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California Department of Food and Agriculture

Agricultural Commissioners' Crop Reports

Glenn County

1958-1964

California County Agricultural Commissioners' Reports from the California Department of Food and Agriculture. This collection consists of annual crop and livestock data from each of the 58 California Counties. The collection covers 1915-1981; digitization of the rest of the collection is forthcoming.

This digitization project was funded by the Giannini Foundation of Agricultural Economics,
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United States Department of Agriculture Stabilization And Conservation Participation — 1958

SUPPORT PRICES ALLOWED FOR COMMODITIES (which are under loan or purchase agreement)

Barley	\$ 2.14½ cwt.
Beans, Pinto	5.47 cwt.
Medium White	6.42 cwt.
Small White	6.80 cwt.
Red Kidney	7.98 cwt.
Pink	6.60 cwt.
Small Red	6.70 cwt.
Large Lima	9.55 cwt.
Baby Lima	4.80 cwt.
Yellow Corn	2.14 cwt.
Grain Sorghum	2.22 cwt.
Oats	2.31 cwt.
Rice (20c premium for No. 1)	4.14 cwt.
Wheat	3.23 cwt.
Honey .....	.09½ lb.

LOAN REDUCTION FOR NOXIOUS WEED SEEDS

Barley, Oats, Rye & Wheat	\$.10 bu.
Flaxseed .....	.15 bu.
Grain Sorghums .....	.15 bu.

COMMODITIES UNDER LOAN — 1958

Beans	3,699 cwt.	\$25,153 00	
Honey	73,425 lbs.	6,975.00	\$ 32,128.00

DIRECT PAYMENTS

Wool Incentive Payment	\$ 95,100.00	
Agricultural Conservation Payment	60,700.00	
Rice Acreage Reserve (Soil Bank)	226,700.00	
Sugar Beet Processor & Import Tax Payment	23,800.00	\$ 406,300.00

INDIRECT PURCHASE BENEFIT TO DAIRY INDUSTRY*

500,000.00

TOTAL UNITED STATES PARTICIPATION (Agriculture)

\$ 938,428.00

*Purchases by the United States Department of Agriculture of dairy products — milk, butter and cheese — in the amount of over \$19,000,000 in California during 1958 reflects an indirect benefit to Glenn County dairymen of approximately \$500,000 or equivalent to \$20 per cow. The school lunch program is one of the agencies that benefit by this program.

ASSESSED VALUATION	\$45,349,040.00
BUDGET TO OPERATE GLENN COUNTY	\$ 5,759,098.00

SOURCE OF INCOME:

Current County Taxes	\$ 1,891,432.00
Other Revenue	\$ 3,867,666.00
Current County Taxes	32.8%
Federal, State and Other Funds	67.2%

CHEMICALS AND POISONS USED BY THIS DEPARTMENT

RODENT AND PEST ANIMAL CONTROL:

Strychnine-treated barley	3,795 pounds
Strychnine-treated milo	186 pounds
Strychnine-treated rice	14 pounds
Strychnine-treated rolled wheat	82 pounds
Pival-treated bait	3,214 pounds
Warfarin-treated bait	2,592 pounds
"1080" treated bait	408 pounds

INSECT AND FUNGI CONTROL:

Aldrin "E"	25 pints
Aldrin dust, 5%	25 pounds
BHC	12 pounds
Bordeaux	44 pounds
Chlordane dust, 5%	140 pounds
Chlordane, 72%	11 gallons
Cyanogas	16 ounces
DDT, 50%	65 pounds
DDT, 25%	92 quarts
Dieldrin, 1.7%	58 quarts
Dieldrin dust 1.5%	60 pounds
Dieldrin-treated bran	3,457 pounds
Ethion	1 quart
Lead Arsenate	24 pounds
Malathion	68 quarts
Malathion dust	58 pounds
Malathion "E"	8 gallons
Methyl Bromide	20 pounds
Niatox	5 gallons
Orthocide Fungicide	8 pounds
Paradichlorobenzine	3 pounds
Summer spray oil	75 gallons
Zinc (Ziram)	4 pounds

WEED CONTROL:

Amino Triazole	20 pounds
Borax, soil sterilant	1,000 pounds
Chlorea	200 pounds
Contact weed killers	31 quarts
D-B Granular	50 pounds
Dowpon & Radapon	250 pounds
Diesel oil	3,029 gallons
H.C.G.	10 gallons
Kerosene	107 gallons
Polybor chlorate	50 pounds
Sinox	13 gallons
Sodium Chlorate	660 pounds
Spreaders	12 gallons
Spreader, Z-1	35 pounds
2,4-D	595 gallons
2,4-D dust	300 pounds
2,4,5-T	12 gallons
Ureabor	50 pounds
White gasoline	213 gallons

The Following Table Was Compiled From Commercial Pest Control Operators' Reports And From Permits Issued To Private Farm And Orchard Operators.

Crop	Acreage Treated By Aircraft		Acreage Treated By Ground Rig		Total Acreage Treated
	Herbicides	Insecticides	Herbicides	Insecticides	
FIELD CROPS:					
Rice	24,817	13,331			38,148
Yellow Corn	146	365			511
Barley	8,888		2,982		11,870
Milo	300	320	1,167		1,787
Alfalfa	40	3,193	66	66	3,365
Ladino	3,384	7,024	2,807	887	14,102
Beans & Peas		1,015			1,015
Beets		570			570
FRUITS & NUTS:					
Almonds		484		558	1,042
Walnuts		130		544	674
Peaches, Prunes & Apricots		226		674	900
Oranges				531	531
Pears		290			290
MISCELLANEOUS:					
Weeds & Summer Fallow ..	335		1,840		2,175
Pasture	760	320	245	80	1,405
Tomatoes, Cabbage		140			140
TOTALS	38,670	27,408	9,107	3,340	78,525

286 Permits issued to use herbicides in weed control.
50 Permits issued to use injurious materials in insect control.

New legislation requires that a permit must be obtained from the Agricultural Commissioner's office before certain pesticides can be purchased. (Section 1080 and 1080.1 Agricultural Code.) The following is a list of materials for which a permit is necessary:

1. Pest control materials containing calcium arsenate, standard lead arsenate or copper acetoarsenite (Paris Green), in dust form.
2. Pest control materials containing tetraethyl pyrophosphate (TEPP).
3. Pest control materials containing parathion.
4. Pest control materials containing ethyl-para-nitrophenyl thionebenzene phosphate (EPN).
5. Pest control materials containing octamethyl pyrophosphoramidate (OMPA).
6. Pest control materials containing 0-0-diethyl-0-2 (ethylmercapto)-ethyl thiophosphate (systox) (demeton).
7. 2,4-dichlorophenoxyacetic acid (2,4-D).
8. 2,4,5-trichlorophenoxyacetic acid (2,4,5-T).
9. 2-methyl-4-chlorophenoxyacetic acid (MCP).
10. 2,4-dichlorophenoxypropionic acid (2,4-DP).
11. 2,4,5-trichlorophenoxypropionic acid (Silvex).
12. Phosdrin (alpha-2-carbomethoxy-1-methylvinyl dimethyl).

WEIGHTS AND MEASURES REPORT — 1958

The following equipment was tested and	Sealed WITHOUT Correction	Sealed AFTER Correction	Out of Order	Condemned and Confiscated
Counter scales	62	5	3	0
Spring scales	29	0	3	0
Computing scales	101	14	4	0
Platform and Dormant scales	74	12	9	0
Hopper scales	14	2	2	0
Livestock scales	44	9	5	0
Vehicle scales	43	12	10	0
Person weighers	0	1	1	0
Meat Beams and steelyards	7	1	2	0
Prescription scales	21	0	0	2
Weights	376	2	0	1
Vehicle tank meters	5	1	1	0
Bulk plant meters	1	0	0	0
Retail pumps and meters	103	13	3	0
Grease meters	30	0	9	0
Liquid capacity measures	68	0	2	0
Lubricating oil bottles				
tested for capacity	36	0	0	0
Farm holding tanks	4	11	2	0
TOTALS	1,018	83	56	3

Packages or containers inspected: 934.
 Light — 37. Correct — 896. Heavy — 1.
 Signs inspected: 407.
 Correct — 401. Corrected — 6.
 Brake fluid checked at 16 locations, all legal.
 Establishments visited: 336.
 Certificates issued: 276.

