

# **ANNUAL REPORT**



**Agricultural Commissioner**

**COUNTY OF GLENN**

**1952**



**P. V. HARRIGAN**

**GLENN COUNTY DEPARTMENT OF AGRICULTURE**

WILLOWS, CALIFORNIA

**ANNUAL REPORT**

For the

Year Ending December 31, 1952

**P. V. HARRIGAN**

Agricultural Commissioner

and

Sealer of Weights and Measures

**BOARD OF SUPERVISORS**

John F. Fiack, Chairman

Marshall Lane

W. L. Linville

George J. Otterson

Geo. E. (Nip) Roberts

**COUNTY OF GLENN  
DEPARTMENT OF AGRICULTURE**

Memorial Building, Willows

P. V. Harrigan  
Agricultural Commissioner

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 sixteenth annual report published by this department.

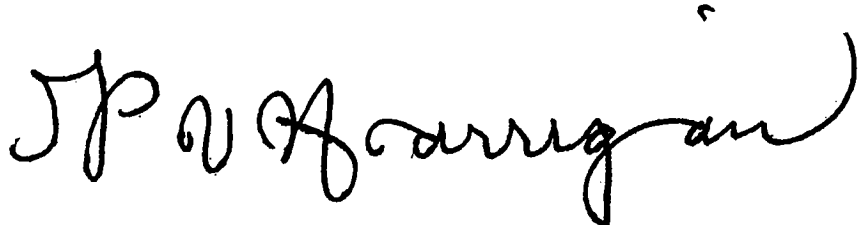
Favorable weather and improved farm practices were two factors contributing to successful farm operations during the year. There were substantial increases in production of rice, ladino clover seed and butterfat in 1952.

Values indicated are based on fairly accurate, average selling prices and do not represent net returns to the farmer. Labor and marketing costs remain high; however, this year Glenn County's production of agricultural products exceeds \$42,000,000, which is the highest income recorded in the history of the county.

Copies of this report are sent to a number of federal, state and county agencies, and to many organizations and individuals. 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 co-operated in helping to make this report possible.

Respectfully submitted,



P. V. HARRIGAN  
Agricultural Commissioner

# CONTENTS

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	Page
Production and Value of Agricultural Products .....	4-5
Ten Year Production Record of Twenty Crops .....	6-7
Agricultural Resources .....	8
Natural Economic Resources .....	9
Recreational Resources .....	10
Rainfall Record - 74 years .....	11
Milestones in the History of Agriculture and the Development of the State and County Departments in California .....	12-13
Comments on Some Departmental Activities .....	13-14
Plant Quarantine .....	14
Report of Chemicals Used .....	15
Apiary Report .....	15
Weights and Measures Report .....	16

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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

# PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS

## GLENN COUNTY, CALIFORNIA — 1952

FIELD CROPS	Production	F.O.B. Values	Totals
Rice .....	1,500,000 cwt.	\$ 9,000,000.	
Barley .....	500,000 cwt.	1,700,000.	
Wheat .....	35,000 cwt.	122,500.	
Oats .....	7,000 cwt.	24,500.	
Milo .....	17,500 cwt.	61,000.	
Sugar Beets .....	9,057 cwt.	126,000.	
Safflower .....	36,000 cwt.	175,000.	
Beans .....	970 cwt.	10,500.	
Hay			
Alfalfa .....	35,000 tons	984,000.	
Ladino Clover .....	18,000 tons	110,000.	
Mixed .....	20,000 tons	440,000.	
Pasture			
Legumes .....	69,000 acres	2,070,000.	
Range .....	250,000 acres	250,000.	
Stubble .....	100,000 acres	200,000.	
			\$ 15,273,500.00
<b>SEED CROPS</b>			
Ladino Clover, certified	4,150,000 lbs.	4,150,000.	
Ladino Clover, nonctfd.	500,000 lbs.	350,000.	
Sudan .....	820,500 lbs.	106,700.	
Alfalfa .....	85,200 lbs.	34,100.	
Vetch .....	75,000 lbs.	6,000.	
Rice, certified .....	540,000 lbs.	38,000.	
			4,684,800.00
<b>ORCHARD CROPS</b>			
Almonds .....	3,750,000 lbs.	1,025,000.	
Apricots, dried .....	81,000 lbs.	22,000.	
Apricots, fresh .....	1,450,000 lbs.	50,700.	
Figs, dried .....	800,000 lbs.	95,000.	
Figs, fresh .....	450,000 lbs.	20,000.	
Olives .....	1,750,000 lbs.	115,000.	
Olive Oil .....	92,000 gal.	230,000.	
Oranges .....	86,000 boxes	350,000.	
Peaches, dried .....	15,000 lbs.	3,000.	
Peaches, fresh .....	326,390 lbs.	11,300.	
Pears .....	5,990,000 lbs.	300,000.	
Prunes, dried .....	5,750,000 lbs.	630,000.	
Walnuts, Black .....	200,000 lbs.	4,000.	
Walnuts, English .....	885,000 lbs.	195,000.	
			3,051,000.00

# PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS

(Continued)

LIVESTOCK	Production	F.O.B. Values	Totals
Butterfat .....	3,875,000 lbs.	\$ 4,601,000.	
Fat cattle .....	16,000 head	3,280,000.	
Cattle .....	14,000 head	1,680,000.	
Calves .....	11,500 head	565,000.	
Hides .....	1,200 each)		
Tallow .....	35,000 lbs. )	15,000.	
Sheep .....	32,000 head	385,000.	
Lambs .....	137,000 head	3,338,000.	
Wool .....	1,630,000 lbs.	1,030,000.	
Pelts .....	3,500 each	15,000.	
Hogs .....	52,258 head	1,672,200.	
			\$ 16,581,200.00
<b>POULTRY</b>			
Poultry, live .....	150,000 lbs.	40,500.	
Eggs .....	500,000 doz.	230,000.	
Turkeys, dressed .....	1,325,000 lbs.	556,500.	
Turkey eggs .....	440,000 each	140,800.	
			967,800.00
<b>APICULTURE</b>			
Package Bees .....	26,475 lbs.	31,700.	
Queen Bees .....	13,000 each	15,000.	
Honey .....	850,500 lbs.	85,000.	
Beeswax .....	10,500 lbs.	5,500.	
Pollination .....	- - -	25,700.	
			162,900.00
<b>GOVERNMENT PAYMENTS</b>			
Agricultural Conservation	- - -	105,000.	
			105,000.00
<b>FOREST PRODUCTS</b>			
Logs .....	5,000,000 bd. ft.	200,000.	
Milled lumber .....	18,000,000 bd. ft.	1,440,000.	
Christmas trees .....	6,000 each	7,500.	
			1,647,500.00
			1,647,500.00
<b>GRAND TOTAL OF AGRICULTURAL PRODUCTS — 1952</b>			<b>\$ 42,473,700.00</b>

## TEN YEAR PRODUCTION RECORD OF TWENTY CROPS

Year	Rice Cwt.	Barley Cwt.	Ladino Seed Pounds	Alfalfa Seed Pounds	Almonds Pounds
1943	394,000	415,000	118,000	15,000	1,415,500
1944	850,000	701,000	325,000	10,000	2,700,000
1945	690,000	675,000	350,000	30,000	1,900,000
1946	1,050,000	700,000	440,000	25,000	2,000,000
1947	1,168,000	680,000	375,000	11,000	2,000,000
1948	840,000	1,112,000	670,000	7,500	1,250,000
1949	1,219,000	792,000	800,000	42,000	3,000,000
1950	900,000	651,000	2,280,000	52,500	3,500,000
1951	1,060,000	500,000	3,200,000	45,500	3,500,000
1952	1,500,000	500,000	4,500,000	85,500	3,750,000
10-year Gross Income	\$44,091,500.	\$19,026,000.	\$15,714,000.	\$ 117,500.	\$ 7,660,000.

Year	Walnuts Pounds	Figs Pounds	Oranges Boxes	Olives Pounds	Prunes Pounds
1943	515,500	1,220,000	85,000	7,874,000	4,056,000
1944	258,000	1,258,500	115,000	7,858,000	4,864,000
1945	342,000	960,000	85,000	3,690,000	6,000,000
1946	302,000	1,766,000	120,000	1,573,000	4,500,000
1947	437,000	700,000	78,000	4,479,000	7,000,000
1948	325,000	452,000	45,000	4,181,000	6,000,000
1949	787,000	320,000	86,000	1,763,000	5,500,000
1950	716,500	60,000	78,000	3,123,000	3,300,000
1951	856,500	1,040,000	105,000	4,000,000	5,544,000
1952	885,000	1,250,000	86,000	1,750,000	5,750,000
10-year Gross Income	\$ 1,210,000.	\$ 739,000.	\$ 3,165,500.	\$ 4,693,000.	\$ 4,909,500.

