# ANNUAL REPORT

## Agricultural Commissioner

## COUNTY OF GLENN

## 1953

# GLENN COUNTY DEPARTMENT OF AGRICULTURE

WILLOWS, CALIFORNIA

# ANNUAL REPORT

**For the**

**Year Ending December 31, 1953**


## P. V. HARRIGAN

Agricultural Commissioner

and

Sealer of Weights and Measures

# COUNTY OF GLENN
# DEPARTMENT OF AGRICULTURE

Memorial Building, Willows

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

Telephones:
Willows 240
Orland 70

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 seventeenth annual report published by this department.

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

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

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

Respectfully submitted,

P. V. HARRIGAN
Agricultural Commissioner

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## PERSONNEL

| | |
|---|---|
| P. V. Harrigan | Agricultural Commissioner |
| H. I. Tillotson, Jr. | Deputy Sealer and Inspector |
| Elroy Eberwein | Seed Inspector |
| F. W. Irland | Pest Control |
| 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 — 70

# NATURAL RESOURCES AND THEIR PLACE IN COUNTY DEVELOPMENT

The full development of the county's abundant natural resources appears to be just beginning. Their intensive development in the years to come should provide a balanced, diversified economy and establish a broad base for continued prosperity in the county.

Major natural resources which will have an important impact on Glenn County's economy for many years include those which nature has placed above the ground for man's need, the soil itself, and the mineral deposits under the ground which are now being developed and which may be developed further in the future.

Already contributing heavily to the economy in the "above ground" category are natural forage, timber stands, and surface water supplies in the form of streams. Forage and its importance to cattle and sheep industries has long been exploited and used fully.

Development of timber resources, now estimated at a stand of three billion board feet, has been accelerated in the past few years although mills were built and in operation in Glenn County one hundred years ago. Lumbering was important to the economy of the Elk Creek and Newville areas in early days, and lumber cut from mills there still is in use in various buildings in this section. However, these small operations had little effect on the timber stand.

Today, under modern forestry methods a timber crop of 25,000,000 board feet is harvested each year on a sustained yield basis, and it appears that this industry will be important to the county's economy for some time to come.

Surface water supplies also have been well developed through irrigation enterprises such as the Glenn-Colusa Irrigation District, diverting from the Sacramento River; the Orland Project, which makes use of stored winter flows of Stony Creek; and through additional diversions from the Sacramento River and seasonal diversions from smaller streams which do not carry live flows throughout the year. From these sources and a large number of wells, approximately one-half of the irrigable land of the county now is under water. Important additional development of surface water supplies for the county is assured when the Sacramento Valley Canals Project, which traverses the county from north to south, becomes a reality. Steps are being taken to insure that Glenn County will receive an ample supply of water from this source.

Development of mineral deposits, largely in the form of hydrocarbons such as petroleum and natural gas, likewise has been accelerated during the past several years. Since the first producing gas well, the Willard 1-A, came in in January, 1938, oil exploration companies have been active in the county, testing, surveying and drilling. Several gas wells are in production, and thousands of acres are under lease to the several gas and petroleum companies. The present status of this resource is hard to establish, but with the United States rapidly becoming an importer of petroleum products, it is hard to see any lessening of exploration and drilling activity in Glenn County and the Sacramento Valley.

Other minerals, such as copper, chrome and even precious metals, exist in small amounts in the county, but as yet have had little economic effect.

In summary, through intensive and intelligent use of the county's abundant natural resources, the economy of the area should remain on a firm footing for the future.

# AGRICULTURAL RESOURCES

| FIELD CROPS | Acreage | Totals |
|---|---|---|
| Alfalfa | 13,000 | |
| Barley | 50,000 | |
| Hay, Mixed | 16,000 | |
| Irrigated Pastures | 60,000 | |
| Milo | 3,000 | |
| Oats | 1,000 | |
| Rice | 51,000 | |
| Safflower | 10,000 | |
| Sudan | 1,100 | |
| Sugar Beets | 810 | |
| Wheat | 5,000 | |
| | | 210,900 |

| ORCHARD CROPS | | |
|---|---|---|
| Almonds | 4,500 | |
| Apricots | 170 | |
| Cherries | 3 | |
| Citrus | 700 | |
| Figs | 130 | |
| Grapes | 24 | |
| Olives | 850 | |
| Peaches | 100 | |
| Pears | 200 | |
| Pecans | 2 | |
| Prunes | 1,400 | |
| Walnuts, English | 812 | |
| | | 8,941 |

| LIVESTOCK AND POULTRY | Head | |
|---|---|---|
| Cattle, Beef | 15,000 | |
| Cattle, Dairy | 26,000 | |
| Hogs | 5,000 | |
| Horses and Mules | 300 | |
| Sheep | 135,000 | |
| Poultry | 30,000 | |
| Turkeys, Breeding Stock | 7,000 | |
| | | 218,300 |

| APIARY | Colonies | |
|---|---|---|
| Bees, Registered | 3,769 | |
| | | 3,769 |

# PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS

## GLENN COUNTY, CALIFORNIA — 1953

| | Production | Values | Totals |
|---|---|---|---|
| **FIELD CROPS** | | | |
| Rice | 1,428,000 cwt. | $ 7,500,000 | |
| Barley | 650,000 cwt. | 1,850,000 | |
| Wheat | 35,000 cwt. | 110,000 | |
| Oats | 7,000 cwt. | 22,000 | |
| Milo | 60,000 cwt. | 180,000 | |
| Safflower | 100,000 cwt. | 400,000 | |
| Beans | 8,000 cwt. | 88,000 | |
| Sugar Beets | 14,000 tons | 180,000 | |
| **HAY** | | | |
| Alfalfa | 45,000 tons | 900,000 | |
| Clover | 10,000 tons | 90,000 | |
| Mixed | 18,000 tons | 324,000 | |
| **PASTURE** | | | |
| Irrigated Pasture | 60,000 acres | 1,500,000 | |
| Range | 250,000 acres | 250,000 | |
| Stubble | 100,000 acres | 150,000 | |
| | | | $ 13,544,000 |
| **SEED CROPS** | | | |
| Ladino Clover | 2,865,000 lbs. | 1,060,000 | |
| Sudan | 900,000 lbs. | 54,000 | |
| Alfalfa | 106,000 lbs. | 26,500 | |
| Vetch | 285,000 lbs. | 14,250 | |
| | | | 1,154,750 |
| **ORCHARD CROPS** | | | |
| Almonds | 3,400,000 lbs. | 780,000 | |
| Apricots, dried | 174,000 lbs. | 32,000 | |
| Apricots, fresh | 960,000 lbs. | 48,000 | |
| Figs, fresh | 400,000 lbs. | 16,000 | |
| Olives | 1,250,000 lbs. | 112,000 | |
| Oranges | 125,000 pkd. boxes | 625,000 | |
| Peaches, dried | 23,500 lbs. | 4,500 | |
| Peaches, fresh | 322,000 lbs. | 10,500 | |
| Pears, pkg. | 3,379,000 lbs. | 243,500 | |
| Pears, canning | 440,000 lbs. | 22,000 | |
| Prunes, dried | 4,550,000 lbs. | 550,000 | |
| Walnuts, English | 720,000 lbs. | 151,000 | |
| Walnuts, Black | 200,000 lbs. | 4,000 | |
| | | | 2,598,500 |
| **POULTRY** | | | |
| Poultry, live | 100,000 lbs. | 30,000 | |
| Eggs | 355,000 doz. | 185,000 | |
| Turkeys, dressed | 850,000 lbs. | 340,000 | |
| Turkey eggs | 290,000 each | 92,800 | |
| | | | 647,800 |

# PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS

(Continued)

| | Production | Values | Totals |
|---|---|---|---|
| LIVESTOCK | | | |
| Butterfat | 4,802,000 lbs. | $5,010,000 | |
| Fat cattle | 17,000 head | 2,550,000 | |
| Cattle | 14,000 head | 850,000 | |
| Calves | 12,500 head | 315,000 | |
| Hides | 2,500 each | 40,000 | |
| Tallow and Bones | 140,000 lbs. | | |
| Sheep | 32,000 head | 207,000 | |
| Lambs | 130,000 head | 2,400,000 | |
| Wool | 1,200,000 lbs. | 780,000 | |
| Pelts | 3,000 each | 10,500 | |
| Hogs | 30,000 head | 994,000 | |
| | | | $ 13,156,500 |
| APICULTURE | | | |
| Package Bees | 25,300 lbs. | 29,000 | |
| Queen | 3,350 each | 4,000 | |
| Honey | 650,500 lbs. | 68,500 | |
| Beeswax | 9,000 lbs. | 4,500 | |
| Pollination | | 13,500 | |
| | | | 119,500 |
| GOVERNMENT PAYMENTS | | | |
| Agricultural Conservation | | 90,000 | |
| | | | 90,000 |
| FOREST PRODUCTS | | | |
| Logs | 3,000,000 bd. ft. | 150,000 | |
| Milled Lumber | 24,000,000 bd. ft. | 1,800,000 | |
| Christmas Trees | 5,000 trees | 6,000 | |
| | | | 1,956,000 |
| GRAND TOTAL AGRICULTURAL INCOME — 1953 | | | $ 33,267,050 |

