ANNUAL REPORT

Agricultural Commissioner

COUNTY OF GLENN

1949

GLEST COUNTY DEPARTMENT OF AGRICULTURE

WILLOWS, CALIFORNIA

P. V. Harrigan Agricultural Commissioner

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ANNUAL REPORT

For the

Year ending December 31, 1949

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DOARD OF SUPERVISORS

Marshall Lane, Chairman

C. C. Adams

Richard H. Nichols

John F. Fiack

W. L. Linville

OFFICE OF THE ACRICULTURAL CONTISTIONER Femorial Building Willows, California December 31, 1949

TO: THE HONGLABLE BOARD OF SUPLRVISORS OF GLENN COUNTY

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TO: DIRECTOR A. A. BROCK, CALIFORNIA STATE DEPARTMENT OF AGRICULTURE

This annual agricultural report on Glenn County is submitted in compliance with the following requirements of the Agricultural Code:

Section 65. RECCROS. The commissioner shall keep a record of his official acts and make an annual report to the Director of Agriculture on the condition of the agricultural interests in his county as to what is being done to cradicate or to control or to destroy pests and also as to quarantine against pests, and shall furnish from time to time to the director such other information as he may require.

Section 65.5. STATISTICS. The commissioner shall compile reports of the condition, acreage, production and value of the agricultural products in his county. The commissioner may publish such reports and shall transmit a copy thereof to the director.

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

Respectfully submitted,

F. V. HARRIGAN

Agricultural Commissioner

PLANT AND SEED INSPECTION

Field and Pasture Seed Vegetable and flower Seed		Sacks Packages		
Vegetable and Berry Plants Ornamental Plants and Bulbs	22,150 3 9,306			
Deciduous Fruit Trees Deciduous Nut Trees Citrus and Subtropical Fruit Trees Grapevines Shade Trees	19,862 6,047 795 557 648			
Нау	210	Tons		
Rejections				

APIARY REPORT

Deciduous Fruit and Nut Trees

11,629 colonies of bees in 249 apiaries were registered during 1949.

683

- 5,437 colonies of bees in 51 apiaries were certified to move from other counties in California into Glenn County.
- 4,900 colonies in 49 apiaries were certified to move from Glenn County to other counties in California.
- 1,915 colonies in 26 apiaries were certified to move within Glenn County.
- 2,186 colonies in 136 apiaries were inspected during the calendar year 1949.
- 12 colonies in 8 apiaries were found to be infected with American Foulbrood. 26 colonies in 19 apiaries were found to be infected with European Foulbrood.
- 30,750 pounds of package bees and 22,500 queen bees were certified for export. 487,960 pounds of honey and 10,250 pounds of beeswax were marketed during 1949.

FARM IRODUCTION

FIJID	CROPS		
Seed	Rice Barley Wheat Milo Beans Oats	20,000 160,000	
tujo; ww - (Ladino Clover Seed Alfalfa Seed Lotus Seed Bur Clover Seed Field Pea Seed Vetch Seed Sudan Seed Melilotus Indica Seed Mustard Seed	\$00,000 42,000 7,000 18,400 210,000 315,000 1,580,000 113,000 21,600	น น น น น
TREE (Oranges Pears Apricots, Dried Apricots, Fresh Peaches, Fresh Prunes, Dried Figs, Dried Figs, Dried Figs, Dried, Sub-standard Almonds English Walnuts Black Walnuts Olives Olive Oil Grapes, Wine	6,500 114,000 5,500,000 20,000 10,000 151 3,000,000 787,000 450,000 1,400,000	Pounds Boxes Pounds " " Tons Pounds " "
BEETS	Sugar Beets	8,700	Tons
	Alfalfa Hay Mixed Hay Ladino Hay	36,000 10,000 5,000	Tons Tons Tons

FARM PRODUCTRON (CONTINUED)

LIVESTOCE

	Butterfat Fat Cattle Cattle Cattle, Feeders Calves Hides, Cottle Tallow	3,621,000 9,000 13,500 5,000 16,000 1,750 5,500	17
	Lambs Sheep Wool Pelts	82,000 20,000 900,000 3,000	or Poun ds
	Hogs	25,000	Head
POULT	RY		
	Eggs Live Poultry	460,000 150,000	Dozen Pounds
	Turkey Eggs Dressed Turkeys	320,000 550,000	Each Pounds
BEES	AND HONEY		
	Package Bees Queen Bees Honey Beeswax	32,000 22,500 488,000 10,250	Pounds Each Founds Pounds
PASTUI	?E		
	Clover Pasture Grain Stubble Range Pasture	55,000 120,000 250,000	Acres Acres Acres
FOREST	r products		
	Lumber Milled Christmas Trees	1,800,000 5,000	Board Feet Each

