716,500	3,123,000	78,000	3,300,000	3,948,000
3,500,000	856,500	4,000,000	105,000	5,544,000	6,710,000
3,750,000	885,000	1,750,000	86,000	5,750,000	8,216,000
3,300,000	720,000	1,250,000	125,000	4,550,000	5,501,000
35,339,005	8,594,353	50,102,360	1,305,936	67,977,341	72,948,311
\$9,658,384	\$1,501,086	\$5,816,203	\$4,489,056	\$5,903,184	\$3,789,058
Wool Pounds	Turkeys Pounds	Turkey Eggs	Pounds Packaged Bees	Honey Tons	Lumber & Logs Bd. Feet
1,016,192	2,012,613	267,368	18,430	138	
1,245,060	1,693,591	99,500	19,750	270	
1,477,354	1,870,724	218,724	19,250	165	
1,549,622	1,358,244	204,527	33,288	216	
1,439,000	934,000	486,000	37,000	246	
1,500,000	1,975,000	642,000	68,000	178	
1,160,000	2,382,000	841,000	30,000	114	500,000
1,372,000	1,482,000	635,000	37,500	220	1,400,000
1,000,000	785,000	315,000	39,000	137	500,000
1,006,000	500,000	75,000	38,500	238	5,000,000
840,000	550,000	320,000	32,000	244	1,800,000
1,000,000	1,265,000	400,000	25,000	144	7,000,000
1,375,000	1,250,000	351,000	24,500	462	29,000,000
1,630,000	1,325,000	440,000	26,475	450	23,000,000
1,200,000	850,000	290,000	25,000	325	27,000,000
18,810,228	20,233,172	5,585,119	473,693	3,547	95,200,000
\$9,735,887	\$7,158,868	\$1,552,095	\$ 596,209	\$ 723,365	\$6,198,000

## CHEMICALS USED BY THIS DEPARTMENT

### INSECT CONTROL

Benzene Hexachloride (BHC) .....	168 Pounds
D.D.T. ....	160 Gallons
D.D.T. (wetable powder) .....	135 Pounds
Chlordane .....	51 Quarts
Chlordane or Aldrin treated Bran .....	844 Pounds
5% Chlordane Dust .....	57 Pounds
Cyanogas .....	5 Ounces
Cyanide Eggs .....	2 Pounds
Summer Oil Spray .....	233 Gallons
Lead Arsenate .....	351 Pounds
Bordeaux .....	35 Pounds
Sodium Arsenite .....	21 Gallons
Oronite .....	17 Pounds
Pyrenone .....	1 Quart
Aldrin .....	10 Pints
Malathion .....	5 Quarts
Parathion .....	256 Pounds
Multifilm .....	16 Pounds
Lindane (Liquid) .....	2 Gallons
Lindane (wetable powder) .....	6 Pounds
Arsenic Trioxide .....	1 Gallon
Dieldrin .....	41 Quarts
Pyrethrum Dust .....	16 Pounds
Sulphuric Acid .....	1 Pint

### WEED CONTROL

Polybor Chlorate .....	3,100 Pounds
Contact Weed Killer .....	56 Gallons
Diesel Oil .....	6,788 Gallons
Sodium Chlorate .....	400 Pounds
2,4-D Amine .....	1,150 Gallons
2,4-D Ester .....	310 Gallons
2,45T .....	9 Quarts
Pentachlorophenol .....	1 Gallon
Natox "50" .....	60 Pounds

### RODENT CONTROL

Strychnine-treated Barley .....	4,922 Pounds
Strychnine-treated Milo .....	176 Pounds
Zinc-phosphide-treated Barley .....	10 Pounds
"1080" .....	5 Ounces
Warfarin-treated Bait .....	1,568 Pounds
Carbon Bisulphide.....	6 Gallons

**THE FOLLOWING TABLE WAS COMPILED**  
from  
**COMMERCIAL PEST CONTROL OPERATOR'S REPORTS**

297 Permits were issued to use hazardous herbicides and insecticides in 1953.

Crop	Weed Control		Pest Control		Defoliants		Total Cost of Spraying
	Acreage Sprayed	Cost of Herbicide & Application	Acreage Sprayed	Cost of Insecticide & Application	Acreage Sprayed	Cost of Material & Application	
Rice	34,086	\$101,520	16,356	\$64,689	3,130	\$7,958	\$174,167
Barley	9,390	18,269					18,269
Clover	5,190	9,803	3,872	11,087	104	450	21,340
Wheat	340	679					679
Corn	1,047	1,961	44	160	304	700	2,821
Sudan	100	158	290	600			758
Walnuts			207	1,453			1,453
Beans			183	625			625
Safflower			635	1,692			1,692
Sunflower	400	1,120					1,120
Figs			88	639			639
Alfalfa			360	939			939
Prunes			76	615			615
Totals	50,553	\$133,510	22,111	\$82,499	3,538	\$9,108	\$225,117

NOTE: The above figures do not include a large acreage treated by private farm and orchard operators.

**APIARY INSPECTION**

	Colonies	Apiaries
Registered during 1953 .....	3,769	216
Entering California .....	145	2
Entering County .....	3,718	56
Leaving County .....	2,183	45
Moving within the County .....	1,064	25
Inspected during 1953 .....	2,801	125
Infected with American Foulbrood .....	75	19
Infected with European Foulbrood .....	41	13
Burned for American Foulbrood .....	75	19

**PLANT QUARANTINE**

**INTERSTATE SHIPMENTS:**

Number of Shipments Passed: .....	521
Number of Plants Passed: .....	27,179
Number of Shipments Rejected: .....	5
Number of Plants Rejected: .....	76

**INTRASTATE SHIPMENTS:**

Number of Shipments Passed: .....	631
Number of Plants Passed: .....	50,578
Number of Shipments Rejected: .....	6
Number of Plants Rejected: .....	32

# ANNUAL RAINFALL AT WILLOWS, CALIFORNIA

75 YEARS — 1878-1953

Rainfall		Rainfall		Rainfall	
Year	Inches	Year	Inches	Year	Inches
1878-1879.....	7.01	1903-1904.....	20.28	1928-1929.....	11.46
1879-1880.....	13.96	1904-1905.....	24.55	1929-1930.....	16.37
1880-1881.....	13.85	1905-1906.....	19.85	1930-1931.....	9.85
1881-1882.....	8.28	1909-1907.....	17.88	1931-1932.....	15.01
1882-1883.....	8.45	1907-1908.....	13.44	1932-1933.....	7.79
1883-1884.....	18.84	1908-1909.....	22.09	1933-1934.....	15.65
1884-1885.....	7.80	1909-1910.....	14.36	1934-1935.....	19.62
1885-1886.....	19.15	1910-1911.....	17.75	1935-1936.....	17.48
1886-1887.....	8.07	1911-1912.....	11.26	1936-1937.....	16.40
1887-1888.....	8.97	1912-1913.....	13.18	1937-1938.....	26.28
1888-1889.....	10.30	1913-1914.....	29.18	1938-1939.....	6.82
1889-1890.....	29.94	1914-1915.....	27.19	1939-1940.....	23.21
1890-1891.....	19.01	1915-1916.....	18.11	1940-1941.....	40.50
1891-1892.....	18.82	1916-1917.....	11.43	1941-1942.....	24.07
1892-1893.....	27.30	1917-1918.....	11.90	1942-1943.....	15.68
1893-1894.....	11.15	1918-1919.....	12.90	1943-1944.....	13.5
1894-1895.....	26.04	1919-1920.....	7.70	1944-1945.....	16.94
1895-1896.....	22.18	1820-1921.....	21.28	1945-1946.....	14.72
1896-1897.....	18.82	1921-1922.....	13.44	1946-1947.....	12.28
1897-1898.....	6.58	1922-1923.....	16.81	1947-1948.....	19.56
1898-1899.....	13.05	1923-1924.....	8.86	1948-1949.....	15.59
1899-1900.....	15.23	1924-1925.....	25.99	1949-1950.....	10.32
1900-1901.....	17.49	1925-1926.....	18.44	1950-1951.....	17.48
1901-1902.....	21.67	1926-1927.....	25.99	1951-1952.....	23.50
1902-1903.....	17.10	1927-1928.....	17.54	1952-1953.....	19.70

## WEIGHTS AND MEASURES REPORT — 1953

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### TESTED AND SEALED WITHOUT CORRECTION: TOTAL - 1334

- 15 Counter scales
- 31 Spring scales
- 23 Computing scales
- 49 Platform and Dormant Scales
- 2 Hopper scales
- 32 Livestock scales
- 25 Vehicle scales
- 1 Meat Beam and Steelyard
- 351 Weights
- 3 Vehicle tank meters
- 2 Bulk plant meters
- 102 Retail pumps and meters
- 101 Grease meters
- 203 Liquid capacity measures
- 392 Lubricating oil bottles tested for capacity
- 2 Farm holding tanks

### TESTED AND SEALED AFTER CORRECTION: TOTAL - 196

- 6 Counter scales
- 15 Spring scales
- 8 Computing scales
- 34 Platform and dormant scales
- 6 Hopper scales
- 31 Livestock scales
- 20 Vehicle scales
- 2 Weights
- 3 Vehicle tank meters
- 44 Retail pumps and meters
- 22 Lubricating oil bottles tested for capacity, were MINUS
- 2 Farm holding tanks

### TESTED AND FOUND TO BE OUT OF ORDER: TOTAL - 16

- 1 Counter scale
- 3 Spring scales
- 4 Livestock scales
- 1 Vehicle scale
- 7 Retail pumps

### EQUIPMENT CONDEMNED: TOTAL - 0

Packages or containers checked: 66 light, 234 correct.  
Signs inspected: 576 passed; 36 corrected.  
Establishments visited during 1953: 453.  
Certificates of inspection issued: 287.

## NATURAL ECONOMIC RESOURCES

Water Resources: Sacramento River, Feather River, Stony Creek, Grindstone Creek and Butte Creek.

Water Storage: Shasta Dam on Sacramento River; Stony Gorge Dam on Stony Creek; East Park Dam on Stony Creek.

Irrigation Districts in Operation:	Acres
Orland, U.S. Reclamation District—Stony Creek .....	20,000
Glenn-Colusa Irrigation District—Sacramento River .....	54,435
Jacinto Irrigation District—Sacramento River .....	12,000
Provident Irrigation District—Sacramento River .....	12,520
Princeton-Codora-Glenn—Sacramento River .....	7,000
Willow Creek Mutual Water Company—Sacramento River .....	1,000
Loam Ridge Irrigation District—Pumps .....	1,200
Western Canal Company—Feather River .....	11,000
Stony Creek Valley, Riparian Water Rights .....	3,800
Pump Irrigation from farm wells .....	36,000
<b>TOTAL ACREAGE UNDER IRRIGATION .....</b>	<b>157,955</b>

Other land suitable for irrigation:

West of present irrigation systems .....	71,000
Butte City District, East of Sacramento River .....	25,000
Stony Creek Valley .....	10,700
West of Orland on Stony Creek, below proposed Black Butte Dam .....	15,000

**ADDITIONAL ACREAGE SUITABLE FOR IRRIGATION .....** 121,700

Total Acreage in Glenn County .....	880,000
Acres in Farm Land .....	319,000
Acres in Range Land .....	287,000
Acres in National Forest .....	221,568
Acres of Standing Timber .....	86,000
Board Feet of Standing Timber .....	3,000,000,000

Species of merchantable trees: Sugar Pine, Ponderosa (yellow) Pine  
Douglas Fir, White Fir, Red Fir and Incense Cedar.

Sawmills in Operation .....	1
Natural Gas Wells (Proven) .....	10
Number of farms in County .....	1,800



## RECREATIONAL RESOURCES

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Lakes .....	Stony Gorge Dam and Packer Lake
Forest Camp Grounds Improved .....	54
Visitors annually to National Forest areas .....	28,000
Forest Acreage .....	221,568
Elevation in Forest—Highest point .....	7,450
Trout Holding Ponds—Plaskett Meadows—Elevation .....	6,500

### Kinds of Fish:

- Mountain streams—Rainbow Trout
- Rivers—Striped Bass, Black Bass, Salmon, Shad, Catfish, Steelhead and Rainbow Trout.
- Lakes—Black Bass, Catfish, Sunfish, Crappie, Bluegill.

Rivers and Creeks:	(Length in miles through Glenn County)
Sacramento River .....	40
Black Butte River, a tributary of Eel River .....	7
Stony Creek, main stream .....	68
Stony Creek, north fork .....	12
Briscoe Creek .....	12
Grindstone Creek .....	28
Cold Creek .....	6
Willow Creek .....	37
Butte Creek .....	12
Walker Creek .....	20

### Estimated number of wild game:

Columbia Black Tail Deer .....	10,000
California Brown Bear .....	200
Wild Ducks .....	1,500,000
Wild Geese .....	800,000
Ring-neck Pheasants .....	50,000
California Valley and Mountain Quail .....	20,000
Mourning Doves .....	35,000
Band-tail Pigeons .....	6,000

### Estimated number of predators:

Mountain Lions .....	50
Coyotes .....	2,500
Bobcats .....	1,500
Badgers .....	150
Raccoons .....	7,000
Skunks .....	4,000
Mink .....	500
Grey Fox .....	2,000

### Wild Game reported killed:

Deer .....	606
Mountain Lions .....	6
Coyotes .....	118
Muskrats, trapped .....	16,000

## COMMENTS

Two factors combined to bring the first decrease in gross agricultural returns in Glenn County since 1949, even though the nation-wide downward trend in farm income had been resisted here for the previous two years. Increased production of money crops within the county brought an increase during those years, but during 1953 lower returns per unit produced, and decreased production finally brought about a decrease in Glenn County crop values.

Seed crops, which due to the Ladino Clover boom, had risen from a \$675,000 figure in 1947 to over \$4,500,000 by 1952, showed the largest drop percentage-wise and in actual money value. Removal of the Government support price lowered cash returns to the grower about 60 per cent and consequently production also fell off nearly 50 per cent.

The decline of prices in the beef cattle industry which started in 1952 and continued for a good part of 1953 accounts for the next largest decrease. However, butterfat production increased nearly 1,000,000 pounds to an all-time high of 4,800,000 pounds.

In field crops, where rice has been the leader for several years, prices were lower and production per acre of rice was below that of last year, thus reducing the income by one and a half million dollars. Orchard crop production was generally lighter than a year ago. Prices too, were slightly lower—with the exception of the orange crop where both yield and selling prices topped the previous year.

The County Department of Agriculture is charged with the administration of the sections of the State Agricultural and Administrative Codes, covering plant quarantine and nursery inspection; field and orchard inspection; pest control operators; agricultural chemicals; standardization of fruits, nuts, vegetables and eggs; weed control; rodent control; seed inspection; apiary inspection; and weights and measures enforcement.

All known infestations of primary noxious weeds within the county were treated and some progress toward their reduction in area and eradication was accomplished. State and County roads were sprayed to control Puncture Vine and Johnson Grass and other secondary noxious weeds.

A county-wide survey of citrus and olive tree insects was carried on by a team of inspectors and all scale insects found were classified. A map plotting these infestations, together with a complete card file, was made. Olive Parlatoria Scale was found to be localized on non-commercial trees in the Willows area. These infestations are under treatment and have been sprayed several times. Yellow scale, a citrus pest was found to be fairly common in the urban areas of the county, but only one commercial grove was found to be heavily infested. Treatment of the infested grove was very successful and some measure of control was obtained on the other properties. Both of these pests are wide-spread throughout the state. Growers of both olives and oranges have taken precautions to prevent the spread to their properties of these scale insects.

The Rice Leaf Miner early in the season caused heavy damage to some rice fields. It was necessary to spray 14,500 acres for the control of this pest. The proper application and control of the drift of insecticides and herbicides is a continuing problem.

During the past several years the muskrat has increased in numbers and has become of economic importance. The fur of this rodent is of commercial value as indicated by the reported catch of 60,000 pelts over a seven year period. The muskrat has, however, damaged canal banks and rice levees causing losses amounting to thousands of dollars annually. The Department of Zoology, University of California, and the State and County Departments of Agriculture are cooperating in studies on muskrat control.

P. V. HARRIGAN  
AGRICULTURAL COMMISSIONER  
WILLOWS, CALIFORNIA



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1954

**ANNUAL REPORT**



**Agricultural Commissioner**

**COUNTY OF GLENN**

**1954**



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**P. V. HARRIGAN**

**GLENN COUNTY DEPARTMENT OF AGRICULTURE**  
WILLOWS, CALIFORNIA

**ANNUAL REPORT**

For the  
Year Ending December 31, 1954

**P. V. HARRIGAN**

Agricultural Commissioner  
and  
Sealer of Weights and Measures

**BOARD OF SUPERVISORS**

W. L. Linville, Chairman	
Marshall Lane	George J. Otterson
George L. Lewis	Geo. E. (Nip) Roberts

**COUNTY OF GLENN**  
**DEPARTMENT OF AGRICULTURE**

Memorial Building, Willows

P. V. Harrigan  
Agricultural Commissioner  
Sealer of Weights and Measures

Telephones:  
Willows 240  
Orland UNDERhill 5-2264

TO THE STATE DIRECTOR OF AGRICULTURE,  
and  
THE HONORABLE BOARD OF SUPERVISORS:

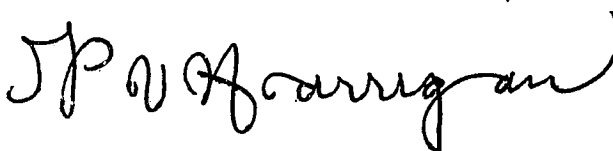
Section 65.5 of the California Agricultural Code requires that the Agricultural Commissioner compile a report covering conditions, acreage, production, and value of the agricultural products of his county; and, Section 65 requires that the Commissioner keep a record of his official acts and make an annual report to the Director on the conditions of the Agricultural interests in his county. This is the eighteenth annual report published by this department.

Values indicated in this report are based on fairly accurate, average selling prices and do not represent net returns to the farmer. The members of the Department have made every effort to make this report as accurate as possible by checking the figures with many sources of reliable information.

Copies of this report are sent to a number of federal, state and county agencies, and to many organizations and individuals.

I wish to express my sincere appreciation to all those who have co-operated in helping to make this report possible.

Respectfully submitted,



P. V. HARRIGAN  
Agricultural Commissioner

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## PERSONNEL

P. V. Harrigan .....	Agricultural Commissioner
H. I. Tillotson, Jr. ....	Deputy Sealer and Inspector
Elroy Eberwein .....	Deputy Sealer and Seed Inspector
W. W. Irland .....	Pest Control and Pest Control Operators
Charles Cordill .....	Plant Quarantine and Standardization
Noble Love .....	Weed Control
Ellen O. Marzolf .....	Stenographer-Clerk

## OFFICES

Memorial Building  
Willows, California

County Building  
Orland, California

## TELEPHONE NUMBERS

Willows — 240

Orland — UNDERhill 5-2264



# **PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS** **GLENN COUNTY, CALIFORNIA — 1954**

FIELD CROPS	Production	Values	Totals
Rice .....	1,400,000 cwt.	\$ 6,300,000	
Barley .....	750,000 cwt.	1,800,000	
Wheat .....	30,000 cwt.	105,000	
Oats .....	7,500 cwt.	20,000	
Milo .....	100,000 cwt.	300,000	
Safflower .....	42,000 cwt.	115,500	
Beans .....	25,000 cwt.	175,000	
Field Corn .....	36,000 cwt.	120,000	
Sugar Beets .....	13,000 tons	175,500	
			\$ 9,111,000
Forage			
Silage Corn .....	16,000 tons	112,000	
Alfalfa Hay .....	65,000 tons	1,300,000	
Clover Hay .....	7,000 tons	70,000	
Mixed Hay .....	15,000 tons	225,000	
			1,707,000
PASTURE			
Irrigated Pasture .....	54,000 acres	1,350,000	
Range .....	250,000 acres	250,000	
Stubble .....	120,000 acres	180,000	
			1,780,000
SEED CROPS			
Ladino Clover .....	1,915,000 lbs.	1,053,000	
Other Clover .....	106,500 lbs.	64,000	
Sudan .....	920,000 lbs.	83,000	
Alfalfa .....	75,000 lbs.	26,000	
Other Seed .....	40,000 lbs.	12,000	
Canadian Peas .....	180,000 lbs.	7,500	
Vetch .....	70,000 lbs.	3,000	
			1,248,500
ORCHARD CROPS			
Almonds .....	2,225,000 lbs.	587,000	
Apricots .....	1,150,000 lbs.	70,000	
Olives .....	5,000,000 lbs.	375,000	
Oranges .....	120,500 boxes	490,000	
Peaches .....	800,000 lbs.	25,000	
Prunes .....	7,800,000 lbs.	877,000	
Pears .....	5,500,000 lbs.	207,000	
Walnuts, English .....	675,000 lbs.	118,500	
Walnuts, Black .....	200,000 lbs.	5,000	
Apricot Pits and Almond Hulls .....	1,550 tons	5,500	
			2,760,000
POULTRY			
Poultry, live .....	120,000 lbs.	27,000	
Eggs .....	284,000 doz.	104,000	
Turkeys, dressed .....	1,400,000 lbs.	500,000	
Turkey Eggs .....	17,000 each	99,000	
			730,000

## PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS

(Continued)

LIVESTOCK	Production	Values	Totals
Butterfat .....	5,136,000 lbs.	\$ 4,402,000	
Fat Cattle .....	16,000 head	2,300,000	
Cattle .....	15,000 head	900,000	
Calves .....	14,000 head	350,000	
By-Products .....		50,000	
Sheep .....	20,000 head	125,000	
Lambs .....	130,000 head	2,200,000	
Wool .....	1,200,000 lbs.	815,000	
Pelts .....	3,000 each	9,000	
Hogs .....	20,000 head	720,000	
			\$11,871,000
APICULTURE			
Package Bees .....	25,000 lbs.	25,000	
Queens .....	3,500 each	4,500	
Honey .....	650,000 lbs	65,000	
Beeswax .....	9,000 lbs.	4,000	
Pollination .....		10,000	
			108,500
GOVERNMENT PAYMENTS			
Agricultural Conservation		42,000	
			42,000
FOREST PRODUCTS			
Logs .....	8,000,000 bd. feet	200,000	
Milled Lumber .....	24,000,000 bd. ft.	1,800,000	
Christmas Trees .....	5,000 trees	6,000	
			2,006,000
GRAND TOTAL AGRICULTURAL INCOME - 1954 .....			\$31,364 000

### AGRICULTURAL INCOME TOTALS FOR 16 YEARS

Year	Amount
1939 .....	\$ 7,698,200
1940 .....	8,206,700
1941 .....	10,587,500
1942 .....	11,973,200
1943 .....	13,824,600
1944 .....	19,047,000
1945 .....	18,577,000
1946 .....	22,260,000
1947 .....	27,935,000
1948 .....	27,070,000
1949 .....	24,820,000
1950 .....	30,637,000
1951 .....	39,005,000
1952 .....	42,473,700
1953 .....	33,267,000
1954 .....	31,364,000
SIXTEEN YEAR TOTAL .....	368,745,900

# ANNUAL RAINFALL AT WILLOWS, CALIFORNIA

## 76 YEARS — 1878-1954

Year	Inches	Year	Inches	Year	Inches
1878-1879.....	7.01	1904-1905.....	24.55	1930-1931.....	9.85
1879-1880.....	13.96	1905-1906.....	19.85	1931-1932.....	15.01
1880-1881.....	13.85	1906-1907.....	17.88	1932-1933.....	7.79
1881-1882.....	8.28	1907-1908.....	13.44	1933-1934.....	15.65
1882-1883.....	8.45	1908-1909.....	22.09	1934-1935.....	19.62
1883-1884.....	18.84	1909-1910.....	14.36	1935-1936.....	17.48
1884-1885.....	7.80	1910-1911.....	17.75	1936-1937.....	16.40
1885-1886.....	19.15	1911-1912.....	11.26	1937-1938.....	26.28
1886-1887.....	8.07	1912-1913.....	13.18	1938-1939.....	6.82
1887-1888.....	8.97	1913-1914.....	29.18	1939-1940.....	23.21
1888-1889.....	10.30	1914-1915.....	27.19	1940-1941.....	40.50
1889-1890.....	29.94	1915-1916.....	18.11	1941-1942.....	24.07
1890-1891.....	19.01	1916-1917.....	11.43	1942-1943.....	15.68
1891-1892.....	18.82	1917-1918.....	11.90	1943-1944.....	13.52
1892-1893.....	27.30	1918-1919.....	12.90	1944-1945.....	16.94
1893-1894.....	11.15	1919-1920.....	7.70	1945-1946.....	14.72
1894-1895.....	26.04	1920-1921.....	21.28	1946-1947.....	12.28
1895-1896.....	22.18	1921-1922.....	13.44	1947-1948.....	19.50
1896-1897.....	18.82	1922-1923.....	16.81	1948-1949.....	15.59
1897-1898.....	6.58	1923-1924.....	8.86	1949-1950.....	10.32
1898-1899.....	13.05	1924-1925.....	25.99	1950-1951.....	17.48
1899-1900.....	15.23	1925-1926.....	18.44	1951-1952.....	23.50
1900-1901.....	17.49	1926-1927.....	25.99	1952-1953.....	19.70
1901-1902.....	21.67	1927-1928.....	17.54	1953-1954.....	16.64
1902-1903.....	17.10	1928-1929.....	11.46		
1903-1904.....	20.28	1929-1930.....	16.37		

