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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
<hr/> 35,339,005	<hr/> 8,594,353	<hr/> 50,102,360	<hr/> 1,305,936	<hr/> 67,977,341	<hr/> 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	500,900	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
<hr/> 18,810,228	<hr/> 20,233,172	<hr/> 5,585,119	<hr/> 473,693	<hr/> 3,547	<hr/> 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. (wetttable 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 λ senite	21 Gallons
Oronite	17 Pounds
Pyrenone	1 Quart
Aldrin	10 Pints
Malathon	5 Quarts
Parathion	256 Pounds
Multifilm	16 Pounds
Lindane (Liquid)	2 Gallons
Lindane (wetttable 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
Pentachlorphenol	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

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
TOTAL ACREAGE UNDER IRRIGATION	157,955
 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

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 productoin 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.

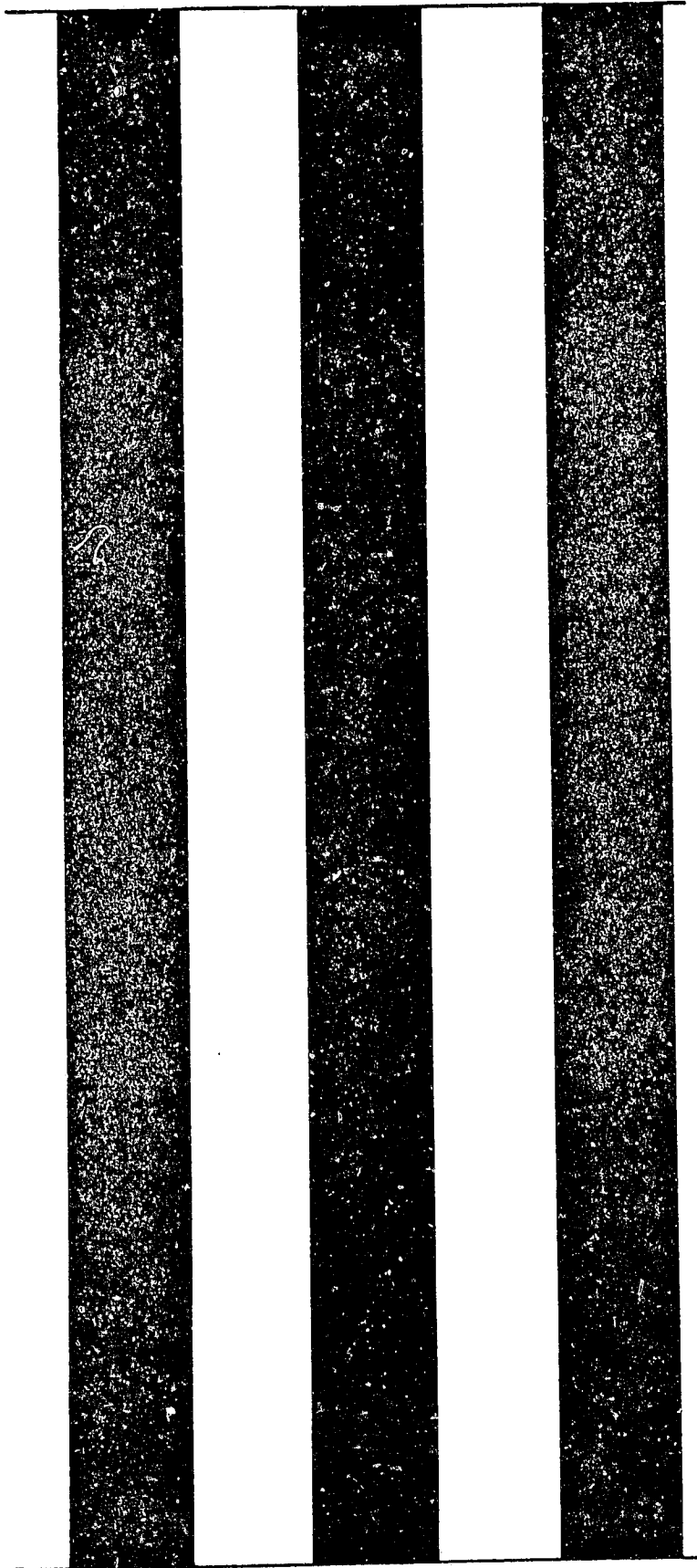
The Rice Leaf Miner early in the season caused heavy damage to some rice fields. It was necessary to spray 14,500 acres for the control of this pest. The proper application and control of the drift of insecticides and herbicides is a continuing problem.

