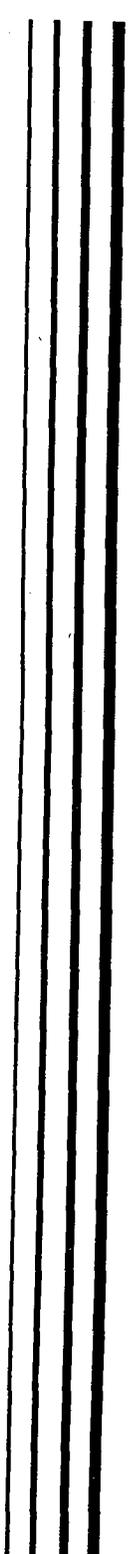


ANNUAL REPORT



Agricultural Commissioner

COUNTY OF GLENN

1950

P. V. HARRIGAN

GLENN COUNTY DEPARTMENT OF AGRICULTURE
WILLOWS, CALIFORNIA

P. V. Harrigan
Agricultural Commissioner

* * *

A N N U A L R E P O R T

For the
Year ending December 31, 1950

* * *

BOARD OF SUPERVISORS

Marshall Lane, Chairman

C. C. Adams George J. Otterson

John F. Fiack W. L. Linville

GLENN COUNTY DEPARTMENT OF AGRICULTURE
WILLOWS, CALIFORNIA

P. V. Harrigan
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Year ending December 31, 1950

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OFFICE OF THE AGRICULTURAL COMMISSIONER
Memorial Building
Willows, California

57
December 31, 1950

THE HONORABLE BOARD OF SUPERVISORS OF GLENN COUNTY
and
THE DIRECTOR OF AGRICULTURE, STATE OF CALIFORNIA

Gentlemen:

This annual agricultural report on Glenn County for the year 1950 is submitted in compliance with Section 65 of the State Agricultural Code.

The crop production was slightly lower than the previous year, but the farm income was greater than at any time in the history of Glenn County. This was accounted for by the fact that prices were somewhat higher on most farm commodities; in particular, the heavy sale and the better prices received for livestock were responsible for much of the increase.

Ladino clover seed with 2,280,000 pounds made the most spectacular gain of all farm crops with a 1,480,000 pound increase over the previously high yield of 800,000 pounds. Farm production gains were made principally on the irrigated land, while on dry land farms the grain and pasture crops were below normal, largely as a result of the unusually dry season.

I wish to express my sincere appreciation to all who have assisted in furnishing this office with the necessary information, making the compilation of this report possible.

Respectfully submitted,

F. V. Harrigan
F. V. HARRIGAN
Agricultural Commissioner

Orchards slight

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PERSONNEL

P. V. HarriganAgricultural Commissioner
H. L. Lundeen.Supervising Inspector
F. W. Irland	Supervising Seed Inspector
C. T. Birch.	Apiary Inspector
H. I. Tillotson, Jr.	Weights and Measures
Lloyd Lane	Weed Control
Edna Otis.Part-Time Inspector Pest Survey
Medora M. Sine	Sr. Stenographer-Clerk
Lillian M. Cantwell.	Part-time Clerk, Orland Office

OFFICES

Memorial Building
Willows, California

County Building
Orland, California

TELEPHONE NUMBERS

Willows 240

Orland 158

PLANT QUARANTINE

Interstate Shipments:

Number of Shipments Passed:	547
Number of Plants Passed:	25,042
Number of Shipments Rejected:	2
Number of Plants Rejected:	9

Intrastate Shipments:

Number of Shipments Passed:	459
Number of Plants Passed:	57,283
Number of Shipments Rejected:	9
Number of Plants Rejected:	112

APIARY REPORT

	<u>Colonies</u>	<u>Apiaries</u>
Registered during 1950	14,773	266
Entering County	3,991	57
Leaving County	3,969	53
Moving within County	4,240	72
Inspected During 1950	5,864	172
Infected with American Foulbrood	23	19
Infected with European Foulbrood	6	4

PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS
GLENN COUNTY, CALIFORNIA - 1950