**The Following Table Was Compiled From Commercial Pest Control Operators' Reports and Estimates by Private Farm and Orchard Operators**

329 Permits were issued to use hazardous herbicides and insecticides in 1954.

	Pest Control Operators				Estimate by Others		Totals	
	By Aircraft	By Ground Rig						
	Acreage	Cost of Material & Application	Acreage	Cost of Material & Application	Acreage	Cost of Material & Application	Acreage	Costs
<b>FIELD CROP</b>								
Rice								
Herbicide ....	32,716	\$ 83,426		\$		\$	32,716	\$ 83,426
Insecticide ..	8,812	22,030					8,812	22,030
Defoliant ....	8,359	27,167					8,359	27,167
	49,887	132,623					49,887	132,623
Other Grains								
Herbicide ....	9,554	19,108	2,417	4,230	7,000	8,750	18,971	32,088
Ladino Clover								
Herbicide ....	165	404	1,344	2,957	1,000	1,750	2,509	5,111
Insecticide ..	4,760	17,850	1,252	4,382	500	1,500	6,512	23,732
Defoliants ..	1,046	3,400			1,000	3,000	2,046	6,400
	5,971	21,654	2,596	7,339	2,500	6,250	11,067	35,243
Alfalfa								
Insecticide ..	825	3,094					825	3,094
Defoliants ..	386	1,737					386	1,737
	1,211	4,831					1,211	4,831
Beans								
Insecticide ..	1,481	8,294			500	2,400	1,981	10,694
All Other								
Field Crops								
Herbicide ....			442	972			442	972
Insecticide ..	139	521					139	521
Defoliant ....	80	260					80	260
	219	781					661	1,753
<b>VEGETABLE CROPS</b>								
Peas, Cucumbers, Melons	205	1,148					205	1,148
<b>DECIDUOUS FRUITS</b>								
Insecticides	527	6,851			900	11,700	1,427	18,551
<b>NUTS</b>								
Insecticides	420	5,460	335	4,020	3,000	39,000	3,755	48,480
<b>RANGE &amp; PASTURE</b>								
Insecticides	173	484			500	1,125	673	1,609
<b>MISCELLANEOUS</b>								
Herbicides ..	486	972	24	54	600	1,020	1,110	2,046
<b>TOTALS ....</b>	<b>70,134</b>	<b>\$202,206</b>	<b>5,814</b>	<b>\$16,615</b>	<b>15,000</b>	<b>\$70,245</b>	<b>90,948</b>	<b>\$289,066</b>

# FIFTEEN YEAR PRODUCTION AND VALUE

Year	Rice Cwt.	Rice Value	Barley Cwt.	Barley Value	Ladino Seed Pounds	Ladino Seed Value
1940	408,550	\$ 510,675	317,486	\$ 259,300	119,000	\$ 96,000
1941	545,600	1,271,000	392,400	575,000	142,000	85,000
1942	361,940	1,230,600	258,300	407,900	141,000	105,000
1943	394,000	1,300,000	415,000	1,050,000	118,000	150,000
1944	850,000	2,678,000	701,000	1,658,000	325,000	569,000
1945	690,000	2,242,500	675,000	1,671,000	350,000	525,000
1946	1,050,000	4,500,000	700,000	2,233,000	440,000	560,000
1947	1,168,000	7,010,000	680,000	2,470,000	375,000	656,000
1948	840,000	4,200,000	1,112,000	3,172,000	670,000	1,106,000
1949	1,219,000	4,023,000	792,000	2,112,000	800,000	1,144,000
1950	900,000	4,050,000	651,000	1,510,000	2,280,000	2,736,000
1951	1,060,000	5,088,000	500,000	1,550,000	3,200,000	3,765,000
1952	1,500,000	9,000,000	500,000	1,700,000	4,650,000	4,500,000
1953	1,428,000	7,500,000	650,000	1,850,000	2,865,000	1,060,000
1954	1,400,000	6,300,000	750,000	1,800,000	1,915,000	1,053,000
TOTALS	13,815,090	\$60,903,775	9,094,186	\$24,018,200	18,390,000	\$7,111,100

Year	Prunes Pounds	Prunes Value	Olives Pounds	Olives Value	Oranges Boxes	Oranges Value
1940	2,584,000	\$ 97,500	2,276,000	\$ 96,500	103,500	\$ 207,000
1941	2,709,000	95,000	4,018,000	285,000	58,400	133,000
1942	2,069,000	145,000	1,601,000	228,000	64,500	258,000
1943	4,056,000	335,000	3,874,000	846,000	85,000	340,000
1944	4,864,000	487,000	3,858,000	849,000	115,000	431,500
1945	6,000,000	600,000	2,690,000	464,000	35,000	340,000
1946	4,500,000	540,000	1,573,000	201,500	120,000	390,000
1947	7,000,000	500,000	4,479,000	444,000	78,000	187,000
1948	6,000,000	420,000	4,181,000	324,000	45,000	225,000
1949	5,500,000	385,000	1,763,000	190,000	86,000	301,000
1950	3,300,000	418,000	3,123,000	558,000	78,000	234,000
1951	5,544,000	612,000	4,000,000	812,000	105,000	367,500
1952	5,750,000	630,000	3,650,000	580,000	86,000	350,000
1953	4,550,000	550,000	1,250,000	112,000	125,000	625,000
1954	7,800,000	877,000	5,000,000	375,000	120,000	490,000
TOTALS	72,226,000	\$6,691,500	46,337,000	\$6,365,000	1,354,400	\$4,879,000

Year	Hogs Head	Hogs Value	Lambs & Sheep Marketed Head	Wool Marketed Pounds	Sheep & Wool Value	50 Turkeys Pounds
1940	35,000	\$ 436,000	106,700	1,245,000	\$ 1,110,600	1,693,500
1941	34,900	636,000	111,250	1,477,500	1,402,000	1,871,000
1942	28,900	749,000	116,200	1,550,000	2,018,000	1,358,000
1943	34,000	995,000	109,000	1,439,000	1,645,500	934,000
1944	41,000	1,104,000	139,000	1,500,000	2,059,000	1,975,000
1945	17,500	612,500	141,000	1,160,000	2,262,000	2,382,000
1946	16,500	725,000	121,000	1,372,000	2,248,000	1,482,000
1947	15,000	900,000	127,500	1,000,000	2,490,000	785,000
1948	20,000	950,000	112,000	1,000,000	2,415,000	509,000
1949	25,000	1,125,000	102,000	840,000	2,388,000	550,000
1950	28,000	1,175,000	110,000	1,000,000	3,526,500	1,265,000
1951	47,500	2,000,000	130,000	1,375,000	4,263,000	1,250,000
1952	52,000	1,672,000	169,000	1,630,000	4,753,000	1,325,000
1953	30,000	994,000	163,000	1,200,000	3,397,500	850,000
1954	20,000	720,000	150,000	1,200,000	3,140,000	1,400,000
TOTALS	445,300	\$14,793,500	1,907,650	18,988,500	\$39,118,100	19,620,500

# VALUE OF PRINCIPAL COMMODITIES

	Other Field & Seed Crops Cwt.	Other Field & Seed Crops Value	Almonds Pounds	Almonds Value	Walnuts Pounds	Walnuts Value
	118,300	\$ 137,400	2,015,700	\$ 302,400	1,203,300	\$ 62,900
	165,100	282,600	471,400	170,000	508,500	37,100
	226,300	282,900	1,999,000	480,000	516,800	39,000
	102,300	253,000	1,415,500	481,000	895,500	140,000
	72,900	179,500	2,700,000	918,000	558,000	69,000
	96,800	309,000	1,900,000	741,000	542,000	89,600
	117,900	300,000	2,629,000	744,000	492,000	96,500
	126,600	426,500	2,000,000	680,000	587,000	90,500
	129,100	554,300	1,250,000	286,000	550,000	85,200
	192,400	500,800	3,000,000	650,000	1,237,000	159,000
	91,200	406,600	3,500,000	1,085,000	928,500	140,500
	65,600	360,500	3,500,000	1,050,000	1,165,500	211,500
	111,700	578,300	3,750,000	1,025,000	1,085,000	199,000
	222,900	895,000	3,300,000	780,000	920,000	155,000
	267,500	1,204,500	2,225,000	587,000	875,000	123,000
	1,106,600	\$6,670,900	35,026,600	\$9,979,400	12,064,100	\$1,697,800

	Other Fruit Fresh & Dried Pounds	Other Fruit Fresh & Dried Value	Butterfat Pounds	Butterfat Value	Cattle & Calves Marketed Head	Cattle & Calves Value
	3,083,500	\$ 95,500	1,879,000	\$ 751,500	9,090	\$ 675,800
	4,660,500	109,000	2,777,000	1,388,000	13,400	766,400
	6,160,000	491,000	2,668,000	1,607,000	12,100	848,300
	6,723,000	535,000	2,685,000	2,084,000	16,500	990,000
	6,645,000	682,500	3,034,000	2,503,000	23,500	1,395,000
	4,649,000	328,000	3,343,500	2,841,000	24,500	1,636,500
	9,763,000	839,000	2,973,000	2,902,000	23,500	1,695,000
	6,072,000	390,000	3,400,000	3,260,000	29,000	3,240,000
	2,382,000	119,000	3,690,000	4,000,500	31,500	4,770,000
	6,330,000	270,000	3,621,000	3,032,500	43,500	4,134,500
	4,177,000	295,000	3,711,000	3,711,000	41,300	7,000,500
	7,562,000	440,000	3,807,000	3,970,000	44,200	8,294,500
	9,112,000	510,000	3,875,000	4,601,000	41,500	5,540,000
	5,700,000	376,000	4,802,000	5,010,000	43,500	3,755,000
	7,450,000	310,000	5,136,000	4,402,000	45,000	3,550,000
	90,469,000	\$5,800,000	51,401,500	\$46,063,500	442,090	\$48,291,500

	Key Eggs Each	Turkeys & Eggs Value	Pounds Packaged Bees	Honey Tons	Bees & Honey Value	Lumber & Logs Bd. Feet	Lumber & Logs Value
	99,500	\$ 303,000	19,700	270	\$ 34,000		
	219,000	509,000	19,200	165	30,000		
	204,000	503,000	33,300	216	83,000		
	486,000	415,000	37,000	246	86,000		
	642,000	1,002,000	48,000	178	166,500		
	841,000	1,205,000	30,000	114	76,500	500,000	\$ 20,000
	635,000	784,000	37,500	220	164,000	1,400,000	100,000
	315,000	409,000	39,000	137	105,000	500,000	50,000
	75,000	300,000	38,500	238	131,000	5,000,000	500,000
	320,000	332,000	32,000	244	97,000	1,800,000	122,000
	400,000	547,000	25,000	144	63,500	7,000,000	240,000
	351,000	686,000	24,500	462	123,000	29,000,000	1,067,500
	440,000	697,000	26,475	450	131,500	23,000,000	1,647,500
	290,000	433,000	25,000	325	121,500	27,000,000	1,956,000
	317,000	599,000	25,000	325	95,000	32,000,000	2,000,000
	5,634,500	\$8,724,000	460,175	3734	\$1,507,500	127,200,000	\$7,703,000

## AGRICULTURAL RESOURCES

FIELD CROPS	Acreage	Totals
Alfalfa .....	14,000	
Barley .....	54,000	
Beans .....	1,500	
Corn		
Grain .....	1,200	
Silage .....	1,300	
Hay, Mixed .....	10,000	
Irrigated Pastures .....	54,000	
Milo .....	5,000	
Oats .....	1,200	
Rice .....	56,000	
Safflower .....	6,000	
Sudan .....	1,200	
Sugar Beets .....	969	
Wheat .....	3,645	
		210,014

ORCHARD CROPS	
Almonds .....	3,980
Apricots .....	161
Cherries .....	2
Citrus .....	630
Figs .....	85
Grapes .....	16
Olives .....	902
Peaches .....	90
Pears .....	169
Pecans .....	2
Prunes .....	1,475
Walnuts, English .....	964
	8,476

LIVESTOCK AND POULTRY	Head	
Cattle, Beef .....	17,000	
Cattle, Dairy .....	27,000	
Hogs .....	4,500	
Horses and Mules .....	300	
Sheep .....	135,000	
Poultry .....	20,000	
Turkeys, Breeding Stock .....	7,000	
		210,800

APIARY	Colonies	
Bees, Registered .....	6,831	
		6,831

## CHEMICALS USED BY THIS DEPARTMENT

### INSECT CONTROL

Benzene Hexachloride (BHC) .....	76 Pounds
D.D.T. ....	54 Gallons
D.D.T. (powder) .....	8 Pounds
72% Chlordane .....	94 Quarts
Dieldrin-Aldrin-Chlordane Bran .....	553 Pounds
Cyanogas .....	36 Ounces
Summer Oil Spray .....	2 Gallons
Lead Arsenate .....	151 Pounds
Bordeaux .....	43 Pounds
Sodium Arsenite .....	32 Gallons
Aldrin .....	5 Gallons
Aldrin dust 3% .....	325 Pounds
Malathion .....	29 Gallons
5% Chlordane Dust .....	387 Pounds
Dieldrin .....	79 Quarts
Dieldrin Dust .....	925 Pounds
Malathion Dust .....	4 Pounds
DDD .....	2 Pints
Elgetol "318" .....	6 Ounces
Soluble Emulsion .....	1 Gallon
Additive .....	15 Pints
Methyl Bromide .....	100 c. c.

### WEED CONTROL

Polybor Chlorate .....	2440 Pounds
Contact Weed Killer .....	56 Gallons
Diesel Oil .....	1946 Gallons
Sodium Chlorate .....	1400 Pounds
2,4-D Amine .....	1282 Quarts
2,45T .....	3 Quarts
Pentachlorophenol .....	1 Gallon
Borax .....	525 Pounds
C.M.U. ....	25 Pounds
Duratox .....	32 Pounds
Detergent .....	87 Pounds
Summer Oil .....	18 Gallons

### RODENT CONTROL

Strychnine-treated Barley .....	6372 Pounds
Strychnine-treated Milo .....	320 Pounds
Zinc-phosphide-treated Barley .....	344 Pounds
"1080" .....	52 Ounces
"1080" bait .....	10 Pounds
Warfarin .....	4434 Pounds
Carbon Bisulphide .....	12 Quarts
Strychnine alkaloid .....	58 Ounces
50% processed Strychnine .....	3 Ounces
Pival-treated bait .....	15 Pounds



## NATURAL ECONOMIC RESOURCES

Water Resources: Sacramento River, Feather River, Stony Creek, Grindstone Creek and Butte Creek.

Water Storage: Shasta Dam on Sacramento River; Stony Gorge Dam on Stony Creek; East Park Dam on Stony Creek.

Irrigation Districts in Operation:		Acres
Orland, U.S. Reclamation District—Stony Creek .....		20,000
Glenn-Colusa Irrigation District—Sacramento River .....		54,435
Jacinto Irrigation District—Sacramento River .....		12,000
Provident Irrigation District—Sacramento River .....		12,520
Princeton-Codora-Glenn—Sacramento River .....		7,000
Willow Creek Mutual Water Company—Sacramento River .....		1,000
Loam Ridge Irrigation District—Pumps .....		1,200
Western Canal Company—Feather River .....		11,000
Stony Creek Valley, Riparian Water Rights .....		3,800
Pump Irrigation from farm wells .....		36,000

TOTAL ACREAGE UNDER IRRIGATION .....	157,955
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Orland Artois Irrigation District .....	18,000
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Other land suitable for irrigation:

West of present irrigation systems .....	71,000
Butte City District, East of Sacramento River .....	25,000
Stony Creek Valley .....	10,700
West of Orland on Stony Creek, below proposed Black Butte Dam .....	15,000

ADDITIONAL ACREAGE SUITABLE FOR IRRIGATION .....	121,700
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Total Acreage in Glenn County .....	880,000
Acres in Farm Land .....	319,000
Acres in Range Land .....	287,000
Acres in National Forest .....	221,568
Acres of Standing Timber .....	86,000
Board Feet of Standing Timber .....	3,000,000,000

Species of merchantable trees: Sugar Pine, Ponderosa (yellow) Pine  
Douglas Fir, White Fir, Red Fir and Incense Cedar.

Sawmills in Operation .....	1
Natural Gas Wells (Proven) .....	12
Number of farms in County .....	1,800

## RECREATIONAL RESOURCES

Lakes .....	Stony Gorge Dam and Packer Lake	
Forest Camp Grounds Improved .....		54
Visitors annually to National Forest areas .....		28,000
Forest Acreage .....		221,568
Elevation in Forest—Highest point .....		7,450
Trout Holding Ponds—Plaskett Meadows—Elevation .....		6,500
Kinds of Fish:		
Mountain streams—Rainbow Trout, Steelhead		
Rivers—Striped Bass, Black Bass, Salmon, Shad, Catfish, Steelhead,		
Rainbow Trout, Sturgeon.		
Lakes—Black Bass, Catfish, Sunfish, Crappie, Bluegill.		
Rivers and Creeks:	(Length in miles through Glenn County)	
Sacramento River .....		40
Black Butte River, a tributary of Eel River .....		7
Stony Creek, main stream .....		68
Stony Creek, north fork .....		12
Briscoe Creek .....		12
Grindstone Creek .....		28
Cold Creek .....		6
Willow Creek .....		37
Butte Creek .....		12
Walker Creek .....		20
Estimated number of wild game:		
Columbia Black Tail Deer .....	10,000	
California Black Bear .....	350	
Wild Ducks .....	1,250,000	
Wild Geese .....	800,000	
Ring-neck Pheasants .....	150,000	
California Valley and Mountain Quail .....	20,000	
Mourning Doves .....	35,000	
Band-tail Pigeons .....	5,000	
Beaver .....	250	
Otter .....	200	
Estimated number of predators:		
Mountain Lions .....	50	
Coyotes .....	3,000	
Bobcats .....	1,500	
Badgers .....	150	
Raccoons .....	15,000	
Skunks .....	9,000	
Mink .....	500	
Grey Fox .....	5,000	
Red Fox .....	200	
Wild Game reported killed by Licensed Hunters and Trappers:		
Deer .....	658	
Mountain Lions .....	1	
Coyotes .....	148	
Muskrats, trapped .....	13,130	
Beaver .....	17	
Mink .....	8	
Raccoon .....	83	
Otter .....	4	
Skunks .....	29	

## COMMENTS

In reviewing the year 1954, a few important points stand out. In general, the total farm income was less than last year. The rice crop was off nearly a dollar a sack. A few other crops sold on lower markets. While the sale of dairy products was on a lower level, the production was the highest on record. In 1940, the production was 1,800,000 pounds. Over a period of 15 years it had increased  $2\frac{1}{2}$  times, or to 5,136,000 in 1954. With the development of new irrigation districts and more land being leveled for irrigation, a much greater expansion of the dairy industry can be expected. In Glenn County, ladino clover seed growing is a very important crop and, as one farmer put it, "Ladino seed paid off more farm mortgages than any other single crop." Over a period of 15 years, 3 years of over-production followed by a reduction in acreage has given ladino seed growing a chance to level off and, as a result, it has again come into its own as nearly 1,900,000 lbs. were harvested in 1954.

Because of improved strains developed recently and improved cultural and harvesting practices, 2,500 acres of Indian or field corn were planted for grain in 1954. One-half was cut for silage and 1,200 acres harvested. It is probable that a considerable additional acreage will be planted in 1955 in the hope of another money crop to help take up the slack of reduced rice and sugar beet acreage. Nation wide there is a surplus of this commodity; however, transportation costs will be eliminated by growing it here.

Beans were another crop which showed a considerable increase in the past year. About 25,000 bags of clean beans were reported raised in the County. Some varieties are Government supported. More acreage may be planted in 1955 as a second crop on excluded rice land after a grain or hay crop has been harvested.

The barley crop was very good in 1954, with more grain produced in the County than at any time since 1949. The price was down some; generally this was one of the most profitable commodities produced this year.

The survey made by the Bureau of Agricultural Statistics, State Department of Agriculture, in the fall of 1954 showed a total of 8,376 acres of fruit and nut trees in the County. The principal acreages were: Almonds, 3,980 acres; prunes, 1,475 acres; English walnuts, 964 acres; olives, 902 acres; and oranges, 630 acres. The balance of 435 acres was miscellaneous planting of various fruits and nuts. The almond crop was short of the last five-year average by nearly one-third. Statewide production was heavy and prices were fairly firm. More prunes were produced in 1954 than at any time within the last fifteen years. In many cases sizes were smaller than average, returns to the grower were fair. The walnut crop was lighter than average with some worm damage; prices were stable. Olive production was very heavy; the price and quality, however, were not encouraging. Oranges were of good quality and size, and the crop was heavy. Fairly good returns were realized by most growers. Of the remaining tree crops, apricots and pears were profitable in 1954.

The dairy and livestock industry, while showing a decline in total money value received over the previous year, had more stability. The market seemed generally firmer at the end of 1954.

Inspection for maturity and quality was made from samples representing approximately 200,000 boxes of commercial lots of apricots, oranges, peaches and pears. Retail outlets for other produce and eggs were inspected at intervals throughout the year. The quality condition and packaging were found in most cases to be excellent.

Seed inspection continues as a major part of the departmental work. The inspection of harvesting and cleaning equipment, the sampling of seed, and sealing and tagging certified lots constitutes most of this work.

Most of the weighing and measuring devices were tested during the year of 1954. Early in January and February, all "store" or counter scales were checked.

## COMMENTS

Continued

Following this, work was directed to livestock scales, and then in May all of the vehicle scales were sealed. The Department has also checked all gasoline retail meters, as well as vehicle tank meters and manifolding systems. The past year also brought an increase in the number of farm holding milk tanks. Twenty-eight tanks were sealed during the year.

Late in May a heavy infestation of grasshoppers developed on the range lands in the western part of the County. They were of economic importance to foothill farmers, and made heavy inroads on safflower and grain fields. Considerable expense was incurred in spraying heavily infested areas in an effort to reduce the infestation. Occasional rains during the summer and early fall were ideal for the deposit of large numbers of eggs. It could be that a heavy infestation of grasshoppers might be expected in 1955; weather conditions will be the deciding factor as to this.

The Department and the cities of Willows and Orland again sprayed the elm and ash trees of the County in an effort to control the ash bug and elm leaf beetle; the results in most cases were satisfactory.

Primary noxious weeds known to exist in the County are Klamath weed, Russian knapweed, white horse nettle, and hoary cress. Continued treatment of these infestations each year has so far reduced the infestations or held them in check to the extent that financial loss to farmers was negligible. Weed control is a never ending battle and must be continued.

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## APIARY INSPECTION

	Apiaries	Colonies
Registered during 1954 .....	181	6,831
Entering California .....	1	2
Entering County .....	46	2,452
Leaving County .....	50	2,870
Moving within the County .....	63	2,042
Inspected during 1954 .....	41	957
Infected with American Foulbrood .....	11	82
Infected with European Foulbrood .....	4	9
Returned for American Foulbrood .....	11	82

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## PLANT QUARANTINE

### INTERSTATE SHIPMENTS:

Number of Shipments Passed .....	459
Number of Plants Passed .....	19,059
Number of Shipments Rejected .....	2
Number of Plants Rejected .....	2

### INTRASTATE SHIPMENTS:

Number of Shipments Passed .....	402
Number of Plants Passed .....	50,449
Number of Shipments Rejected .....	14
Number of Plants Rejected .....	157

## WEIGHTS AND MEASURES REPORT — 1954

TESTED AND SEALED WITHOUT CORRECTION: TOTAL - 1102

- 52 Counter scales
- 21 Spring scales
- 38 Computing scales
- 80 Platform and Dormant scales
- 6 Hopper scales
- 32 Livestock scales
- 24 Vehicle scales
- 3 Person weighers
- 1 Meat Beam and Steelyard
- 326 Weights
- 14 Vehicle tank meters
- 1 Bulk plant meter
- 110 Retail pumps and meters
- 34 Grease meters
- 110 Liquid capacity measures
- 228 Lubricating oil bottles tested for capacity
- 20 Farm holding tanks
- 2 Torsion Balance scales

TESTED AND SEALED AFTER CORRECTION: TOTAL - 163

- 25 Counter scales
- 1 Spring scale
- 2 Computing scales
- 22 Platform and Dormant scales
- 5 Hopper scales
- 5 Livestock scales
- 13 Vehicle scales
- 1 Meat Beam and Steelyard
- 7 Weights
- 16 Vehicle Tank meters
- 2 Bulk plant meters
- 26 Retail pumps and meters
- 30 Lubricating oil bottles tested for capacity
- 8 Farm holding tanks

TESTED AND FOUND TO BE OUT OF ORDER: TOTAL - 71

- 10 Counter scales
- 3 Spring scales
- 7 Computing scales
- 8 Platform and Dormant scales
- 9 Livestock scales
- 1 Meat Beam and Steelyard
- 1 Weight
- 1 Vehicle tank meter
- 24 Retail pumps and meters
- 1 Grease meter
- 6 Farm holding tanks

EQUIPMENT CONDEMNED: TOTAL - 4

- 4 Weights

Packages or containers checked: 8 light, 173 correct.

Signs inspected: 381 correct, 42 corrected.

Establishments visited during 1954: 394.