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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Davis, California



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:

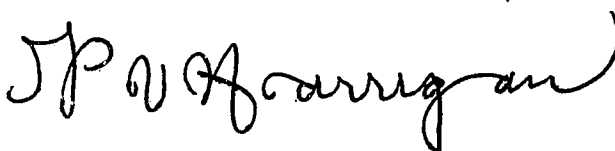
Section 65.5 of the California Agricultural Code requires that the Agricultural Commissioner compile a report covering conditions, acreage, production, and value of the agricultural products of his county; and, Section 65 requires that the Commissioner keep a record of his official acts and make an annual 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

CONTENTS

	Page
Fifteen Year Production and Value of Principal Commodities	8-9
Production and Value of Agricultural Products	4-5
Agricultural Resources	10
Chemicals Used by this Department	11
Commercial Pest Control Operators' Reports	7
Apiary Inspection	15
Plant Quarantine	15
Rainfall Record — 76 Years	6
Weights and Measures Report	16
Natural Economic Resources	12
Recreational Resources	13
Comments	14

PERSONNEL

P. V. Harrigan	Agricultural Commissioner
H. I. Tillotson, Jr.	Deputy Sealer and Inspector
Elroy Eberwein	Deputy Sealer and Seed Inspector
T. 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	Costs
	Cost of Material & Application	Cost of Material & Application	Cost of Material & Application	Cost of Material & Application	Cost of Material & Application	Cost of Material & Application		
FIELD CROP								
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
VEGETABLE CROPS								
Peas, Cucum- bers, Melons	205	1,148					205	1,148
DECIDUOUS FRUITS								
Insecticides	527	6,851			900	11,700	1,427	18,551
NUTS								
Insecticides	420	5,460	335	4,020	3,000	39,000	3,755	48,480
RANGE & PASTURE								
Insecticides	173	484			500	1,125	673	1,609
MISCELLANEOUS								
Herbicides ..	486	972	24	54	600	1,020	1,110	2,046
TOTALS	70,134	\$202,206	5,814	\$16,615	15,000	\$70,245	90,948	\$289,066

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	\$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	37,000	340,000
1946	4,500,000	540,000	1,573,000	201,500	170,000	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	481,900	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	2,639,000	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

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

AGRICULTURAL RESOURCES

	Acreage	Totals
FIELD CROPS		
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.

	Acres
Irrigation Districts in Operation:	
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
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	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)	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 2½ 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.

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

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.