	<u>Production</u>	<u>FOB Value</u>
<u>FIELD CROPS</u>		
Barley	651,000 cwt	\$1,510,000
Hay		
Alfalfa	30,000 tons	600,000
Ladino Clover	8,000 tons	154,000
Mixed	10,000 tons	200,000
Milo	22,000 cwt	60,500
Oats	7,000 cwt	18,500
Pasture		
Ladino Clover	55,000 acres	1,650,000
Range	250,000 acres	250,000
Stubble	120,000 acres	240,000
Rice	900,000 cwt	4,050,000
Sugar Beets	12,830 tons	151,400
Wheat	44,100 cwt	154,500
		\$9,038,900
<u>SEED CROPS</u>		
Alfalfa	52,500 lbs	13,000
Field Peas	112,000 lbs	5,100
Ladino Clover	2,280,000 lbs	2,736,000
Sudan	1,400,000 lbs	140,000
Vetch	250,000 lbs	15,000
		\$2,909,100
<u>ORCHARD CROPS</u>		
Almonds	3,500,000 lbs	1,085,000
Apricots		
Dried	127,000 lbs	38,000
Fresh	23,100 lbs	18,500
Figs, Dried	60,000 lbs	6,500
Fruit Pits	42,500 lbs	1,300
Grapes	50 tons	3,000
Olives	3,123,000 lbs	468,000
Olive Oil	28,500 gal	90,000
Oranges	78,000 boxes	234,000
Peaches, Fresh	75,000 lbs	2,200
Pears	75,000 boxes	225,000
Prunes, Dried	3,300,000 lbs	418,500
Walnuts, Black	212,000 lbs	4,500
Walnuts, English	716,500 lbs	136,000
		\$2,730,500

PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS
(Continued)

	<u>Production</u>	<u>FOB Value</u>	
<u>LIVESTOCK</u>			
Butterfat	3,711,000 lbs	\$3,043,000	
Fat Cattle	12,000 hd	3,000,000	
Cattle	17,900 hd	3,130,000	
Calves	11,400 hd	855,000	
Hides	1,700 ea)		
Tallow	50,000 lb)	17,500	
Sheep	25,000 hd	500,000	
Lambs	85,000 hd	2,210,000	
Wool	1,000,000 lbs	800,000	
Pelts	7,500 lbs	16,500	
Hogs	28,000 hd	1,175,000	
			\$14,747,000
<u>POULTRY</u>			
Poultry	150,000 lbs	45,000	
Eggs	560,000 doz	213,000	
Turkeys, Dressed	1,265,000 lbs	435,000	
Turkey Eggs	400,000 ea	112,000	
			\$ 805,000
<u>APICULTURE</u>			
Package Bees	24,620 lbs	22,500	
Queen Bees	13,500 ea	13,500	
Honey	287,660 lbs	27,500	
Beeswax	6,700 lbs	3,000	
			\$ 66,500
<u>GOVERNMENT PAYMENTS</u>			
Agricultural Conservation			\$ 100,000
<u>FOREST PRODUCTS</u>			
Logs	6,000,000 bd ft	180,000	
Milled Lumber	1,000,000 bd ft	50,000	
Christmas Trees	8,000 ea	10,000	
			<u>\$ 240,000</u>
	TOTAL		\$30,637,000

AGRICULTURAL RESOURCES

<u>FIELD CROPS</u>	<u>Acreage</u>	
Alfalfa	10,000	
Barley	70,000	
Field Peas	200	
Hay, Mixed	17,000	
Ladino Clover	55,000	
Lotus	900	
Milo	1,300	
Oats	1,000	
Rice	28,885	
Sudan	1,200	
Sugar Beets	670	
Vetch	1,000	
Wheat	7,700	
		194,855

<u>ORCHARD CROPS</u>		
Almonds	4,842	
Apricots	246	
Cherries	5	
Citrus	740	
Figs	199	
Grapes	80	
Olives	833	
Peaches	161	
Pears	202	
Pecans	16	
Prunes	1,486	
Walnuts, English	818	
		9,628

<u>LIVESTOCK AND POULTRY</u>	<u>Head</u>
Cattle	
Beef	12,500
Dairy	23,500
Hogs	10,000
Horses & Mules	608
Sheep	115,000
Poultry	50,000
Turkeys, Breeding Stock	13,000