(Continued on Next Page)

# TEN YEAR PRODUCTION RECORD OF TWENTY CROPS

(Continued)

Year	Cattle Head	Butterfat Pounds	Hogs Head	Sheep Head	Wool Pounds
1943	16,500	2,685,000	34,000	109,000	1,439,000
1944	23,500	3,034,000	41,000	139,000	1,500,000
1945	24,500	3,343,500	17,500	141,000	1,160,000
1946	23,500	2,973,000	16,000	121,000	1,372,000
1947	29,000	3,400,000	15,000	127,500	1,000,000
1948	31,500	3,690,000	20,000	112,000	1,006,000
1949	43,500	3,621,000	25,000	102,000	840,000
1950	41,300	3,711,000	28,000	110,000	1,000,000
1951	44,200	3,807,000	47,500	130,000	1,375,000
1952	41,500	3,875,000	52,258	169,000	1,630,000
10-year Gross Income	\$26,048,000.	\$32,236,000.	\$10,046,500.	\$19,980,000.	\$ 7,176,500.

Year	Turkeys Pounds	Turkey Eggs	Package Bees Pounds	Honey Tons	Lumber & Logs Bd. Ft.
1943	934,000	486,000	37,000	246	
1944	1,975,000	642,000	68,000	178	
1945	2,382,000	841,000	30,000	114	500,000
1946	1,482,000	635,000	37,500	220	1,400,000
1947	785,000	315,000	39,000	137	500,000
1948	500,000	75,000	38,500	238	5,000,000
1949	550,000	320,000	32,000	244	1,800,000
1950	1,265,000	400,000	25,000	144	7,000,000
1951	1,250,000	351,000	24,500	462	29,000,000
1952	1,325,000	440,000	26,475	450	43,000,000
10-year Gross Income	\$ 5,156,500.	\$ 1,321,800.	\$ 496,000.	\$ 552,000.	\$ 4,242,000.

Income from all farm production for past ten years: \$265,649,000.



# AGRICULTURAL RESOURCES

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FIELD CROPS	Acreage	Totals
Alfalfa .....	10,000	
Barley .....	50,000	
Hay, Mixed .....	17,000	
Ladino Clover .....	69,000	
Milo .....	1,400	
Oats .....	1,000	
Rice .....	42,000	
Sudan .....	1,020	
Sugar Beets .....	698	
Wheat .....	6,000	
		198,118
ORCHARD CROPS		
Almonds .....	4,700	
Apricots .....	200	
Cherries .....	3	
Citrus .....	700	
Figs .....	189	
Grapes .....	54	
Olives .....	850	
Peaches .....	110	
Pears .....	200	
Pecans .....	2	
Prunes .....	1,506	
Walnuts, English .....	812	
		9,326
LIVESTOCK AND POULTRY	Head	
Cattle		
Beef .....	16,000	
Dairy .....	26,000	
Hogs .....	12,000	
Horses and Mules .....	400	
Sheep .....	145,000	
Poultry .....	45,000	
Turkeys, Breeding Stock .....	8,000	
		252,400
APIARY	Colonies	
Bees, Registered .....	9,427	
		9,427

## 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 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 .....	3,800
Pump Irrigation from farm wells .....	36,000
TOTAL ACREAGE OF IRRIGATION DISTRICTS: .....	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 (Producing) .....	6
Number of farms in the County .....	1,780

## RECREATIONAL RESOURCES

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Lakes .....	Stony Gorge Dam and Packer Lake
Forest Camp Grounds .....	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 .....	1,700,000
Wild Geese .....	800,000
Ring-neck pheasants .....	50,000
California Valley and Mountain Quail .....	15,000
Mourning Doves .....	35,000
Band-tail Pigeons .....	8,000

### Estimated number of predators:

Mountain Lions .....	50
Coyotes .....	2,500
Bobcats .....	1,200
Badgers .....	150
Raccoons .....	7,000
Skunks .....	4,000
Mink .....	500
Grey Fox .....	2,000