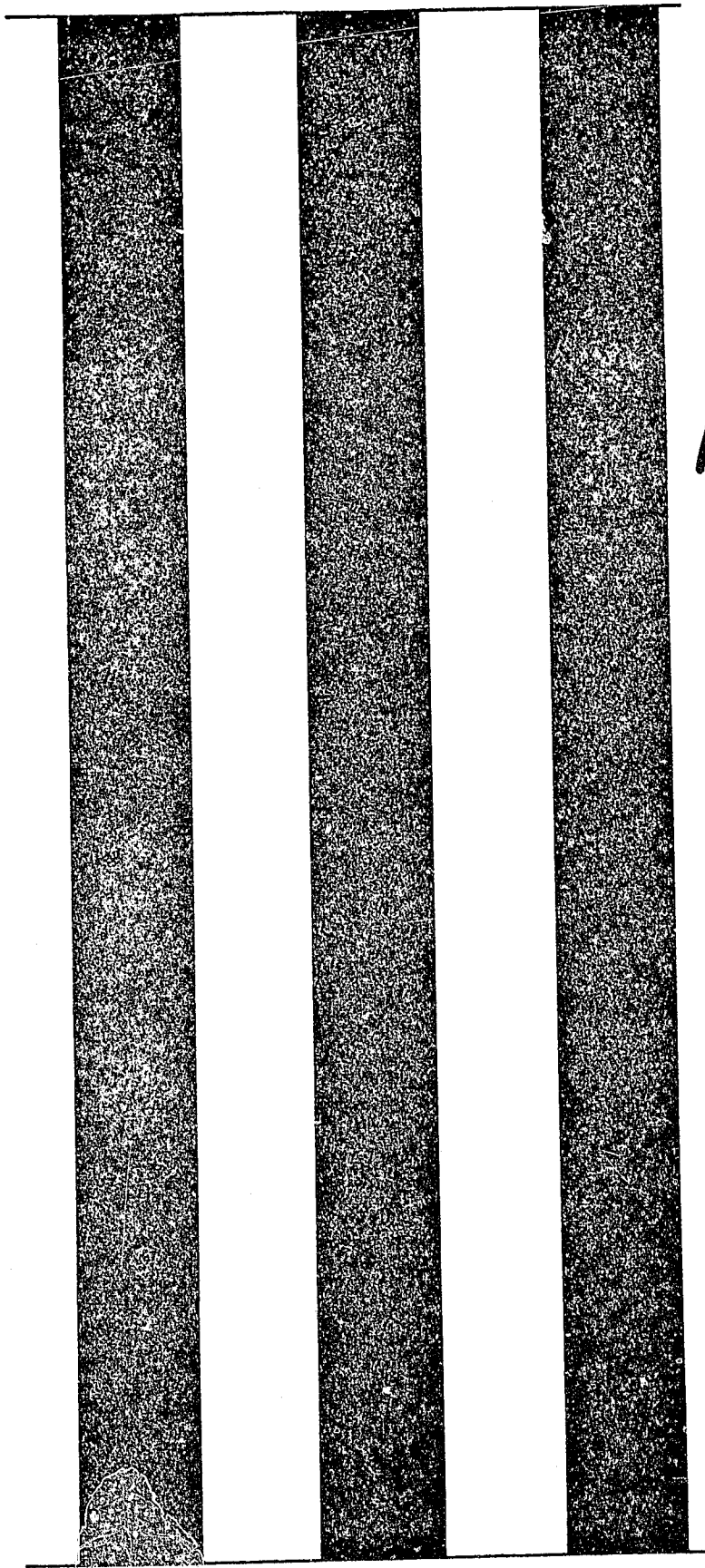
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P. V. HARRIGAN