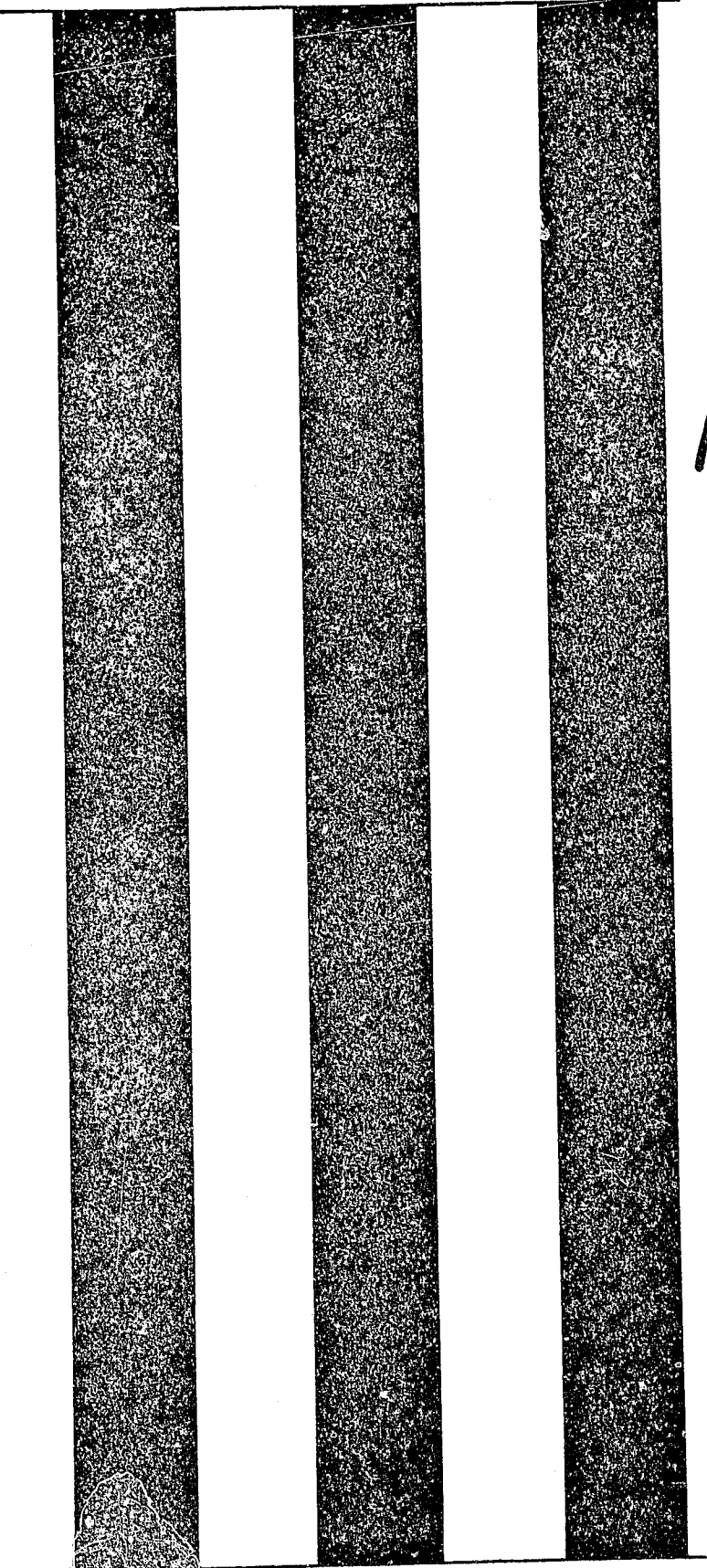
Certificates of inspection issued: 269.

RETURN POSTAGE GUARANTEED

**P. V. HARRIGAN**

Agricultural Commissioner  
Willows, California

University Library  
University of California  
Davis, California

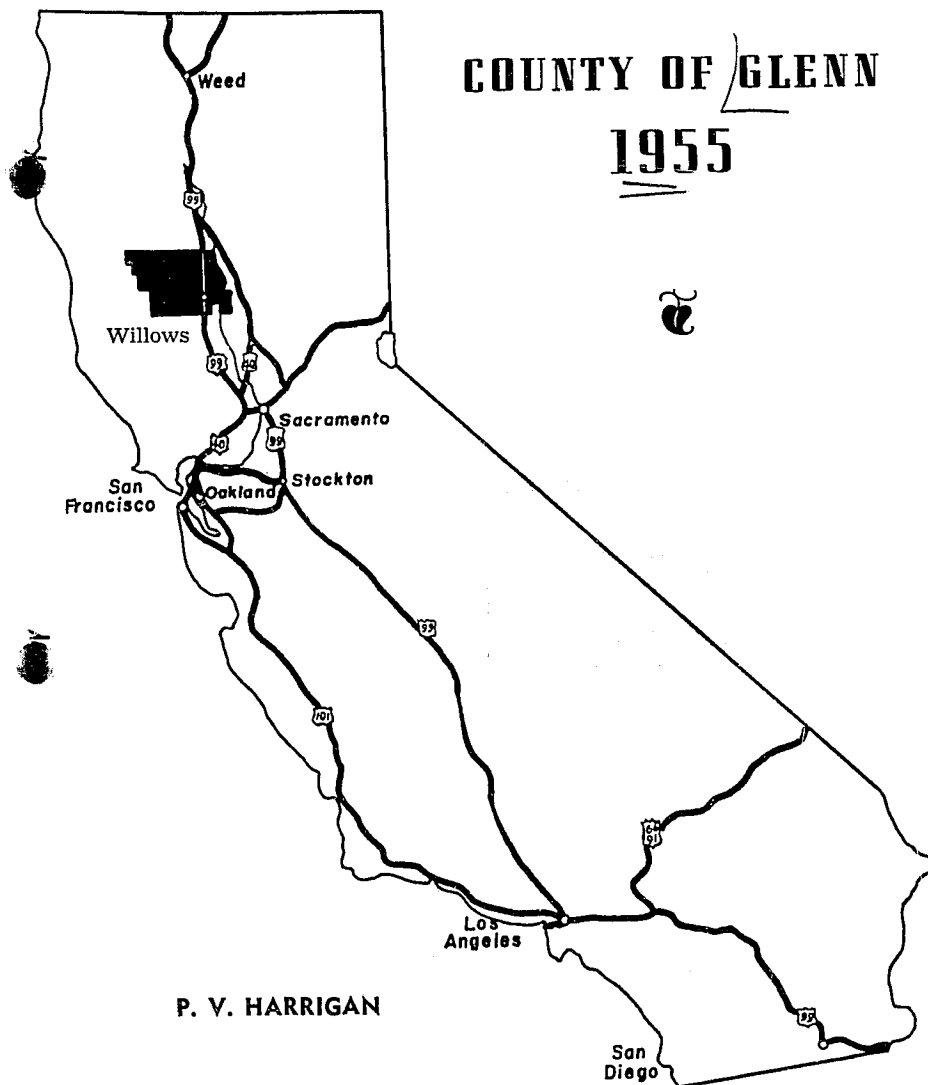
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1955

# ANNUAL REPORT

Agricultural Commissioner

COUNTY OF GLENN  
1955





**GLENN COUNTY DEPARTMENT OF AGRICULTURE**  
WILLOWS, CALIFORNIA

**ANNUAL REPORT**

For the  
Year Ending December 31, 1955

**P. V. HARRIGAN**

Agricultural Commissioner  
and  
Sealer of Weights and Measures

**BOARD OF SUPERVISORS**

George J. Otterson, Chairman	
George S. Lewis	George E. (Nip) Roberts
Marshall Lane	W. L. Linville

**COUNTY OF GLENN**  
**DEPARTMENT OF AGRICULTURE**

Memorial Building, Willows

P. V. Harrigan  
Agricultural Commissioner  
Sealer of Weights and Measures

Telephones:  
Willows 240  
Orland UNDERhill 5-2264

TO: W. C. JACOBSEN, Director

STATE DEPARTMENT OF AGRICULTURE,

and

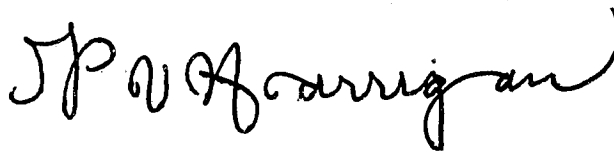
THE HONORABLE BOARD OF SUPERVISORS:

Section 65.5 of the California Agricultural Code requires that the Agricultural Commissioner compile a report covering conditions, acreage, production, and value of the agricultural products of his county; and, Section 65 requires that the Commissioner keep a record of his official acts and make an annual report to the Director on the conditions of the agricultural interests in his county; and, further, Section 30 indicates that the Agricultural Department shall promote and protect the agricultural industry of the state.

This is the nineteenth annual report published by this department. The members of the department have made every effort to make this report as accurate as possible by checking the figures with many sources of reliable information.

I wish to express my sincere appreciation to all those who have cooperated in helping to make this report possible.

Respectfully submitted,



P. V. HARRIGAN  
Agricultural Commissioner

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## PERSONNEL

P. V. Harrigan .....	Agricultural Commissioner
H. I. Tillotson, Jr. ....	Deputy Sealer and Statistics
Elroy Eberwein .....	Deputy Sealer and Seed Inspector
F. W. Irland .....	Pest Control and Pest Control Operators
Charles Cordill .....	Plant Quarantine and Standardization
Harry McCracken .....	Rodent Control
Charles Lombard, Jr. ....	Weed Control
Ellen O. Marzolf .....	Sr. Stenographer-Clerk
Viola M. Davis .....	Jr. Stenographer-Clerk

## OFFICES

Memorial Building	County Building
Willows, California	Orland, California

## TELEPHONE NUMBERS

Willows — 240

Orland — UNderhill 5-2264

# **PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS** **GLENN COUNTY, CALIFORNIA — 1955**

FIELD CROPS	Production	Values	Totals
Rice .....	1,500,000 cwt.	\$ 6,750,000	
Barley .....	600,000 cwt.	1,500,000	
Wheat .....	25,000 cwt.	87,000	
Oats .....	6,000 cwt.	20,000	
Milo .....	110,000 cwt.	363,000	
Safflower .....	64,000 cwt.	240,000	
Beans .....	11,000 cwt.	77,000	
Field Corn .....	260,000 cwt.	780,000	
Sugar Beets .....	13,000 tons	190,000	
			\$10,007,000
FORAGE			
Silage Corn .....	25,000 tons	75,000	
Alfalfa Hay .....	70,000 tons	1,750,000	
Clover Hay .....	8,000 tons	90,000	
Mixed Hay .....	12,500 tons	200,000	
			2,215,000
PASTURE			
Irrigated Pasture .....	60,000 acres	2,000,000	
Range .....	250,000 acres	250,000	
Stubble .....	90,000 acres	100,000	
			2,350,000
SEED CROPS			
Ladino Clover .....	3,002,000 lbs.	1,622,000	
Other Clover .....	82,000 lbs.	30,000	
Sudan .....	2,040,000 lbs.	122,000	
Alfalfa .....	244,000 lbs.	51,000	
Other Seed .....	187,000 lbs.	12,000	
			1,837,000
ORCHARD CROPS			
Almonds .....	1,150,000 lbs.	460,000	
Apricots .....	950,000 lbs.	47,000	
Olives .....	1,350,000 lbs.	160,000	
Oranges .....	200,000 boxes	400,000	
Peaches .....	800,000 lbs.	32,000	
Prunes .....	4,600,000 lbs.	759,000	
Pears .....	6,087,000 lbs.	241,000	
Walnuts, English .....	700,000 lbs.	210,000	
Walnuts, Black .....	100,000 lbs.	4,000	
			2,313,000
POULTRY			
Poultry, live .....	130,000 lbs.	25,000	
Eggs .....	235,000 doz.	94,000	
Turkeys, live .....	60,000 head	360,000	
Turkey Eggs .....	376,000 each	117,000	
			596,000

## PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS

(Continued)

LIVESTOCK	Production	Values	Totals
Market Milk fat .....	1,160,000 lbs.	\$ 1,241,000	
Mfg. Milk fat .....	4,325,000 lbs.	3,590,000	
Fat Cattle .....	18,000 head	2,600,000	
Cattle .....	14,000 head	1,000,000	
Calves .....	13,000 head	325,000	
By-products .....		50,000	
Sheep .....	25,000 head	125,000	
Lambs .....	135,000 head	2,295,000	
Wool .....	1,260,000 lbs.	517,000	
Pelts .....	4,000 each	12,000	
Hogs .....	22,000 head	700,000	
			\$12,455,000
APICULTURE			
Package Bees .....	32,000 lbs.	32,000	
Queens .....	3,500 each	4,000	
Honey .....	850,000 lbs.	93,000	
Eeeswax .....	10,000 lbs.	5,000	
Pollination .....		12,000	
			146,000
GOVERNMENT PAYMENTS			
Agricultural Conservation		45,000	
			45,000
FOREST PRODUCTS			
Logs .....	12,000,000 bd. feet	350,000	
Milled Lumber .....	25,000,000 bd. feet	2,250,000	
Christmas Trees .....	5,000 trees	6,000	
			2,606,000
GRAND TOTAL AGRICULTURAL INCOME - 1955 .....			\$34,570,000

### AGRICULTURAL INCOME TOTALS FOR 17 YEARS

Year	Amount
1939 .....	\$ 7,698,200
1940 .....	8,206,700
1941 .....	10,587,500
1942 .....	11,973,200
1943 .....	13,824,600
1944 .....	19,047,000
1945 .....	18,577,000
1946 .....	22,260,000
1947 .....	27,935,000
1948 .....	27,070,000
1949 .....	24,820,000
1950 .....	30,637,000
1951 .....	39,005,000
1952 .....	42,473,700
1953 .....	33,267,000
1954 .....	31,364,000
1955 .....	34,570,000

SEVENTEEN YEAR TOTAL .....\$403,315,900

## AGRICULTURAL RESOURCES

FIELD CROPS	Acreage	Totals
Alfalfa .....	14,500	
Barley .....	56,000	
Beans .....	800	
Corn .....		
Grain .....	7,500	
Silage .....	2,000	
Hay, Mixed .....	10,000	
Irrigated Pastures .....	60,000	
Milo .....	5,500	
Oats .....	1,000	
Rice .....	37,765	
Safflower .....	9,000	
Sudan .....	1,800	
Sugar Beets .....	775	
Wheat .....	3,203	
		209,843

### ORCHARD CROPS

Almonds .....	3,900
Apricots .....	160
Citrus .....	630
Figs .....	85
Grapes .....	16
Miscellaneous Orchard Crops .....	15
Olives .....	902
Peaches .....	90
Pears .....	169
Prunes .....	1,475
Walnuts, English .....	964

8,406

### LIVESTOCK AND POULTRY

	Head
Cattle, Beef .....	18,000
Cattle, Dairy .....	26,000
Hogs .....	6,000
Horses and Mules .....	300
Sheep .....	140,000
Poultry and Turkey Breeding Stock .....	24,000

214,300

### APIARY

Bees, Registered—(186 Apiaries) .....	8,394
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8,394

## NATURAL ECONOMIC RESOURCES

Water Resources: Sacramento River, Feather River, Stony Creek, Grindstone Creek and Butte Creek.

Water Storage: Shasta Dam on Sacramento River; Stony Gorge Dam on Stony Creek; East Park Dam on Stony Creek.

Irrigation Districts in Operation:	Acres
Orland, U.S. Reclamation District—Stony Creek .....	20,000
Glenn-Colusa Irrigation District—Sacramento River .....	54,435
Jacinto Irrigation District—Sacramento River .....	12,000
Provident Irrigation District—Sacramento River .....	12,520
Princeton-Codora-Glenn—Sacramento River .....	7,000
Willow Creek Mutual Water Company—Sacramento River .....	1,000
Loam Ridge Irrigation District—Pumps .....	1,200
Western Canal Company—Feather River .....	11,000
Stony Creek Valley, Riparian Water Rights .....	3,800
Pump Irrigation from farm wells .....	36,000
<b>TOTAL ACREAGE UNDER IRRIGATION .....</b>	<b>157,955</b>
Orland-Artois Irrigation District .....	18,000
<b>Other land suitable for irrigation:</b>	
West of present irrigation systems .....	73,000
Butte City District, East of Sacramento River .....	25,000
Stony Creek Valley .....	4,436
West of Orland on Stony Creek, below proposed Black Butte Dam .....	15,000
<b>ADDITIONAL ACREAGE SUITABLE FOR IRRIGATION .....</b>	<b>115,436</b>
<b>Total Acreage in Glenn County .....</b>	<b>880,000</b>
Acres in Farm Land .....	319,000
Acres in Range Land .....	287,000
Acres in National Forest .....	221,568
Acres of Standing Timber .....	86,000
Board Feet of Standing Timber .....	3,000,000,000
<b>Species of merchantable trees: Sugar Pine, Ponderosa (yellow) Pine, Douglas Fir, White Fir, Red Fir and Incense Cedar.</b>	
Sawmills in Operation .....	1
Natural Gas Wells (Proven) .....	29
Producing Wells .....	11
Number of farms in County .....	1,800

# FIFTEEN YEAR PRODUCTION AND VALUE

Year	Rice Cwt.	Rice Value	Barley Cwt.	Barley Value	Ladino Seed Pounds	adhi Seed Value
1941	545,600	\$ 1,271,000	392,400	\$ 575,000	142,000	\$ 35,000
1942	361,940	1,230,600	258,300	407,900	141,000	35,000
1943	394,000	1,300,000	415,000	1,050,000	118,000	30,000
1944	850,000	2,678,000	701,000	1,658,000	325,000	39,000
1945	690,000	2,242,500	675,000	1,671,000	350,000	25,000
1946	1,050,000	4,500,000	700,000	2,233,000	440,000	60,000
1947	1,168,000	7,010,000	680,000	2,470,000	375,000	56,000
1948	840,000	4,200,000	1,112,000	3,172,000	670,000	1,006,000
1949	1,219,000	4,023,000	792,000	2,112,000	800,000	1,144,000
1950	900,000	4,050,000	651,000	1,510,000	2,280,000	2,736,000
1951	1,060,000	5,088,000	500,000	1,550,000	3,200,000	3,765,000
1952	1,500,000	9,000,000	500,000	1,700,000	4,650,000	4,500,000
1953	1,428,000	7,500,000	650,000	1,850,000	2,865,000	1,060,000
1954	1,400,000	6,300,000	750,000	1,800,000	1,915,000	1,053,000
1955	1,500,000	6,750,000	600,000	1,500,000	3,002,000	1,622,000
TOTALS	14,906,540	\$67,143,100	9,376,700	\$25,258,900	21,273,000	\$1,637,000

Year	Prunes Pounds	Prunes Value	Olives Pounds	Olives Value	Oranges Boxes	Orang Value
1941	2,709,000	\$ 95,000	4,018,000	\$ 285,000	58,400	\$ 133,000
1942	2,069,000	145,000	1,601,000	228,000	64,500	258,000
1943	4,056,000	335,000	3,874,000	846,000	85,000	340,000
1944	4,864,000	487,000	3,858,000	849,000	115,000	431,500
1945	6,000,000	600,000	2,690,000	464,000	85,000	340,000
1946	4,500,000	540,000	1,573,000	201,500	120,000	390,000
1947	7,000,000	500,000	4,479,000	444,000	78,000	187,000
1948	6,000,000	420,000	4,181,000	324,000	45,000	225,000
1949	5,500,000	385,000	1,763,000	190,000	86,000	301,000
1950	3,300,000	418,000	3,123,000	558,000	73,000	234,000
1951	5,544,000	612,000	4,000,000	812,000	105,000	367,500
1952	5,750,000	630,000	3,650,000	580,000	86,000	350,000
1953	4,550,000	550,000	1,250,000	112,000	125,000	625,000
1954	7,800,000	877,000	5,000,000	375,000	120,000	490,000
1955	4,600,000	759,000	1,350,000	160,000	100,000	400,000
TOTALS	74,242,000	\$7,353,000	45,411,000	\$6,428,500	1,350,900	\$5,072,000

Year	Hogs Head	Hogs Value	Lambs & Sheep Marketed Head	Wool Marketed Pounds	Sheep & Wool Value	Turkeys Pounds
1941	34,900	\$ 636,000	111,250	1,477,500	\$ 1,402,000	1,871,000
1942	28,900	749,000	116,200	1,550,000	2,018,000	1,358,000
1943	34,000	995,000	109,000	1,439,000	1,645,500	934,000
1944	41,000	1,104,000	139,000	1,500,000	2,059,000	1,975,000
1945	17,500	612,500	141,000	1,160,000	2,262,000	2,382,000
1946	16,500	725,000	121,000	1,372,000	2,248,000	1,432,000
1947	15,000	900,000	127,500	1,000,000	2,490,000	785,000
1948	20,000	950,000	112,000	1,000,000	2,415,000	500,000
1949	25,000	1,125,000	102,000	840,000	2,388,000	550,000
1950	28,000	1,175,000	110,000	1,000,000	3,526,500	1,265,000
1951	47,500	2,000,000	130,000	1,375,000	4,263,000	1,250,000
1952	52,000	1,672,000	169,000	1,630,000	4,753,000	1,325,000
1953	30,000	994,000	163,000	1,200,000	3,397,500	850,000
1954	20,000	720,000	150,000	1,200,000	3,140,000	1,400,000
1955	22,000	700,000	160,000	1,260,000	2,937,000	1,200,000
TOTALS	432,300	\$15,037,500	1,960,950	19,703,500	\$40,944,500	19,127,000



# VALUE OF PRINCIPAL COMMODITIES

	Other Field & Seed Crops Cwt.	Other Field & Seed Crops Value	Almonds Pounds	Almonds Value	Walnuts Pounds	Walnuts Value
000	165,100	\$ 282,600	471,400	\$ 170,000	508,500	\$ 37,100
000	226,300	282,900	1,999,000	480,000	516,800	39,000
000	102,300	253,000	1,415,500	481,000	895,500	140,000
000	72,900	179,500	2,700,000	918,000	558,000	69,000
000	96,800	309,000	1,900,000	741,000	542,000	89,600
000	117,900	300,000	2,000,000	744,000	492,000	96,500
000	126,600	426,500	2,000,000	680,000	587,000	90,500
000	129,100	554,300	1,250,000	286,000	550,000	85,200
000	192,400	500,800	3,000,000	650,000	1,237,000	159,000
000	91,200	406,600	3,500,000	1,085,000	928,500	140,500
000	65,600	360,500	3,500,000	1,050,000	1,165,500	211,500
000	111,700	578,300	3,750,000	1,025,000	1,085,000	199,000
000	222,900	895,000	3,300,000	780,000	920,000	155,000
000	267,500	1,204,500	2,225,000	587,000	875,000	123,000
000	502,000	2,842,000	1,150,000	460,000	800,000	214,000
100	2,490,300	\$9,375,500	34,160,900	\$10,137,000	11,660,800	\$1,848,900

	Other Fruit Fresh & Dried Pounds	Other Fruit Fresh & Dried Value	Butterfat Pounds	Butterfat Value	Cattle & Calves Marketed Head	Cattle & Calves Value
00	4,660,500	\$ 109,000	2,777,000	\$ 1,388,000	13,400	\$ 766,400
00	6,160,000	491,000	2,668,000	1,607,000	12,100	848,300
00	6,723,000	535,000	2,685,000	2,084,000	16,500	990,000
00	6,645,000	692,500	3,034,000	2,503,000	23,500	1,395,000
00	4,649,000	328,000	3,343,500	2,841,000	24,500	1,636,500
00	9,763,000	839,000	2,973,000	2,902,000	23,500	1,695,000
00	6,072,000	390,000	3,400,000	3,260,000	29,000	3,240,000
00	2,382,000	119,000	3,690,000	4,000,500	31,500	4,770,000
00	6,330,000	270,000	3,621,000	3,032,500	43,500	4,134,500
00	4,177,000	295,000	3,711,000	3,711,000	41,300	7,000,500
00	7,562,000	440,000	3,807,000	3,970,000	44,200	8,294,500
00	9,112,000	510,000	3,875,000	4,601,000	41,500	5,540,000
00	5,700,000	376,000	4,802,000	5,010,000	43,500	3,755,000
00	7,450,000	310,000	5,136,000	4,402,000	45,000	3,550,000
00	7,837,000	320,000	5,485,000	4,831,000	45,000	3,925,000
00	95,222,500	\$6,024,500	55,007,500	\$50,143,000	478,000	\$51,540,700

Turkey Eggs Each	Turkeys & Eggs Value	Pounds Packaged Bees	Honey Tons	Bees & Honey Value	Lumber & Logs Bd. Feet	Lumber & Logs Value
219,000	\$ 509,000	19,200	165	\$ 30,000		
204,000	503,000	33,300	216	83,000		
486,000	415,000	37,000	246	86,000		
642,000	1,002,000	48,000	178	166,500		
841,000	1,205,000	30,000	114	76,500	500,000	\$ 20,000
635,000	784,000	37,500	220	164,000	1,400,000	100,000
315,000	409,000	39,000	137	105,000	500,000	50,000
75,000	300,000	38,500	238	131,000	5,000,000	500,000
320,000	332,000	32,000	244	97,000	1,800,000	122,000
400,000	547,000	25,000	144	63,500	7,000,000	240,000
351,000	686,000	24,500	462	123,000	29,000,000	1,067,500
440,000	697,000	26,475	450	131,500	23,000,000	1,647,500
290,000	433,000	25,000	325	121,500	27,000,000	1,956,000
317,000	599,000	25,000	325	95,000	32,000,000	2,000,000
376,000	477,000	32,000	425	125,000	37,000,000	2,600,000
5,911,000	\$8,898,000	472,475	3,889	\$1,598,500	164,200,000	\$10,303,000