EVALUATION OF COMMODITIES

FIELD	CROPS		
	Rice Barley Wheat Oats Milo Beans	\$4,023,000 2,112,000 172,500 23,500 65,000 12,000	\$6 , 40 8,00 0
SEED			
	Ladino Clover Seed Alfalfa Seed Lotus Seed Bur Clover Seed Field Fea Seed Vetch Seed Melilotus Indica Seed Sudan Seed Mustard Seed	1,144,000 11;500 10:500 8,500 9,500 28,400 14,200 142,800 2,000	7 277 d 00
SUGAR	Distance		1,371,800
HAY	DELO	•	109,000
naı	Alfalfa Hay Mixed Hay Ladino Clover Hay	900,000 200,000 60,000	1,160,000
TREE C	ROPS		
	Almonds English Walnuts Black Walnuts Oranges Prunes Pears Olives Olive Oil Apricets, Dried Apricets, Fresh Peaches, Fresh Figs, Dried Figs, Sub-standard Figs, Fresh Grapes	650,000 150,000 9,000 301,000 385,000 175,000 15,000 6,500 2,500 1,400 4,650 400 1,250	1.951700
			1,954,700

EVALUATION OF COMMODITIES (CONTINUED)

LIVESTOCK

Butterfat Fat Cattle Cattle Feeders Calves Hides and Tallow	\$3,032,500 2,043,000 1,350,000 625,000 100,000 16,500	∴a 16a 000
Lambs Sheep Wool Pelts	1,800,000 120,000 460,000 8,500	\$7,167,000 2,388,500
Hogs		1,125,000
POULTRY		
Turkeys Turkey Eggs Live Poultry Chicken Eggs	220,000 112,000 43,500 193,500	5 69 , 000
PASTURE		•
Ladino Grain Stubble Range	1,654,000 240,000 375,000	2,269,000
BEES AND HONEY		
Package Bees Queen Bees Honey Beeswax	35,200 22,500 39,200 4,100	101,000
FOREST PRODUCTS		
Milled Lumber Christmas Trees	117,000 5,000	122,000
PRODUCTION AND MARKETING	ADMINISTRATION	
1949 Conservation 1	P a yments	75,000
	TOTAL	\$24,820,000

AGRICULTURAL ECONOMIC RESOURCES

FIELD	CROP ACREAGE		
	Barley Rice Ladino Clover Fasture Ladino Clover Seed Alfalfa Wheat Milo Oats Sudan Lotus Sugar Beets Field Feas Mixed Hay	70,000 35,000 46,500 9,000 5,000 1,000 1,000 7,50 200 10,000	
FRUIT	AND NUT ACREAGE		
	Almonds Prunes Oranges Apricots Walnuts Olives Peaches Pears Figs Grapes Cherries Grapefruit	4,842 1,450 721 311 697 803 155 203 208 118 2	9,517
LIVEST	COCK HEAD		
	Sheep Dairy Cattle Beef Cattle Hogs Horses and Mules	100,000 22,000 12,500 10,000 792	
	Poultry Breeding Turkeys	50,000 7,000	
APIARY			
	Bees registered	11,629	Colonies

TEN YEARS! PRODUCTION OF TEN CROPS

Year	Rice Sacks	Barley S ac ks	Ladino Seed	Almonds Pounds	Olives Pounds
1940	408,000	315,000	Pounds 49,600	2,016,000	2,423,000
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
10-year gross a income	28,966,000	\$15,608,000	\$5,000,000	\$5,452,000	\$4,159,000
Year	Prunes Pounds	Cattle Head	Butterfat Pounds	Sheep Head	Wool Pounds
1940	2,584,000	8,100	1,879,000	107,000	1,245,000
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
income	\$3,594,000		\$24,369,000	\$14,121,000	\$5,855,000