Agricultural Commissioner

Willows, California

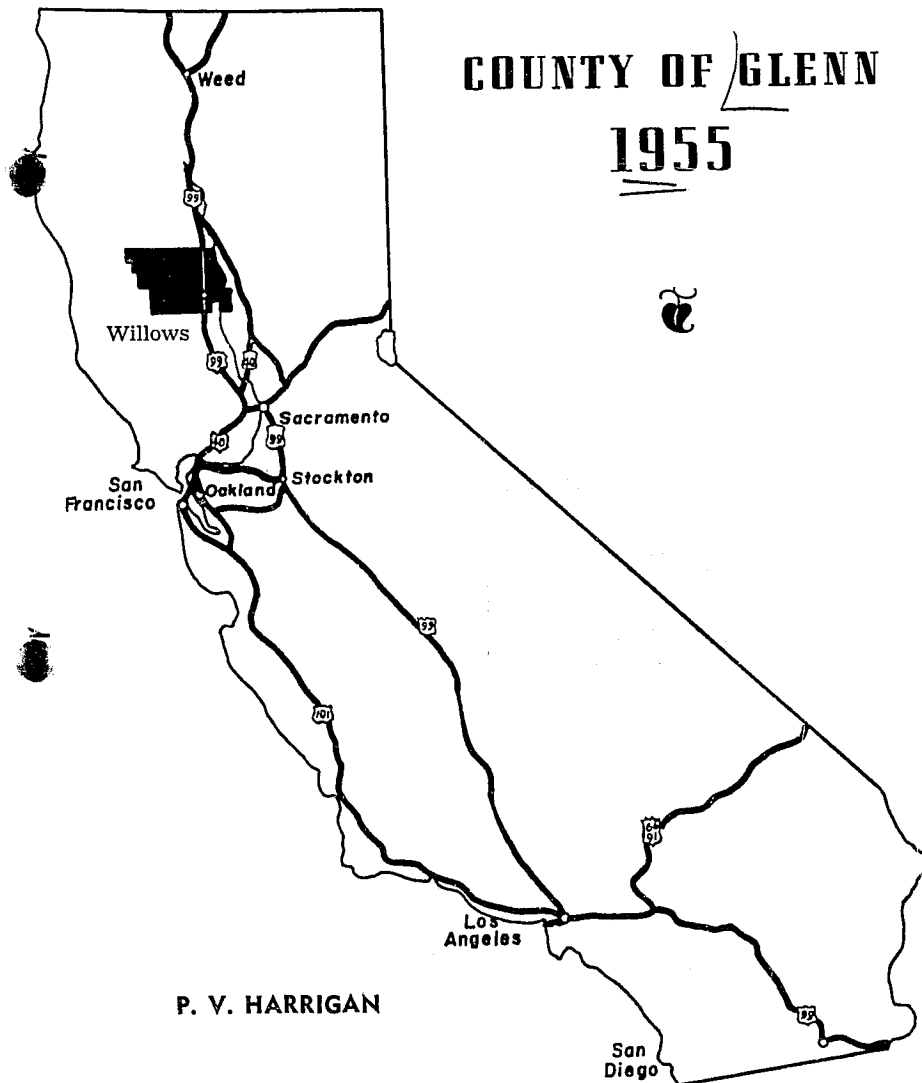
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1955

ANNUAL REPORT

Agricultural Commissioner



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

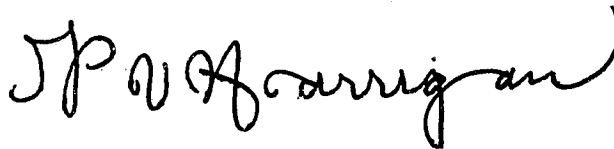
THE HONORABLE BOARD OF SUPERVISORS:

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

CONTENTS

	Page
Production and Value of Agricultural Products	4-5
Annual Rainfall — 77 Year Record	11
Commercial Pest Control Operators' Reports	13
Fifteen Year Production and Value of Principal Commodities	8-9
Agricultural Resources	6
Chemicals Used by this Department	12
Natural Economic Resources	7
Recreational Resources	10
Apiary Inspection	16
Plant Quarantine	16
Weights and Measures Report	15
Comments	14

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	775,000	
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
---------------------------------------	-------

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.

	Acres
Irrigation Districts in Operation:	
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
Orland-Artois Irrigation District	18,000
Other land suitable for irrigation:	
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
ADDITIONAL ACREAGE SUITABLE FOR IRRIGATION	115,436
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)	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	adh 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	50,000
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	1,106,000
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
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	1,353,000
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		50	60
Beans		511			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 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).