## RECREATIONAL RESOURCES

Lakes .....	Stony Gorge Dam and Packer Lake	
Forest Camp Grounds Improved .....		54
Visitors annually to National Forest areas .....		28,000
Forest Acreage .....		221,568
Elevation in Forest—Highest point .....		7,450
Trout Holding Ponds—Plaskett Meadows—Elevation .....		6,500
Kinds of Fish:		
Mountain streams—Rainbow Trout, Steelhead		
Rivers—Striped Bass, Black Bass, Salmon, Shad, Catfish, Steelhead,		
Rainbow Trout, Sturgeon.		
Lakes—Black Bass, Catfish, Sunfish, Crappie, Bluegill.		
Rivers and Creeks:	(Length in miles through Glenn County)	
Sacramento River .....		40
Black Butte River, a tributary of Eel River .....		7
Stony Creek, main stream .....		68
Stony Creek, north fork .....		12
Briscoe Creek .....		12
Grindstone Creek .....		28
Cold Creek .....		6
Willow Creek .....		37
Butte Creek .....		12
Walker Creek .....		20
Estimated number of wild game:		
Columbia Black Tail Deer .....		12,000
California Black Bear .....		350
Wild Ducks .....		800,000
Wild Geese .....		600,000
Ring-neck Pheasants .....		100,000
California Valley and Mountain Quail .....		25,000
Mourning Doves .....		35,000
Band-tail Pigeons .....		5,000
Beaver .....		250
Otter .....		200
Estimated number of predators:		
Mountain Lions .....		50
Coyotes .....		4,500
Bobcats .....		1,750
Badgers .....		150
Raccoons .....		15,000
Skunks .....		10,000
Mink .....		500
Grey Fox .....		6,000
Red Fox .....		200
Wild Game reported killed by Licensed Hunters and Trappers:		
Deer .....		758
Mountain Lions .....		6
Coyotes .....		144
Muskrats, trapped .....		15,000
Beaver .....		17
Mink .....		30
Raccoon .....		90
Otter .....		5
Skunks .....		30

# ANNUAL RAINFALL AT WILLOWS, CALIFORNIA

## 77 YEARS — 1878-1955

Year	Inches	Year	Inches	Year	Inches
1878-1879.....	7.01	1904-1905.....	24.55	1930-1931.....	9.85
1879-1880.....	13.96	1905-1906.....	19.85	1931-1932.....	15.01
1880-1881.....	13.85	1906-1907.....	17.88	1932-1933.....	7.79
1881-1882.....	8.28	1907-1908.....	13.44	1933-1934.....	15.65
1882-1883.....	8.45	1908-1909.....	22.09	1934-1935.....	19.62
1883-1884.....	18.84	1909-1910.....	14.36	1935-1936.....	17.48
1884-1885.....	7.80	1910-1911.....	17.75	1936-1937.....	16.40
1885-1886.....	19.15	1911-1912.....	11.26	1937-1938.....	26.28
1886-1887.....	8.07	1912-1913.....	13.18	1938-1939.....	6.82
1887-1888.....	8.97	1913-1914.....	29.18	1939-1940.....	23.21
1888-1889.....	10.30	1914-1915.....	27.19	1940-1941.....	40.50
1889-1890.....	29.94	1915-1916.....	18.11	1941-1942.....	24.07
1890-1891.....	19.01	1916-1917.....	11.43	1942-1943.....	15.68
1891-1892.....	18.82	1917-1918.....	11.90	1943-1944.....	13.52
1892-1893.....	27.30	1918-1919.....	12.90	1944-1945.....	16.94
1893-1894.....	11.15	1919-1920.....	7.70	1945-1946.....	14.72
1894-1895.....	26.04	1920-1921.....	21.28	1946-1947.....	12.28
1895-1896.....	22.18	1921-1922.....	13.44	1947-1948.....	19.56
1896-1897.....	18.82	1922-1923.....	16.81	1948-1949.....	15.59
1897-1898.....	6.58	1923-1924.....	8.86	1949-1950.....	10.32
1898-1899.....	13.05	1924-1925.....	25.99	1950-1951.....	17.48
1899-1900.....	15.23	1925-1926.....	18.44	1951-1952.....	23.50
1900-1901.....	17.49	1926-1927.....	25.99	1952-1953.....	19.70
1901-1902.....	21.67	1927-1928.....	17.54	1953-1954.....	16.64
1902-1903.....	17.10	1928-1929.....	11.46	1954-1955.....	14.57
1903-1904.....	20.28	1929-1930.....	16.37		

## CHEMICALS USED BY THIS DEPARTMENT

### INSECT CONTROL

Aramite .....	3 Pints
Benzene Hexachloride (BHC) .....	30 Pounds
Bordeaux .....	47 Pounds
Chlordane, 72% .....	5 Gallons
Chlordane dust, 5% .....	600 Pounds
Cyanogas .....	30 Pounds
DDT .....	16 Gallons
DDT (powder) .....	171 Pounds
Dieldrin .....	74 Quarts
Dieldrin dust .....	207 Pounds
Dieldrin-Chlordane treated bran .....	2,200 Pounds
Kerosene .....	273 Gallons
Lindane .....	108 Pounds
Malathion .....	46 Quarts
Malathion (wetable powder) .....	404 Pounds
Naphthalene flakes .....	24 Pounds
Methyl bromide .....	2,150 c. c.
Methyl bromide gas .....	65 Pounds
Wetable sulphur .....	200 Pounds
Zinc Sulphate .....	110 Pounds
Medium spray oil .....	250 Gallons
Spreader .....	336 Pounds

### WEED CONTROL

Borax .....	2,200 Pounds
CMU .....	332 Pounds
Dalapon .....	310 Pounds
Diesel oil .....	1,626 Gallons
Pentachlorophenol .....	12 Gallons
Polybor Chlorate .....	4,050 Pounds
Sinox .....	242 Gallons
Sodium Chlorate .....	3,160 Pounds
Spreader .....	300 Pounds
Summer spray oil .....	323 Gallons
2,4,5-T .....	5 Gallons
2,4-D .....	8 Barrels

### RODENT CONTROL

Strychnine-treated rice .....	300 Pounds
Strychnine-treated barley .....	5,591 Pounds
Strychnine-treated milo .....	81 Pounds
Zinc-Phosphide-treated barley .....	1,055 Pounds
"1080" liquid bait .....	10 Gallons
"1080" treated bait .....	264 Pounds
Warfarin bait .....	5,139 Pounds
Carbon Bisulphide .....	18 Gallons
Strychnine alkaloid .....	37 Ounces
Cyanogas .....	24 Pounds
Pivalyn .....	35 Packets

**The Following Table Was Compiled From Commercial Pest Control Operators' Reports And From Permits Issued To Private Farm And Orchard Operators.**

284 Permits were issued to use hazardous herbicides and insecticides in 1955.

Crop	Acreage Treated By Aircraft		Acreage Treated By Ground Rig		Total Acreage Treated
	Herbicides	Insecticides	Herbicides	Insecticides	
FIELD CROPS:					
Rice .....	26,927	2,841	52		29,820
Corn .....	381	1,247	391		2,019
Barley .....	4,363		2,955		7,318
Milo .....	55	200	30	175	460
Alfalfa .....		665			665
Ladino .....	875	4,894	1,794	1,320	8,883
Other Clovers .....		215	29	110	354
Sudan .....		188	382		570
Melons .....		60			60
Beans .....		511		50	561
Other Grains .....	135	50	95		280
FRUITS & NUTS:					
Almonds .....				331	331
Walnuts .....				694	694
Peaches, Prunes, & Apricots .....		146		226	372
Oranges .....		10		40	50
Olives .....				40	40
MISCELLANEOUS:					
Weeds & Summer Fallow .....	400		1,485		1,885
TOTALS .....	33,136	11,027	7,213	2,986	54,362

New legislation requires that a permit must be obtained from the Agricultural Commissioner's office before certain pesticides can be purchased. (Section 1080 and 1080.1 Agricultural Code.) The following is a list of materials for which a permit is necessary.

1. Pest control materials containing calcium arsenate, standard lead arsenate or copper acetoarsenite (Paris Green), in dust form.
2. Pest control materials containing tetraethyl pyrophosphate (TEPP).
3. Pest control materials containing parathion.
4. Pest control materials containing ethyl-para-nitrophenyl thionebenzene phosphate (EPN).
5. Pest control materials containing octamethyl pyrophosphoramide (OMPA).
6. Pest control materials containing 0-0-diethyl-0-2 (ethylmercapto)-ethyl thio-phosphate (systox) (demeton).
7. 2,4-dichlorophenoxyacetic acid (2,4-D).
8. 2,4,5-trichlorophenoxyacetic acid (2,4,5-T).
9. 2-methyl-4-chlorophenoxyacetic acid (MCP).
10. 2,4-dichlorophenoxypropionic acid (2,4-DP).
11. 2,4,5-trichlorophenoxypropionic acid (Silvex).

## COMMENTS

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The \$34,570,000 income to Glenn County farmers for the year 1955 was \$3,200,000 more than in 1954.

Crops for the most part were about average in yield. Orchard crops have continued in a very enviable position, with prunes, almonds, and oranges setting the pace for the most tree crop returns. The income from produce sold was satisfactory, and in a few instances, prices were better, particularly where frost thinned the tree crops out over a large section of the State; and too, more money was returned than if a full crop had been harvested.

Under restricted planting, there was a reduction of 17,000 acres in the planted rice acreage in 1955. This restraint prevented a tremendous surplus of rice from being grown and put on an already over-burdened market.

Ladino clover led the seed crops with over 3 million pounds harvested this year. This valuable crop is also the mainstay in supplying most of the dairy, sheep, and other stock with green pasture feed.

This past year, dairying has taken an upward trend and made some very remarkable advances. A few of the forward features are that Glenn County with its large acreage of clover pasture, cheap irrigation water, and a herd selection and improvement program tends to focus the attention of market milk suppliers to this area. A great many dairymen have installed pipe-line milkers and large refrigerated milk-holding tanks to hold Grade-A milk until it is picked up by refrigerated tank trucks and taken to metropolitan distributing plants for bottling. Greatly improved roads have helped to reduce the time from farm to distant markets.

The harvesting of forest products in recent years from the 86,000 acres of standing timber has taken on a great deal of action. Most of the timber is fully matured, but earlier cutting of the large timber reserve was delayed for years due principally to the lack of suitable roads into the almost inaccessible timbered area.

Yellow field corn and Safflower are two new crops that seem destined to continue as a profitable addition to the farmer's choice of what to grow.

A new source of income is spreading rapidly. It is easy to harvest and can probably be classed as the farmer's only armchair crop. If you haven't guessed it already—well, it is the 29 proven natural gas wells in the county—and it is rumored that this activity is just in the beginning. From the Beehive Bend along the Sacramento River, drilling has rapidly spread out over a large part of the eastern farming section of the county.

## WEIGHTS AND MEASURES REPORT — 1955

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### TESTED AND SEALED WITHOUT CORRECTION: TOTAL - 472

- 27 Counter Scales
- 10 Spring Scales
- 49 Platform and Dormant Scales
- 4 Hopper Scales
- 24 Livestock Scales
- 26 Vehicle Scales
- 200 Weights
- 13 Vehicle Tank Meters
- 2 Bulk Plant Meters
- 55 Retail Pumps and Meters
- 13 Grease Meters
- 19 Liquid Capacity Measures
- 27 Lubricating Oil Bottles Tested for Capacity
- 1 Farm Holding Tank

### TESTED AND SEALED AFTER CORRECTION: TOTAL — 107

- 4 Counter Scales
- 1 Computing Scale
- 27 Platform and Dormant Scales
- 1 Hopper Scale
- 24 Vehicle Scales
- 8 Weights
- 10 Vehicle Tank Meters
- 1 Bulk Plant Meter
- 11 Retail Pumps and Meters
- 1 Lubricating Oil Bottle Tested for Capacity
- 1 Farm Holding Tank

### TESTED AND FOUND TO BE OUT OF ORDER: TOTAL — 46

- 3 Counter Scales
- 11 Platform and Dormant Scales
- 5 Livestock Scales
- 3 Vehicle Scales
- 1 Meat Beam and Steelyard
- 13 Weights
- 3 Vehicle Tank Meters
- 7 Retail Pumps and Meters

Signs Inspected: 134 correct, 16 corrected.  
Establishments visited during 1955: 240.  
Certificates of inspection issued: 185.

## APIARY INSPECTION

	Apiaries	Colonies
Registered during 1955 .....	186	8,394
Entering California .....	1	22
Entering County .....	44	3,449
Leaving County .....	45	2,736
Moving within the County .....	54	2,089
Inspected during 1955 .....	39	1,232
Infected with American Foulbrood .....	8	24
Burned for American Foulbrood .....	8	24

## PLANT QUARANTINE

### INTERSTATE SHIPMENTS:

Number of Shipments Passed .....	507
Number of Plants Passed .....	16,610
Number of Shipments Rejected .....	3
Number of Plants Rejected .....	34

### INTRASTATE SHIPMENTS:

Number of Shipments Passed .....	325
Number of Plants Passed .....	34,578
Number of Shipments Rejected .....	4
Number of Plants Rejected .....	39



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**P. V. HARRIGAN**  
Agricultural Commissioner  
Willows, California

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1956

# ANNUAL REPORT

Agricultural Commissioner



**GLENN COUNTY DEPARTMENT OF AGRICULTURE**  
WILLOWS, CALIFORNIA

**ANNUAL REPORT**

For the  
Year Ending December 31, 1956

**P. V. HARRIGAN**

Agricultural Commissioner  
and  
Sealer of Weights and Measures

**BOARD OF SUPERVISORS**

George E. (Nip) Roberts, Chairman	
George S. Lewis	George J. Otterson
Marshall Lane	W. L. Linville

**COUNTY OF GLENN**  
**DEPARTMENT OF AGRICULTURE**

Memorial Building, Willows

P. V. Harrigan  
Agricultural Commissioner  
Sealer of Weights and Measures

Telephones:  
Willows 240  
Orland UNDERhill 5-2264

W. C. Jacobson, Director  
State Department of Agriculture,  
and  
The Honorable Board of Supervisors,  
County of Glenn

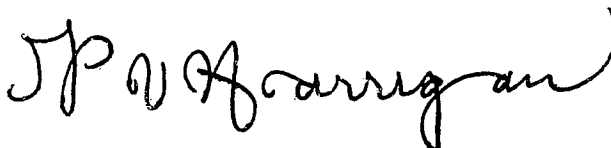
Gentlemen:

Section 65.5 of the California Agricultural Code requires that the Agricultural Commissioner compile a report covering conditions, acreage, production and value of the agricultural products of his county; and, Section 65 requires that the Commissioner keep a record of his official acts and make an annual report to the Director on the conditions of the agricultural interests in his county; and, further, Section 30 indicates that the Agricultural Department shall promote and protect the agricultural industry of the state.

This is the twentieth annual report published by this department. The members of the department have made every effort to make this report as accurate as possible by checking the figures with many sources of reliable information.

I wish to express my sincere appreciation to all those who have cooperated in helping to make this report possible.

Respectfully submitted,



P. V. HARRIGAN  
Agricultural Commissioner

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## PERSONNEL

P. V. Harrigan .....	Agricultural Commissioner
H. I. Tillotson, Jr. ....	Deputy Sealer and Statistics
Elroy Eberwein .....	Deputy Sealer and Seed Inspector
Charles Cordill .....	Pest Control, Plant Quarantine & Standardization
Harry McCracken .....	Pest Control Operators and Rodent Control
Charles Lombard, Jr. ....	Weed Control
D. N. Stockton .....	(Part-time) Apiary Inspector
Ellen O. Marzolf .....	Sr. Stenographer-Clerk
Margie Ellis .....	Jr. Stenographer-Clerk

## OFFICES

Memorial Building	County Building
Willows, California	Orland, California

## TELEPHONE NUMBERS

Willows — 240

Orland — UNderhill 5-2264

# PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS

## GLENN COUNTY, CALIFORNIA — 1956

FIELD CROPS	Production	Values	Totals
Rice .....	1,500,000 cwt.	\$ 6,398,000	
Barley .....	750,000 cwt.	1,690,000	
Wheat .....	45,000 cwt.	157,000	
Oats .....	8,000 cwt.	20,000	
Milo .....	100,000 cwt.	275,000	
Safflower ..	103,600 cwt.	388,000	
Beans .....	11,400 cwt.	85,000	
Field Corn ..	192,000 cwt.	547,000	
Sugar Beets ..	14,000 Tons	174,000	
			\$9,734,000
FORAGE			
Silage Corn ..	25,000 Tons	175,000	
Alfalfa Hay ..	66,000 Tons	1,650,000	
Clover Hay ..	10,000 Tons	160,000	
Mixed Hay ..	15,000 Tons	300,000	
			2,285,000
PASTURE			
Irrigated Pasture ..	61,000 Acres	2,700,000	
Range .....	250,000 Acres	315,000	
Stubble .....	100,000 Acres	125,000	
			3,140,000
SEED CROPS			
Ladino Clover ..	3,050,000 lbs.	1,525,000	
Other Clover ..	70,000 lbs.	35,000	
Sudan .....	500,000 lbs.	50,000	
Alfalfa .....	80,000 lbs.	36,000	
Other Seed .....	885,000 lbs.	88,000	
			1,734,000
ORCHARD CROPS			
Almonds .....	3,900,000 lbs.	1,560,000	
Apricots .....	800,000 lbs.	44,000	
Olives .....	6,165,000 lbs.	308,000	
Oranges .....	190,000 cartons	428,000	
Peaches .....	550,000 lbs.	22,000	
Prunes .....	7,500,000 lbs.	900,000	
Pears .....	5,490,000 lbs.	366,000	
Walnuts .....	932,000 lbs.	224,000	
Walnuts, Black ..	100,000 lbs.	4,000	
Almond Hulls and Fruit Pits .....	1,200 Tons	13,000	
			3,869,000
POULTRY			
Poultry, live ..	24,000 lbs.	5,000	
Eggs .....	202,000 dozen	67,000	
Turkeys, live ..	58,000 head	324,000	
Turkey Eggs .....	400,000 each	112,000	
			508,000

## PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS

(Continued)

LIVESTOCK	Production	Values	Totals
Market Milk fat .....	941,000 lbs.	\$ 1,054,000	
Mfg. Milk fat .....	4,073,000 lbs.	3,462,000	
Fat Cattle .....	16,500 head	2,700,000	
Cattle .....	16,500 head	2,050,000	
Calves .....	13,000 head	400,000	
By-Products .....		50,000	
Sheep .....	30,000 head	150,000	
Lambs .....	130,000 head	2,210,000	
Wool .....	1,100,000 lbs.	476,000	
Pelts .....	3,500 each	10,000	
Hogs .....	19,000 head	650,000	\$13,212,000
APICULTURE			
Package Bees .....	38,000 lbs.	47,000	
Queens .....	4,000 each	4,000	
Honey .....	800,000 lbs.	96,000	
Beeswax .....	10,000 lbs.	5,000	
Pollination .....		20,000	172,000
GOVERNMENT PAYMENTS			
Agriculture Conservation		47,000	
Wool Incentive Payment		349,000	
Rice Acreage Reserve		2,000	
Sugar Beet, Processor & Import Tax Payment		16,000	414,000
FOREST PRODUCTS			
Logs .....	9,500,000 bd. feet	200,000	
Milled Lumber .....	30,000,000 bd. feet	2,700,000	
Christmas Trees .....	850 trees	2,000	2,902,000
GRAND TOTAL AGRICULTURAL INCOME — 1956 .....			\$37,970,000

### AGRICULTURAL INCOME TOTALS FOR 20 YEARS

Year	Amount
1937 .....	\$ 6,450,700
1938 .....	5,670,300
1939 .....	7,698,200
1940 .....	8,206,700
1941 .....	10,587,500
1942 .....	11,973,200
1943 .....	13,824,600
1944 .....	19,047,000
1945 .....	18,577,000
1946 .....	22,260,000
1947 .....	27,935,000
1948 .....	27,070,000
1949 .....	24,820,000
1950 .....	30,637,000
1951 .....	39,005,000
1952 .....	42,473,700
1953 .....	33,267,000
1954 .....	31,364,000
1955 .....	34,570,000
1956 .....	37,970,000
TWENTY YEAR TOTAL .....	\$453,406,900



## AGRICULTURAL RESOURCES

FIELD CROPS	Acreage	Tot
Alfalfa .....	14,500	
Barley .....	60,000	
Beans .....	600	
Corn .....		
Grain .....	5,500	
Silage .....	2,000	
Hay, Mixed .....	10,000	
Irrigated Pastures .....	61,000	
Milo .....	5,000	
Oats .....	1,000	
Rice .....	34,630	
Safflower .....	10,363	
Sudan .....	900	
Sugar Beets .....	740	
Wheat .....	3,129	
		209,362

ORCHARD CROPS	
Almonds .....	4,000
Apricots .....	160
Citrus .....	655
Figs .....	85
Grapes .....	16
Miscellaneous Orchard Crops .....	15
Olives .....	940
Peaches .....	105
Pears .....	259
Prunes .....	1,580
Walnuts, English .....	1,064

8,871

LIVESTOCK AND POULTRY	Head
Cattle, Beef .....	17,000
Cattle, Dairy .....	24,000
Hogs .....	5,000
Horses and Mules .....	300
Sheep .....	135,000
Poultry and Turkey Breeding Stock .....	24,500

205,800

APIARY	Colonies
Bees, Registered (240 Apiaries) .....	9,370

9,370

## NATURAL ECONOMIC RESOURCES

Water Resources: Sacramento River, Feather River, Stony Creek, Grindstone Creek and Butte Creek.

Water Storage: Shasta Dam on Sacramento River; Stony Gorge Dam on Stony Creek; East Park Dam on Stony Creek.

Irrigation Districts in Operation:	Acres
Orland, U.S. Reclamation District—Stony Creek .....	20,000
Glenn-Colusa Irrigation District—Sacramento River .....	54,435
Jacinto Irrigation District—Sacramento River .....	12,000
Provident Irrigation District—Sacramento River .....	12,520
Princeton-Codora-Glenn—Sacramento River .....	7,000
Willow Creek Mutual Water Company—Sacramento River .....	1,000
Loam Ridge Irrigation District—Pumps .....	1,200
Western Canal Company—Feather River .....	11,000
Stony Creek Valley, Riparian Water Rights .....	3,800
Pump Irrigation from farm wells .....	37,000
<b>TOTAL ACREAGE UNDER IRRIGATION .....</b>	<b>158,955</b>
 Orland-Artois Irrigation District .....	 18,000
 Other land suitable for irrigation:	
West of present irrigation systems .....	71,000
Butte City District, East of Sacramento River .....	25,000
Stony Creek Valley .....	4,436
West of Orland on Stony Creek, below proposed Black Butte Dam .....	15,000
Sloping land and foothill valleys .....	40,609
<b>ADDITIONAL ACREAGE SUITABLE FOR IRRIGATION .....</b>	<b>156,045</b>
<b>TOTAL IRRIGABLE LAND IN GLENN COUNTY .....</b>	<b>333,000</b>
 Total Acreage in Glenn County .....	 880,000
Acres in Farm Land .....	319,000
Acres in Range Land .....	287,000
Acres in National Forest .....	221,568
Acres of Commercial Timber Land .....	113,000
Board Feet of Standing Timber .....	3,000,000,000
 Species of merchantable trees: Sugar Pine, Ponderosa (yellow) Pine, Douglas Fir, White Fir, Red Fir and Incense Cedar.	
Sawmills in Operation .....	1
Natural Gas Wells .....	43
Number of Farms in County .....	1,825

## RECREATIONAL RESOURCES

Lakes .....	Stony Gorge Dam and Packer Lake	5
County Parks .....		51
Forest Camp Grounds Improved .....		30,000
Visitors annually to National Forest areas .....		221,568
Forest Acreage .....		7,450
Elevation in Forest—Highest point .....		6,500
Trout Holding Ponds—Plaskett Meadows—Elevation .....		

### Kinds of Fish:

Mountain streams—Rainbow Trout, Steelhead  
 Rivers—Striped Bass, Black Bass, Salmon, Shad, Catfish, Steelhead,  
 Rainbow Trout, Sturgeon.  
 Lakes—Black Bass, Catfish, Sunfish, Crappie, Bluegill.

Rivers and Creeks:	(Length in miles through Glenn County)	
Sacramento River .....		40
Black Butte River, a tributary of Eel River .....		7
Stony Creek, main stream .....		68
Stony Creek, north fork .....		12
Briscoe Creek .....		12
Grindstone Creek .....		28
Cold Creek .....		6
Willow Creek .....		37
Butte Creek .....		12
Walker Creek .....		20

### Estimated number of wild game:

Columbia Black Tail Deer .....	10,000
California Black Bear .....	400
Wild Ducks .....	1,100,000
Wild Geese .....	350,000
Ring-neck Pheasants .....	100,000
California Valley and Mountain Quail .....	25,000
Mourning Doves .....	60,000
Band-tail Pigeons .....	15,000
Beaver .....	200
Otter .....	100

### Estimated number of predators:

Mountain Lions .....	50
Coyotes .....	4,000
Bobcats .....	1,750
Badgers .....	150
Raccoons .....	17,000
Skunks .....	9,000
Mink .....	500
Grey Fox .....	6,500
Red Fox .....	200

### Wild Game reported killed by Licensed Hunters and Trappers:

Deer — (Bucks, 859. Antlerless deer, 726) .....	1,585
Mountain Lions .....	21
Coyotes .....	131
Muskrats, trapped .....	12,417
Beaver .....	12
Raccoon .....	4
Otter .....	
Bobcat .....	