PLANT QUARANTINE

INTERSTATE SHIPMENTS: (incoming)		
Number of non-bulk shipments passed		841
Number of plants passed		15,135
Number of non-bulk shipments rejected		2
Number of plants rejected		76
Number of railroad cars inspected, grain		59
Number of railroad cars passed		48
Number of railroad cars held in quarantine		11
EXPORT CERTIFICATION: (interstate and foreign, outgoing)		
Number of certificates issued		58
Number of containers		6,730
Number of pounds		796,268
INTRASTATE SHIPMENTS: (incoming)		
Number of bulk shipments passed		8
Number of bulk units (plants) passed		697,750
Number of non-bulk shipments passed		375
Number of plants passed		107,112
Number of non-bulk shipments rejected		12
Number of plants rejected		5,898

APIARY INSPECTION

	Apiaries	Colonies
Registered during 1958	189	8,129
Entering County	78	4,149
Leaving County	66	3,028
Moving within the County	77	2,811
Inspected during 1958	78	1,953
Infected with American Foulbrood	9	16
Burned for American Foulbrood control	9	16
Infected with European Foulbrood	1	1

THE AGRICULTURAL DEPARTMENT AT WORK

1958

PLANT QUARANTINE INSPECTION: To inspect shipments as reported when entering the county to prevent entry of weed seeds, plant diseases and insects or animals injurious to agriculture, and to determine compliance with state quarantine laws.

122,247 plants in 1,216 shipments were inspected
5,974 plants in 14 shipments were rejected.

STANDARDIZATION: To inspect fruits, nuts, vegetables, honey, eggs and poultry-meat at packing houses, farms, wholesale and retail markets; and to enforce requirements established for quality, pack and labeling.

372,411 packages and 378 tons of farm produce inspected.
1,589 dozen eggs candled and 115 dozen rejected.
2,912 packages of poultry-meat inspected and 1 lot rejected.

SEED INSPECTION AND SEED CERTIFICATION: Seed inspection work requires the inspection of establishments selling agricultural seeds, and to enforce seed labeling and purity requirements as set forth in the Agricultural Code. Seed certification work requires the inspection of all harvesting equipment, seed cleaning mills, and sampling and labeling of seed eligible for certification.

342 samples of seed were drawn for purity and germination tests.
115 harvesting equipment inspections were made.
103 seed cleaning mill inspections were made.
3,601,991 pounds of certified seed were sampled
2,000 tons of grain were inspected and given clean grain certificates to allow shipment out of the county. This is a new law passed by the Legislature in 1958.

APIARY INSPECTION: To inspect the apiaries in the county and to eradicate American Foulbrood diseased colonies as found, and to maintain a register of all bees in the county.

8,129 colonies of bees in 189 apiaries are registered in the county.
1,953 colonies of bees in 78 apiaries were inspected for cleanliness.
16 colonies of bees in 9 apiaries were found to be infected with American Foulbrood and were burned.

PEST CONTROL: To register all qualified Pest Control Operators, issue permits for application of dangerous materials for weed and insect control, and to enforce certain safety regulations.

50 permits were issued for use of injurious materials for insect control.
286 permits were issued for use of injurious herbicides for weed control.
65,422 acres of crops were sprayed by pest control operators.
45,000 acres of crops were sprayed by owners.

WEED CONTROL: To carry on control and eradication program against all primary noxious weed locations in the county, and to carry on limited control against certain secondary noxious weeds.

231 locations of Hoary Cress were treated with 4,500 gallons of mixed sprays.
41 locations of Russian Knapweed were treated with 1,050 gallons of spray material.
42 locations of White Horse Nettle were sprayed with 1,000 gallons of mixed sprays.
37 locations of Klamath Weed were treated with 600 gallons of mixed sprays.
6 acres of Johnson Grass (strips) were treated with 4,200 gallons of mixed spray material.
1,478 miles of county roadsides and 238 miles of State Highway were sprayed with 97,950 gallons of mixed sprays for puncture vine control.
2,400 gallons of mixed spray materials and 2,060 pounds of dry soil sterilants were applied to test plots for weed control.

RODENT CONTROL: To inspect properties for field rodents and other pest animals, and to prepare bait materials for distribution for control purposes.

3,795 pounds of strychnine-treated barley were distributed for squirrel control.

5,806 pounds of mixed rat bait were distributed.

268 pounds of strychnine-treated grain were distributed for mice control.
232 pounds of various other baits were distributed.

NURSERY INSPECTION: To make regular inspections of all nurseries and nursery stock to prevent spread of insects, diseases and other pests.

5,400 fruit trees were rejected for root lesion nematode infestation.

PLANT DISEASE: To carry on control or eradication programs for certain bacterial, fungus and virus diseases.

971 properties were inspected for Quick Decline of citrus, and the Meyer Lemon trees within the boundaries of the commercial district were removed. The Meyer Lemon trees are known host plants for this disease.

INSECT AND OTHER PEST DETECTION IN FIELDS AND ORCHARDS: To conduct regular inspections of field and orchard crops and grain storage location for pest detection, to place and service insect traps in checking for new insects. This survey work is done to determine the presence of pests injurious to agriculture and to be constantly on the alert for any new symptoms of disease or pests that might be found and be ready to abate the nuisance before it gains a foothold.

100 fruit-fly traps, 5 Japanese Beetle traps and 16 Cherry Fruit Fly traps were placed throughout the county, and were serviced each week during the summer months.

92 Khapra Beetle cloth traps were placed in grain storage warehouses.

3 mosquito traps were placed in the county to determine the kinds of mosquitoes here and to estimate the number.

457 specimens were sent to the State Department of Agriculture for identification.

2,496 man hours were spent in the above work.

In addition to the above listed inspections, surveys were made for grasshoppers, yellow scale, olive parlatoria scale, red scale, spotted alfalfa aphid, armyworms, codling moth, corn earworm, Hoja blanca of rice, painted lady butterfly and mites.

WEIGHTS AND MEASURES: To test and seal all retail scales in stores, large capacity scales, milk tanks, service station gasoline pumps and meters, tank trucks, oil measures, and all other weights and measuring devices in the county:

1,018 pieces of equipment were sealed without correction.

83 pieces of equipment were sealed after correction.

56 pieces of equipment were tested and found to be out of order.

3 pieces of equipment were condemned and confiscated.

Other work under weights and measures is itemized on page 14 of this report.

STATISTICS: Prepare a weekly report on weather and crop conditions for the State Crop Reporting Service; compile monthly and annual reports to the Board of Supervisors and the State Department of Agriculture; and to work such other reports as required. These reports are of particular interest on a statewide comparison basis in that they supply a knowledge of general agriculture and crop conditions at the local level.

COOPERATION: To cooperate with the United States Department of Agriculture, State Department of Agriculture, University of California Extension Service, farm groups, and other public and private agencies in the interests of agriculture.



1959

Ref. V. 177
Calif. Commission

ANNUAL REPORT

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



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GLENN COUNTY DEPARTMENT OF AGRICULTURE
WILLOWS, CALIFORNIA.

ANNUAL REPORT
1959

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

BOARD OF SUPERVISORS

C. E. Polzin, Chairman

George S. Lewis

W. L. Linville

George J. Otterson

Walter E. Soeth

GLENN COUNTY DEPARTMENT OF AGRICULTURE

Memorial Building, Willows, California

February 15, 1960

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

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

William E. Warne, Director
State Department of Agriculture
and
Glenn County Board of Supervisors

Gentlemen:

Section 65.5 of the California Agricultural Code requires that the Agricultural Commissioner compile a report covering conditions, acreage, production and value of the agricultural products of his county; and, Section 65 requires that the Commissioner keep a record of his official acts and make an annual report to the Director of Agriculture on the conditions of the agricultural interests in his county; and, further, Section 30 indicates that the Agricultural Department shall promote and protect the agricultural industry of the state.

For the past 23 years the department has published annually a general report on the agricultural crop conditions and development in the county.

The year 1959 moved forward with the highest income ever reported for Glenn County. The gross income of \$47,028,000 is an increase of \$2,180,000 over 1958. Two crops made most of the increased gain reported with almonds gaining \$1,223,000 over last year, and rice gaining just under a million dollars. Other crops fluctuated up and down to balance out about even.

Irrigation of new land under existing irrigation districts has moved along fairly slowly.