NATURAL ECONOMIC RESOURCES

POPULATION OF GLEEN COUNTY 20,000
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. 6,000 Willow Creek Mutual Water Co Sacramento River. 1,000 Western Canal Company - Feather River. 11,000 Loam Ridge Irrigation District - Pumps. 1,200 Stony Creek Valley, Riparian Water Rights 1,000 Pump Irrigation from Farm Wells 22,000
TOTAL ACREAGE OF IRRIGATION DISTRICTS 141,155
Other land suitable for irrigation:
West of present irrigation systems
Black Butte Dam
TOTAL ACREAGE LAND SUITABLE FOR IRRIGATION 116,200
TOTAL ACREAGE IN COUNTY
Acres in Farm Land
Acres in Range Land
Acres in National Forest
Acres of Standing Timber
Species of merchantable trees: Sugar Pine; Ponderosa (yellow) Pine; Douglas Fir; White Fir; Red Fir; and Incense Cedar.
Sawmills in Operation
Natural Gas Wells (producing) 5
Number of Farms in Glenn County 2,300
Average acreage of each farm 260

KATUL L. RECREATIONAL RESOURCES

Lakes	Stony Gorge Dam and Packer Lake
Summer Camping Grounds - Im - Pa	proved 16 rtially Improved 38
Estimated Number of Recreat Forest Areas	ionists to National
Forest Acreage	221,408
Elevation in Forest	3,000 to 7,450
Trout Holding Ponds - Plask	ett Meadows - Elevation - 6,500
Kinds of Fish: Mountain Streams - Rainber River - Stripped Bass, Branch Catfish; also Stripped Bass, Catfi	ow Trout lack Bass, Salmon, Shad and eelhead and Rainbow Trout ish, Sunfish, Crappie, Bluegill
Rivers and Creeks: (Length Sacramento River Black Butte River, a tril Stony Creek, main stream Stony Creek, north fork Briscoe Creek Grindstone Creek Cold Creek Willow Creek Butte Creek	in miles through Glenn County) 26 26 20 28 6 37 10
Estimated number of wild gam Columbia Black Tail Deer California Brown Beat Wild Ducks Wild Geese Ring-neck Pheasants California Valley Quail	7,000 150 2,225,000 300,000 20,000 7,000
Estimated number of predator Mountain Lions Coyotes Bobcats Badgers Raccoons Skunks Mink	20 1,500 800 50 4,000 2,000 300
Other game: Mountain Quail,	Wild Pigeon and Doves
Wild Game reported killed: Deer Mountain Lions Coyotes Muskrats trapped	743 6 232 25,000

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CHENICALS USED

Zinc Phosphide Treated Barley Zinc Phosphide Treated Oats Strychnine Treated Barley Strychnine Treated Milo Strychnine Treated Theat Strychnine Treated Theat Strychnine Treated Theat Strychnine Treated Bran Ant Poison (Scotum Arsenite) Red Squill, Grain and Meat Bait Antu Rodent Bait W1050W (Sodium Fluoroacetate) Treated Barley	692 10,590 82 117 247 450,000 660	11 13 14
Liquid "1000" Bait 2,4-D 2,4,5-T Black Leaf 40 Bluestone and Lime Borax Carbon Bisulphide Chlordane Cyanogas DDT Diesel Cil Dow General General Fetroleum Teed Killer Kill Tox Lead Arsenate Napthalene Crystals Fentachlorophenol Sprays Sinox Sodium Arsenite Sodium Chlorate Sodium Cyanide Summer Spray Cil TCA	152 12 16 40 1,200 100 100 193 4,800 250 30 250 100 700 48 50	Guarts R Fints Founds Gallons Ounces Pounds Gallons R R Gallons Founds Gallons Pounds Gallons Pounds Ounces Founds

12,530 pounds of strychnine and zinc phosphide treated barley was used in squirrel control on 100,000 acres.

Baits were placed on 970 properties in rat control work.

50 pounds of treated rice were used for the control of blackbirds in rice fields.

95 pounds of treated small grain were distributed for the control of nice.

450,000 pounds of treated bran were placed on 30,000 acres in grasshop er control.

FARM SUMMARY

Farm production for the year 1949 was higher than for the past two years. However, declining prices for many farm products brought the total farm income in the county to a little lower level than was expected, i. e. to \$24,820,000. This was 2½ million dollars below the high years in 1947 and 1948. Higher prices for farm crops during these years made the chief difference in total income.