## GLENN COUNTY'S POSITION IN STATE PRODUCTION

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Below is listed Glenn County's position in comparison to the 58 counties of California:

Land area .....	35th
Ladino clover seed .....	1st
Sheep and Lambs .....	2nd
Packaged Bees .....	2nd
Rice .....	4th
Safflower .....	4th
Hogs .....	7th
Olives .....	9th
Permanent pasture (irrigated) .....	9th
Figs .....	9th
Almonds .....	10th
Corn and Milo .....	11th
Prunes .....	11th
Barley .....	12th
Dairy stock .....	12th
Oranges .....	12th
Citrus .....	13th
Alfalfa .....	15th
Apricots .....	19th
Pears .....	20th
Wheat .....	20th
Dry beans .....	22nd
Walnuts .....	22nd
Sugar Beets .....	23rd
Cattle, all .....	24th
Peaches .....	24th
Commercial forest land .....	28th

### WILDLIFE:

Geese .....	1st
Ducks .....	2nd
Muskrats .....	2nd
Pheasants .....	4th
Deer .....	18th

The following are commodities produced in the county that grossed over a million dollars each during 1956:

- |                      |                       |
|----------------------|-----------------------|
| 1. Alfalfa hay       | 7. Ladino clover seed |
| 2. Almonds           | 8. Lambs              |
| 3. Barley            | 9. Manufacturing milk |
| 4. Cattle            | 10. Market milk       |
| 5. Fat cattle        | 11. Milled lumber     |
| 6. Irrigated pasture | 12. Rice              |

# TWENTY YEAR PRODUCTION AND V.

Year	Rice Cwt.	Rice Value	Barley Cwt.	Barley Value	Ladino Seed Pounds	Ladino Seed Value
1937	382,000	\$ 477,000	424,000	\$ 572,000	6,500	\$ 4,000
1938	208,000	270,000	319,000	398,000	61,000	30,000
1939	369,000	479,000	349,000	362,000	119,000	96,000
1940	409,000	511,000	317,500	259,000	142,000	85,000
1941	545,600	1,271,000	392,400	575,000	141,000	106,000
1942	361,900	1,231,000	258,300	408,000	118,000	150,000
1943	394,000	1,300,000	415,000	1,050,000	325,000	369,000
1944	850,000	2,678,000	701,000	1,658,000	350,000	525,000
1945	690,000	2,243,000	675,000	1,671,000	440,000	560,000
1946	1,050,000	4,500,000	700,000	2,233,000	375,000	657,000
1947	1,168,000	7,010,000	680,000	2,470,000	670,000	1,106,000
1948	840,000	4,200,000	1,112,000	3,172,000	800,000	1,114,000
1949	1,219,000	4,023,000	792,000	2,112,000	2,280,000	2,736,000
1950	900,000	4,050,000	651,000	1,510,000	3,200,000	3,765,000
1951	1,060,000	5,088,000	500,000	1,550,000	4,650,000	4,500,000
1952	1,500,000	9,000,000	500,000	1,700,000	2,865,000	1,060,000
1953	1,428,000	7,500,000	650,000	1,850,000	1,915,000	1,053,000
1954	1,400,000	6,300,000	750,000	1,800,000	3,002,000	1,622,000
1955	1,500,000	6,750,000	600,000	1,500,000	3,050,000	1,525,000
1956	1,500,000	6,400,000	750,000	1,690,000		
TOTAL	17,774,500	\$75,281,000	11,536,200	\$28,540,000	24,509,500	\$21,293,000

Year	Prunes Pounds	Prunes Value	Olives Pounds	Olives Value	Oranges Boxes	Oranges Value
1937	3,187,000	\$ 63,000	1,743,000	\$ 35,000	46,000	\$ 43,000
1938	5,152,000	78,000	543,000	14,000	64,000	90,000
1939	3,552,000	108,000	1,066,000	79,000	71,500	110,000
1940	2,584,000	97,500	2,276,000	96,500	103,500	207,000
1941	2,709,000	95,000	4,018,000	285,000	58,000	133,000
1942	2,069,000	145,000	1,601,000	228,000	65,000	258,000
1943	4,056,000	335,000	3,874,000	846,000	85,000	340,000
1944	4,864,000	487,000	3,858,000	849,000	115,000	432,000
1945	6,000,000	600,000	2,690,000	464,000	85,000	340,000
1946	4,500,000	540,000	1,573,000	202,000	120,000	390,000
1947	7,000,000	500,000	4,479,000	444,000	78,000	187,000
1948	6,000,000	420,000	4,181,000	324,000	45,000	225,000
1949	5,500,000	385,000	1,763,000	190,000	86,000	301,000
1950	3,300,000	418,000	3,123,000	558,000	78,000	234,000
1951	5,544,000	612,000	4,000,000	812,000	105,000	368,000
1952	5,750,000	630,000	3,650,000	580,000	86,000	350,000
1953	4,550,000	550,000	1,250,000	112,000	125,000	625,000
1954	7,800,000	877,000	5,000,000	375,000	120,000	490,000
1955	4,600,000	759,000	1,350,000	160,000	100,000	400,000
1956	7,500,000	900,000	6,165,000	308,000	90,500	428,000
TOTAL	96,217,000	\$8,599,500	58,203,000	\$6,961,500	1,726,500	\$951,000

Year	Hogs Head	Hogs Value	Lambs & Sheep Marketed Head	Wool Marketed Pounds	Sheep & Wool Value	Turkeys Pounds
1937	44,200	\$ 707,000	72,000	1,319,000	\$ 959,000	1,671,000
1938	32,000	448,000	61,000	977,000	685,000	2,319,000
1939	44,200	575,000	128,000	1,016,000	999,000	2,013,000
1940	35,000	436,000	106,700	1,245,000	1,110,500	1,893,000
1941	34,900	636,000	111,300	1,477,500	1,402,000	1,871,000
1942	28,900	749,000	116,200	1,550,000	2,018,000	1,358,000
1943	34,000	995,000	109,000	1,439,000	1,645,500	931,000
1944	41,000	1,104,000	139,000	1,500,000	2,059,000	1,975,000
1945	17,500	612,500	141,000	1,160,000	2,262,000	2,382,000
1946	16,500	725,000	121,000	1,372,000	2,248,000	1,822,000
1947	15,000	900,000	127,500	1,000,000	2,490,000	1,750,000
1948	20,000	950,000	112,000	1,000,000	2,415,000	1,800,000
1949	25,000	1,125,000	102,000	840,000	2,388,000	1,700,000
1950	28,000	1,175,000	110,000	1,000,000	3,526,000	1,200,000
1951	47,500	2,000,000	130,000	1,375,000	4,263,000	1,200,000
1952	52,000	1,672,000	169,000	1,630,000	4,753,000	1,200,000
1953	30,000	994,000	163,000	1,200,000	3,397,000	1,100,000
1954	20,000	720,000	150,000	1,200,000	3,140,000	1,100,000
1955	22,000	700,000	160,000	1,260,000	2,937,000	1,200,000
1956	19,000	650,000	160,000	1,100,000	3,195,000*	1,000,000
TOTAL	606,700	\$17,873,500	2,488,700	24,660,500	\$47,892,000	27,500,000

\* 1955 Incentiv

# ALUE OF PRINCIPAL COMMODITIES

10 l e	Other Field & Seed Crops Cwt.	Other Field & Seed Crops Value	Almonds Pounds	Almonds Value	Walnuts Pounds	Walnuts Value
	166,000	\$ 225,000	2,046,000	\$ 327,000	253,000	\$ 25,000
	123,000	184,000	1,623,000	178,000	105,000	10,000
	65,000	100,000	2,961,000	267,000	221,000	19,000
	118,000	137,000	2,016,000	302,000	1,203,000	63,000
	165,000	283,000	471,000	170,000	509,000	37,000
	226,000	283,000	1,999,000	480,000	517,000	39,000
	103,000	253,000	1,416,000	481,000	896,000	140,000
	73,000	180,000	2,700,000	918,000	558,000	69,000
	97,000	309,000	1,900,000	741,000	542,000	90,000
	118,000	300,000	2,000,000	744,000	492,000	97,000
	127,000	427,000	2,000,000	680,000	587,000	91,000
	129,000	554,000	1,250,000	286,000	550,000	85,000
	193,000	501,000	3,000,000	650,000	1,237,000	159,000
	91,000	407,000	3,500,000	1,085,000	929,000	141,000
	66,000	361,000	3,500,000	1,050,000	1,166,000	212,000
	112,000	578,000	3,750,000	1,025,000	1,085,000	199,000
	223,000	895,000	3,300,000	780,000	920,000	155,000
	268,000	1,205,000	2,225,000	587,000	875,000	123,000
	502,000	2,842,000	1,150,000	460,000	800,000	214,000
	1,995,000	1,871,000	3,900,000	1,560,000	1,032,000	228,000
	4,960,000	\$11,895,000	46,707,000	\$12,771,000	13,477,000	\$2,196,000
es F	Other Fruit & Dried Pounds	Other Fruit Fresh & Dried Value	Butterfat Pounds	Butterfat Value	Cattle & Calves Marketed Head	Cattle & Calves Value
10	5,313,000	\$ 168,000	2,237,000	\$ 783,000	4,000	\$ 198,000
10	3,777,000	109,000	2,095,000	733,000	8,000	560,000
10	4,327,000	121,000	1,826,000	603,000	8,000	636,000
10	3,083,500	95,000	1,879,000	751,000	9,000	676,000
10	4,660,500	109,000	2,777,000	1,388,000	13,400	766,400
10	6,160,000	491,000	2,668,000	1,607,000	12,100	848,300
10	6,723,000	535,000	2,685,000	2,084,000	16,500	990,000
10	6,645,000	692,500	3,034,000	2,503,000	23,500	1,395,000
10	4,649,000	328,000	3,343,500	2,841,000	24,500	1,636,500
10	9,763,000	839,000	2,973,000	2,902,000	23,500	1,695,000
10	5,072,000	390,000	3,400,000	3,260,000	29,000	3,240,000
10	2,382,000	119,000	3,690,000	4,001,000	31,500	4,770,000
10	6,330,000	270,000	3,621,000	3,033,000	43,500	4,134,500
10	4,177,000	295,000	3,711,000	3,711,000	41,300	7,000,500
10	7,562,000	440,000	3,807,000	3,970,000	44,200	8,294,500
10	9,112,000	510,000	3,875,000	4,601,000	41,500	5,540,000
10	5,700,000	376,000	4,802,000	5,010,000	43,500	3,755,000
10	7,450,000	310,000	5,136,000	4,402,000	45,000	3,550,000
10	7,837,000	320,000	5,485,000	4,831,000	45,000	3,925,000
10	6,840,000	445,000	5,014,000	4,516,000	46,000	5,200,000
10	8,563,000	\$6,962,500	68,058,500	\$57,530,000	553,000	\$58,810,700
Turkey Eggs Each	Turkeys & Eggs Value	Pounds Packaged Bees	Honey Tons	Bees & Honey Value	Lumber & Logs Bd. Feet	Lumber & Logs Value
	360,000	\$ 473,000	20,000	135	\$ 19,000	\$
	696,000	777,000	22,000	200	27,000	
	267,000	485,000	18,400	138	26,000	
	99,000	303,000	19,700	270	34,000	
	219,000	509,000	19,200	165	30,000	
	204,000	503,000	33,300	216	83,000	
	486,000	415,000	37,000	246	86,000	
	642,000	1,002,000	48,000	178	166,500	
	841,000	1,205,000	30,000	114	76,500	\$ 20,000
	635,000	784,000	37,500	220	164,000	100,000
	315,000	409,000	39,000	187	105,000	50,000
	75,000	300,000	38,500	238	131,000	500,000
	320,000	332,000	32,000	244	97,000	122,000
	400,000	547,000	25,000	144	7,000,000	240,000
	351,000	686,000	24,500	462	63,500	1,067,500
	440,000	697,000	26,500	450	123,000	1,647,500
	290,000	433,000	25,000	325	131,500	23,000,000
	317,000	599,000	25,000	325	121,500	27,000,000
	376,000	477,000	32,000	425	95,000	32,000,000
	400,000	436,000	38,000	400	125,000	37,000,000
	7,733,000	\$11,372,000	590,600	5,082	143,000	39,500,000
				\$1,847,500	203,700,000	\$13,205,000

e payments for wool included in value.

## CHEMICALS USED BY THIS DEPARTMENT

### INSECT CONTROL:

Benzene Hexachloride (BHC) .....	233 Pounds
Bordeaux .....	76 Pounds
Chlordane, 72% .....	14 Pints
Chlordane dust, 5% .....	50 Pounds
Cyanogas .....	24 Ounces
DDT .....	9 Gallons
DDT (powder) .....	128 Pounds
Dieldrin .....	15 Quarts
Dieldrin or Chlordane-treated bran .....	2,975 Pounds
Malathion .....	58 Quarts
Malathion (wetttable powder) .....	22 Pounds
Methyl bromide .....	114 c. c.
Methyl bromide gas .....	49 Pounds
Nemagon .....	14 Ounces
Wetttable sulphur .....	29 Pounds
Copper sulphate .....	4 Pounds
Medium spray oil .....	96 Gallons
Spreader .....	122 Pounds

### RODENT CONTROL:

Carbon Bisulphide .....	10 Gallons
Pival-treated liquid .....	4 Quarts
Strychnine-treated barley .....	4,567 Pounds
Strychnine-treated milo .....	226 Pounds
Strychnine-treated rice .....	201 Pounds
Strychnine-treated wheat .....	8 Pounds
Strychnine alkaloid .....	234 Ounces
Strychnine sulphate .....	75 Ounces
"1080" treated bait .....	24 Pounds
Warfarin bait .....	2,731 Pounds
Warfarin .....	137 Pounds
Zinc-Phosphide-treated barley .....	30 Pounds

### WEED CONTROL:

Amino Triazole .....	148 Pounds
CMU .....	136 Pounds
Dalapon .....	328 Pounds
D-B Granular .....	60 Pounds
Detergent .....	203 Pounds
Diesel Oil .....	1,656 Gallons
Esteron 10-10 .....	177 Pints
Esteron 99 .....	238 Gallons
Kerosene .....	137 Gallons
Polybor Chlorate .....	800 Pounds
Sinox .....	63 Gallons
Sodium Arsenate .....	25 Pounds
Stantox "64" .....	2 Gallons
2,4-D .....	226 Quarts
2,4,5-T .....	23 Quarts
Telvar .....	106 Pounds
Ureabor .....	110 Pounds
Weedone "64" .....	12 Gallons
Weedazol .....	17 Pints
X-77 .....	111 Pints
Spray material applied to shade trees .....	15,100 Gallons
Spray material applied for weed control .....	35,000 Gallons

**The Following Table Was Compiled From Commercial Pest Control Operators' Reports And From Permits Issued To Private Farm And Orchard Operators.**

320 Permits were issued to use herbicides in 1956.

105 Permits were issued to use injurious materials in 1956.

Crop	Acreage Treated By Aircraft		Acreage Treated By Ground Rig		Total Acreage Treated
	Herbicides	Insecticides	Herbicides	Insecticides	
FIELD CROPS:					
Rice .....	20,502	17,128			37,630
Corn .....	230	991	1,388		2,609
Barley .....	4,694		3,721		8,415
Milo .....		438	965		1,403
Alfalfa .....	12	5,286	90	2,138	7,526
Ladino Clover .....	5,021	10,777	5,276	2,199	23,273
Sudan .....		380			380
Beans .....		1,274			1,274
Safflower .....		1,314			1,314
Beets .....		451			451
Tomatoes .....		225			225
Pasture .....		202	1,928		2,130
Sunflower .....		40			40
FRUITS & NUTS:					
Almonds .....				552	552
Walnuts .....		35		573	608
Peaches, Prunes, & Apricots .....		384		690	1,074
Oranges .....				102	102
MISCELLANEOUS:					
Weeds & Summer Fallow ....	380		2,778		3,158
TOTALS .....	30,839	38,925	16,146	6,254	92,164

New legislation requires that a permit must be obtained from the Agricultural Commissioner's office before certain pesticides can be purchased. (Section 1080 and 1080.1 Agricultural Code.) The following is a list of materials for which a permit is necessary.

1. Pest control materials containing calcium arsenate, standard lead arsenate or copper acetoarsenite (Paris Green), in dust form.
2. Pest control materials containing tetraethyl pyrophosphate (TEPP).
3. Pest control materials containing parathion.
4. Pest control materials containing ethyl-para-nitrophenyl thionebenzene phosphate (EPN).
5. Pest control materials containing octamethyl pyrophosphoramidate (OMPA).
6. Pest control materials containing 0-0-diethyl-0-2 (ethylmercapto)-ethyl thio-phosphate (systox) (demeton).
7. 2,4-dichlorophenoxyacetic acid (2,4-D).
8. 2,4,5-trichlorophenoxyacetic acid (2,4,5-T).
9. 2-methyl-4-chlorophenoxyacetic acid (MCP).
10. 2,4-dichlorophenoxypropionic acid (2,4-DP).
11. 2,4,5-trichlorophenoxypropionic acid (Silvex).
12. Phosdrin (alpha-2-carbomethoxy-1-methylvinyl dimethyl).



## WEIGHTS AND MEASURES REPORT — 1956

TESTED AND SEALED WITHOUT CORRECTION: TOTAL — 1,011.

- 33 Counter scales
- 18 Spring scales
- 30 Computing scales
- 47 Platform & Dormant scales
- 2 Tank scales
- 2 Hopper scales
- 32 Livestock scales
- 14 Vehicle scales
- 6 Meat Beams and Steelyards
- 2 Prescription scales
- 236 Weights
- 10 Vehicle tank meters
- 2 Bulk plant meters
- 167 Retail pumps and meters
- 75 Grease meters
- 2 Linear measures
- 142 Liquid capacity measures
- 188 Lubricating oil bottles tested for capacity
- 3 Farm holding tanks

TESTED AND SEALED AFTER CORRECTION: TOTAL — 137.

- 6 Counter scales
- 4 Spring scales
- 8 Computing scales
- 22 Platform & Dormant scales
- 5 Hopper scales
- 8 Livestock scales
- 19 Vehicle scales
- 2 Prescription scales
- 13 Weights
- 8 Vehicle tank meters
- 8 Bulk plant meters
- 30 Retail pumps and meters
- 3 Liquid capacity measures
- 1 Farm holding tank

TESTED AND FOUND TO BE OUT OF ORDER: TOTAL — 58.

- 3 Counter scales
- 3 Spring scales
- 3 Computing scales
- 15 Platform & Dormant scales
- 3 Hopper scales
- 4 Livestock scales
- 7 Vehicle scales
- 3 Meat Beams and Steelyards
- 7 Weights
- 1 Vehicle tank meter
- 7 Retail pumps and meters
- 1 Grease meter
- 1 Farm holding tank

EQUIPMENT CONDEMNED AND CONFISCATED: TOTAL — 1.

- 1 Liquid capacity measure

Signs Inspected: 374. (348 found correct, 26 were corrected).  
Establishments visited during 1956: 266.  
Certificates of inspection issued: 240.

# ANNUAL RAINFALL AT WILLOWS, CALIFORNIA

78 YEARS — 1878-1956

Year	Inches	Year	Inches	Year	Inches
1878-1879.....	7.01	1904-1905.....	24.55	1930-1931.....	9.85
1879-1880.....	13.96	1905-1906.....	19.85	1931-1932.....	15.01
1880-1881.....	13.85	1906-1907.....	17.88	1932-1933.....	7.79
1881-1882.....	8.28	1907-1908.....	13.44	1933-1934.....	15.65
1882-1883.....	8.45	1908-1909.....	22.09	1934-1935.....	19.62
1883-1884.....	18.84	1909-1910.....	14.36	1935-1936.....	17.48
1884-1885.....	7.80	1910-1911.....	17.75	1936-1937.....	16.40
1885-1886.....	19.15	1911-1912.....	11.26	1937-1938.....	26.28
1886-1887.....	8.07	1912-1913.....	13.18	1938-1939.....	6.82
1887-1888.....	8.97	1913-1914.....	29.18	1939-1940.....	23.21
1888-1889.....	10.30	1914-1915.....	27.19	1940-1941.....	40.50
1889-1890.....	29.94	1915-1916.....	18.11	1941-1942.....	24.07
1890-1891.....	19.01	1916-1917.....	11.43	1942-1943.....	15.68
1891-1892.....	18.82	1917-1918.....	11.90	1943-1944.....	13.52
1892-1893.....	27.30	1918-1919.....	12.90	1944-1945.....	16.94
1893-1894.....	11.15	1919-1920.....	7.70	1945-1946.....	14.72
1894-1895.....	26.04	1920-1921.....	21.28	1946-1947.....	12.28
1895-1896.....	22.18	1921-1922.....	13.44	1947-1948.....	19.56
1896-1897.....	18.82	1922-1923.....	16.81	1948-1949.....	15.59
1897-1898.....	6.58	1923-1924.....	8.86	1949-1950.....	10.32
1898-1899.....	13.05	1924-1925.....	25.99	1950-1951.....	17.48
1899-1900.....	15.23	1925-1926.....	18.44	1951-1952.....	23.50
1900-1901.....	17.49	1926-1927.....	25.99	1952-1953.....	19.70
1901-1902.....	21.67	1927-1928.....	17.54	1953-1954.....	16.64
1902-1903.....	17.10	1928-1929.....	11.46	1954-1955.....	14.57
1903-1904.....	20.28	1929-1930.....	16.37	1955-1956.....	23.24

## PLANT QUARANTINE

### INTERSTATE SHIPMENTS:

Number of Shipments Passed .....	517
Number of Plants Passed .....	27,686
Number of Shipments Rejected .....	2
Number of Plants Rejected .....	40

### INTRASTATE SHIPMENTS:

Number of Shipments Passed .....	317
Number of Plants Passed .....	149,762
Number of Shipments Rejected .....	0
Number of Plants Rejected .....	0

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## APIARY INSPECTION

	Apiaries	Colonies
Registered during 1956 .....	240	9,370
Entering County .....	84	4,647
Leaving County .....	84	4,525
Moving within the County .....	152	6,532
Inspected during 1956 .....	56	1,711
Infected with American Foulbrood .....	13	32
Burned for American Foulbrood .....	13	32
Infected with European Foulbrood .....	2	2

## COMMENTS

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### SEED CROPS:

Glenn County again leads the State and Nation in the production of Ladino Clover seed with over three million pounds produced in 1956. A million and half pounds of other crop seeds were also grown. This is an industry that did not exist twenty years ago.

### LIVESTOCK:

For the first time since 1946 there was a drop in dairy production. Early in the year prices were not too favorable and many small dairymen turned to other means of livelihood, and their herds were heavily culled or sold outright. The abundance of good irrigated pasture and with the usual ample hay supply one is led to assume that this is only a temporary condition and that as the market improves a renewed interest will again be manifested. The total milk fat produced in 1937 was 2,237,737 pounds, as compared to the 1956 total of 4,516,000 pounds.

The sheep numbers were reduced to below the 1955 total. More cattle were reported moved to market this year on account of the heavy sales of dairy and feeder stock. Fat cattle sales were not much changed from other years. This movement of livestock has had the effect of showing an increase in total livestock production and values.

### ORCHARD CROPS:

The past season was the best over-all year for orchardists in recent times. Almond, walnut and prune growers grossed a larger return than in any season yet recorded. Prices for almonds and prunes were particularly favorable and the tonnage was above average. A bumper crop of olives and new acreages coming into bearing brought the olive production to a new high. The olive and walnut acreage is now the largest in the history of the county. Statistics covering the past 20 years indicate a swing back to tree crops.

### FIELD CROPS:

The total value of field crops was slightly under last year. This is accounted for in acreage cuts in some commodities, either by Government order, as in the case of rice, or for economic reasons.

### SUGAR:

The sugar factory located at Hamilton City was first operated in 1905-6 under the management of Ed C. Hamilton, for whom the town was named. This plant has played an important part in the economy of the county over the past half century.

The Holly Sugar Corporation assumed management in 1936 and has operated it continuously except for three war years. At the present time there are about 50 year round employees, and during the campaign which runs from early August to late December about 250 people are employed. During the 1956 campaign 186,778 tons of sugar beets were sliced producing 450,786 hundredweight of sugar and 7,924 tons of molasses; and, in addition, over 2,000 head of cattle were fattened in their feed lot on beet pulp.

## A Short History of the Development of Irrigation in Glenn County

The need for irrigation in the county was recognized as early as 1875. In May of that year a meeting was held in Colusa to discuss the possibility of irrigating the lands which at that time included Glenn County. Will S. Green, the father of irrigation in this area, was one of the instigators of this meeting.

John Boggs, George Parker, and others constructed a ditch from a point near Princeton from which they irrigated their lands. This project functioned only at times of high water.

Perhaps the earliest irrigation was carried on in the vicinity of Smithville (now Stonyford). John L. Smith constructed a ditch to divert water as power for his flour mill, and also to irrigate his alfalfa fields. Later a company called the Stony Creek Improvement Company built a ditch higher up on Big Stony Creek and irrigated a much larger acreage. As time went on many private irrigation systems were installed along the Creek. The Fruto Land and Improvement Company constructed six miles of ditch on the east side of Stony Creek, about three miles below Elk Creek, with the idea of irrigating their subdivision. Actually, several hundred acres of vineyards, orchards and alfalfa were planted.