### Wild Game reported killed:

Deer .....	734
Mountain Lions .....	12
Coyotes .....	121
Muskrats trapped .....	15,000

# ANNUAL RAINFALL AT WILLOWS, CALIFORNIA

74 YEARS — 1878-1952

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	1906-1907.....	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	1920-1921.....	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		

# MILESTONES IN THE HISTORY OF AGRICULTURE

## and the

### Development of the State and County Departments in California

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Previous to 1849-50 when the Gold Rush jumped the population of California from 15,000 to an estimated 93,000 the economy of the state was based on cattle raising. Hides and tallow were the only commercial products of this industry. It was known, however, even previous to this time, that many of the things which were later to make the State great in agriculture could be successfully produced.

From the time of the first settlement in 1769 at San Diego, grain, grapes and figs were raised for local consumption. Truck crops were also successfully grown. To the Mission Fathers must go the credit for this and for the first irrigation systems in the State. In 1782, Don Pedro Fages, Governor of Monterey, planted an orchard of 600 trees. William Wolfskill planted the first orange grove at San Gabriel Mission in 1804.

Between 1839 and 1849 Captain John A. Sutter had made a good start in large scale diversified farming on his land grant in Northern California; however, this was ruined by the gold rush and it was not until the gold fever had cooled somewhat that agriculture was first felt in the economy of this State.

Prior to 1869, when the transcontinental railroad was completed, the principal crop was grain which could be shipped by sea; however, with the completion of the railroad, fruit shipments to eastern markets increased so rapidly that the State Grange issued a warning in 1879 against over-production.

The same year saw the California State Horticultural Society organized by Mathew Cooke, to combat San Jose Scale and Codling Moth. It was reported that Codling Moth entered the state in 1873 in five barrels of apples. The first Board of Viticultural Commissioners was established in 1880, and that year a quarantine was issued on the distribution of grape vines, cuttings, etc., in an effort to prevent the spread of grape phylloxera. In the years 1880-1883 the grape acreage increased from 35,000 acres to 140,000 acres.

A law was passed providing for County Boards of Horticulture in 1881. This was not acted on until 1885 when Los Angeles, Ventura, San Diego and Kern Counties appointed three-man Boards. Colusa County (of which Glenn was still a part) appointed a Board in 1888. Although county records show that petitions were filed as early as 1895 requesting that a Board of Horticulture be appointed, it was not until January 4, 1909 that the Glenn County Board was formed. The members of the first Glenn County Board of Horticulture were: Charles L. Donohoe, Frank S. Reager and Fred A. Crook. These men were appointed for two year terms to serve without salary.

In 1911, County Boards of Horticultural Commissioners were fused into the single office of County Commissioner. Until 1912 the duties of these various agencies were concerned with the inspection of nurseries, prevention of spread of insect pests and plant diseases through the medium of nursery stock, fruit boxes, containers, etc., and attempts to prevent introduction of pests into the State. From this point on the duties of both the state and county departments increased rapidly.

Carl Ley, the first Horticultural Commissioner for Glenn County, was appointed February 4, 1913. He was followed in office by C. Hugh Wren in 1917, H. M. Kingwill in 1920, and C. Hugh Wren again in 1927. In 1929, "County Agricultural Commissioners" superseded "County Horticultural Commissioners". Mr. Wren continued to serve in this capacity until 1932 when he was succeeded by Carl H. Spurlock. The present Agricultural Commissioner, P. V. Harrigan, was appointed in 1937.

# MILESTONES IN THE HISTORY OF AGRICULTURE

(Continued)

The following chronology reveals the growth of state and county departmental functions and indicates the dates of authorization:

- 1915 Standardization, including apples and a few other commodities.
- 1917 Rodent and Weed Control.
- 1919 Control of Predatory Animals, and Walnut Codling Moth.
- 1920 Shipping Point Inspection. First Federal-State Crop Reporting Service.
- 1921 Weights and Measures, Plant Pathology Laboratory, State Nursery Service, California Warehouse Act, California Grain Standardization Act, Pure Seed Law, Mealy Bug Law, Weed Free Area Act, Economic Poisons Act.
- 1922 State Seed Laboratory.
- 1923 Regulation of Agricultural Minerals.
- 1925 Citrus White Fly Eradication, Certification of Cotton Seed, Market News Service.
- 1927 General Field Crop Certification, Spray Residue Act, Produce Dealer's Act, Capri Fig Law, Apiary Inspection Act.
- 1929 Deciduous Fruit Dealer's Act, Gasoline and Oil Substitution Act, Ground Squirrel Eradication on Plague Areas, Hay Inspection.
- 1930 Control of Injurious Bird Pests, Camel Thorn Eradication, Highway Inspection of Fruit and Vegetables.