COMMENTS

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

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	

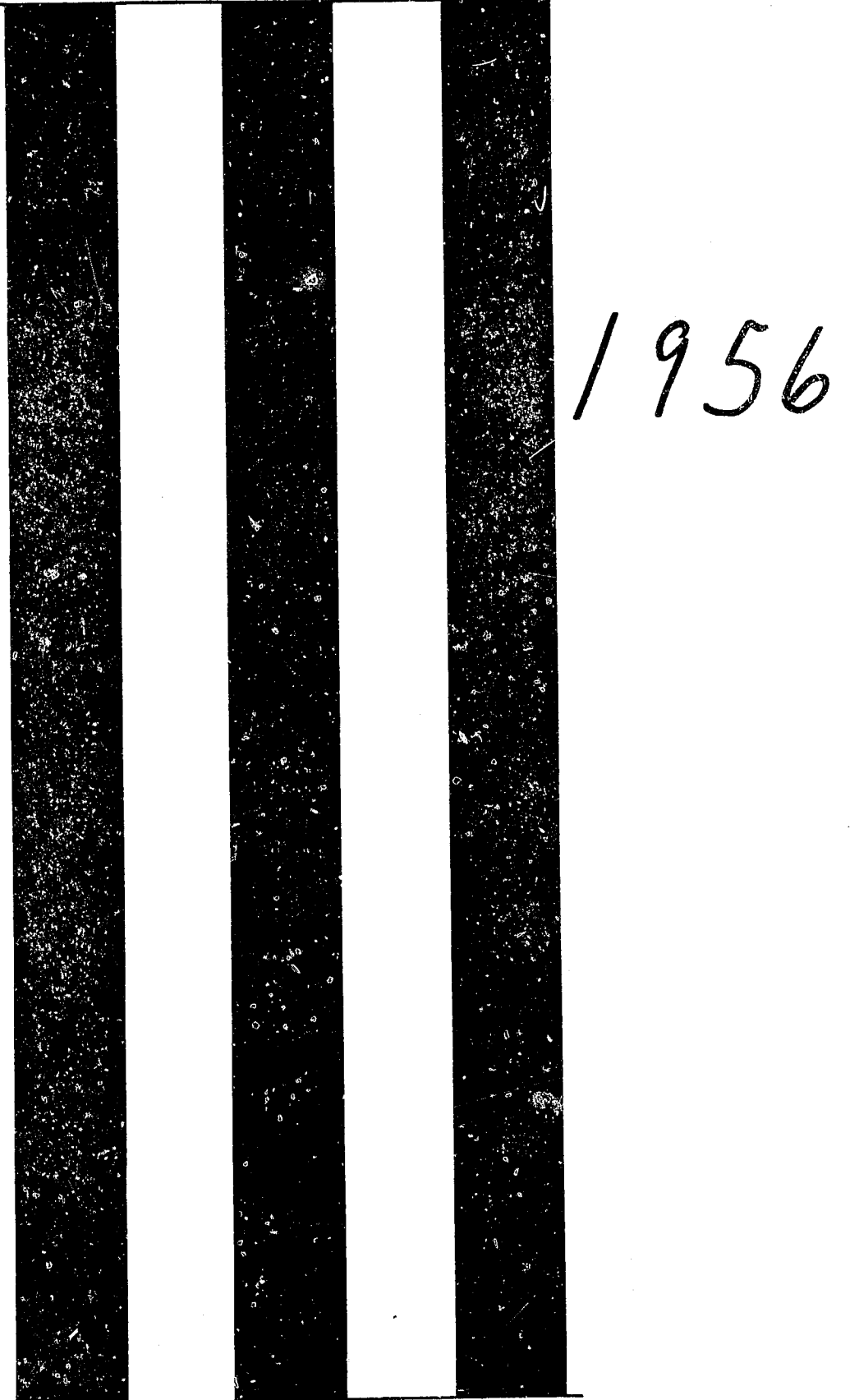
INTRASTATE SHIPMENTS:

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

RETURN POSTAGE GUARANTEED

P. V. HARRIGAN
Agricultural Commissioner
Willows, California

RECEIVED BY THE
AGRICULTURAL COMMISSIONER
WILLOWS, CALIFORNIA

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1956

ANNUAL REPORT

Agricultural Commissioner

COUNTY OF GLENN 1956



P. V. HARRIGAN

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
Marshall Lane
George J. Otterson
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

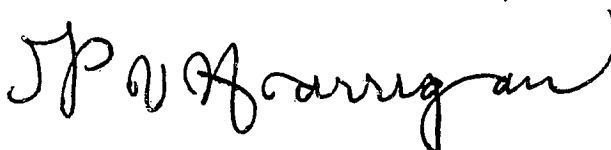
Gentlemen:

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

CONTENTS

	Page
Production and Value of Agricultural Products	4-5
Agricultural Income Totals for 20 Years	5
Agricultural Resources	6
Natural Economic Resources	7
Recreational Resources	8
Glenn County's Position in State Production	9
Twenty Year Production and Value of Principal Commodities	10-11
Chemicals Used by This Department	12
Commercial Pest Control Operators' Reports	13
Weights and Measures Report	14
Annual Rainfall — 78 Year Record	15
Apiary Inspection	16
Plant Quarantine	16
Comments	17
Development of Irrigation in Glenn County	18
The Sheep Industry, By Thelma White, Secretary Colusi Historical Society	19

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	
		8,870
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.

	Acres
Irrigation Districts in Operation:	
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
TOTAL ACREAGE UNDER IRRIGATION	158,955
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
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	43
Number of Farms in County	1,825

RECREATIONAL RESOURCES

Lakes	Stony Gorge Dam and Packer Lake	5
County Parks		54
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		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	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	1
Bobcat	1

GLENN COUNTY'S POSITION IN STATE PRODUCTION

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		\$
1938	208,000	270,000	319,000	398,000	6,500	4,000
1939	369,000	479,000	349,000	362,000	61,000	30,000
1940	409,000	511,000	317,500	259,000	119,000	96,000
1941	545,600	1,271,000	392,400	575,000	142,000	85,000
1942	361,900	1,231,000	258,300	408,000	141,000	106,000
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	369,000
1945	690,000	2,243,000	675,000	1,671,000	350,000	525,000
1946	1,050,000	4,500,000	700,000	2,233,000	440,000	360,000
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	1,114,000
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
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	Orange 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	53,000	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		Sheep & Wool Value	Turkeys Pounds
			Marketed Head	Wool Marketed 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	123,000	1,016,000	999,000	2,013,000
1940	35,000	436,000	106,700	1,245,000	1,110,500	1,693,000
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	755,000
1948	20,000	950,000	112,000	1,000,000	2,415,000	590,000
1949	25,000	1,125,000	102,000	840,000	2,388,000	570,000
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	800,000
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 Incentive

VALUE 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
	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

	Other Fruit & 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
	3,777,000	109,000	2,095,000	733,000	8,000	560,000
	4,327,000	121,000	1,826,000	603,000	8,000	636,000
	3,083,500	95,000	1,879,000	751,000	9,000	676,000
	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	692,500	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
	5,072,000	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
	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	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
	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
	7,733,000	\$11,372,000	590,600	5,082	\$1,847,500	203,700,000	\$13,205,000

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 thionbenzene 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.....	9.25
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

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

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 Diverson 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 8¼ 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