In 1887 the first irrigation district under the Wright Law was formed. It was known as the Orland Irrigation District, and contained about 14,000 acres north of the creek opposite Orland. This district was soon abandoned.

In 1888 the Stony Creek Irrigation Company was formed. A ditch, taking water from the creek, was constructed. It started about at the site of the present South Diversion Dam and ran southeast for about nine miles. Another district was formed, comprising about 26,000 acres, including the town of Orland. This district, too, was soon abandoned. There were other projects formed, some on paper, others actually attempted along the lower reaches of Stony Creek. But until the present project was completed in 1910, none were very successful.

The one feasible plan advanced in the 1870's was the system we know now as the Glenn-Colusa Irrigation District. On November 22, 1887 the Central Irrigation District was formed. The area of this district embraced 156,000 acres of land lying on the rich level plains of Glenn and Colusa Counties. Difficulties of a nature beyond the control of the sponsors of the district arose, which proved to be the undoing of the original plan.

Litigation and opposition in various forms denied water to the incomplete canal from 1887 until 1903. In September of 1902 the Central Canal and Irrigation Company was organized with the idea of delivering water to lands of the district. Construction work was started and carried on for several years under various changes in management. The unexpected opposition on the part of land owners to accept water for irrigation forced the company to abandon their plan of selling water. The Sacramento Valley Land Company was formed to purchase land to be subdivided into tracts and colonized for intensive farming. The Central Canal Company passed into the hands of the Sacramento Valley Land Company.

The year 1905 stands out as a milestone in the development of this system, as water was actually delivered to parts of the Glenn, Boggs and Parker ranches, which were being subdivided. This date by no means ended the troubled career of the Central Canal. Adversity clung to this project until the present Glenn-Colusa Irrigation District was formed on March 2, 1920.

The underground water supply for irrigation was first exploited by Henry B. St. Louis, a farmer west of Norman. In the spring of 1908, Mr. St. Louis drilled a large diameter well and installed a centrifugal pump driven by a gas engine. He received a good supply of water with which he irrigated alfalfa. Beginning with the first successful large pumping plant in 1908, water development for irrigation from wells has increased until most of the available underground supply is in use. The total acreage under irrigation in Glenn County at present is 158,955 acres, of this amount about 40,000 acres are watered from wells.

Farming by irrigation has continued to expand. When the High-Line Canal is finished, then will begin the work of developing water for use in the small mountainous valleys.

## THE SHEEP INDUSTRY

By THELMA WHITE

Secretary, Colusi Historical Society

For more than a century sheep have played a vital role in the economy of Glenn County. In 1956 approximately 8½ per cent of the County's total agricultural income was derived from the sale of sheep and wool.

Glenn County ranks first in the United States in the production of fat lambs and among the top three counties in California in numbers of stock sheep or breeding ewes, the count varying from 135,000-150,000 during the past few years.

A number of factors make this area a natural habitat for sheep; a mild climate; a relatively low rainfall; the topography of the low, bare rolling hills, covered in the spring with short, succulent native grasses particularly palatable to sheep; stubble fields and ladino and other permanent irrigated pastures for summer grazing; sparse population with correspondingly low dog population, an important factor since 53 per cent of the farmers gave dogs as the reason for not keeping sheep according to U. S. Annual Bureau survey.

The sheep industry in Glenn County has been more stable than in many areas for several reasons. The sheep are usually carried twelve months of the year on deeded land, while in many areas a portion of the early sheep operation is carried out on public lands. Since for the most part, the sheepmen own the lands on which they operate they are prepared to withstand fluctuating markets. The dependence of the grower upon mountain grazing has been eliminated by the development of a large acreage of ladino pastures in the valley during the 40's and early 50's. In years of short rainfall it is not now necessary to depend entirely upon grass in the hills for fattening spring lambs. Also the development within the last two years of a completely balanced pelletized ration composed of Ladino clover, alfalfa and sudan grass meal, bean and pea splits, vetch, sunflower, almond hulls, ground barley and milo, cottonseed meal, cane molasses, minerals and an antibiotic has stabilized the industry by further removing the necessity of spring grass. The pellets are fed to both lambs and ewes with remarkable results.

Today herders are little used here, except on stubble fields. Hill ranges are fenced as are valley pastures. Lack of skilled herders and their high cost when obtainable has been one of the prime causes in the rapid decline of flock numbers during the last decade.

Originally the Merino type ewe was used but in order to obtain a larger lamb, crossbred, white face grade ewes, Merino and Rambouillet, with an infusion of Corriedale, Columbia or Romeldale which are a short staple, fine wool type are bred to purebred black face rams, Hampshire, Suffolk or crossbred, a coarse, long staple, medium wool mutton type.


Until five to ten years ago midwestern breeders took crossbred ewe lambs from the area for farm flocks. It has now become more profitable to finish them out on ladino clover; 95 to 98 per cent are now killed for meat.

About 10 per cent of all white face ewes are raised here. The balance are brought in from Oregon, Idaho, Wyoming, Montana, Colorado, New Mexico and Arizona. Recently the University has been advocating the local rearing of white faced ewes, as partial replacements both from the standpoint of cost and acclimatized stock. This is done by mating bucks of the Rambouillet, Romeldale and Corriedale breeds to our ewes.

The majority of the bucks used in this county are purchased from other areas. Only a few small flocks of purebred black face breeds are raised in the county.

Originally lambs in this area were dropped in the spring. Now the lambs are dropped in the fall and winter and go out as four months milk lambs or are finished on clover. This method has the added advantage of spring grass for ewe and lamb.

In order to stimulate the production of wool the national government is now offering an incentive payment to wool growers obtained from the last 75 per cent of tariff revenues on wool. A small percentage of this sum will be spent by the growers in compliance with the regulations of the incentive program in advertising the dual products lambs and wool. In 1956 a total of \$348,876.53 came to Glenn County growers from incentive payments on their 1955 wool crop.

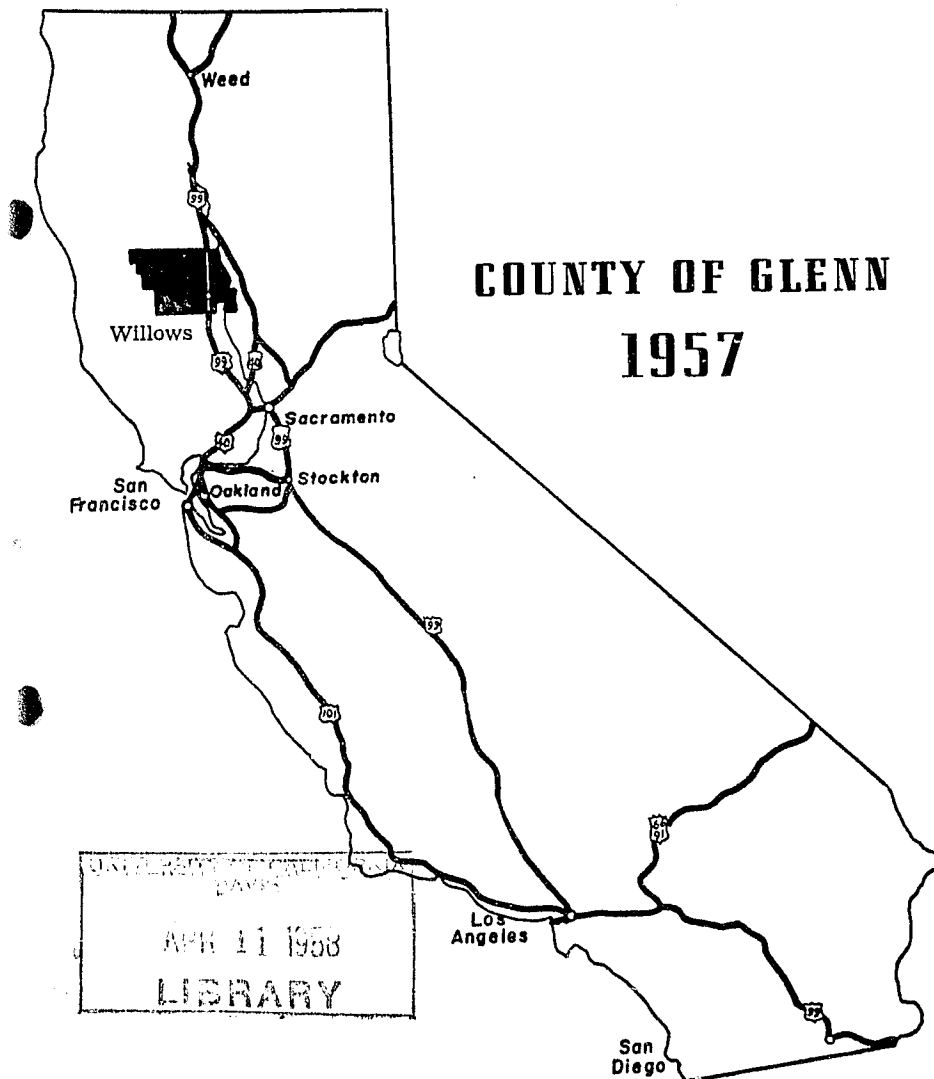


1957

# ANNUAL REPORT

P. V. HARRIGAN

Agricultural Commissioner  
and  
Sealer of Weights and Measures





## GLENN COUNTY DEPARTMENT OF AGRICULTURE

Memorial Building, Willows, California

December 31, 1957

P. V. Harrigan  
Agricultural Commissioner  
Sealer of Weights and Measures

Telephones:  
Willows 240  
Orland UNDERhill 5-2264

W. C. Jacobsen, Director  
State Department of Agriculture,  
and  
Glenn County Board of Supervisors,  
  
George E. (Nip) Roberts, District 4, Chairman  
George S. Lewis, District 1  
Marshall Lane, District 2 (deceased)  
C. E. Polzin, District 2  
George J. Otterson, District 3  
W. L. Linville, District 5

Gentlemen:

Section 65.5 of the California Agricultural Code requires that the Agricultural Commissioner compile a report covering conditions, acreage, production, and value of the agricultural products of his county; and, Section 65 requires that the Commissioner keep a record of his official acts and make an annual report to the Director of Agriculture on the conditions of the agricultural interests in his county; and, further, Section 30 indicates that the Agricultural Department shall promote and protect the agricultural industry of the state.

This is the twenty-first annual report published by this department. The members of the department have made every effort to make this report as accurate as possible by checking the figures with many sources of reliable information.

I wish to express my sincere appreciation to all those who have cooperated in helping to make this report possible.

Respectfully submitted,

*P. V. Harrigan*

P. V. HARRIGAN  
Agricultural Commissioner

# **PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS** **GLENN COUNTY, CALIFORNIA — 1957**

FIELD CROPS	Acresage	Production	Values	Total
Rice .....	33,474	1,707,174 cwt.	\$ 7,938,400	
Barley .....	67,000	1,742,000 cwt.	3,222,700	
Wheat .....	2,275	45,500 cwt.	159,250	
Oats .....	1,000	10,000 cwt.	24,000	
Milo .....	12,000	360,000 cwt.	846,000	
Safflower .....	3,722	44,670 cwt.	167,500	
Beans .....	1,655	456,700 cwt.	27,500	
Field Corn .....	5,674	171,000 cwt.	460,000	
Sugar Beets .....	837	17,577 tons	193,500	\$ 13,038,850
<b>FORAGE</b>				
Silage Corn .....	2,000	34,000 tons	204,000	
Alfalfa Hay .....	14,500	72,500 tons	1,667,500	
Clover Hay .....	8,500	10,000 tons	160,000	
Mixed Hay .....	12,000	25,000 tons	450,000	\$2,481,500
<b>PASTURE</b>				
Irrigated Pasture..	61,000		2,700,000	
Range .....	250,000		315,000	
Stubble .....	100,000		125,000	3,140,000
<b>SEED CROPS</b>				
Ladino Clover.....	4,000	1,167,000 lbs.	304,000	
Other Clover .....	450	180,000 lbs.	54,000	
Sudan .....	1,500	1,950,000 lbs.	78,000	
Alfalfa .....	170	85,000 lbs.	26,000	
Other Seed .....		880,000 lbs.	72,000	534,000
<b>ORCHARD CROPS</b>				
	Non-Bearing	Bearing		
Almonds .....	686	3,728	3,343,000 lbs.	1,170,000
Apricots .....	1	161	880,000 lbs.	49,000
Olives .....	147	809	1,245,000 lbs.	216,000
Oranges .....	11	652	176,000 ctns.	572,000
Peaches .....	8	84	469,280 lbs.	11,000
Prunes .....	376	1,357	8,250,000 lbs.	1,080,000
Pears .....	130	129	4,039,784 lbs.	384,000
Walnuts .....	335	769	594,200 lbs.	143,000
Walnuts, Black			100,000 lbs.	4,000
Almond Hulls				
& Fruit Pits			2,500 tons	68,750
				3,697,750
<b>POULTRY</b>				
	Resources			
Poultry, live .....		24,000 lbs.	5,000	
Eggs .....		151,000 dozen	60,100	
Turkeys, live .....		78,300 head	313,000	
Turkey Hatching Eggs ....		833,636 each	225,000	
Poultry & Turkey				
Breeding Stock.....	20,000 hd.			603,000

## PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS

(Continued)

LIVESTOCK	Resources	Production	Values	Totals
Dairy Cattle .....	21,100 hd.			
Market Milk fat ..		1,160,000 lbs.	\$1,346,000	
Mfg. Milk fat .....		3,910,000 lbs.	3,441,000	
Beef Cattle .....	19,000 hd.			
Fat Cattle .....		16,500 hd.	3,800,000	
Cattle .....		17,000 hd.	2,550,000	
Calves .....		13,000 hd.	96,000	
By-Products .....			50,000	
Sheep .....	135,000 hd.	35,000 hd.	245,000	
Lambs .....		135,000 hd.	2,860,000	
Wool .....		1,278,000 lbs.	632,000	
Pelts .....		4,000 ea.	11,000	
Hogs .....	6,500 hd.	18,000 hd.	612,000	\$15,643,000
APICULTURE				
Bees, registered .....	8,354 col.			
Package Bees .....		52,850 lbs.	53,000	
Queens .....		26,500 ea.	29,000	
Honey .....		582,381 lbs.	70,000	
Beeswax .....		8,223 lbs.	5,000	
Pollination .....			18,000	175,000
GOVERNMENT PAYMENTS				
Agriculture Conservation .....			23,000	
Wool Payment .....			297,000	
Rice Acreage Reserve .....			437,000	
Sugar Beet, Processor & Import Tax Payment .....			28,000	785,000
FOREST PRODUCTS				
Logs shipped .....		41,000,000 bd. ft.	820,000	
Milled Lumber shipped .....		28,000,000 bd. ft.	1,680,000	
Christmas Trees .....		600	1,800	2,501,800
Land Lease Rental to Gas Industries .....				400,000
GRAND TOTAL AGRICULTURAL INCOME — 1957 .....				\$43,000,000
Estimated Income For Natural Gas .....				\$ 3,000,000

### AGRICULTURAL INCOME TOTALS FOR 21 YEARS

Year	Amount	Year	Amount
1937 .....	\$ 6,450,700	1949 .....	\$ 24,820,000
1938 .....	5,670,300	1950 .....	30,637,000
1939 .....	7,698,200	1951 .....	39,005,000
1940 .....	8,206,700	1952 .....	42,473,700
1941 .....	10,587,500	1953 .....	33,267,000
1942 .....	11,973,200	1954 .....	31,364,000
1943 .....	13,824,600	1955 .....	34,570,000
1944 .....	19,047,000	1956 .....	37,970,000
1945 .....	18,577,000	1957 .....	43,000,000
1946 .....	22,260,000		
1947 .....	27,935,000	21-Year Total .....	\$496,406,900
1948 .....	27,070,000		

## GLENN COUNTY'S POSITION IN STATE PRODUCTION

Below is listed Glenn County's position in comparison to the 58 counties of California:

Glenn County ranks 21st place in Agricultural Crop Value

Land area .....	35th
Ladino clover seed .....	1st
Sheep and Lambs .....	1st
Packaged Bees .....	2nd
Rice .....	4th
Safflower .....	4th
Hogs .....	7th
Olives .....	9th
Permanent pasture (irrigated) .....	9th
Figs .....	9th
Almonds .....	10th
Prunes .....	11th
Barley .....	11th
Dairy stock .....	12th
Oranges .....	12th
Citrus .....	13th
Alfalfa .....	15th
Apricots .....	19th
Pears .....	20th
Wheat .....	20th
Dry Beans .....	22nd
Walnuts .....	22nd
Sugar Beets .....	23rd
Cattle, all .....	23rd
Peaches .....	24th
Commercial forest land .....	28th

### WILDLIFE:

Geese .....	1st
Ducks .....	2nd
Muskrats .....	2nd
Pheasants .....	2nd
Deer .....	32nd

The following are commodities produced in the county that grossed over a million dollars each during 1957:

- |                      |                       |
|----------------------|-----------------------|
| 1. Alfalfa hay       | 7. Orchard crops      |
| 2. Almonds           | 8. Lambs              |
| 3. Barley            | 9. Manufacturing milk |
| 4. Cattle            | 10. Market milk       |
| 5. Fat cattle        | 11. Milled lumber     |
| 6. Irrigated pasture | 12. Rice              |

### PETROLEUM INCOME

Natural gas — 2nd largest field in California

# **United States Department of Agriculture Stabilization And Conservation Participation — 1957**

## **SUPPORT PRICES ALLOWED FOR COMMODITIES** (Which are under loan or purchase agreement)

Barley .....	\$ 1.03	bu.
Beans, Pinto .....	5.79	cwt.
Medium White .....	6.54	cwt.
Small White .....	6.92	cwt.
Red Kidney .....	8.10	cwt.
Pink .....	6.72	cwt.
Small Red .....	6.82	cwt.
Large Lima .....	9.67	cwt.
Baby Lima .....	4.92	cwt.
Yellow Corn .....	2.70	cwt.
Grain Sorghum .....	2.35	cwt.
Oats .....	2.37½	cwt.
Rice (20c premium for No. 1) .....	4.14	cwt.
Wheat .....	3.50	cwt.

## **LOAN REDUCTION FOR NOXIOUS WEED SEEDS**

Barley, Oats, Rye & Wheat .....	\$ .10	bu.
Flaxseed .....	.15	bu.
Grain Sorghums .....	.15	bu.

## **COMMODITIES UNDER LOAN — 1957**

Barley .....	542,493 bu.	\$573,249.69	
Beans .....	606 cwt.	2,890.02	
Yellow Corn .....	19,445 cwt.	28,878.11	
Milo .....	24,146 cwt.	56,685.00	\$ 661,702.82

## **DIRECT PAYMENTS**

Wool Incentive Payment .....	\$297,000.00	
Agricultural Conservation Payment .....	23,000.00	
Rice Acreage Reserve (Soil Bank) .....	437,000.00	
Sugar Beet Processor & Import Tax Payment .....	28,000.00	785,000.00

INDIRECT PURCHASE BENEFIT TO DAIRY INDUSTRY\* ..... 500,000.00

TOTAL UNITED STATES PARTICIPATION (Agriculture) ..... \$1,946,702.82

\*The United States Department of Agriculture expended \$19,343,000 in California for the purchase of dairy products — milk, butter and cheese. The School Lunch Program is one of the agencies that benefit by this program. These purchases reflect a benefit of over \$20.00 per cow, or an indirect assistance to Glenn County dairymen, of \$500,000.00 for 1957.

BUDGET TO OPERATE GLENN COUNTY ..... \$5,087,996.00

### **SOURCE OF INCOME:**

Current County Taxes .....	\$1,541,112.00
Other Revenue .....	3,546,884.00

CURRENT COUNTY TAXES ..... 26.7%  
FEDERAL, STATE AND OTHER FUNDS ..... 73.3%

## RESOURCES

Lakes .....	Stony Gorge Dam and Packer Lake .....	5
County Parks .....	.....	5
Forest Camp Grounds Improved .....	.....	30,000
Visitors annually to National Forest areas .....	.....	221,500
Forest Acreage .....	.....	7,450
Elevation in Forest — Highest Point .....	.....	6,500
Trout Holding Ponds — Plaskett Meadows — Elevation .....	.....	6,500
Kinds of Fish:		
Mountain streams — Rainbow Trout, Steelhead		
Rivers — Striped Bass, Black Bass, Salmon, Shad, Catfish		
Steelhead, Rainbow Trout, Sturgeon.		
Lakes — Black Bass, Catfish, Sunfish, Crappie, Bluegill.		
Rivers and Creeks: .....	(Length in miles through Glenn County) .....	40
Sacramento River .....	.....	7
Black Butte River, a tributary of Eel River .....	.....	68
Stony Creek, main stream .....	.....	12
Stony Creek, north fork .....	.....	12
Briscoe Creek .....	.....	28
Grindstone Creek .....	.....	6
Cold Creek .....	.....	37
Willow Creek .....	.....	12
Butte Creek .....	.....	20
Walker Creek .....	.....	20
Estimated number of wild game:		
Columbia Black Tail Deer .....	.....	10,000
California Black Bear .....	.....	350
Wild Ducks .....	.....	2,000,000
Wild Geese .....	.....	250,000
Ring-necked Pheasants .....	.....	80,000
California Valley and Mountain Quail .....	.....	40,000
Mourning Doves .....	.....	75,000
Band-tail Pigeons .....	.....	10,000
Beaver .....	.....	200
Otter .....	.....	75
Estimated number of predators:		
Mountain Lions .....	.....	50
Coyotes .....	.....	4,000
Bobcats .....	.....	2,000
Badgers .....	.....	150
Raccoons .....	.....	17,000
Skunks .....	.....	9,000
Mink .....	.....	500
Grey Fox .....	.....	6,500
Red Fox .....	.....	200
Wild Game reported killed by Licensed Hunters and Trappers:		
Deer .....	.....	812
Mountain Lions .....	.....	21
Coyotes .....	.....	131
Muskrats, trapped .....	.....	9,000
Beaver .....	.....	48
Raccoon .....	.....	10
Otter, River .....	.....	2
Bobcat .....	.....	2
Possum .....	.....	2
Mink .....	.....	3
Skunk — Spotted .....	.....	3
Skunk — Striped .....	.....	5

## ECONOMIC RESOURCES

Water Resources: Sacramento River, Feather River, Stony Creek, Grindstone Creek and Butte Creek.

Water Storage: Shasta Dam on Sacramento River; Stony Gorge Dam on Stony Creek; East Park Dam on Stony Creek.