In 1933 the Agricultural Code was adopted, this, together with the Administrative Code, defines the duties and functions of the State and County Departments of Agriculture. As California agriculture has expanded, so also have these services expanded to meet the needs created.

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## COMMENTS ON SOME DEPARTMENTAL ACTIVITIES

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### STATISTICS

Fourteen years ago in the year 1939 the total farm production of Glenn County was an estimated \$7,698,189.00. In the year 1952 farm production and value had increased nearly six times, to a total of \$42,473,700.00. These figures seem to indicate a sound economy county-wide despite inflationary tendencies.

### LADINO CLOVER FOR SEED

The acreage of ladino clover in Glenn County has increased since last year, but the acreage harvested for seed was slightly less. Growers are learning better ways of producing seed crops and many first year fields now yield nearly as much as the second and third year stands of past years. The extensive plantings of 1950 and 1951 are now in peak production; this, coupled with better farm practices has combined to produce 4,700,000 pounds, the heaviest seed crop yet recorded. Out of the total crop, over four million pounds met the requirements for certification.

The inspection of harvesters at harvest time, the continuous inspection of cleaning mills during the year, the drawing of certification samples and the tagging of all lots passing the requirements for certified seed was handled by inspectors from the department.

### WEED CONTROL

Spring rains made conditions favorable to weed growth thus making the control problem a tough one. During the season the agricultural department used 75,000 gallons of dilute sprays and 12,000 pounds of soil sterilants in controlling primary noxious weeds and in treating Puncture Vine, Russian Thistle and Johnson Grass along public roads and state highways.

# COMMENTS ON SOME DEPARTMENTAL ACTIVITIES

(Continued)

Pest control operators and farmers reported treating 53,000 acres for weed control in growing crops of barley, rice, ladino clover, alfalfa and Safflower fields. The several irrigation districts reported treating 550 miles of ditches. To these figures must be added all the man-hours and money spent by individual farmers in weed control on their own places and using privately owned equipment. Three hundred fifty permits were issued to use 2,4-D to control weeds on 45,000 acres. Eight complaints were received on drift damage.

## PEST CONTROL

Heavy infestations of the Ash Bug and Elm Leaf Beetle were the rule during the spring and early summer. The department, as a public service, sprayed the Elm and Ash trees throughout the county. Commercial pest control operators and individuals reported treating 28,000 acres for insect pests in clover, alfalfa, and beet fields. It is interesting to note that of the 81,000 acres treated commercially for weed and insect control, the airplane was used on 45,700 acres.

## RODENT CONTROL

Rats and mice are increasing in population in some areas despite continued control efforts. Good results have been obtained from poison baits, particularly Warfarin. However, these pests are continuously migrating from open fields to ranch buildings, town houses, garages and grain warehouses. During the year 90,000 acres were treated with poison bait for ground squirrel control. Most of the work was carried on by farmers. However, the department used directly, or distributed to individuals, over 6,000 pounds of poison baits.

## STANDARDIZATION

Inspections for maturity and quality on samples of commercial lots of apricots, peaches, pears and oranges, representing 167,103 packed boxes, were made during the year. Retail and wholesale produce amounting to 959 tons was also inspected. The quality of eggs was checked at the various retail outlets. Some commodities displayed for sale were found to be sub-standard and steps were taken to correct this condition. Generally, it may be said, fruits, nuts, vegetables and eggs within the county were of good quality.

## WEIGHTS AND MEASURES

A 100-gallon test measure for use in checking wholesale petroleum meters was added to the equipment of this department in 1952. It has been the policy of the department to provide from time to time such additional equipment as is necessary to properly test the many types of weighing and measuring devices in use. During the year 2,238 pieces of equipment, signs and packages were checked for accuracy and legality.