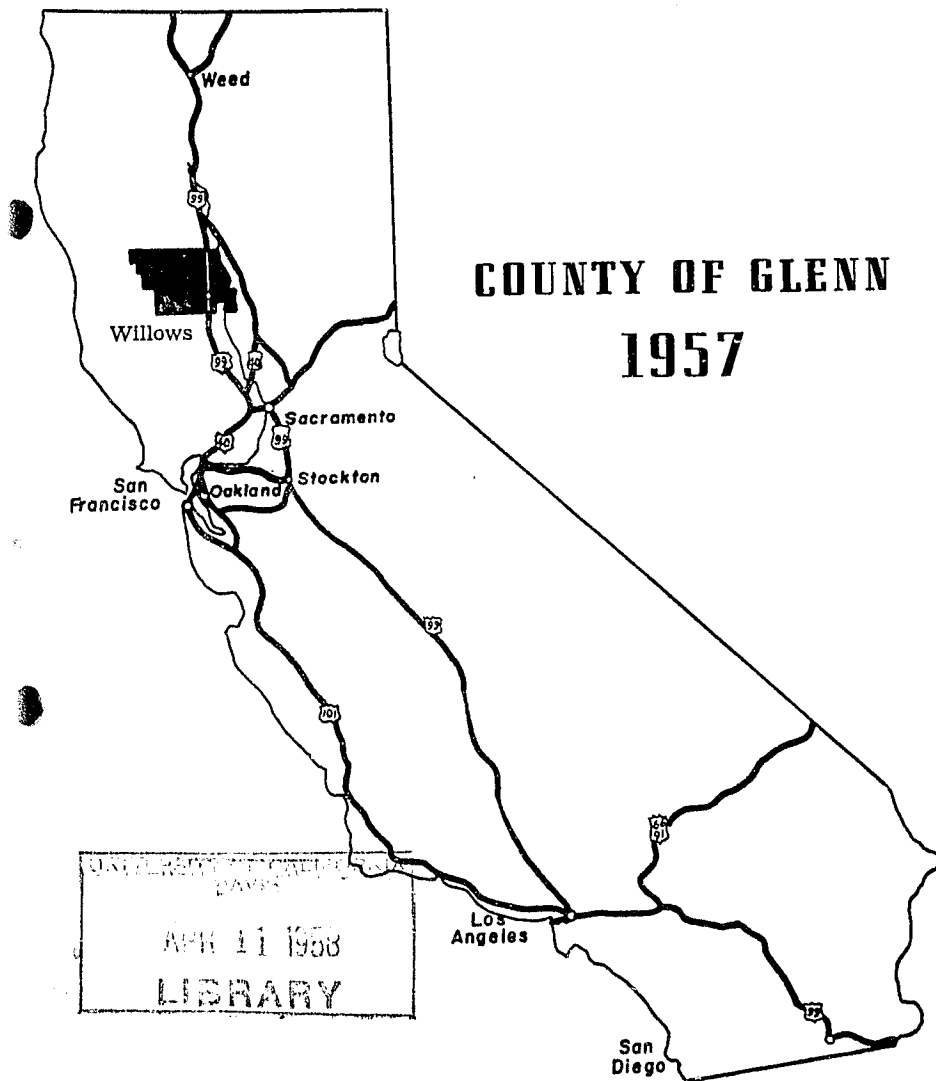
ANNUAL REPORT

P. V. HARRIGAN

Agricultural Commissioner

and

Sealer of Weights and Measures



COUNTY OF GLENN
1957

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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	Acreage	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
FORAGE				
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
PASTURE				
Irrigated Pasture..	61,000		2,700,000	
Range	250,000		315,000	
Stubble	100,000		125,000	3,140,000
SEED CROPS				
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
ORCHARD CROPS				
	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
POULTRY				
	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.
Flaxseed15	bu.
Grain Sorghums15	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		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		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		1
Mink		1
Skunk — Spotted		8
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.

	Acres
Irrigation Districts in Operation:	
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		\$
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	1,050,000	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	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	1,707,174	7,938,400	1,742,000	3,222,700	1,167,000	304,000
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	Orange Juice
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	\$2,065,000	\$8,431,500	44,488,000	\$4,876,500	1,444,000	\$5,160,000

Year	Hogs Head	Hogs Value	Lambs & Sheep		Sheep & Wool Value	Turkeys Pounds
			Marketed Head	Wool Marketed 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	1,199,400
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
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
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

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

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.