Irrigation Districts in Operation:		Acres
Orland, U. S. Reclamation District — Stony Creek .....		20,000
Glenn-Colusa Irrigation District — Sacramento River .....		54,435
Jacinto Irrigation District — Sacramento River .....		12,560
Provident Irrigation District — Sacramento River .....		12,520
Princeton-Codora-Glenn — Sacramento River .....		7,000
Willow Creek Mutual Water Company — Sacramento River .....		1,000
Loam Ridge Irrigation District — Pumps .....		1,200
Western Canal Company — Feather River .....		11,000
Stony Creek Valley, Riparian Water Rights .....		3,800
Pump Irrigation from farm wells .....		37,000
TOTAL ACREAGE UNDER IRRIGATION .....		159,515
Other land suitable for irrigation:		
Orland-Artois Irrigation District .....		18,000
Kanawha Irrigation District .....		2,800
West of present irrigation systems .....		71,000
Butte City District, East of Sacramento River .....		25,000
Stony Creek Valley .....		4,436
West of Orland on Stony Creek, below proposed Black Butte Dam .....		15,000
Sloping land and foothill valleys .....		40,609
ADDITIONAL ACREAGE SUITABLE FOR IRRIGATION .....		156,045
TOTAL IRRIGABLE LAND IN GLENN COUNTY .....		333,000
Total Acreage in Glenn County .....		880,000
Acres in Farm Land .....		319,000
Acres in Range Land .....		287,000
Acres in National Forest .....		221,568
Acres of Commercial Timber Land .....		113,000
Board Feet of Standing Timber .....		3,000,000,000
Species of merchantable trees: Sugar Pine, Ponderosa (yellow) Pine, Douglas Fir, White Fir, Red Fir and Incense Cedar.		
Sawmills in Operation .....		1
Natural Gas Wells in Production .....		55
Number of Farms in County .....		1,625

# PRODUCTION AND VALUE

Year	Rice Cwt.	Rice Value	Barley Cwt.	Barley Value	Ladino Seed Pounds	Ladino Seed Value
1937	382,000	\$ 477,000	424,000	\$ 572,000	119,000	\$ 96,000
1940	409,000	511,000	317,500	259,000	350,000	525,000
1945	690,000	2,243,000	675,000	1,671,000	440,000	560,000
1946	1,050,000	4,500,000	700,000	2,233,000	375,000	657,000
1947	1,168,000	7,010,000	680,000	2,470,000	670,000	1,106,000
1948	840,000	4,200,000	1,112,000	3,172,000	800,000	1,144,000
1949	1,219,000	4,023,000	792,000	2,112,000	3,200,000	2,736,000
1950	900,000	4,050,000	651,000	1,510,000	4,650,000	3,765,000
1951	1,060,000	5,088,000	500,000	1,550,000	4,500,000	1,060,000
1952	1,500,000	9,000,000	500,000	1,700,000	1,915,000	1,053,000
1953	1,428,000	7,500,000	650,000	1,850,000	3,002,000	1,622,000
1954	1,400,000	6,300,000	750,000	1,800,000	3,050,000	1,525,000
1955	1,500,000	6,750,000	600,000	1,500,000	1,167,000	304,000
1956	1,500,000	6,400,000	750,000	1,690,000		
1957	1,707,174	7,938,400	1,742,000	3,222,700		
TOTALS	16,753,174	\$75,990,400	10,843,500	\$27,311,700	24,883,000	\$20,653,000

Year	Prunes Pounds	Prunes Value	Olives Pounds	Olives Value	Oranges Boxes	Oranges Value
1937	3,187,000	\$ 63,000	1,743,000	\$ 35,000	46,000	\$ 43,000
1940	2,584,000	97,500	2,276,000	96,500	103,500	207,000
1945	6,000,000	600,000	2,690,000	464,000	85,000	340,000
1946	4,500,000	510,000	1,573,000	202,000	120,000	390,000
1947	7,000,000	500,000	4,479,000	444,000	78,000	187,000
1948	6,000,000	420,000	4,181,000	324,000	45,000	225,000
1949	5,500,000	385,000	1,763,000	190,000	86,000	301,000
1950	3,300,000	418,000	3,123,000	558,000	78,000	234,000
1951	5,544,000	612,000	4,000,000	812,000	105,000	368,000
1952	5,750,000	630,000	3,650,000	580,000	86,000	350,000
1953	4,550,000	550,000	1,250,000	112,000	125,000	625,000
1954	7,800,000	877,000	5,000,000	375,000	120,000	490,000
1955	4,600,000	759,000	1,350,000	160,000	100,000	400,000
1956	7,500,000	900,000	6,165,000	308,000	90,500	428,000
1957	8,250,000	1,080,000	1,245,000	216,000	176,000	572,000
TOTALS	82,065,000	\$8,431,500	44,488,000	\$4,876,500	1,444,000	\$5,160,000

Year	Hogs Head	Hogs Value	Lambs & Sheep Marketed Head	Wool Marketed Pounds	Sheep & Wool Value	Turkeys Pounds
1937	44,200	\$ 707,000	72,000	1,319,000	\$ 959,000	1,671,000
1940	35,000	436,000	106,700	1,245,000	1,110,500	1,693,000
1945	17,500	612,500	141,000	1,160,000	2,262,000	2,385,000
1946	16,500	725,000	121,000	1,372,000	2,248,000	1,482,000
1947	15,000	900,000	127,500	1,000,000	2,490,000	785,000
1948	20,000	950,000	112,000	1,000,000	2,415,000	500,000
1949	25,000	1,125,000	102,000	840,000	2,388,000	550,000
1950	28,000	1,175,000	110,000	1,000,000	3,526,000	1,265,000
1951	47,500	2,000,000	130,000	1,375,000	4,263,000	1,250,000
1952	52,000	1,672,000	169,000	1,630,000	4,753,000	1,325,000
1953	30,000	994,000	163,000	1,200,000	3,397,000	850,000
1954	20,000	720,000	150,000	1,200,000	3,140,000	1,140,000
1955	22,000	700,000	160,000	1,260,000	2,937,000	1,200,000
1956	19,000	650,000	160,000	1,100,000	3,195,000	1,000,000
1957	18,000	612,000	170,000	1,278,000	3,748,000	1,109,400
TOTALS	409,700	\$13,978,500	1,994,200	17,979,000	\$42,831,500	18,502,400



## OF PRINCIPAL COMMODITIES

Other Field & Seed Crops Cwt.	Other Field & Seed Crops Value	Almonds Pounds	Almonds Value	Walnuts Pounds	Walnuts Value
166,000	\$ 225,000	2,046,000	\$ 327,000	253,000	\$ 25,000
118,000	137,000	2,016,000	302,000	1,203,000	63,000
97,000	309,000	1,900,000	741,000	542,000	90,000
118,000	300,000	2,000,000	744,000	492,000	97,000
127,000	427,000	2,000,000	680,000	587,000	91,000
129,000	554,000	1,250,000	286,000	550,000	85,000
193,000	501,000	3,000,000	650,000	1,237,000	159,000
91,000	407,000	3,500,000	1,085,000	929,000	141,000
66,000	361,000	3,500,000	1,050,000	1,166,000	212,000
112,000	578,000	3,750,000	1,025,000	1,085,000	199,000
223,000	895,000	3,300,000	780,000	920,000	155,000
268,000	1,205,000	2,225,000	587,000	875,000	123,000
502,000	2,842,000	1,150,000	460,000	800,000	214,000
1,995,000	1,871,000	3,900,000	1,560,000	1,032,000	228,000
3,095,000	1,230,000	2,125,000	1,170,000	594,200	143,000
7,300,000	\$11,842,000	37,662,000	\$11,447,000	12,265,200	\$2,025,000

Other Fruit Fresh & Dried Pounds	Other Fruit Fresh & Dried Value	Butterfat Pounds	Butterfat Value	Cattle & Calves Marketed Head	Cattle & Calves Value
5,313,000	\$ 168,000	2,237,000	\$ 783,000	4,000	\$ 198,000
3,083,500	95,000	1,879,000	751,000	9,000	676,000
4,649,000	328,000	3,343,500	2,841,000	24,500	1,636,500
9,763,000	839,000	2,973,000	2,902,000	23,500	1,695,000
6,072,000	390,000	3,400,000	3,260,000	29,000	3,240,000
2,382,000	119,000	3,690,000	4,001,000	31,500	4,770,000
6,330,000	270,000	3,621,000	3,033,000	43,500	4,134,500
4,177,000	295,000	3,711,000	3,711,000	41,300	7,000,500
7,562,000	440,000	3,807,000	3,970,000	44,200	8,294,500
9,112,000	510,000	3,875,000	4,601,000	41,500	5,540,000
5,700,000	376,000	4,802,000	5,010,000	43,500	3,755,000
7,450,000	310,000	5,136,000	4,402,000	45,000	3,550,000
7,837,000	320,000	5,485,000	4,831,000	45,000	3,925,000
6,840,000	445,000	5,014,000	4,516,000	46,000	5,200,000
5,389,064	444,000	5,510,000	4,787,000	46,500	6,446,000
91,659,564	\$5,349,000	58,483,500	\$53,399,000	518,000	\$60,061,000

Turkey Eggs Each	Turkeys & Eggs Value	Pounds Packaged Bees	Honey Tons	Bees & Honey Value	Lumber & Logs Bd. Feet	Lumber & Logs Value
360,000	\$ 473,000	20,000	135	\$ 19,000		\$
99,000	303,000	19,700	270	34,000		
1,000	1,205,000	30,000	114	76,500	500,000	20,000
335,000	784,000	37,500	220	164,000	1,400,000	100,000
315,000	409,000	39,000	187	105,000	500,000	50,000
75,000	300,000	38,500	238	131,000	5,000,000	500,000
320,000	332,000	32,000	244	97,000	1,800,000	122,000
400,000	547,000	25,000	144	63,500	7,000,000	240,000
351,000	686,000	24,500	462	123,000	29,000,000	1,067,500
440,000	697,000	26,500	450	131,500	23,000,000	1,647,500
290,000	433,000	25,000	325	121,500	27,000,000	1,956,000
317,000	599,000	25,000	325	95,000	32,000,000	2,000,000
376,000	477,000	32,000	425	125,000	37,000,000	2,600,000
400,000	436,000	38,000	400	143,000	39,500,000	2,902,000
833,636	538,000	52,850	210	157,000	69,000,000	2,501,800
6,052,636	\$8,219,000	465,550	4,149	\$1,586,000	272,700,000	\$15,706,800

## CHEMICALS USED BY THIS DEPARTMENT

### RODENT AND PEST ANIMAL CONTROL:

Strychnine-treated barley .....	5,696 pounds
Strychnine-treated milo .....	204 pounds
Strychnine-treated rice .....	22 pounds
Zinc-phosphide-treated barley .....	38 pounds
Warfarin-treated bait .....	452 pounds
Pival-treated bait .....	3,538 pounds
"1080" treated bait .....	55 pounds

### INSECT CONTROL:

Aldrin .....	5 quarts
Aldrin dust, 5% .....	300 pounds
Aramite .....	18 pounds
Bordeaux .....	40 pounds
BHC .....	693 pounds
Chlordane Dust, 5% .....	100 pounds
Chlordane, 72% .....	64 quarts
Coppers .....	16 pounds
Cyanogas .....	48 ounces
DDT, 50% .....	660 pounds
DDT, 75% .....	156 quarts
Dieldrin, 1.7% .....	69 quarts
Dieldrin-treated bran .....	9,553 pounds
Kil-Moe .....	8 pints
Kolo-Fog .....	18 pounds
Lead Arsenate (basic) .....	139 pounds
Malathion dust .....	10 pounds
Malathion .....	116 quarts
Methyl Bromide Gas .....	506 c. c.
Methyl Bromide .....	28 pounds
Ortho Mite, 15% .....	8 pounds
Sodium Arsenate .....	5 pounds
Summer spray oil .....	258 gallons
Ziran (Zinc Carbonate) .....	9 pounds
Spreader .....	200 pounds

### WEED CONTROL:

Amino Triazole .....	24 pounds
Boraxo .....	150 pounds
Chlorea .....	300 pounds
Contact weed killers .....	2 quarts
D-B Granular .....	275 pounds
Dalapon .....	200 pounds
Diesel .....	2,830 gallons
Dow General weed killer .....	4 gallons
Dowpon .....	100 pounds
Esteron 10-10 .....	58 gallons
Kerosene .....	116 gallons
Niatox .....	50 pounds
Radapon .....	200 pounds
Sinox .....	15 gallons
Sulfur .....	195 pounds
Sodium Chlorate .....	300 pounds
Spreader D-40 .....	85 pounds
2,4-D .....	308 gallons
Ureabor .....	380 pounds
Weedall (Shell) .....	905 gallons
Weed Killer, Shell 20 .....	710 gallons
White gasoline .....	100 gallons
X-77 Spreader .....	324 ounces
Spray material applied to shade trees .....	12,000 gallons
Spray material applied for weed control .....	45,000 gallons

**The Following Table Was Compiled From Commercial Pest Control Operators' Reports And From Permits Issued To Private Farm And Orchard Operators.**

Crop	Acreage Treated By Aircraft		Acreage Treated By Ground Rig		Total Acreage Treated
	Herbicides	Insecticides	Herbicides	Insecticides	
FIELD CROPS:					
Rice .....	20,535	6,776			27,311
Yellow Corn .....	490	651	219		1,360
Barley .....	15,127		8,411		23,538
Milo .....		614	1,750		2,364
Alfalfa .....		5,054		895	5,949
Ladino .....	2,473	3,357	2,779	375	8,984
Other Clovers .....	100	545		121	766
Sudan .....		481			481
Beans & Peas .....		1,224			1,224
Other Grains .....	160	1,542	91		1,793
FRUITS & NUTS:					
Almonds .....				857	857
Walnuts .....		358		537	895
Peaches, Prunes & Apricots .....		137		527	664
Oranges .....				45	45
Olives .....		10			10
MISCELLANEOUS:					
Weeds & Summer Fallow ..	200		2,724		2,924
Pasture .....	105	437	681	35	1,258
Tomatoes, Cabbage		55			55
TOTALS .....	39,190	21,241	16,655	3,392	80,478

**GRAIN TREATED: 508,259 Cwt.**

410 Permits issued to use herbicides in weed control.  
94 Permits issued to use injurious materials in insect control.

New legislation requires that a permit must be obtained from the Agricultural Commissioner's office before certain pesticides can be purchased. (Section 1080 and 1080.1 Agricultural Code.) The following is a list of materials for which a permit is necessary.

1. Pest control materials containing calcium arsenate, standard lead arsenate or copper acetoarsenite (Paris Green), in dust form.
2. Pest control materials containing tetraethyl pyrophosphate (TEPP).
3. Pest control materials containing parathion.
4. Pest control materials containing ethyl-para-nitrophenyl thionebenzene phosphate (EPN).
5. Pest control materials containing octamethyl pyrophosphoramidate (OMPA).
6. Pest control materials containing 0-0-diethyl-0-2 (ethylmercapto)-ethyl thio-phosphate (systox) (demeton).
7. 2,4-dichlorophenoxyacetic acid (2,4-D).
8. 2,4,5-trichlorophenoxyacetic acid (2,4,5-T).
9. 2-methyl-4-chlorophenoxyacetic acid (MCP).
10. 2,4-dichlorophenoxypropionic acid (2,4-DP).
11. 2,4,5-trichlorophenoxypropionic acid (Silvex).
12. Phosdrin (alpha-2-carbomethoxy-1-methylvinyl dimethyl).

# ANNUAL RAINFALL AT WILLOWS, CALIFORNIA

## 79 YEARS — 1878-1957

Year	Inches	Year	Inches	Year	Inches
1878-1879.....	7.01	1905-1906.....	19.85	1932-1933.....	7.79
1879-1880.....	13.96	1906-1907.....	17.88	1933-1934.....	15.65
1880-1881.....	13.85	1907-1908.....	13.44	1934-1935.....	19.62
1881-1882.....	8.28	1908-1909.....	22.09	1935-1936.....	17.48
1882-1883.....	8.45	1909-1910.....	14.36	1936-1937.....	16.40
1883-1884.....	18.84	1910-1911.....	17.75	1937-1938.....	26.28
1884-1885.....	7.80	1911-1912.....	11.26	1938-1939.....	6.82
1885-1886.....	19.15	1912-1913.....	13.18	1939-1940.....	23.21
1886-1887.....	8.07	1913-1914.....	29.18	1940-1941.....	40.50
1887-1888.....	8.97	1914-1915.....	27.19	1941-1942.....	24.07
1888-1889.....	10.30	1915-1916.....	18.11	1942-1943.....	15.68
1889-1890.....	29.94	1916-1917.....	11.43	1943-1944.....	13.52
1890-1891.....	19.01	1917-1918.....	11.90	1944-1945.....	16.94
1891-1892.....	18.82	1918-1919.....	12.90	1945-1946.....	14.72
1892-1893.....	27.30	1919-1920.....	7.70	1946-1947.....	12.28
1893-1894.....	11.15	1920-1921.....	21.28	1947-1948.....	19.56
1894-1895.....	26.04	1921-1922.....	13.44	1948-1949.....	15.59
1895-1896.....	22.18	1922-1923.....	16.81	1949-1950.....	10.32
1896-1897.....	18.82	1923-1924.....	8.86	1950-1951.....	17.48
1897-1898.....	6.58	1924-1925.....	25.99	1951-1952.....	23.50
1898-1899.....	13.05	1925-1926.....	18.44	1952-1953.....	19.70
1899-1900.....	15.23	1926-1927.....	25.99	1953-1954.....	16.64
1900-1901.....	17.49	1927-1928.....	17.54	1954-1955.....	14.57
1901-1902.....	21.67	1928-1929.....	11.46	1955-1956.....	23.24
1902-1903.....	17.10	1929-1930.....	16.37	1956-1957.....	19.11
1903-1904.....	20.28	1930-1931.....	9.85		
1904-1905.....	24.55	1931-1932.....	15.01		

## PLANT QUARANTINE

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### INTERSTATE SHIPMENTS: (incoming)

Number of bulk shipments passed .....	9
Number of units passed .....	150
Number of non-bulk shipments passed .....	722
Number of plants passed .....	20,783
Number of non-bulk shipments rejected .....	1
Number of plants rejected .....	2
Number of railroad cars inspected, grain .....	235
Number of railroad cars passed .....	216
Number of railroad cars held in quarantine .....	19

### EXPORT CERTIFICATION: (interstate and foreign, outgoing)

Number of certificates issued .....	59
Number of containers .....	8,347
Number of pounds .....	775,955

### INTRASTATE SHIPMENTS: (incoming)

Number of non-bulk shipments passed .....	314
Number of plants passed .....	53,680
Number of non-bulk shipments rejected .....	10
Number of plants rejected .....	110

### EXPORT CERTIFICATION: (intrastate, outgoing)

Number of bulk shipments released .....	7
Number of railroad cars released .....	54

## APIARY INSPECTION

	Apiaries	Colonies
Registered during 1957 .....	243	8,350
Entering County .....	69	3,065
Leaving County .....	95	4,014
Moving within the County .....	96	3,125
Inspected during 1957 .....	60	2,128
Infected with American Foulbrood .....	10	30
Burned for American Foulbrood control .....	10	30

## WEIGHTS AND MEASURES REPORT — 1957

TESTED AND SEALED WITHOUT CORRECTION: TOTAL — 1,164

- 83 Counter scales
- 19 Spring scales
- 45 Computing scales
- 87 Platform & Dormant scales
- 11 Hopper scales
- 39 Livestock scales
- 43 Vehicle scales
- 6 Meat Beams and Steelyards
- 240 Weights
- 2 Vehicle tank compartments gauged
- 204 Retail pumps and meters
- 76 Grease meters
- 2 Linear measures
- 187 Liquid capacity measures
- 119 Lubricating oil bottles tested for capacity
- 3 Farm holding tanks

TESTED AND SEALED AFTER CORRECTION: TOTAL — 109

- 7 Counter scales
- 7 Computing scales
- 20 Platform & Dormant scales
- 4 Hopper scales
- 7 Livestock scales
- 9 Vehicle scales
- 1 Meat Beam & Steelyard
- 6 Weights
- 3 Vehicle tank meters
- 45 Retail pumps and meters

TESTED AND FOUND TO BE OUT OF ORDER: TOTAL — 59

- 4 Counter scales
- 2 Spring scales
- 9 Computing scales
- 14 Platform & Dormant scales
- 2 Livestock scales
- 4 Vehicle scales
- 4 Meat Beams and Steelyards
- 1 Weight
- 11 Retail pumps and meters
- 8 Grease meters

EQUIPMENT CONDEMNED AND CONFISCATED: TOTAL — 4

- 4 Weights

Signs Inspected: 660. (625 found correct, 35 were corrected).

Establishments visited during 1957: 338

Certificates of inspection issued: 298

Packages or Containers Inspected: 2,151.

Light — 25

Correct — 2005

Heavy — 121

## Functions of the Glenn County Department of Agriculture

### PLANT QUARANTINE INSPECTION:

Inspecting shipments at destination to prevent entry of weed seeds, plant diseases and insects or animals injurious to agriculture, and to determine compliance with state quarantine laws.

### STANDARDIZATION:

The inspection of fruits, nuts, vegetables, honey, eggs and poultry-meat. Inspection of commodities at packing houses, farms, wholesale and retail markets to enforce requirements established for quality, pack and labeling.

### SEED INSPECTION:

Inspecting establishments selling agricultural seeds; to enforce seed labeling and purity requirements.

### SEED CERTIFICATION:

Inspecting harvesting equipment, seed cleaning mills; sampling and labeling of seed eligible for certification.

### ORCHARD & FIELD INSPECTION:

To carry on regular inspections of field and orchard crops for pest detection — plant disease, insect pests and weed pests.

### INSECT CONTROL:

To conduct regular inspections of grain storage locations and orchards; to place and service insect traps in checking for new insects.

### RODENT CONTROL:

Inspecting properties for field rodents and other animal pests, and where necessary distributing bait for control purposes.

### PEST CONTROL:

Registering all Pest Control Operators, issuing permits to apply dangerous materials for weed control and insect control, and enforcing certain safety regulations.

### WEED CONTROL:

Carry on control and eradication measures against all primary noxious weed locations in the county, to carry on limited control against certain secondary noxious weeds.

### PLANT DISEASE:

To carry on control or eradication programs for certain Bacterial, Fungus and Virus Diseases.

### APIARY INSPECTION:

Inspecting the 8400 registered colonies of bees and requiring eradication of American Foulbrood disease in all apiaries, and maintaining a register of all bee colonies.

### NURSERY:

Make regular inspections of all nurseries and nursery stock to prevent spread of insects and other pests.

### STATISTICS:

Prepare a weekly report on weather and crop conditions for the State Crop Reporting Service. Compile monthly and annual reports to the Board of Supervisors and State Department of Agriculture, and such other reports as required.

### COOPERATION:

Cooperating with the United States Department of Agriculture, State Department of Agriculture, University of California Extension Service, farm groups, and other public and private agencies.

### WEIGHTS AND MEASURES:

Inspecting and sealing of all service station gasoline pumps and meters, tank trucks, oil measures, large capacity scales, milk tanks, retail scales in grocery stores, and all other weights and measure devices in the county.

## COMMENTS

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The 1957 farm income in Glenn County of \$43,000,000 was the highest ever recorded. Crop yields were above average and the gross income was the highest on record. An ample supply of rainfall when it was most needed gave crops a big boost and high yields were the result. The increased prices for cattle, lambs and hogs coupled with fairly stable prices for other farm commodities, along with some expansion in the dairy industry, were all important factors in making the grand total possible.

Ladino Clover seed, which has been a top money crop for many years, fell far short this year because of the large carryover of old seed and declining prices. However, this loss has been more than offset by the increase in production of other crops.

In addition to the farm income, many farmers are benefiting from land rentals and royalties from California's second-largest gas field which is located in Glenn County.

During the year, 2,094 properties were inspected for Meyer Lemon trees, which had been proven to be a carrier for Quick Decline of Citrus; 252 trees were located and removed from 208 properties.

The department cooperated with the State Department of Agriculture in placing 172 insect traps in orchards throughout the county for detection of the Walnut Husk Fly, Mediterranean Fruit Fly, Melon Fly, Oriental Fruit Fly, Codling Moth and Mexican Fruit Fly.

The Khapra Beetle Detection program was continued with the inspection of 272 farm storage locations. Sixty-seven insect traps were placed in 18 warehouses and mills. No Khapra Beetles were found.

Two hundred thirty-nine carloads of milo were inspected, 19 carloads of this grain were found infested with noxious weed seeds and placed under quarantine.

Fifty-eight farm storage bins were inspected for primary noxious weed seeds and given a "clean grain certificate".

In addition to the above listed inspections, surveys were made for Grasshoppers, Yellow Scale, Olive Parlatoria Scale, Red Scale, Spotted Alfalfa Aphid, Armyworm, Codling Moth and Mites.

It has been estimated that California annually sustains a \$300,000,000 loss due to weeds. Each year farmers are exerting a greater interest in weed control. During the year, records available indicate that nearly \$225,000 was spent in Glenn County to control weeds. Individual farmers, pest control operators, irrigation districts and the County Department of Agriculture, all worked toward a common goal—first, to reduce the primary noxious weed infestations, and second, to better control many of the secondary noxious weeds.



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1958

*Rep. of Calif. Counties*

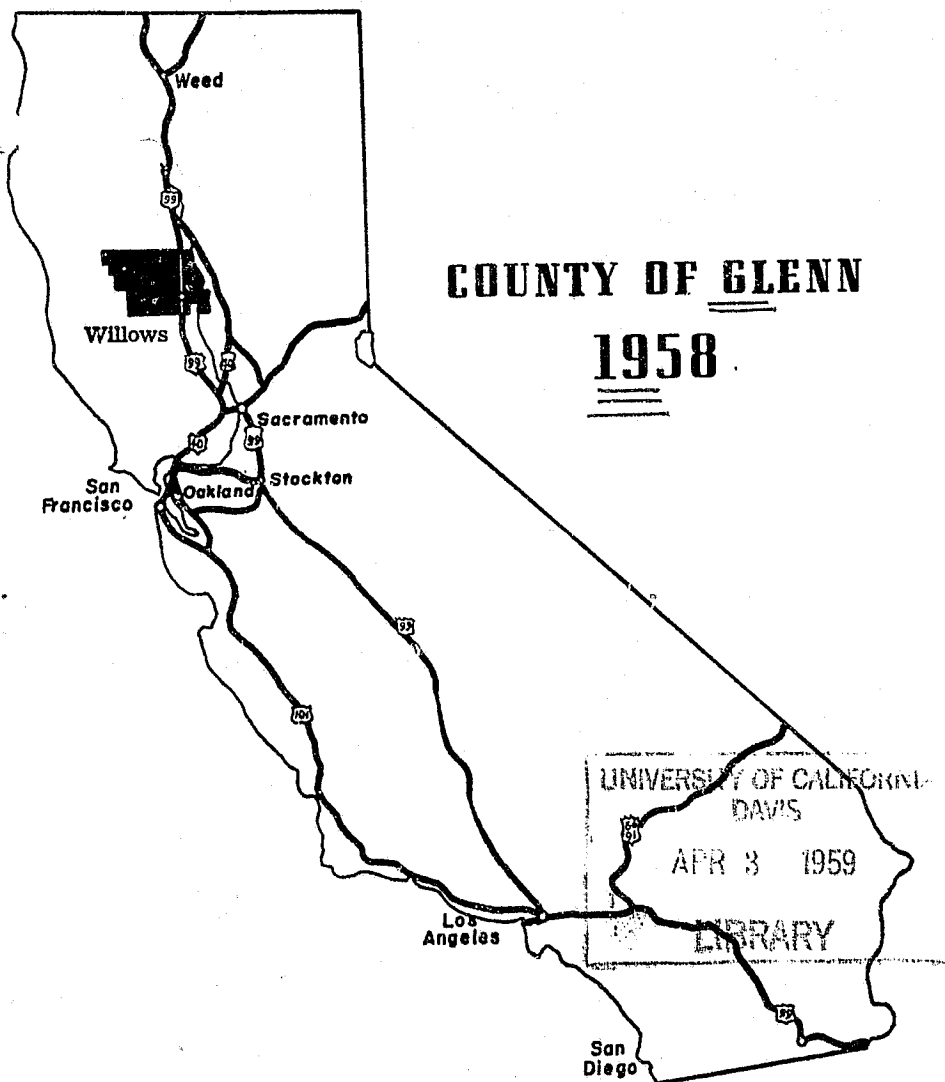
# ANNUAL REPORT

P. V. HARRIGAN

Agricultural Commissioner

and

Sealer of Weights and Measures



**GLENN COUNTY DEPARTMENT OF AGRICULTURE**  
WILLOWS, CALIFORNIA

**ANNUAL REPORT**  
**1958**

**P. V. HARRIGAN**  
Agricultural Commissioner  
and  
Sealer of Weights and Measures

**BOARD OF SUPERVISORS**  
George S. Lewis, Chairman  
C. E. Polzin                      G. E. (Nip) Roberts  
George J. Otterson              W. L. Linville

## GLENN COUNTY DEPARTMENT OF AGRICULTURE

Memorial Building, Willows, California

December 31, 1958

P. V. Harrigan  
Agricultural Commissioner  
Sealer of Weights and Measures

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W. C. Jacobsen, Director  
State Department of Agriculture  
and  
Glenn County Board of Supervisors

Gentlemen:

Section 65.5 of the California Agricultural Code requires that the Agricultural Commissioner compile a report covering conditions, acreage, production and value of the agricultural products of his county; and, Section 65 requires that the Commissioner keep a record of his official acts and make an annual report to the Director of Agriculture on the conditions of the agricultural interests in his county; and, further, Section 30 indicates that the Agricultural Department shall promote and protect the agricultural industry of the state.