The livestock and dairy business has continued on a firm forward movement with some increase in the number of beef cattle sold, but with a price reduction averaging a 7% drop in prices received under the 1958 sales.

For a number of years fruit and nut tree plantings have been carried forward on a very active basis, with prunes, almonds and citrus leading the field in new plantings.

Crops and conditions generally for the year 1959, when combined with good weather, were favorable to all branches of farm operation.

Respectfully submitted,

P. V. Harrigan

P. V. HARRIGAN
Agricultural Commissioner

GLENN COUNTY'S POSITION IN STATE PRODUCTION

Below is listed Glenn County's position in comparison to the 53 counties of California:

Glenn County ranks 21st place in Agricultural Crop Value

Land area	35th
Ladino clover seed	1st
Sheep and Lambs	1st
Safflower	3rd
Rice	4th
Permanent Pasture (irrigated)	4th
Bees	7th
Olives	7th
Barley	8th
Navel Oranges	8th
Almonds	10th
Prunes	11th
Citrus (all)	11th
Pea Beans	12th
Alfalfa (hay and seed)	13th
Apricots	16th
Pears	16th
Dairy Cattle	16th
Figs	17th
Hogs	19th
Sugar Beets	19th
Wheat	20th
Peaches	23rd
Walnuts	24th
Commercial timber land	28th
Cattle, all	33rd

WILDLIFE

Geese	1st
Ducks	2nd
Pheasants	2nd
Muskrats	7th
Deer (Black Tail)	32nd

The following are commodities produced in the county that grossed over a million dollars each during 1959:

1. Rice
2. Fat Cattle
3. Cattle
4. Lambs
5. Manufacturing Milk
6. Irrigated Pasture
7. Milled Lumber
8. Alfalfa Hay
9. Barley
10. Market Milk
11. Almonds
12. Other Orchard Crops
13. Prunes
14. Ladino Clover
15. Milo

PETROLEUM INCOME

Natural gas — 2nd largest field in California

Estimates rate Glenn County 4th richest per capita in the United States.

Population of Glenn County 15,700

PLANT QUARANTINE

INTERSTATE SHIPMENTS: (incoming)	
Number of non-bulk shipments passed	482
Number of plants passed	21,872
Number of non-bulk shipments rejected	6
Number of plants rejected	18
Number of railroad cars inspected, grain	460
Number of railroad cars held in quarantine	460
EXPORT CERTIFICATION: (interstate and foreign, outgoing)	
Number of certificates issued	103
Number of containers	14,903
Number of pounds	1,587,965
INTRASTATE SHIPMENTS: (incoming)	
Number of non-bulk shipments passed	484
Number of plants passed	142,360
Number of non-bulk shipments rejected	39
Number of plants rejected	2,213

PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS

GLENN COUNTY, CALIFORNIA — 1959

FIELD CROPS		Acreage	Production	Values	Totals
Rice	34,662	1,857,927 Cwt.	\$7,617,500		
Barley	67,000	971,500 Cwt.	2,015,900		
Wheat	2,860	45,760 Cwt.	132,700		
Oats	950	12,350 Cwt.	33,300		
Milo	13,750	618,750 Cwt.	1,175,600		
Safflower	13,000	152,240 Cwt.	578,500		
Beans	1,012	10,774 Cwt.	131,900		
Field Corn	1,383	59,900 Cwt.	143,800		
Sugar Beets	1,220	21,377 Tons	253,700		\$12,082,900
FORAGE					
Silage Corn	1,500	22,500 Tons	157,500		
Alfalfa Hay	17,000	80,000 Tons	2,120,000		
Clover Hay	11,000	16,500 Tons	223,000		
Mixed Hay	11,000	24,000 Tons	468,000		2,968,500
PASTURE					
Irrigated	66,000		2,500,000		
Range	250,000		537,500		
Stubble	80,000		200,000		3,237,500
SEED CROPS					
Ladino Clover	8,100	2,337,500 lbs.	1,303,400		
Other Clover	160	63,238 lbs.	34,400		
Sudan	1,100	1,475,195 lbs.	88,500		
Alfalfa	487	146,100 lbs.	35,100		
Trefoil	129	11,383 lbs.	9,100		
Rice	623	3,024,000 lbs.	181,400		
Other Seed		506,192 lbs.	50,000		1,701,900
ORCHARD CROPS					
	Non-Bearing	Bearing			
Almonds	1,475	3,652	6,595,500 lbs.	1,481,800	
Apricots	1	161	267,300 lbs.	95,500	
Olives	141	868	1,933,216 lbs.	211,400	
Oranges	136	652	213,000 Ctns.	681,000	
Peaches .....	.37	88	42,237 lbs.	8,800	
Prunes	1,106	1,364	6,941,400 lbs.	1,298,700	
Pears	346	126	1,203,463 lbs.	198,900	
Walnuts	673	815	815,000 lbs.	194,200	
Walnuts, Black		353	16,292 sacks	17,200	
Almond Hulls & Fruit Pits			2,440 Tons	17,000	4,204,500
POULTRY					
Poultry, live		17,000 lbs.	3,200		
Eggs		224,800 doz.	89,900		
Turkeys, live		1,483,017 lbs.	355,900		
Turkey Hatching Eggs		512,490 each	133,200		582,200

PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS

(Continued)

LIVESTOCK	Resources	Production	Values	Totals
Dairy Cattle	21,000 hd.			
Butterfat (mkt. milk)		1,288,040 lbs.	\$1,555,800	
Butterfat (mfg. milk)		3,107,980 lbs.	2,623,900	
Beef Cattle	18,500 hd.			
Fat Cattle		23,000 hd.	5,390,300	
Cattle		25,000 hd.	3,906,000	
Calves		14,000 hd.	234,500	
Sheep	149,000 hd.	39,000 hd.	234,000	
Lambs		147,224 hd.	2,732,800	
Wool		1,403,645 lbs.	597,600	
Hogs	6,500 hd.	23,650 hd.	674,000	\$17,948,900
APICULTURE				
Bees, Registered	6,904 Col.			
Packaged Bees		59,600 lbs.	65,600	
Queens		25,100 ea.	27,600	
Honey		338,700 lbs.	27,100	
Beeswax		5,400 lbs.	1,900	
Pollination		—	15,200	137,400
GOVERNMENT PARTICIPATION				
Agriculture Conservation			84,000	
Wool Incentive			564,500	
Soil Bank		8,775 acres	119,900	
Sugar Beet, Processor & Import			51,300	
Cover Crops		6,284 acres	30,000	\$49,700
FOREST PRODUCTS				
Logs			1,065,000	
Milled Lumber			2,450,000	3,515,000
Land Lease Rental to Gas Industries			400,000	400,000
GRAND TOTAL AGRICULTURAL INCOME — 1959				\$47,628,500
Other Income — Natural Gas		21,308,900 M. C. F.		

AGRICULTURE INCOME TOTALS FOR 23 YEARS

Year	Amount	Year	Amount
1937	\$ 6,450,700	1950	30,637,000
1938	5,670,300	1951	39,005,000
1939	7,698,200	1952	42,473,700
1940	8,206,700	1953	33,267,000
1941	10,587,500	1954	31,364,000
1942	11,973,200	1955	34,570,000
1943	13,824,600	1956	37,970,000
1944	19,047,000	1957	43,000,000
1945	18,577,000	1958	45,448,000
1946	22,260,000	1959	47,628,500
1947	27,935,000		
1948	27,070,000	23-Year Total	\$589,483,400
1949	\$ 24,820,000		

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 and East Park Dam on Stony Creek.