## AGRICULTURAL INCOME TOTALS FOR 15 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 | 33,267,050 |
| FIFTEEN YEAR TOTAL | $337,381,950 |

# FIFTEEN YEAR PRODUCTIO

| Year | Rice Cwt. | Barley Cwt. | Ladino Seed Pounds | Alfalfa Seed Pounds | Other Field Crops Cwt. |
|---|---|---|---|---|---|
| 1939 | 368,841 | 348,925 | 60,674 | | 65,225 |
| 1940 | 408,541 | 317,486 | 49,549 | 314 | 108,350 |
| 1941 | 545,603 | 392,391 | 141,871 | | 165,100 |
| 1942 | 361,940 | 258,317 | 140,834 | | 226,275 |
| 1943 | 394,000 | 415,000 | 118,000 | 15,000 | 102,000 |
| 1944 | 850,000 | 701,000 | 325,000 | 10,000 | 72,800 |
| 1945 | 690,000 | 675,000 | 350,000 | 30,000 | 96,500 |
| 1946 | 1,050,000 | 700,000 | 440,000 | 25,000 | 117,600 |
| 1947 | 1,168,000 | 680,000 | 375,000 | 11,000 | 126,500 |
| 1948 | 840,000 | 1,112,000 | 670,000 | 7,500 | 129,000 |
| 1949 | 1,219,000 | 792,000 | 800,000 | 42,000 | 192,000 |
| 1950 | 900,000 | 651,000 | 2,280,000 | 52,000 | 73,000 |
| 1951 | 1,060,000 | 500,000 | 3,200,000 | 45,500 | 62,000 |
| 1952 | 1,500,000 | 500,000 | 4,500,000 | 85,500 | 96,500 |
| 1953 | 1,428,000 | 650,000 | 2,865,000 | 106,000 | 210,000 |
| 15 Year Total Prod. | 12,783,925 | 8,693,019 | 16,315,928 | 429,814 | 1,842,850 |
| GROSS INCOME | $55,083,520 | $22,480,655 | $17,091,087 | $ 144,050 | $ 4,683,959 |

| Year | Other Dried Fruits Pounds | Butterfat Pounds | Cattle Head | Hogs Head | Sheep Head |
|---|---|---|---|---|---|
| 1939 | 1,469,713 | 1,825,885 | 7,932 | 44,224 | 127,912 |
| 1940 | 700,660 | 1,878,814 | 9,089 | 34,856 | 106,704 |
| 1941 | 147,158 | 2,776,881 | 13,416 | 34,849 | 111,249 |
| 1942 | 959,888 | 2,667,792 | 12,080 | 28,809 | 116,226 |
| 1943 | 1,504,000 | 2,685,000 | 16,500 | 34,000 | 109,000 |
| 1944 | 2,105,000 | 3,034,000 | 23,500 | 41,000 | 139,000 |
| 1945 | 1,019,000 | 3,343,500 | 24,500 | 17,500 | 141,000 |
| 1946 | 2,456,000 | 2,973,000 | 23,500 | 16,000 | 121,000 |
| 1947 | 942,000 | 3,400,000 | 29,000 | 15,000 | 127,500 |
| 1948 | 487,000 | 3,690,000 | 31,500 | 20,000 | 112,000 |
| 1949 | 431,000 | 3,621,000 | 43,500 | 25,000 | 102,000 |
| 1950 | 229,000 | 3,711,000 | 41,300 | 28,000 | 110,000 |
| 1951 | 852,000 | 3,807,000 | 44,200 | 47,500 | 130,000 |
| 1952 | 896,000 | 3,875,000 | 41,500 | 52,000 | 169,000 |
| 1953 | 198,500 | 4,802,000 | 43,500 | 30,000 | 163,000 |
| 15 Year Total Prod. | 14,396,919 | 48,100,872 | 405,017 | 468,738 | 1,885,592 |
| GROSS INCOME | $1,619,450 | $41,595,183 | $32,669,862 | $13,436,140 | $26,225,878 |