<u>APIARY</u>	<u>Colonies</u>
Bees, Registered	14,773

TEN YEARS' PRODUCTION OF TEN CROPS

Year	Rice Sacks	Barley Sacks	Ladino Seed Pounds	Almonds Pounds	Olives Pounds
1941	546,000	388,000	142,000	471,500	5,951,000
1942	362,000	256,000	141,000	1,999,000	2,088,000
1943	394,000	415,000	118,000	1,415,500	7,874,000
1944	850,000	701,000	325,000	2,700,000	7,858,000
1945	690,000	675,000	350,000	1,900,000	3,690,000
1946	1,050,000	700,000	440,000	2,000,000	1,573,000
1947	1,168,000	680,000	375,000	2,000,000	4,479,000
1948	840,000	1,112,000	670,000	1,250,000	4,181,000
1949	1,219,000	792,000	800,000	3,000,000	1,763,000
1950	900,000	651,000	2,280,000	3,500,000	3,123,000
10-year gross income	\$32,505,000	\$16,859,000	\$7,640,000	\$6,235,000	\$4,602,000

Year	Prunes Pounds	Cattle Head	Butterfat Pounds	Sheep Head	Wool Pounds
1941	2,709,000	13,500	2,777,000	110,000	1,477,000
1942	2,068,000	12,000	2,678,000	116,000	1,549,000
1943	4,056,000	16,500	2,685,000	109,000	1,439,000
1944	4,864,000	23,500	3,034,000	139,000	1,500,000
1945	6,000,000	24,500	3,343,500	141,000	1,160,000
1946	4,500,000	23,500	2,973,000	121,000	1,372,000
1947	7,000,000	29,000	3,400,000	127,500	1,000,000
1948	6,000,000	31,500	3,690,000	112,000	1,006,000
1949	5,500,000	43,500	3,621,000	102,000	840,000
1950	3,300,000	41,300	3,711,000	110,000	1,000,000
10-year gross income	\$3,908,000	\$20,139,000	\$26,660,000	\$15,622,000	\$6,244,000

Income from all farm production for past
ten years \$206,630,000

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:	<u>Acres</u>
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	6,000
Willow Creek Mital Water Co. - Sacramento River	1,000
Loam Ridge Irrigation District - Pumps.	1,200
Western Canal Company - Feather River	11,000
Stony Creek Valley, Riparian Water Rights	1,000
Pump Irrigation from Farm Wells	<u>24,000</u>

TOTAL ACREAGE OF IRRIGATION DISTRICTS: 143,155

Other land suitable for irrigation:

West of present irrigation systems.	75,000
Butte City District, East of Sacramento River	25,000
Stony Creek Valley.	1,200
West of Orland on Stony Creek below proposed Black Butte Dam	<u>15,000</u>

ADDITIONAL ACREAGE SUITABLE FOR IRRIGATION: 116,200

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

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 (producing) 3

NATURAL RECREATIONAL RESOURCES

Lakes	Stony Gorge Dam and Packer Lake	
Summer Camping Grounds - Improved		16
- Partially Improved		38
Estimated Number of Recreationists to National Forest Areas		15,000
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		
River - Striped Bass, Black Bass, Salmon, Shad and Catfish; also Steelhead and Rainbow Trout		
Lakes - Black Bass, Catfish, Sunfish, Crappie, Bluegill		
Rivers and Creeks: (Length in miles through Glenn County)		
Sacramento River		26
Black Butte River, a tributary of Eel River		20
Stony Creek, main stream		68
Stony Creek, north fork		12
Briscoe Creek		12
Grindstone Creek		28
Cold Creek		6
Willow Creek		37
Butte Creek		10
Estimated number of wild game:		
Columbia Black Tail Deer		7,000
California Brown Bear		40
Wild Ducks		500,000
Wild Geese		400,000
Ring-neck Pheasants		15,000
California Valley and Mountain Quail		10,000
Estimated number of predators:		
Mountain Lions		60
Coyotes		1,200
Bobcats		800
Badgers		50
Raccoons		4,000
Skunks		2,000
Mink		600
Other game: Wild Pigeon and Doves		
Wild Game reported killed:		
Deer		627
Mountain Lions		12
Coyotes		118
Muskrats trapped		20,000

FARM SUMMARY

The year 1950 returned to farmers the greatest dollar income of any year in the history of the County, even though the rainfall was lower than for the past several seasons. The dry winter season with a shortage of soil moisture at critical times was followed by a lighter fall in barley, shorter range grasses and other dry land crops. However, many irrigated crops produced above normal yields. Ladino clover seed production made the most advanced gain of any crop in recent years. The 2,280,000 pounds of seed produced in 1950 was three times the amount grown in the previous year. While final figures are not available from other states, there is ample proof that Glenn County produced more ladino seed than any other district in the United States for the year 1950.