Irrigation Districts in Operation:	Acres
Orland, U. S. Reclamation District — Stony Creek	20,000
Glenn-Colusa Irrigation District — Sacramento River	54,435
Jacinto Irrigation District — Sacramento River	12,560
Provident Irrigation District — Sacramento River	12,520
Princeton-Codora-Glenn — Sacramento River	7,000
Willow Creek Mutual Water 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	40,600
TOTAL ACREAGE UNDER IRRIGATION	164,115
Other Land Suitable For Irrigation:	
Orland-Artois Irrigation District	18,000
Kanawha Irrigation District	2,800
West of present irrigation systems	71,000
Butte City District, east of Sacramento River	25,000
Stony Creek Valley	4,436
West of Orland on Stony Creek, below proposed Black Butte Dam	15,000
Sloping land and foothill valleys	40,609
ADDITIONAL ACREAGE SUITABLE FOR IRRIGATION	176,845
 TOTAL IRRIGABLE LAND IN GLENN COUNTY	 340,960

Total Acreage in Glenn County	880,000
Acres in Farm Land	319,000
Land leveled for irrigation in 1959, 7,225 acres.	
Irrigation wells drilled in 1959, 35	
Acres in Range Land	287,000
Acres in National Forest	221,568
Acres of Commercial Timber Land	113,000
Board Feet of Standing Timber	3,000,000,000
Species of merchantable trees: Sugar Pine, Ponderosa (yellow) Pine, Douglas Fir, White Fir, Red Fir and Incense Cedar	

PRINCIPAL AGRICULTURAL INDUSTRIES

	No.		No.
Rice Dryers, Public & Private	22	Sugar Beet Processing Plants	1
Commercial Warehouses	12	Flying Service Companies (pest control, grain seeding, fertilizing, weed control, fire control)	6
Seed Milling & Processing Plants	5	Agricultural Chemical Fertilizer Companies	4
Feed Mills	6	Nurseries	4
Poultry Processing Plants	5	Sawmills	1
Livestock Auction Yards	3	Well Drilling Companies (water)	4
Commercial Feed Lots	12	Natural Gas Wells in Production	105
Slaughter Houses	4		
Milk Processing Plants	5		
Fruit & Nut Processing Plants	15		
Honey & Bee Packaging Plants	8		

Mendocino National Forest Headquarters, Willows
 Sacramento Valley Wildlife Refuge, Willows
 Glenn County Chamber of Commerce, Willows

RESOURCES

Lakes	Plaskett Meadows, Stony Gorge Dam and Packer Lake	
County Parks		5
Forest Camp Grounds, Improved Units		74
Visitations annually to National Forest areas		20,000
National Forest Acreage		221,568
Elevation in Forest — Highest Point		7,450

Kinds of Fish:

- Mountain streams — Rainbow Trout, Steelhead
- Rivers — Striped Bass, Black Bass, Salmon, Shad,
Catfish, Steelhead, Rainbow Trout, Sturgeon.
- Lakes — Black Bass, Catfish, Sunfish, Crappie, Bluegill.

Rivers and Creeks:	(Length in miles through Glenn County)
Sacramento River	40
Black Butte River, a tributary of Eel River	7
Stony Creek, main stream	68
Stony Creek, north fork	12
Briscoe Creek	12
Grindstone Creek	28
Cold Creek	6
Willow Creek	37
Butte Creek	12
Walker Creek	20

Estimated number of Wild Game	Estimated number of Predators	Reported killed by Licensed Hunters, Trappers and Others
Columbia Black Tail Deer	14,000	707
California Black Bear	150	—
Wild Ducks	1,172,400	—
Wild Geese	183,000	—
Ring-neck Pheasants	40,000	—
Calif. Valley & Mt. Quail	40,000	—
Mourning Doves	85,000	—
Band-tail Pigeons	15,000	—
Beaver	200	—
Otter	50	—
Mountain Lions (State Bounty— Female \$65; Male \$50)	—	15
Coyotes (County Bounty \$10)	—	3,000
Bobcats	—	2,000
Badgers	—	200
Raccoons	—	15,000
Skunks	—	10,000
Mink	—	500
Grey Fox	—	6,000
Red Fox	—	1,000
Muskrats, trapped	—	4,818

Glenn County has 18 State Licensed Trappers

APIARY INSPECTION

	Apiaries	Colonies
Registered during 1959	205	6,904
Entering County	76	3,424
Leaving County	57	2,605
Moving within the County	62	2,761
Inspected	67	1,994
Infected with American Foulbrood	6	47
Infected with European Foulbrood	1	1
Burned for American Foulbrood	6	47

PRODUCTION AND VALUE

Year	Rice Cwt.	Rice Value	Barley Cwt.	Barley Value	Ladino Seed Pounds	
1940	409,000	\$ 511,000	317,500	\$ 259,000	119,000	\$ 90,000
1945	690,000	2,243,000	675,000	1,671,000	350,000	520,000
1946	1,050,000	4,500,000	700,000	2,233,000	440,000	560,000
1947	1,168,000	7,010,000	680,000	2,470,000	375,000	650,000
1948	840,000	4,200,000	1,112,000	3,172,000	670,000	1,100,000
1949	1,219,000	4,023,000	792,000	2,112,000	800,000	1,144,000
1950	900,000	4,050,000	651,000	1,510,000	2,280,000	2,736,000
1951	1,060,000	5,088,000	500,000	1,550,000	3,200,000	3,765,000
1952	1,500,000	9,000,000	500,000	1,700,000	4,650,000	4,500,000
1953	1,428,000	7,500,000	650,000	1,850,000	2,865,000	1,060,000
1954	1,400,000	6,300,000	750,000	1,800,000	1,915,000	1,053,000
1955	1,500,000	6,750,000	600,000	1,500,000	3,002,000	1,622,000
1956	1,500,000	6,400,000	750,000	1,690,000	3,050,000	1,525,000
1957	1,707,200	7,938,400	1,742,000	3,222,700	1,167,000	304,000
1958	1,629,000	6,744,000	653,000	1,450,200	2,044,800	1,022,000
1959	1,857,927	7,617,500	971,500	2,015,900	2,337,500	1,303,400
TOTALS	19,858,127	\$89,874,900	12,044,000	\$30,205,800	29,265,300	\$78,800,000

Year	Prunes Pounds	Prunes Value	Olives Pounds	Olives Value	Oranges Boxes	Orang Value
1940	2,584,000	\$ 97,500	2,276,000	\$ 96,500	103,500	\$ 207,000
1945	6,000,000	600,000	2,690,000	464,000	85,000	340,000
1946	4,500,000	540,000	1,573,000	202,000	120,000	390,000
1947	7,000,000	500,000	4,479,000	444,000	78,000	187,000
1948	6,000,000	420,000	4,181,000	324,000	45,000	225,000
1949	5,500,000	385,000	1,763,000	190,000	86,000	301,000
1950	3,300,000	418,000	3,123,000	558,000	78,000	234,000
1951	5,544,000	612,000	4,000,000	812,000	105,000	368,000
1952	5,750,000	630,000	3,650,000	580,000	86,000	350,000
1953	4,550,000	550,000	1,250,000	112,000	125,000	625,000
1954	7,800,000	877,000	5,000,000	375,000	120,000	490,000
1955	4,600,000	759,000	1,350,000	160,000	100,000	400,000
1956	7,500,000	900,000	6,165,000	308,000	90,500	428,000
1957	8,250,000	1,080,000	1,245,000	216,000	176,000	572,000
1958	8,500,000	1,572,500	1,240,000	72,000	240,000	840,000
1959	6,941,400	1,298,700	1,933,216	211,400	213,000	681,000
TOTALS	94,319,400	\$11,239,700	45,918,216	\$5,124,900	1,851,000	\$6,638,000

Year	Hogs Head	Hogs Value	Lambs & Sheep Marketed Head	Wool Marketed Pounds	Sheep & Wool Value	Wool Pounds
1940	35,000	\$ 436,000	106,700	1,245,000	\$ 1,110,500	1,693,000
1945	17,500	612,500	141,000	1,160,000	2,262,000	2,382,000
1946	16,500	725,000	121,000	1,372,000	2,248,000	1,482,000
1947	15,000	900,000	127,500	1,000,000	2,490,000	785,000
1948	20,000	950,000	112,000	1,000,000	2,415,000	500,000
1949	25,000	1,125,000	102,000	840,000	2,388,000	550,000
1950	28,000	1,175,000	110,000	1,000,000	3,526,000	1,265,000
1951	47,500	2,000,000	130,000	1,375,000	4,263,000	1,250,000
1952	52,000	1,672,000	169,000	1,630,000	4,753,000	1,325,000
1953	30,000	994,000	163,000	1,200,000	3,397,000	850,000
1954	20,000	720,000	150,000	1,200,000	3,140,000	1,140,000
1955	22,000	700,000	160,000	1,260,000	2,937,000	1,200,000
1956	19,000	650,000	160,000	1,100,000	3,195,000	1,000,000
1957	18,000	612,000	170,000	1,278,000	3,748,000	1,409,400
1958	18,200	612,000	174,000	1,300,000	3,827,000	1,374,200
1959	23,650	674,000	186,224	1,403,645	3,564,400	1,483,017
TOTALS	407,350	\$14,557,500	2,282,424	19,363,645	\$49,263,900	19,688,617