# N OF TWENTY-TWO CROPS

| Almonds Pounds | Walnuts Pounds | Olives Pounds | Oranges Boxes | Prunes Pounds | Other Fresh Fruits Pounds |
|---|---|---|---|---|---|
| 2,961,129 | 221,175 | 665,769 | 71,538 | 3,551,892 | 2,857,328 |
| 2,015,740 | 1,203,344 | 2,276,166 | 103,554 | 2,583,832 | 2,382,785 |
| 47,414 | 508,514 | 4,018,132 | 58,327 | 2,709,109 | 4,513,423 |
| 1,999,222 | 516,820 | 1,601,293 | 64,517 | 2,068,508 | 5,199,775 |
| 1,415,500 | 515,500 | 7,874,000 | 85,000 | 4,056,000 | 5,219,000 |
| 2,700,000 | 258,000 | 7,858,000 | 115,000 | 4,864,000 | 4,540,000 |
| 1,900,000 | 342,000 | 3,690,000 | 85,000 | 6,000,000 | 3,630,000 |
| 2,000,000 | 302,000 | 1,573,000 | 120,000 | 4,500,000 | 7,307,000 |
| 2,000,000 | 437,000 | 4,479,000 | 78,000 | 7,000,000 | 5,130,000 |
| 1,250,000 | 325,000 | 4,181,000 | 45,000 | 6,000,000 | 1,895,000 |
| 3,000,000 | 787,000 | 1,763,000 | 86,000 | 5,500,000 | 5,899,000 |
| 3,500,000 | 716,500 | 3,123,000 | 78,000 | 3,300,000 | 3,948,000 |
| 3,500,000 | 856,500 | 4,000,000 | 105,000 | 5,544,000 | 6,710,000 |
| 3,750,000 | 885,000 | 1,750,000 | 86,000 | 5,750,000 | 8,216,000 |
| 3,300,000 | 720,000 | 1,250,000 | 125,000 | 4,550,000 | 5,501,000 |
| 35,339,005 | 8,594,353 | 50,102,360 | 1,305,936 | 67,977,341 | 72,948,311 |
| $9,658,384 | $1,501,086 | $5,816,203 | $4,489,056 | $5,903,184 | $3,789,058 |

| Wool Pounds | Turkeys Pounds | Turkey Eggs | Pounds Packaged Bees | Honey Tons | Lumber & Logs Bd. Feet |
|---|---|---|---|---|---|
| 1,016,192 | 2,012,613 | 267,368 | 18,430 | 138 | |
| 1,245,060 | 1,693,591 | 99,500 | 19,750 | 270 | |
| 1,477,354 | 1,870,724 | 218,724 | 19,250 | 165 | |
| 1,549,622 | 1,358,244 | 204,527 | 33,288 | 216 | |
| 1,439,000 | 934,000 | 486,000 | 37,000 | 246 | |
| 1,500,000 | 1,975,000 | 642,000 | 68,000 | 178 | |
| 1,160,000 | 2,382,000 | 841,000 | 30,000 | 114 | 500,000 |
| 1,372,000 | 1,482,000 | 635,000 | 37,500 | 220 | 1,400,000 |
| 1,000,000 | 785,000 | 315,000 | 39,000 | 137 | 500,000 |
| 1,006,000 | 500,000 | 75,000 | 38,500 | 238 | 5,000,000 |
| 840,000 | 550,000 | 320,000 | 32,000 | 244 | 1,800,000 |
| 1,000,000 | 1,265,000 | 400,000 | 25,000 | 144 | 7,000,000 |
| 1,375,000 | 1,250,000 | 351,000 | 24,500 | 462 | 29,000,000 |
| 1,630,000 | 1,325,000 | 440,000 | 26,475 | 450 | 23,000,000 |
| 1,200,000 | 850,000 | 290,000 | 25,000 | 325 | 27,000,000 |
| 18,810,228 | 20,233,172 | 5,585,119 | 473,693 | 3,547 | 95,200,000 |
| $9,735,887 | $7,158,868 | $1,552,095 | $ 596,209 | $ 723,365 | $6,198,000 |

# CHEMICALS USED BY THIS DEPARTMENT

## INSECT CONTROL

| | |
|---|---|
| Benzene Hexachloride (BHC) | 168 Pounds |
| D.D.T. | 160 Gallons |
| D.D.T. (wettable powder) | 135 Pounds |
| Chlordane | 51 Quarts |
| Chlordane or Aldrin treated Bran | 844 Pounds |
| 5% Chlordane Dust | 57 Pounds |
| Cyanogas | 5 Ounces |
| Cyanide Eggs | 2 Pounds |
| Summer Oil Spray | 233 Gallons |
| Lead Arsenate | 351 Pounds |
| Bordeaux | 35 Pounds |
| Sodium Arsenite | 21 Gallons |
| Oronite | 17 Pounds |
| Pyrenone | 1 Quart |
| Aldrin | 10 Pints |
| Malathon | 5 Quarts |
| Parathion | 256 Pounds |
| Multifilm | 16 Pounds |
| Lindane (Liquid) | 2 Gallons |
| Lindane (wettable 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 | | |
|---|---|---|---|---|---|---|---|
| | Acreage Sprayed | Cost of Herbicide & Application | Acreage Sprayed | Cost of Insecticide & Application | Acreage Sprayed | Cost of Material & Application | Total Cost of Spraying |
| 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

| Year | Rainfall Inches | Year | Rainfall Inches | Year | Rainfall 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 | 13.52 |
| 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.