Through a period of years, the livestock industry has kept on a population increase almost parallel with the increase of ladino clover planting.

STANDARDIZATION. Inspection for maturity and quality was made from samples representing 176,000 boxes of commercial lots of apricots, oranges, and pears. The condition of the fruit and the packaging were of excellent quality.

SEED CERTIFICATION. The rapidly growing seed industry, much of which is certified, required the full time of one inspector, and part time of one other inspector. The work included the inspection of all fields for the presence of noxious weeds, the inspection of harvesting and seed cleaning machinery, the inspection of cleaned seed, the taking of seed samples of every lot of seed, and the placing of seals and labels on all bags of certified seed.

WEED CONTROL. During the season from March through October, 47,600 gallons of dilute sprays were applied for weed control. The Department sprayed 628 miles of roads for puncture vine and Johnson grass, with a few plots of cattails and willows on public property.

Several infestations of Klamath weed, Russian knapweed and white horse nettle are under observation and treatment, aimed at eradication. Hoary cress, totaling about 140 acres on 125 properties, was sprayed. This noxious weed is easily spread by machinery and other farm practices. Present methods of treatment are giving fair control with all known plants being treated.

Pest control operators sprayed 15,400 acres of standing rice for the control of arrowhead lily, red stem, rough seed bulrush, sedge and other water weeds. 11,000 acres of clover were sprayed to control curly dock, buckhorn, star thistle; and 10,000 acres of barley were treated for mustard, star thistle, wild radish, and other minor weeds. The total cost to farmers for chemicals and labor was \$72,000.

The irrigation districts of the County treated 512 miles of ditch by chemical and oil spraying, burning, mowing, chaining, dragline, and hand cutting at a cost of \$45,000, thus making a total cost of over \$125,000 by public and private agencies for

weed control. The actual crop loss due to weeds is many times the amount spent in control.

RODENT CONTROL. In addition to the 7,000 pounds of bait materials put out by farmers for squirrel control, the Agricultural Department baited 10,000 acres with treated barley for squirrels and placed warfarin, zinc phosphide, 1080, red squill, and antu on 383 premises for rats and mice, using 1,400 pounds of treated baits.

INSECT CONTROL. In April the ash bug and the ash tingid threatened to defoliate all the street shade trees in Orland and Willows. A prompt application of BHC and DDT spray gave good control.

Sixteen hundred elm trees in the County were sprayed by the City and County as a public service to control the elm leaf beetle and the European elm scale.

The Valley grasshopper required some control, but the Hill or Devastator grasshopper did not appear in force this year. Pest control operators treated 2,750 acres of ladino clover and alfalfa for the control of red spider, mites, lygus bugs, grasshoppers, army worms and alfalfa caterpillars. 7,500 head of cattle were also sprayed for heel flies or cattle grub and lice. Some mosquito control work was carried on in both Orland and Willows, with excellent results.

INSECT PEST SURVEYS. In cooperation with the State Department of Agriculture fifty scented bait traps were operated by a part-time inspector to check the possible presence of the Oriental Fruit Fly. Traps were inspected one day each week from April through September. Specimens of the various insects trapped were returned to the Bureau of Entomology for identification. No Oriental Fruit Fly was reported.

A survey of 44 olive orchards was made to inspect scale infestation. Thirty-four properties, involving 344 acres, were found lightly infested with Black Scale. No Parlatoria oleae scale infestation was found in the olive orchards of the County.

Three citrus properites, totaling 32 acres, were reinspected following fumigation treatments given during the past four years. No red scale infestations were found.

Forty-three town properties were found infested with yellow scale. To date no yellow scale has been found in commercial orchards.

PEST CONTROL OPERATORS. The County Agricultural Department issued licenses to sixteen commercial airplane pest control operators, and to fourteen operators of ground spray machines. In addition there were seventeen farm-owner operators licensed to do pest control on their own properties. Special permits for each spray or dusting application, using hazardous materials, totaled 38 for insect control and 124 for weed control.