OF PRINCIPAL COMMODITIES

no d te	Other Field Dried Crops Cwt.	Other Field & Seed Crops Value	Almonds Pounds	Almonds Value	Walnuts Pounds	Walnuts Value
)	118,000	\$ 137,000	2,016,000	\$ 302,000	1,203,000	\$ 63,000
)	97,000	309,000	1,900,000	741,000	542,000	90,000
)	118,000	300,000	2,000,000	744,000	492,000	97,000
)	127,000	427,000	2,000,000	680,000	587,000	91,000
)	129,000	554,000	1,250,000	286,000	550,000	85,000
)	193,000	501,000	3,000,000	650,000	1,237,000	159,000
)	91,000	407,000	3,500,000	1,085,000	929,000	141,000
)	66,000	361,000	3,500,000	1,050,000	1,166,000	212,000
)	112,000	578,000	3,750,000	1,025,000	1,085,000	199,000
)	223,000	895,000	3,300,000	780,000	920,000	155,000
)	268,000	1,205,000	2,225,000	587,000	875,000	123,000
)	502,000	2,842,000	1,150,000	460,000	800,000	214,000
)	1,995,000	1,871,000	3,900,000	1,560,000	1,032,000	228,000
)	2,095,000	1,230,000	2,125,000	1,170,000	594,200	143,000
)	1,237,000	2,707,000	668,000	258,500	1,384,000	207,600
)	1,380,000	2,848,000	6,595,500	1,481,800	815,000	194,200
)	51,000	\$17,172,000	42,879,500	\$12,860,300	14,211,200	\$2,401,800

es	Other Fruit Fresh & Dried Pounds	Other Fruit Fresh & Dried Value	Butterfat Pounds	Butterfat Value	Cattle & Calves Marketed Head	Cattle & Calves Value
00	3,083,500	\$ 95,000	1,879,000	\$ 751,000	9,000	\$ 676,000
00	4,649,000	328,000	3,343,500	2,841,000	24,500	1,636,500
00	9,763,000	839,000	2,973,000	2,902,000	23,500	1,695,000
00	6,072,000	390,000	3,400,000	3,260,000	29,000	3,240,000
00	2,382,000	119,000	3,690,000	4,001,000	31,500	4,770,000
00	6,330,000	270,000	3,621,000	3,033,000	43,500	4,134,500
00	4,177,000	295,000	3,711,000	3,711,000	41,300	7,000,500
00	7,562,000	440,000	3,807,000	3,970,000	41,200	8,294,500
00	9,112,000	510,000	3,875,000	4,601,000	41,500	5,540,000
00	5,700,000	376,000	4,802,000	5,010,000	43,500	3,550,000
00	7,450,000	310,000	5,136,000	4,402,000	45,000	3,925,000
00	7,837,000	320,000	5,485,000	4,831,000	45,000	5,200,000
00	6,840,000	445,000	5,014,000	4,516,000	46,000	6,446,000
00	5,389,100	444,000	5,510,000	4,787,000	46,500	10,046,000
00	6,130,000	484,000	5,025,000	4,632,000	60,000	9,530,800
00	1,513,000	303,200	4,396,020	4,179,700	62,000	\$79,439,800
00	93,980,600	\$5,968,200	65,667,520	\$61,427,700	636,000	

T s	Turkeys & Eggs Value	Pounds Packaged Bees	Honey Tons	Bees & Honey Value	Lumber & Logs Bd. Feet	Lumber & Logs Value
99,000	\$ 303,000	19,700	270	\$ 34,000		\$ 20,000
811,000	1,205,000	30,000	114	76,500	500,000	100,000
635,000	784,000	37,500	220	164,000	1,400,000	50,000
315,000	409,000	39,000	187	105,000	500,000	500,000
75,000	300,000	38,500	238	131,000	5,000,000	122,000
220,000	332,000	32,000	244	97,000	1,800,000	240,000
300,000	547,000	25,000	144	63,500	7,000,000	1,067,500
351,000	686,000	24,500	462	123,000	29,000,000	1,647,500
440,000	697,000	26,500	450	131,500	23,000,000	1,956,000
300,000	433,000	25,000	325	121,500	27,000,000	2,000,000
317,000	599,000	25,000	325	95,000	32,000,000	2,600,000
376,000	477,000	32,000	425	125,000	37,000,000	2,902,000
300,000	436,000	38,000	400	143,000	39,500,000	2,501,800
833,600	538,000	52,850	210	157,000	69,000,000	3,515,000
850,000	551,000	60,300	333	204,200	71,500,000	3,515,000
512,490	489,100	59,600	169	137,400	71,500,000	\$22,736,800
7,055,090	\$8,786,100	565,450	4,516	\$2,908,600	415,700,000	

ANNUAL RAINFALL AT WILLOWS, CALIFORNIA

81 YEARS — 1878-1959

Year	Inches	Year	Inches	Year	Inches
1878-1879.....	7.01	1905-1906.....	19.85	1932-1933.....	7.79
1879-1880.....	13.96	1906-1907.....	17.88	1933-1934.....	15.65
1880-1881.....	13.85	1907-1908.....	13.44	1934-1935.....	19.62
1881-1882.....	8.28	1908-1909.....	22.09	1935-1936.....	17.48
1882-1883.....	8.45	1909-1910.....	14.36	1936-1937.....	16.40
1883-1884.....	18.84	1910-1911.....	17.75	1937-1938.....	26.28
1884-1885.....	7.80	1911-1912.....	11.26	1938-1939.....	6.82
1885-1886.....	19.15	1912-1913.....	13.18	1939-1940.....	23.21
1886-1887.....	8.07	1913-1914.....	29.18	1940-1941.....	40.50
1887-1888.....	8.97	1914-1915.....	27.19	1941-1942.....	24.07
1888-1889.....	10.30	1915-1916.....	18.11	1942-1943.....	15.68
1889-1890.....	29.94	1916-1917.....	11.43	1943-1944.....	13.52
1890-1891.....	19.01	1917-1918.....	11.90	1944-1945.....	16.94
1891-1892.....	18.82	1918-1919.....	12.90	1945-1946.....	14.72
1892-1893.....	27.30	1919-1920.....	7.70	1946-1947.....	12.28
1893-1894.....	11.15	1920-1921.....	21.28	1947-1948.....	19.56
1894-1895.....	26.04	1921-1922.....	13.44	1948-1949.....	15.59
1895-1896.....	22.18	1922-1923.....	16.81	1949-1950.....	10.32
1896-1897.....	18.82	1923-1924.....	8.86	1950-1951.....	17.48
1897-1898.....	6.58	1924-1925.....	25.99	1951-1952.....	23.50
1898-1899.....	13.05	1925-1926.....	18.44	1952-1953.....	19.70
1899-1900.....	15.23	1926-1927.....	25.99	1953-1954.....	16.64
1900-1901.....	17.49	1927-1928.....	17.54	1954-1955.....	14.57
1901-1902.....	21.67	1928-1929.....	11.46	1955-1956.....	23.24
1902-1903.....	17.10	1929-1930.....	16.37	1956-1957.....	19.11
1903-1904.....	20.28	1930-1931.....	9.85	1957-1958.....	32.93
1904-1905.....	24.55	1931-1932.....	15.01	1958-1959.....	11.96

United States Department of Agriculture Stabilization And Conservation Participation — 1959

SUPPORT PRICES ALLOWED FOR COMMODITIES (when put under loan or purchase agreement)

Barley	\$ 1.79 cwt.
Beans, Medium White	5.68 cwt.
Small White	6.06 cwt.
Red Kidney	7.24 cwt.
Pink	5.86 cwt.
Small Red	5.96 cwt.
Large Lima	8.81 cwt.
Baby Lima	4.21 cwt.
Yellow Corn	2.29 cwt.
Grain Sorghum	1.87 cwt.
Oats	1.81 cwt.
Rice (20c premium for No. 1)	4.07 cwt.
Wheat	3.18 cwt.
Honey .....	.088 lb.

LOAN REDUCTION FOR NOXIOUS WEED SEEDS

Barley, Oats, Rye & Wheat .....	.10 bu.
Flaxseed .....	.15 bu.
Grain Sorghums15 bu.