This is the twenty-second annual report published by this department. The members of the department have made every effort to make this report as accurate as possible by checking the figures with many sources of reliable information.

The 1958 Glenn County farm income climbed to a new high of \$45,448,000 and is an increase of \$2,448,000 over the previous high year of 1957.

Except for two crops, barley and almonds, the farm production was about on an equal basis with other years. The heavy rainfall early in the year caused severe damage to barley plantings and as a result the harvested crop was 1,100,000 sacks less than the previous year; and the weather was directly the cause of the 2,600,000 pound loss in the almond crop because the weather prevented spraying at the proper time and also interfered during the critical pollenization period. To offset these two low-income crop yields, six other crops — milo, safflower, beans, sugar beets, ladino clover and oranges — moved ahead to new highs in production and substantial price increases.

Other high points of interest in the farm income were the increase both in the number of livestock sold and the nearly 12% raise in value of the cattle sold.

Another forward move and of interest to the future income of the county was the planting of 81,928 young fruit and nut trees. These trees represent nearly 1,000 acres of new plantings. Almonds and prunes were by far the largest plantings, with pears, citrus and walnuts being about equal, and lesser acreages planted to olives and peaches.

I wish to express my sincere appreciation to all those who have cooperated in helping to make this report possible.

Respectfully submitted,

*P. V. Harrigan*

P. V. HARRIGAN  
Agricultural Commissioner

## GLENN COUNTY'S POSITION IN STATE PRODUCTION

Below is listed Glenn County's position in comparison to the 58 counties of California:

Glenn County ranks 21st place in Agricultural Crop Value

Land area .....	35th
Ladino clover seed .....	1st
Sheep and Lambs .....	1st
Packaged Bees .....	2nd
Rice .....	4th
Safflower .....	4th
Hogs .....	7th
Olives .....	9th
Permanent pasture (irrigated) .....	9th
Figs .....	9th
Almonds .....	10th
Prunes .....	11th
Barley .....	11th
Dairy Stock .....	12th
Oranges .....	12th
Citrus .....	13th
Alfalfa .....	15th
Apricots .....	19th
Pears .....	20th
Wheat .....	20th
Dry Beans .....	22nd
Walnuts .....	22nd
Sugar Beets .....	23rd
Cattle, all .....	23rd
Peaches .....	24th
Commercial forest land .....	28th

### WILDLIFE:

Geese .....	1st
Ducks .....	2nd
Pheasants .....	2nd
Muskrats .....	4th
Deer .....	32nd

The following are commodities produced in the county that grossed over a million dollars each during 1958:

- |                       |                   |
|-----------------------|-------------------|
| 1. Rice               | 8. Alfalfa Hay    |
| 2. Cattle             | 9. Orchard crops  |
| 3. Fat Cattle         | 10. Prunes        |
| 4. Manufacturing milk | 11. Market milk   |
| 5. Lambs              | 12. Barley        |
| 6. Milled Lumber      | 13. Milo          |
| 7. Irrigated Pasture  | 14. Ladino Clover |

### PETROLEUM INCOME

Natural gas — 2nd largest field in California

# **PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS** **GLENN COUNTY, CALIFORNIA — 1958**

FIELD CROPS	Acreage	Production	Values	Totals
Rice .....	34,659	1,628,973 cwt.	\$6,744,000	
Barley .....	67,000	653,250 cwt.	1,450,200	
Wheat .....	3,623	90,550 cwt.	292,500	
Oats .....	1,000	11,000 cwt.	25,000	
Milo .....	13,450	470,750 cwt.	1,059,200	
Safflower .....	10,500	110,000 cwt.	412,500	
Beans .....	1,330	22,610 cwt.	158,300	
Field Corn .....	4,530	135,900 cwt.	290,800	
Sugar Beets .....	1,112	18,901 tons	245,700	\$10,678,200
<b>FORAGE</b>				
Silage Corn .....	1,800	30,600 tons	183,600	
Alfalfa Hay .....	17,000	85,000 tons	1,870,000	
Clover Hay .....	10,000	15,000 tons	210,000	
Mixed Hay .....	12,000	30,000 tons	540,000	2,803,600
<b>PASTURE</b>				
Irrigated Pasture ....	61,000		2,440,000	
Range .....	250,000		315,000	
Stubble .....	100,000		200,000	2,955,000
<b>SEED CROPS</b>				
Ladino Clover .....	6,816	2,044,800 lbs.	1,022,400	
Other Clover .....	620	127,000 lbs.	42,600	
Sudan .....	440	792,000 lbs.	63,400	
Alfalfa .....	540	162,000 lbs.	32,400	
Trefoil & Mixture ....	350	72,500 lbs.	42,500	
Other Seed .....		600,000 lbs.	42,000	1,245,300
<b>ORCHARD CROPS</b>				
	Non-Bearing	Bearing		
Almonds .....	686	3,742	668,000 lbs.	258,500
Apricots .....	1	161	870,000 lbs.	69,000
Olives .....	147	809	1,240,000 lbs.	72,000
Oranges .....	11	652	240,000 ctns.	840,000
Peaches .....	8	84	460,300 lbs.	14,100
Prunes .....	376	1,357	8,500,000 lbs.	1,572,500
Pears .....	130	129	4,800,000 lbs.	401,000
Walnuts .....	335	769	1,384,000 lbs.	207,600
Walnuts, Black			108,000 lbs.	4,000
Almond Hulls				
& Fruit Pits			1,200 tons	33,000
				3,471,700
<b>POULTRY</b>				
Poultry, live .....		28,000 lbs.	5,600	
Eggs .....		143,453 doz.	57,400	
Turkeys, live .....		1,374,240 lbs.	329,800	
Turkey Hatching Eggs .....		850,000 each	221,000	613,800

## PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS

(Continued)

LIVESTOCK		Production	Values	Totals
Dairy Cattle				
Market Milk .....	1,217,000 lbs.		\$1,509,000	
Mfg. Milk .....	3,808,000 lbs.		3,123,000	
Beef Cattle				
Fat Cattle .....	23,500 hd.		6,039,000	
Cattle .....	22,000 hd.		3,696,000	
Calves .....	14,500 hd.		261,000	
By-Products .....			50,000	
Sheep .....	37,000 hd.		246,000	
Lambs .....	137,000 hd.		2,865,000	
Wool .....	1,278,000 lbs.		716,000	
Pelts .....	4,000 ea.		11,000	
Hogs .....	18,184 hd.		612,000	\$19,128,000
<b>APICULTURE</b>				
Bees, Registered — 8,129 Col.				
Packaged Bees .....	60,293 lbs.		112,800	
Queens .....	25,100 ea.		31,400	
Honey .....	666,025 lbs.		60,000	
Beeswax .....	12,274 lbs.		5,600	
Pollination .....			21,300	231,100
<b>GOVERNMENT PAYMENTS</b>				
Agriculture Conservation .....			60,700	
Wool Payment .....			95,100	
Rice Acreage Reserve .....			226,700	
Sugar Beet, Processor & Import Tax Payment .....			23,800	406,300
<b>FOREST PRODUCTS</b>				
Logs shipped .....	36,500,000 bd. ft.		1,065,000	
Milled Lumber shipped .....	35,000,000 bd. ft.		2,450,000	3,515,000
Land Lease Rental to Gas Industries .....			400,000	400,000
<b>GRAND TOTAL AGRICULTURAL INCOME — 1958</b> .....				\$45,448,000
Estimated Income For Natural Gas .....				\$ 3,000,000

### AGRICULTURAL INCOME TOTALS FOR 22 YEARS

Year	Amount	Year	Amount
1937 .....	\$ 6,450,700	1949 .....	\$ 24,820,000
1938 .....	5,670,300	1950 .....	30,637,000
1939 .....	7,698,200	1951 .....	39,005,000
1940 .....	8,206,700	1952 .....	42,473,700
1941 .....	10,587,500	1953 .....	33,267,000
1942 .....	11,973,200	1954 .....	31,364,000
1943 .....	13,824,600	1955 .....	34,570,000
1944 .....	19,047,000	1956 .....	37,970,000
1945 .....	18,577,000	1957 .....	43,000,000
1946 .....	22,260,000	1958 .....	45,448,000
1947 .....	27,935,000		
1948 .....	27,070,000	22-Year Total .....	\$541,854,900

## ECONOMIC RESOURCES

Water Resources: Sacramento River, Feather River, Stony Creek, Grindstone Creek  
and Butte Creek.

Water Storage: Shasta Dam on Sacramento River; Stony Gorge Dam on Stony  
Creek; East Park Dam on Stony Creek.

Irrigation Districts in Operation:	Acres
Orland, U. S. Reclamation District — Stony Creek .....	20,000
Glenn-Colusa Irrigation District — Sacramento River .....	54,435
Jacinto Irrigation District — Sacramento River .....	12,560
Provident Irrigation District — Sacramento River .....	12,520
Princeton-Codora-Glenn — Sacramento River .....	7,000
Willow Creek Mutual Water Company — Sacramento River .....	1,000
Loam Ridge Irrigation District — Pumps .....	1,200
Western Canal Company — Feather River .....	11,000
Stony Creek Valley, Riparian Water Rights .....	3,800
Pump irrigation from farm wells .....	40,600
<b>TOTAL ACREAGE UNDER IRRIGATION .....</b>	<b>164,115</b>

Other Land Suitable For Irrigation:	
Orland-Artois Irrigation District .....	18,000
Kanawha Irrigation District .....	2,800
West of present irrigation systems .....	71,000
Butte City District, East of Sacramento River .....	25,000
Stony Creek Valley .....	4,436
West of Orland on Stony Creek, below proposed Black Butte Dam .....	15,000
Sloping land and foothill valleys .....	40,609
<b>ADDITIONAL ACREAGE SUITABLE FOR IRRIGATION .....</b>	<b>176,845</b>
<b>TOTAL IRRIGABLE LAND IN GLENN COUNTY .....</b>	<b>340,960</b>

Total Acreage in Glenn County .....	880,000
Acres in Farm Land .....	319,000
Acres in Range Land .....	287,000
Acres in National Forest .....	221,568
Acres of Commercial Timber Land .....	113,000
Board Feet of Standing Timber .....	3,000,000,000

Species of merchantable trees: Sugar Pine, Ponderosa (yellow) Pine,  
Douglas Fir, White Fir, Red Fir and Incense Cedar.

Sawmills in Operation .....	1
Natural Gas Wells in Production .....	65
Number of Farms in County .....	1,425
Population of Glenn County .....	16,790



## RESOURCES

Lakes .....	Plaskett Meadows, Stony Gorge Dam and Packer Lake	5
County Parks .....		65
Forest Camp Grounds Improved (Units) .....		40,000
Visitations annually to National Forest areas .....		221,568
Forest Acreage .....		7,450
Elevation in Forest — Highest Point .....		

### Kinds of Fish:

Mountain streams — Rainbow Trout, Steelhead  
 Rivers — Striped Bass, Black Bass, Salmon, Shad,  
                     Catfish, Steelhead, Rainbow Trout, Sturgeon.  
 Lakes — Black Bass, Catfish, Sunfish, Crappie, Bluegill.

(Length in miles through Glenn County)		
Rivers and Creeks:		40
Sacramento River .....		7
Black Butte River, a tributary of Eel River .....		68
Stony Creek, main stream .....		12
Stony Creek, north fork .....		12
Briscoe Creek .....		28
Grindstone Creek .....		6
Cold Creek .....		37
Willow Creek .....		12
Butte Creek .....		20
Walker Creek .....		

### Estimated number of wild game:

Columbia Black Tail Deer .....	12,000
California Black Bear .....	200
Wild Ducks .....	1,350,000
Wild Geese .....	200,000
Ring-neck Pheasants .....	60,000
California Valley and Mountain Quail .....	40,000
Mourning Doves .....	70,000
Band-tail Pigeons .....	10,000
Beaver .....	250
Otter .....	75

### Estimated number of predators:

Mountain Lions .....	30
Coyotes .....	3,000
Bobcats .....	2,000
Badgers .....	200
Raccoons .....	15,000
Skunks .....	10,000
Mink .....	500
Grey Fox .....	6,000
Red Fox .....	200

### Wild Game reported killed by Licensed Hunters and Trappers:

Deer .....	564
Mountain Lions .....	7
Coyotes .....	139
Muskrats, trapped .....	6,000
Beaver .....	31
Raccoon .....	84
Bobcat .....	2
Possum .....	9
Skunk — Spotted .....	14
Skunk — Striped .....	51
State licensed trappers in Glenn County .....	18

# PRODUCTION AND VALUE C

Year	Rice Cwt.	Rice Value	Barley Cwt.	Barley Value	Ladino Seed Pounds	Ladino Seed Value
1940	409,000	\$ 511,000	317,500	\$ 259,000	119,000	\$ 96,000
1945	690,000	2,243,000	675,000	1,671,000	350,000	525,000
1946	1,030,000	4,500,000	700,000	2,233,000	440,000	560,000
1947	1,168,000	7,010,000	680,000	2,470,000	375,000	657,000
1948	840,000	4,200,000	1,112,000	3,172,000	670,000	1,106,000
1949	1,219,000	4,023,000	792,000	2,112,000	800,000	1,144,000
1950	900,000	4,050,000	651,000	1,510,000	2,280,000	2,736,000
1951	1,060,000	5,088,000	500,000	1,550,000	3,200,000	3,765,000
1952	1,500,000	9,000,000	500,000	1,700,000	4,650,000	4,500,000
1953	1,428,000	7,500,000	650,000	1,850,000	2,865,000	1,060,000
1954	1,400,000	6,300,000	750,000	1,800,000	1,915,000	1,053,000
1955	1,500,000	6,750,000	600,000	1,500,000	3,002,000	1,622,000
1956	1,500,000	6,400,000	750,000	1,690,000	3,050,000	1,525,000
1957	1,707,200	7,938,400	1,742,000	3,222,700	1,167,000	304,000
1958	1,629,000	6,744,000	653,000	1,450,200	2,044,800	1,022,400
TOTALS	18,000,200	\$82,257,400	11,072,500	\$28,189,900	26,927,800	\$2,775,400

Year	Prunes Pounds	Prunes Value	Olives Pounds	Olives Value	Oranges Boxes	Orange Value
1940	2,584,000	\$ 97,500	2,276,000	\$ 96,500	103,500	\$ 207,000
1945	6,000,000	600,000	2,690,000	464,000	85,000	340,000
1946	4,500,000	540,000	1,573,000	202,000	120,000	390,000
1947	7,000,000	500,000	4,479,000	444,000	78,000	187,000
1948	6,000,000	420,000	4,181,000	324,000	45,000	225,000
1949	5,500,000	385,000	1,763,000	190,000	86,000	301,000
1950	3,300,000	418,000	3,123,000	558,000	78,000	234,000
1951	5,544,000	612,000	4,000,000	812,000	105,000	368,000
1952	5,750,000	630,000	3,650,000	580,000	86,000	350,000
1953	4,550,000	550,000	1,250,000	112,000	125,000	625,000
1954	7,800,000	877,000	5,000,000	375,000	120,000	490,000
1955	4,600,000	759,000	1,350,000	160,000	100,000	400,000
1956	7,500,000	900,000	6,165,000	308,000	90,500	428,000
1957	8,250,000	1,080,000	1,245,000	216,000	176,000	572,000
1958	8,500,000	1,572,500	1,240,000	72,000	240,000	840,000
TOTALS	87,378,000	\$9,941,000	43,985,000	\$4,913,500	1,638,000	\$5,957,000

Year	Hogs Head	Hogs Value	Lambs & Sheep Marketed Head	Wool Marketed Pounds	Sheep & Wool Value	Turkeys Pounds
1940	35,000	\$ 436,000	106,700	1,245,000	\$ 1,110,500	1,693,000
1945	17,500	612,500	141,000	1,160,000	2,262,000	2,382,000
1946	16,500	725,000	121,000	1,372,000	2,248,000	1,482,000
1947	15,000	900,000	127,500	1,000,000	2,490,000	785,000
1948	20,000	950,000	112,000	1,000,000	2,415,000	500,000
1949	25,000	1,125,000	102,000	840,000	2,388,000	550,000
1950	28,000	1,175,000	110,000	1,000,000	3,526,000	1,265,000
1951	47,500	2,000,000	130,000	1,375,000	4,263,000	1,250,000
1952	52,000	1,672,000	169,000	1,630,000	4,753,000	1,325,000
1953	30,000	994,000	163,000	1,200,000	3,397,000	850,000
1954	20,000	720,000	150,000	1,200,000	3,140,000	1,140,000
1955	22,000	700,000	160,000	1,260,000	2,937,000	1,200,000
1956	19,000	650,000	160,000	1,100,000	3,195,000	1,000,000
1957	18,000	612,000	170,000	1,278,000	3,748,000	1,409,400
1958	18,200	612,000	174,000	1,300,000	3,827,000	1,374,200
TOTALS	383,700	\$13,883,500	2,096,200	17,960,000	\$45,699,500	18,205,600

# OF PRINCIPAL COMMODITIES

	Other Field & Seed Crops Cwt.	Other Field & Seed Crops Value	Almonds Pounds	Almonds Value	Walnuts Pounds	Walnuts Value	
	118,000	\$ 137,000	2,016,000	\$ 302,000	1,203,000	\$ 63,000	
	97,000	309,000	1,900,000	741,000	542,000	90,000	
	118,000	300,000	2,000,000	744,000	492,000	97,000	
	127,000	427,000	2,000,000	680,000	587,000	91,000	
	129,000	554,000	1,250,000	286,000	550,000	85,000	
	193,000	501,000	3,000,000	650,000	1,237,000	159,000	
	91,000	407,000	3,500,000	1,085,000	929,000	141,000	
	66,000	361,000	3,500,000	1,050,000	1,166,000	212,000	
	112,000	578,000	3,750,000	1,025,000	1,085,000	199,000	
	223,000	895,000	3,300,000	780,000	920,000	155,000	
	268,000	1,205,000	2,225,000	587,000	875,000	123,000	
	502,000	2,842,000	1,150,000	460,000	800,000	214,000	
	1,995,000	1,871,000	3,900,000	1,560,000	1,032,000	228,000	
	2,095,000	1,230,000	2,125,000	1,170,000	594,200	143,000	
	1,237,000	2,707,000	668,000	258,500	1,384,000	207,600	
	371,000	\$14,324,000	36,284,000	\$11,378,500	13,396,200	\$2,207,600	
	Other Fruit Fresh & Dried Pounds	Other Fruit Fresh & Dried Value	Butterfat Pounds	Butterfat Value	Cattle & Calves Marketed Head	Cattle & Calves Value	
	3,083,500	\$ 95,000	1,879,000	\$ 751,000	9,000	\$ 676,000	
	4,649,000	328,000	3,343,500	2,841,000	24,500	1,636,500	
	9,763,000	839,000	2,973,000	2,902,000	23,500	1,695,000	
	6,072,000	390,000	3,400,000	3,260,000	29,000	3,240,000	
	2,382,000	119,000	3,690,000	4,001,000	31,500	4,770,000	
	6,330,000	270,000	3,621,000	3,033,000	43,500	4,134,500	
	4,177,000	295,000	3,711,000	3,711,000	41,300	7,000,500	
	7,562,000	440,000	3,807,000	3,970,000	44,200	8,294,500	
	9,112,000	510,000	3,875,000	4,601,000	41,500	5,540,000	
	5,700,000	376,000	4,802,000	5,010,000	43,500	3,755,000	
	7,450,000	310,000	5,136,000	4,402,000	45,000	3,550,000	
	7,837,000	320,000	5,485,000	4,831,000	45,000	3,925,000	
	6,840,000	445,000	5,014,000	4,516,000	46,000	5,200,000	
	5,389,100	444,000	5,510,000	4,787,000	46,500	6,446,000	
	6,130,000	484,000	5,025,000	4,632,000	60,000	10,046,000	
	92,476,600	\$5,665,000	61,271,500	\$57,248,000	574,000	\$69,909,000	
	Turkey Eggs Value	Turkeys & Eggs Value	Pounds Packaged Bees	Honey Tons	Bees & Honey Value	Lumber & Logs Bd. Feet	Lumber & Logs Value
	99,000	\$ 303,000	19,700	270	\$ 34,000		\$
	841,000	1,205,000	30,000	114	76,500	500,000	20,000
	635,000	784,000	37,500	220	164,000	1,400,000	100,000
	315,000	409,000	39,000	187	105,000	500,000	50,000
	75,000	300,000	38,500	238	131,000	5,000,000	500,000
	320,000	332,000	32,000	244	97,000	1,800,000	122,000
	400,000	547,000	25,000	144	63,500	7,000,000	240,000
	351,000	686,000	24,500	462	123,000	29,000,000	1,067,500
	410,000	697,000	26,500	450	131,500	23,000,000	1,647,500
	290,000	433,000	25,000	325	121,500	27,000,000	1,956,000
	317,000	599,000	25,000	325	95,000	32,000,000	2,000,000
	370,000	477,000	32,000	425	125,000	37,000,000	2,600,000
	400,000	436,000	38,000	400	143,000	39,500,000	2,902,000
	837,600	538,000	52,850	210	157,000	69,000,000	2,501,800
	837,000	551,000	60,300	333	204,200	71,500,000	3,515,000
	637,600	\$8,297,000	505,850	4,347	\$1,771,200	344,200,000	\$19,221,800

# ANNUAL RAINFALL AT WILLOWS, CALIFORNIA

## 80 YEARS — 1878-1958

Year	Inches	Year	Inches	Year	Inches
1878-1879.....	7.01	1905-1906.....	19.85	1932-1933.....	7.79
1879-1880.....	13.96	1906-1907.....	17.88	1933-1934.....	15.65
1880-1881.....	13.85	1907-1908.....	13.44	1934-1935.....	19.62
1881-1882.....	8.28	1908-1909.....	22.09	1935-1936.....	17.48
1882-1883.....	8.45	1909-1910.....	14.36	1936-1937.....	16.40
1883-1884.....	18.84	1910-1911.....	17.75	1937-1938.....	26.28
1884-1885.....	7.80	1911-1912.....	11.26	1938-1939.....	6.82
1885-1886.....	19.15	1912-1913.....	13.18	1939-1940.....	23.21
1886-1887.....	8.07	1913-1914.....	29.18	1940-1941.....	40.50
1887-1888.....	8.97	1914-1915.....	27.19	1941-1942.....	24.07
1888-1889.....	10.30	1915-1916.....	18.11	1942-1943.....	15.68
1889-1890.....	29.94	1916-1917.....	11.43	1943-1944.....	13.52
1890-1891.....	19.01	1917-1918.....	11.90	1944-1945.....	16.94
1891-1892.....	18.82	1918-1919.....	12.90	1945-1946.....	14.72
1892-1893.....	27.30	1919-1920.....	7.70	1946-1947.....	12.28
1893-1894.....	11.15	1920-1921.....	21.28	1947-1948.....	19.56
1894-1895.....	26.04	1921-1922.....	13.44	1948-1949.....	15.59
1895-1896.....	22.18	1922-1923.....	16.81	1949-1950.....	10.32
1896-1897.....	18.82	1923-1924.....	8.86	1950-1951.....	17.48
1897-1898.....	6.58	1924-1925.....	25.99	1951-1952.....	23.50
1898-1899.....	13.05	1925-1926.....	18.44	1952-1953.....	19.70
1899-1900.....	15.23	1926-1927.....	25.99	1953-1954.....	16.64
1900-1901.....	17.49	1927-1928.....	17.54	1954-1955.....	14.57
1901-1902.....	21.67	1928-1929.....	11.46	1955-1956.....	23.24
1902-1903.....	17.10	1929-1930.....	16.37	1956-1957.....	19.11
1903-1904.....	20.28	1930-1931.....	9.85	1957-1958.....	32.93
1904-1905.....	24.55	1931-1932.....	15.01		

**Glenn County 1958**

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