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## PLANT QUARANTINE

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### INTERSTATE SHIPMENTS:

Number of Shipments Passed: .....	618
Number of Plants Passed: .....	11,687
Number of Shipments Rejected: .....	1
Number of Plants Rejected: .....	6

### INTRASTATE SHIPMENTS:

Number of Shipments Passed: .....	663
Number of Plants Passed: .....	40,615
Number of Shipments Rejected: .....	5
Number of Plants Rejected: .....	34

## CHEMICALS USED BY THIS DEPARTMENT

### INSECT CONTROL

Benzene Hexachloride (BHC) .....	49 Pounds
D.D.T. ....	298 Pounds
Chlordane .....	12 Gallons
Chlordane-treated Bran .....	4,846 Pounds
Cyanogas .....	87 Ounces
Methyl Bromide .....	8 Ounces
Sodium Cyanide .....	24 Ounces
Summer Oil Spray .....	78 Gallons
Lead Arsenate .....	20 Pounds
Bordeaux .....	32 Pounds
Sodium Arsenite .....	5 Gallons

### WEED CONTROL

Polybor Chlorate .....	6,025 Pounds
Clorax .....	50 Pounds
Sinox .....	1 Gallon
Soluble Sulphur .....	5,632 Pounds
Contact—Weed Killer .....	70 Gallons
Diesel Oil .....	23,697 Gallons
Shell "20" Weed Killer .....	1,469 Gallons
Sodium Chlorate .....	400 Pounds
2,4-D Amine .....	13 Gallons
2,4-D Ester .....	29 Gallons
2,4,5-T .....	2 Gallons
CMU .....	30 Pounds

### RODENT CONTROL

Antu Rodent Bait .....	13 Pounds
Strychnine-treated Barley .....	4,768 Pounds
Strychnine-treated Milo .....	153 Pounds
Strychnine-treated Rice .....	60 Pounds
Zinc Phosphide-treated Barley .....	86 Pounds
Zinc Phosphide-treated Oats .....	55 Pounds
Sodium Fluoroacetate-liquid 1080 .....	7 Ounces
Warfarin treated bait .....	1,304 Pounds

## APIARY REPORT

	Colonies	Apiaries
Registered during 1952 .....	9,427	219
Entering County .....	2,687	43
Leaving County .....	981	18
Moving within the County .....	3,001	55
Inspected during 1952 .....	6,993	230
Infected with American Foulbrood .....	28	14
Infected with European Foulbrood .....	9	6
Burned for American Foulbrood .....	28	14

Note: Many of the bees were located in Ladino clover seed fields. Beekeepers reported an additional income of \$27,610 from hire of bees for pollination.



## WEIGHTS AND MEASURES REPORT — 1952

TESTED AND SEALED WITHOUT CORRECTION: TOTAL - 943.

- 6 Counter scales
- 9 Spring scales
- 27 Computing scales
- 31 Platform and Dormant scales
- 7 Livestock scales
- 13 Vehicle scales
- 2 Abattoir scales (Monorail scales)
- 289 Weights
  - 1 Vehicle tank meter
  - 6 Bulk plant meters
  - 74 Retail pumps and meters
  - 24 Grease meters
  - 2 Linear measures
- 138 Liquid capacity measures
- 300 Lubricating oil bottles tested for capacity
- 14 Farm holding tanks

TESTED AND SEALED AFTER CORRECTION: TOTAL - 315.

- 16 Counter scales
- 20 Spring scales
- 32 Computing scales
- 54 Platform and Dormant scales
- 37 Livestock scales
- 42 Vehicle scales
- 3 Abattoir scales (Monorail scales)
- 82 Weights
  - 6 Vehicle tank meters
  - 1 Bulk plant meter
- 20 Retail pumps and meters
- 1 Grease meter
- 1 Lubricating oil bottle tested for capacity, was MINUS

TESTED AND FOUND TO BE OUT OF ORDER: TOTAL - 20.

- 1 Counter scale
- 1 Spring scale
- 3 Computing scales
- 5 Platform and Dormant scales
- 4 Livestock scales
- 2 Vehicle scales
- 1 Vehicle tank meter
- 1 Retail pump
- 2 Grease meters

EQUIPMENT CONDEMNED: TOTAL - 9

- 1 Livestock scale
- 7 Vehicle scales
- 1 Weight

Packages or containers checked: 23 light, 485 correct, 2 heavy.

Signs Inspected: 423 passed, 18 corrected.

Establishments visited during 1952: 485.

Certificates of Inspection issued: 300.