COMMODITIES UNDER LOAN — 1959

Honey	17,710 lbs.	\$1,116.00	\$ 1,116.00
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DIRECT PARTICIPATION

Wool Incentive	\$564,500.00	
Agriculture Conservation	84,000.00	
Soil Bank	119,900.00	
Cover Crops	30,000.00	
Sugar Beet Processor & Import	51,300.00	\$ 849,700.00

INDIRECT PURCHASE BENEFIT TO DAIRY INDUSTRY* 500,000.00

TOTAL UNITED STATES PARTICIPATION (Agriculture) \$1,350,816.00

*Purchases by the United States Department of Agriculture of dairy products — milk, butter and cheese — in the amount of over \$19,000,000 in California during 1959 reflects an indirect benefit to Glenn County dairymen of approximately \$500,000 or equivalent to \$20 per cow. The school lunch program is one of the agencies that benefit by this program.

ASSESSED VALUATION \$54,027,430.00

BUDGET TO OPERATE GLENN COUNTY \$ 6,067,961.00

SOURCE OF INCOME:

Current County Taxes	(38.9%)	\$ 2,060,330.00
Other Revenue	(61.1%)	\$ 4,007,631.00

WEIGHTS AND MEASURES REPORT — 1959

The following equipment was tested and	Sealed WITHOUT Correction	Sealed AFTER Correction	Out of Order	Condemned and Confiscated
Counter scales	64	6	4	0
Spring scales	26	0	5	1
Computing scales	61	15	5	0
Platform and dormant scales	82	15	13	0
Hopper scales	11	3	3	0
Livestock scales	43	11	3	0
Vehicle scales	28	15	9	0
Meat Beams and steelyards	5	0	0	0
Abattoir scales (Monorail scale)	1	0	0	0
Prescription scales	6	0	0	0
Weights	323	7	0	5
Vehicle tank compartments gauged	2	0	0	0
Vehicle tank meters	12	7	1	0
Bulk plant meters	18	11	4	0
Retail pumps and meters	148	8	13	0
Grease meters	54	0	9	0
Liquid capacity measures	103	0	0	0
Lubricating oil bottles tested for capacity (all)	66	0	0	0
Farm holding tanks	38	7	11	0
TOTALS	1,096	105	80	6

Packages or containers inspected: 340.

All correct.

Signs inspected: 694.

Signs correct: 574. Signs corrected: 120.

Establishments visited: 357.

Certificates issued: 311.

CHEMICALS AND POISONS USED BY THIS DEPARTMENT

RODENT AND PEST

ANIMAL CONTROL

4,672 pounds strychnine-treated barley
117 pounds strychnine-treated milo
22 pounds strychnine-treated wheat
1,355 pounds strychnine-treated rice
155 pounds "1080" treated baitings
2,235 pounds Pival-treated bait
2,165 pounds Warfarin-treated bait

WEED CONTROL

60 pounds Amino Triazole
150 pounds Chlorea
510 pounds Dalapon
815 pounds Dowpon
675 gallons diesel oil
1 gallon multifilm
500 pounds Polybor chlorate
2 pints Sinox
107 gallons 2,4-D
2 gallons 2,4-5-T
8 gallons Trysben
100 pounds Ureabor
42 gallons X-77 spreader
950 gallons weed-oil

INSECT AND FUNGUS CONTROL

36 pounds BHC
50 quarts Chlordane, 72%
135 pounds Chlordane dust, 5%
20 pounds copper spray
5 pounds Cyanogas
30 pounds DDT, 50%
235 quarts DDT liquid, 25%
5 quarts Diazinon
61 quarts Dieldrin, 1.7%
120 pounds Dieldrin dust, 1.5%
20 gallons Ethion
40 pounds Lead Arsenate
36 pounds Malathion
6 gallons Malathion
3 pounds Methyl Bromide
12 pounds Parathion
1 gallon Parathion
8 pounds Phosie
30 gallons summer oil
2 pounds Tedion
4 gallons X-77 spreader
1,264 pounds Dieldrin-treated bran
13 pounds dry spreader

The Following Table Was Compiled From Commercial Pest Control Operators' Reports And From Permits Issued To Private Farm And Orchard Operators.

Crop	Acreage Treated By Aircraft		Acreage Treated By Ground Rig		Total Acreage Treated
	Herbicides	Insecticides	Herbicides	Insecticides	
FIELD CROPS:					
Rice	29,354	12,333			41,687
Yellow Corn	215	243	162		620
Barley	6,300		3,484		9,784
Milo		512	537		1,049
Alfaifa	365	2,034		175	2,574
Ladino	4,589	13,089	4,979		22,657
Beans & Peas		1,543		40	1,583
Other Field Crops ..	402	395			797
FRUITS & NUTS:					
Almonds	107	495	70		672
Walnuts		717		53	770
Peaches, Prunes & Apricots		178		40	218
Oranges		54	15	38	107
Pears	577			330	957
MISCELLANEOUS:					
Weeds & Summer Fallow	1,179		881		2,060
Pasture & Hay	126		99		225
Tomatoes, Potatoes, etc.		130		3	133
Totals	43,214	31,723	10,227	729	85,893

2,413,303 lbs. of seed grain were treated by Commercial Pest Control Operators.

267 Permits issued to use herbicides in weed control.

69 Permits issued to use injurious materials in insect control.

New legislation requires that a permit must be obtained from the Agricultural Commissioner's office before certain pesticides can be purchased. (Section 1080 and 1080.1 Agricultural Code.) The following is a list of materials for which a permit necessary:

1. Pest control materials containing calcium arsenate, standard lead arsenate or copper acetoarsenite (Paris Green), in dust form.
2. Pest control materials containing tetraethyl pyrophosphate (TEPP).
3. Pest control materials containing parathion.
4. Pest control materials containing ethyl-para-nitrophenyl thionebenzene phosphate (EPN).
5. Pest control materials containing octamethyl pyrophosphoramidate (OMPA).
6. Pest control materials containing 0-0-diethyl-0-2 (ethylmercapto)-ethyl thio-phosphate (systox) (demeton).
7. 2,4-dichlorophenoxyacetic acid (2,4-D).
8. 2,4,5-trichlorophenoxyacetic acid (2,4,5-T).
9. 2-methyl-4-chlorophenoxyacetic acid (MCP).
10. 2,4-dichlorophenoxypropionic acid (2,4-DP).
11. 2,4,5-trichlorophenoxypropionic acid (Silvex).
12. Phosdrin (alpha-2-carbomethoxy-1-methylvinyl dimethyl).

GLENN COUNTY'S CATTLE HISTORY

By THELMA WHITE
Editor, "Wagon Wheels"

Miners, passing to and fro along the "grand thoroughfare" from Sacramento to the mines in Shasta, dubbed Glenn County, then part of old Colusa, "Cow County" for the hundreds of half wild cattle that roamed the plains between Stony and Cache Creeks. The name stuck and rightly so.

Cattle were remarkably well adapted to the region they had appropriated and multiplied rapidly, living well in the mild climate and on the lush native grasses of the valley and foothills.

The sleek, well rounded, soft eyed, bovine of today would scarcely recognize her lean, rawboned, long-horned Spanish cousin, first introduced to the area by John S. Williams on the Thomas O. Larkin children's grant in 1847.

Granville P. Swift purchased the Larkin cattle and brand in 1850 and took up stock raising at "The Willows" and also at the "Dobe" north of Orland where the stock was rodeoed in the fall. Otherwise they roamed the plains at will in company of the deer, antelope and grizzly bear.

Other large herds were brought into the county between 1852 and 1855. By 1858 all the land along the river was taken, so ranches began to be located in the foothill area along water courses. As yet the ranchers owned no land, only the cattle and the camp. Claims were recognized by neighbors, the land had no value, the grass was free and the water belonged to the first comer. All that was necessary was a little "know how" and the courage to protect one's rights and the herd. So when in 1856 the government offered most of the public land in the county at public sale, for \$1.25 per acre, many a rancher, who was compelled to purchase the land his stock grazed upon, complained bitterly. In after years a number of these same ranchers became rich on the rise in the very land whose purchase they had protested.