LADINO CLOVER. The ladino clover acreage has increased to 55,000 acres. 8,500 acres was cut for seed for a total of 800,000 pounds, of which 60% was certified. With restricted plantings recommended by the Production and Marketing Administration, much land formerly planted to rice and grain will eventually be planted to ladino clover. At the present rate of planting, it will not be too long before 100,000 acres of good land will be in ladino.

APIARY. The apiary industry is a much more important adjunct to the farm economy than is generally recognized. The busy honey bee carries plant pollen from flower to flower. This insures fertilization. This past year there were more than 14,000 colonies of bees registered in the county. As increased acreage is planted to clover, a greater dependence will be placed upon the beekeepers. One hive of bees to each acre of seed clover is considered the very minimum for proper pollinization. The recommended number of 2 hives or more to each acre greatly increases the seed yield. The beekeeper has his problem too, as chemical control of insect pests in seed fields often takes a heavy toll in bees. A closer cooperation between the seed growers and apiculturists is an important factor to the success of both of these industries.

WEED CONTROL. An old adage says "25% of the farmer's crop is weeds." Control of these weeds should be a highly profitable business to the farmer.

Barley and rice yields were largely influenced by a new impetus in weed control. New and highly potent herbicides were used to reduce weed growths in growing grain and rice fields this last season, as 27,000 acres of rice, grain, ladino clover, and milo maize were sprayed by airplane to control weeds.

The need for closer cooperation in weed control has taken a more serious turn with the gradual increased spread of certain very serious weed pests. Klamath weed, long a menace to range land in districts with ample rainfall, is gradually becoming a nuisance on irrigation canal banks and in irrigated fields. Hoary Gress, another serious weed, is making inroads on irrigated lands, as 45 properties infested with this pest have been reported. The gradual spread of weeds in rice fields, especially Rough Seed Bulrush, necessitates an increasing interest in weed control intrice. Approximately \$70,000 was spent in weed control this year.

GRASSHOFTER CONTROL. This past summer one of the heaviest grasshopper infestations ever reported in the county was present in nearly all parts of the county. Several different crops and range land pastures were severely damaged. Ladino clover, barley and alfalfa fields received the brunt of the grasshopper outbreak. The loss from hopper damage was estimated at \$158,000. Through the cooperation of local farmers and airplane pest control operators, 42,000 acres of land were treated with either dre bait or liquid sprays at an estimated cost of \$30,000. The newer type of chemicals, chlordane and DDT, gave excellent results, either as a liquid bait or mixed with dry bran. In addition to this, 450,000 pounds of government supplied bran and sawdust, treated with sodium fluosilicate, were used in control work.

RODERT CONTROL. This year well over 100,000 acres of farm and range land were treated for ground squirrels. 49,000 acres were treated by the County Agricultural Department, using prison help. The balance of the treated area was baited by farmers on their own land. This was the largest area of land treated in recent years. Excellent results were obtained by the use of strychnine, zinc phosphide and sodium fluoroacetate treated grain.

THESTG. The year 1949 completes the third year of county-wide insect survey. No new serious insect pests were found. Since the final fumigation on red scale was accomplished, no new scale has been found. However, cottony cushion scale, black scale and citricola scale were reported. Elm leaf beetle, aphis, lygus bug, and red mite were present in several locations and did considerable damage this past season.

CERTIFICATION. Seed certification on 7,000 acres of the following seeds, ladino clover, sudan grass, alfalfa, milo naize, rice and barley, required a great deal of attention. One inspector was assigned full time to this phase of the agricultural program, which included inspecting the fields at harvest time in weed control, seed sampling for purity and germination tests, and the tagging of certified seed.

WEIGHTS AND MEASURES REPORT

For the Year 1949

Tested and sealed without correction:

23 Counter Scales

11 Spring Scales 26 Computing Scales 51 Platform Scales

28 Heavy Capacity Scales

203 Weights 95 Retail Measuring Pumps and Meters

3 Wholesale Meters

Tested and sealed after correction:

12 Counter Scales

& Spring Scales

14 Computing Scales
54 Flatform Scales
39 Heavy Capacity Scales eights

18 Retail Measuring Pumps and Meters

1 Wholesale Meter

Tested and found to be out of order:

4 Counter Scales

4 Computing Scales
10 Platform Scales

2 Heavy Capacity Scales

2 Retail Measuring Pumps and Meters

During the calendar year, 289 establishments were visited, and 203 certificates issued.