1958

Rep. of Calif. Counties

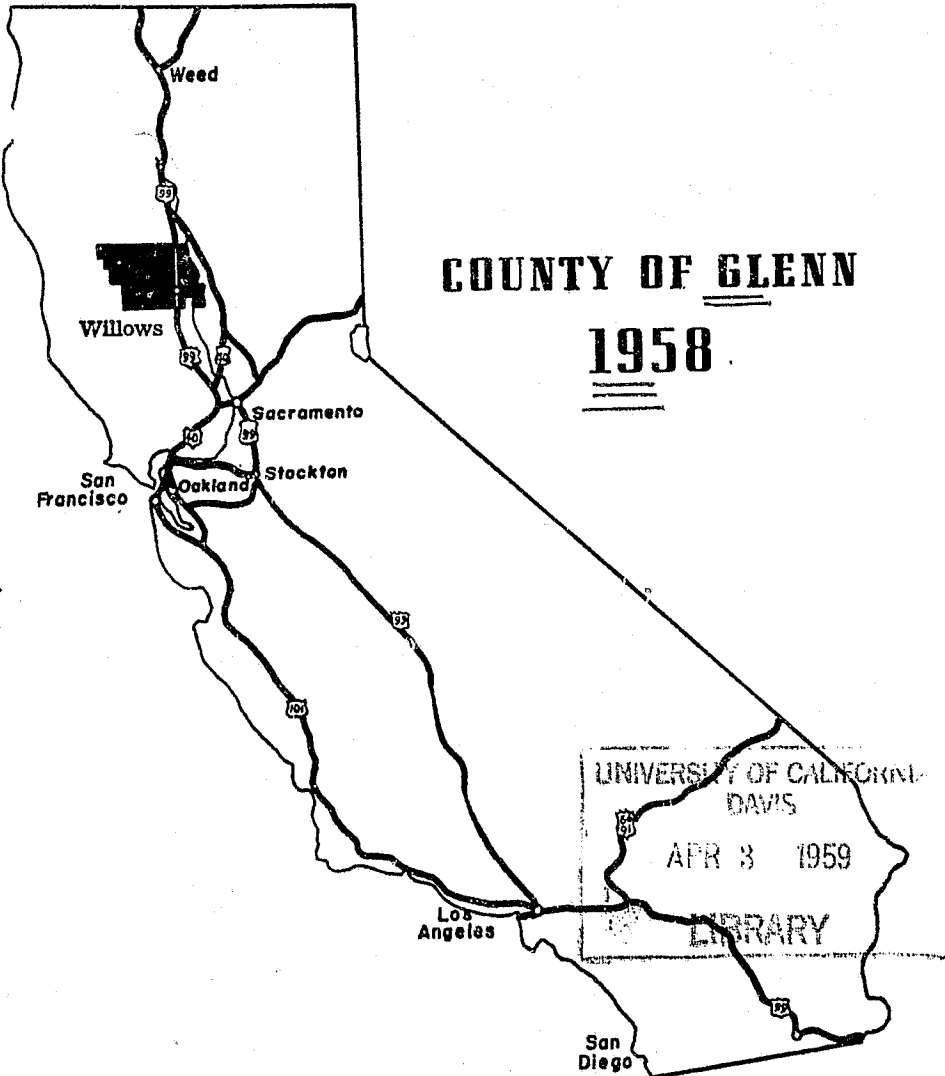
ANNUAL REPORT

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

George J. Otterson

G. E. (Nip) Roberts

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

Telephones
Willows — WELLington 4-4651
Orland — UNderhill 5-2264

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
FORAGE				
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
PASTURE				
Irrigated Pasture	61,000		2,440,000	
Range	250,000		315,000	
Stubble	100,000		200,000	2,955,000
SEED CROPS				
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
ORCHARD CROPS				
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
POULTRY				
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
APICULTURE			
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
GOVERNMENT PAYMENTS			
Agriculture Conservation		60,700	
Wool Payment		95,100	
Rice Acreage Reserve		226,700	
Sugar Beet, Processor & Import Tax Payment		23,800	406,300
FOREST PRODUCTS			
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
GRAND TOTAL AGRICULTURAL INCOME — 1958			\$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
TOTAL ACREAGE UNDER IRRIGATION	164,115

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	176,845
TOTAL IRRIGABLE LAND IN GLENN COUNTY	340,960

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
Possam		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	1,050,000	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	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	\$2,175,400

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	553,000	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	573,000	3,750,000	1,025,000	1,085,000	199,000
223,000	895,000	3,300,000	780,000	920,000	155,000
263,000	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 Cwt.	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
311,000	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
531,600	538,000	52,850	210	157,000	69,000,000	2,501,800
531,000	551,000	60,300	333	204,200	71,500,000	3,515,000
631,600	\$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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Glenn County 1958 - 1964