Cattle had been first on the scene, and since they were of primary importance, no one thought of anything else than that grain land should be fenced. The river farmers made fences of rails split from native oak; a few tried herding or a ditch fence. In the foothills farmers resorted to brush fences, which zigzagged along the water courses. Generally the ranchers looked upon newly arrived small farmers as trespassers and took particular delight in their discomfort. It was not until 1872 that the "no fence law" placed the restraint of livestock upon the owner.

In drouth years stockmen suffered serious losses. After the set-back of 1864 when hundreds of head of cattle died from lack of feed, stockmen realized the possibilities of grain growing in connection with stock raising.

Meanwhile the strains had been improved by crossing the range cattle with Durham and other blood lines. A number of ranchers returned to Missouri and Kentucky and drove back across the plains enough fine stock to form the nucleus of their later herds.

W. N. Herd, county assessor of 1875, listed the total number of cattle in the county, which then included Colusa County, at 11,050. Of these, 50 were oxen.

In 1891, at the time Glenn County was divided from Colusa, the number of cattle had increased to something over fourteen thousand.

Glenn County lists 18,500 head of beef cattle kept on ranches in 1959, and 21,000 head of dairy cattle are held on 685 dairy farms. These figures fluctuate from year to year, placing Glenn County from 12th to 16th among the counties of California in number of dairy cattle and 33rd place for all cattle.

Today stock raising is as different as jet travel is from that of the covered wagon.

Irrigation prompted the first great revolutionary factor with the advent of permanent pastures—first alfalfa, then ladino clover and pasture grasses. Alfalfa, however, because of its tendency to bloat, proved a far better feed in hay form than in green pasture. Permanent pastures assure the grower a year round source of feed with a cow unit of about one and one-half cows per acre. Or the irrigated pasture can be used in conjunction with hill ranges, stubble fields or supplement to

(continued on bottom of page 16)

THE AGRICULTURAL DEPARTMENT AT WORK 1959

PLANT QUARANTINE INSPECTION: A quarantine is a regulation for controlling the movement of plants and plant products; its purpose is to prevent the transmission of insect pests and plant diseases harmful to plants and animals.

164,132 plants in 976 shipments were inspected and passed.

2,231 plants in 45 shipments were rejected.

460 railroad cars of milo brought into the county for storage were found to be infested with primary noxious weed seeds and were quarantined.

STANDARDIZATION: A wide variety of produce including fruits, nuts, vegetables, honey, eggs, poultry and meat are inspected at farms, wholesale and retail markets and packing plants to insure established quality, pack and labeling.

642,554 packages and 775 tons of farm produce were inspected.

703 dozen eggs were candled of which 49 dozen were rejected.

344 packages of poultry-meat were inspected with 2 packages rejected.

SEED INSPECTION AND SEED CERTIFICATION: In order to maintain standards of seed labeling and purity as set forth in the Agricultural Code, it is necessary to inspect establishments selling agricultural seeds. Seed treated with any toxic material requires informative labeling by reason of Code amendment this year. Cooperation in the state seed certification program requires the inspection of all harvesting equipment, seed cleaning mills and sampling and labeling of seed eligible for certification. The following totals cover the seed certification work:

353 samples of seed, representing 3,903,655 pounds, were drawn for purity and germination tests.

130 harvesting equipment inspections were made.

123 seed cleaning mill inspections were made.

APIARY INSPECTION: The apiaries of the county are inspected each year to reduce and prevent the spread of bee diseases, particularly American Foulbrood. A register is maintained of the 6,904 colonies of bees registered.

PEST CONTROL: In order to eradicate infestations of major weeds and insects and to enforce certain safety regulations all qualified pest control operators and owner-operators are issued permits for the application of dangerous materials.

69 permits were issued for use of injurious materials for insect control.

267 permits were issued for use of injurious herbicides for weed control.

100,888 acres of crops were treated with pesticides.

WEED CONTROL: Weed control is aimed at eradication of primary noxious weeds as defined by the Agricultural Code and the control of certain secondary noxious weeds.

225 locations of Hoary Cress, 59 locations of Russian Knapweed, and 56 locations of White Horse Nettle were treated; many were treated more than once.

432 contacts were made in the Johnson Grass control area.

The County Road Department, the Division of Highways and the Agricultural Department spent \$14,072 on weed control in 1959.

RODENT CONTROL: The department inspects properties for field rodents and other pest animals, and prepares bait materials for free distribution for control purposes. During the year 9,608 pounds were issued for rodent control purposes.

NURSERY INSPECTION: Regular inspections are made of all nurseries and nursery stock to prevent the spread of insects, diseases and other pests.

PLANT DISEASE: The department inspects properties to determine the need for control or eradication programs for certain bacterial fungus or virus diseases.

251 properties were inspected for root knot nematode.

336 properties were inspected for Quick Decline of citrus. The Meyer Lemon trees are known host plants for this disease.

57 properties were inspected for Hoja Blanca, a disease of rice.

21 properties were checked for possible "Witchweed" infestation.

INSECT AND OTHER PEST DETECTION IN FIELDS: Several organized inspection and trapping programs are conducted by the department, some in cooperation with State and Federal Departments of Agriculture.

30 multi fruit-fly traps, 5 Japanese Beetle traps and 12 Cherry fruit fly traps were placed throughout the county and were serviced each week during the summer months.

3 mosquito traps were placed in the county to determine the kinds and to estimate the number.

2,211 properties were inspected for the following: Red Scale, Khapra Beetle, grasshoppers, yellow scale, olive parlatoria scale, spotted alfalfa aphid, citrus white fly, armyworms, codling moth, European corn earworm, rice water weevil, pecan pest and a general insect survey.

590 specimens were sent to the State Department of Agriculture for identification.

WEIGHTS AND MEASURES: All retail scales in stores, large capacity scales, milk tanks, service station gasoline pumps and meters, tank truck, and oil measures are tested and sealed, as are all other weights and measuring devices in the county.

1,287 pieces of equipment were checked, 80 were found to be out of order and 6 were condemned and confiscated.

Glenn County now has 93 milk farm holding tanks ranging from 400 to 2500 gallons capacity.

STATISTICS: The department prepares a weekly report on weather and crop conditions for the State Crop Reporting Service; compiles monthly and annual reports to the Board of Supervisors and the State Department of Agriculture; and to work such other reports as required. These reports are of particular interest on a statewide comparison basis in that they supply a knowledge of general agriculture and crop conditions at the local level.

COOPERATION: The department cooperates with the United States Department of Agriculture, State Department of Agriculture, University of California Extension Service, farm groups, and other public and private agencies in the interests of agriculture.


GLENN COUNTY'S CATTLE HISTORY

(continued from page 14)

ensure year round feed, the great bugbear of the early plains rancher. Until the last few years a feed was considered good if it had sufficient fat, protein, bulk and palatability. At present there are over 100,000 acres of alfalfa, ladino and other permanent pastures under cultivation in Glenn County.

A second revolutionary practice has been brought about with supplementary feeding. At first cotton seed cake and sugar beet pulp were fed as a supplement to range stock. Later protein and mineral concentrates were added to the diet of dairy and beef cattle. The introduction of pelleting machines enabled the composition of a complete feed from hay and other high protein mill by-products such as grain screening and legume threshings.

Here in Glenn County with a wealth of water available and all the basic ingredients to be had for the growing, cattle raising may well continue to be an expanding industry.



1960

Rep. V.F. Calif. Counties

ANNUAL REPORT

P. V. HARRIGAN

Agricultural Commissioner

and

Sealer of Weights and Measures



GLENN COUNTY DEPARTMENT OF AGRICULTURE
WILLOWS, CALIFORNIA

ANNUAL REPORT
1960

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

BOARD OF SUPERVISORS

C. E. Polzin, Chairman

George S. Lewis

W. L. Linville

George J. Otterson

Walter E. Soeth

GLENN COUNTY DEPARTMENT OF AGRICULTURE

Memorial Building, Willows, California

March 10, 1961

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

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

Charles Paul, Director
State Department of Agriculture
and
Glenn County Board of Supervisors

Gentlemen:

Section 65.5 of the California Agricultural Code requires that the Agricultural Commissioner compile a report covering the condition, acreage, production and value of the agricultural products of his county; and, Section 65 requires that the Commissioner keep a record of his official acts and make an annual report to the Director of Agriculture on the conditions of the agricultural interests in his county; and, further, Section 30 indicates that the Agricultural Department shall promote and protect the agricultural industry of the state.