The University of California at Davis gave a short course in pest control, and the University Extension Service in the County, in cooperation with the State and County Departments of Agriculture, held several public meetings with growers and pest control operators in an effort to determine the safest and most effective measures to be followed in pest control. The meetings were well attended and very instructive.

PLANT DISEASE. As a result of dry weather in the budding and blooming period, plant disease did not become serious in the almond and apricot orchards. Rain at the time of the orange harvest in December made conditions favorable for the development of brown rot in the fruit and necessitated some spraying. Oak root fungus developed in a few orchards and has forced the pulling of a number of almond trees. This disease has been kept fairly well under control. In citrus, crown rot and scaly bark, and in olives, the olive knot, have been kept well under control. Walnut blight was less troublesome than in past years.

NEW CROPS. As the development of irrigation progresses, and a more intensive use of land develops, other crops new to this section will be introduced.

Cotton was grown in a limited way several years ago, and in 1950 an experimental plot of one acre of cotton was grown by the James Mills Orchard Company, which showed promise. As a result, a limited acreage is planned for 1951.

Milton Miller, Director of the Glenn County Extension Service, in cooperation with local farmers, conducted several safflower experimental plots. The plantings gave good promise, and indications are that an active planting will take place in 1951.

CHEMICALS USED BY THIS DEPARTMENT

<u>Chemical</u>	<u>Amount</u>
Ant Poison (Sodium Arsenite)	794 ounces
Antu Rodent Bait	90 pounds
Chlordane-treated bran	5,000 pounds
Red Squill, grain and meat bait	25 pounds
Sodium Fluosilicate-treated bran	5,000 pounds
Strychnine-treated barley	5,157 pounds
Strychnine-treated milo	180 pounds
Strychnine-treated rice	137 pounds
Strychnine-treated wheat	60 pounds
Toxaphene-treated bran	2,750 pounds
Warfarin	88 pounds
Zinc Phosphide-treated barley	2,238 pounds
Zinc Phosphide-treated oats	520 pounds
Benzene Hexachloride	50 pounds
Black Leaf 40	8 pints
Bordeaux	33 pounds
Borax	500 pounds
Chlorax	56 pounds
Chlordane	3 gallons
Cyanogas	240 ounces
DDT	188 pounds
Diesel Oil	4,470 gallons
Dow General Weed Killer	55 gallons
Kill-Tox	5 gallons
Lead Arsenate	15 pounds
Naphthalene Crystals	20 pounds
Pentachlorophenol Sprays	15 pounds
Shell Weedkiller No. 20	115 gallons
Sinox	30 gallons
Sodium Arsenite	45 gallons
Sodium Chlorate	200 pounds
Sodium Fluoroacetate - liquid 1080	50 quarts
Sodium Fluosilicate	15 pounds
Summer Spray Oil	54 gallons
2,4-D Amine	100 quarts
2,4-D Ester	8 quarts
2,4,5-T	5 quarts

WEIGHTS AND MEASURES REPORT

For the Year 1950

Tested and sealed without correction:

- 14 Counter Scales
- 16 Spring Scales
- 27 Computing Scales
- 39 Platform Scales
- 35 Heavy Capacity Scales
- 312 Weights
- 129 Retail Measuring Pumps and Meters
- 4 Wholesale Meters
- 214 Lubricating Oil Bottles and Liquid Measures

Tested and sealed after correction:

- 12 Counter Scales
- 10 Spring Scales
- 17 Computing Scales
- 49 Platform Scales
- 40 Heavy Capacity Scales
- 13 Weights
- 14 Retail Measuring Pumps and Meters
- 2 Wholesale Meters
- 5 Lubricating Oil Bottles and Liquid Measures

Tested and found to be out of order:

- 1 Counter Scale
- 1 Spring Scale
- 5 Computing Scales
- 8 Platform Scales
- 6 Heavy Capacity Scales
- 12 Weights
- 2 Retail Measuring Pumps and Meters
- 1 Wholesale Meter

Confiscated and condemned:

- 3 Weights

During the calendar year, 280 establishments were visited, and 205 certificates issued.