For the past 24 years this department has published annually a general report on the agricultural crop conditions and development in the county.

The 1960 farm income was tabulated at \$49,000,500 which is a little over a million dollar gain over the previous year, so apparently Glenn County farmers got their share of the farm dollar in 1960. There were a few ups and downs and some fluctuation in production of a few crops. It has been some time since a farmer had to sell his crop on a depressed market, but prices received generally were quite stable and total returns showed a slight improvement when compared to other years.

Three crops showed a decline in production. The navel orange crop was down over a half million dollars due to the excessive "June drop"; the almond crop was also off over a half million dollars, and prunes were down a third of a million dollars. Rice, again registered the highest production on record, and the various seed crops showed substantial gains.

The sheep industry showed a slight drop, but cattle showed over a half million dollars increase. The dairy industry showed an increase of nearly \$400,000 over last year, this was due to the increase in the number of dairy cattle and a slight increase in the market price of dairy products.

Irrigation of new land under pump irrigation has moved along fairly active with 5,000 acres levelled last year, and 54 electric pumps were installed.

A widespread fruit and nut tree planting program has been carried on for several years, but at an accelerated pace the past three years. Almond, prune and citrus tree plantings were far in the lead over other tree plantings.

Crops and conditions generally, when combined with good weather, were favorable to all branches of farm operations in 1960.

Respectfully submitted,

P. V. Harrigan

P. V. HARRIGAN
Agricultural Commissioner

1960 PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS
FIELD CROPS: ACREAGE, PRODUCTION AND VALUE, 1959-1960

Crop	Year	Harvested acreage	Production		Unit	Value	
			Per acre	Total		Per unit	Total
Barley	1960	60,000	0.850	51,000	Ton	\$ 40.00	\$ 2,040,000
	1959	67,000	0.725	48,575	"	41.50	2,015,900
Beans and Field Peas	1960	1,250	0.700	875	"	170.00	148,800
	1959	1,012	0.700	705	"	187.00	131,900
Corn, Field	1960	1,300	2.13	2,763	"	48.00	132,600
	1959	1,383	2.16	2,995	"	48.00	143,800
Hay Alfalfa	1960	17,100	4.8	82,080	"	24.00	1,969,900
	1959	17,000	4.7	80,000	"	26.50	2,120,000
Clover	1960	11,000	1.25	13,800	"	14.00	186,300
	1959	16,500	1.00	16,500	"	13.50	223,000
Mixed	1960	10,000	2.25	22,500	"	19.00	427,500
	1959	11,000	2.18	24,000	"	19.50	468,000
Milo (Sorghum)	1960	12,000	2.00	24,000	"	36.40	873,600
	1959	13,750	2.25	30,938	"	38.00	1,175,600
Oats	1960	1,000	0.85	850	"	46.50	39,900
	1959	950	0.64	618	"	37.50	33,300
Pasture Irrigated	1960	73,000			Acre	38.00	2,774,000
	1959	66,000			"	38.00	2,500,000
Range	1960	250,000			"	2.15	537,500
	1959	250,000			"	2.15	537,500
Stubble	1960	100,000			"	2.50	250,000
	1959	80,000			"	2.50	200,000
Rice	1960	36,152	2.75	93,745	Ton	85.00	7,989,600
	1959	34,662	2.68	92,896	"	82.00	7,617,500
Safflower	1960	21,500	0.437	9,405	"	80.00	752,400
	1959	13,000	0.586	7,612	"	76.00	578,500
Sugar Beets	1960	2,190	15.27	33,450	"	11.40	381,600
	1959	1,220	17.52	21,377	"	11.87	253,700
Wheat	1960	3,029	0.95	2,878	"	59.00	169,800
	1959	2,860	0.80	2,288	"	58.00	132,700
Miscellaneous Crops	1960	3,000			Acre	57.50	172,500
	1959	1,500			"	105.00	157,500
TOTAL	1960						\$18,846,000
	1959						\$18,288,900

LIVESTOCK AND POULTRY: PRODUCTION AND VALUE, 1959-1960

Item	Year	Production		Unit	Value	
		No. of Head	Total Liveweight		Per Unit	Total
Cattle and calves	1960	67,200	482,000	Cwt.	\$21.17	\$10,200,000
	1959	62,000	414,400	"	23.00	9,530,860
Sheep and lambs	1960	181,000	195,900	"	15.10	2,957,700
	1959	186,200	201,800	"	14.70	2,966,800
Hogs and pigs	1960	26,400	46,600	"	17.00	852,100
	1959	23,650	42,125	"	16.00	674,000
Chickens	1960		42,500	Lbs.	.16	6,800
	1959		17,000	"	.18	3,200
Turkeys	1960		1,061,700	"	.26	276,000
	1959		1,483,000	"	.24	355,900
TOTAL	1960					\$14,292,600
	1959					\$13,530,700

**LIVESTOCK AND POULTRY PRODUCTS:
PRODUCTION AND VALUE, 1959-1960**

Item	Year	Production	Unit	Value	
				Per Unit	Total
Milk Market	1960	367,922	Cwt.	4.83	\$ 1,778,000
	1959	337,853	"	4.86	1,642,000*
Manufacturing	1960	956,872	"	3.29	3,152,000
	1959	867,603	"	3.35	2,897,000*
Wool	1960	1,207,400	Lb.	.44	531,300
	1959	1,403,645	"	.43	597,600
Eggs, chicken (market)	1960	487,030	Doz.	.35	170,400
	1959	224,800	"	.40	89,900
Eggs, turkey (hatching)	1960	908,384	Ea.	.25	227,100
	1959	512,490	"	.25	133,200
TOTAL	1960				\$ 5,858,800
	1959				\$ 5,359,700

*Adjusted figure.

JANUARY 1, INVENTORIES OF LIVESTOCK AND POULTRY, 1960-1961
(in number of head)

Item	January 1, 1960	January 1, 1961
Cattle and calves		
All	18,500	19,000
Milk cows, 2 years and over	21,000	26,500
Cattle and calves on feed	3,000	6,000
Sheep and lambs		
All	190,000	202,000
Stock sheep	149,000	154,000
Sheep and lambs on feed	41,000	48,000
Hogs and pigs	6,500	7,500
Hens and pullets of laying age	44,100	43,000
Turkey breeder hens	11,500	11,000

SEED CROPS: ACREAGE, PRODUCTION AND VALUE, 1959-1960

Crop	Year	Harvested acres	Production		Unit	Value	
			Per ac.	Total		Per unit	Total
Alfalfa	1960	800	247	198,060	Lb.	\$.32	\$ 63,400
	1959	487	300	146,100	"	.24	35,100
Barley	1960	105	30	3,150	Cwt.	3.25	10,200
Ladino	1960	10,829	241	2,612,200	Lb.	.67	1,750,200
Clover	1959	8,100	289	2,337,500	"	.56	1,303,400
Other Clovers	1960	250		165,000	"	.42	69,300
	1959	160		63,238	"	.54	34,400
Rice	1960	755	55	41,500	Cwt.	5.50	228,300
	1959	623	52	32,400	"	5.60	181,400
Sudan	1960	425	17	7,225	"	6.00	43,400
	1959	1,100	13.4	14,750	"	6.00	88,500
Trefoil	1960	209	79	16,550	Lbs.	.85	14,100
	1959	129	88	11,383	"	.80	9,100
Other Seed	1960			925,450	"		51,100
	1959			506,192	"		50,000
TOTAL	1960						\$2,230,000
	1959						\$1,701,900

FRUIT & NUT CROPS: ACREAGE, PRODUCTION AND VALUE, 1959-1960

Crop	Year	Bearing Acreage	Production		Unit	Value	
			Per ac.	Total		Per Unit	Total
Almonds	1960	3,303	.59	1,942	Tons	\$488.00	\$ 947,900
	1959	3,652	.90	3,298	"	449.30	1,481,800
Apricots, dried	1960	141		112.5	"	800.00	90,000
	1959	161		134	"	715.00	95,500
Olives	1960	992	2.51	2,579	"	145.00	373,900
	1959	868	1.10	967	"	218.60	211,400
Oranges	1960	605	.88	53,400	Ctn.	2.75	146,300
	1959	652	3.25	213,000	"	3.20	681,000
Peaches	1960	60	4.00	237	Tons	45.00	10,600
	1959	55	4.00	211	"	41.70	8,800
Prunes	1960	1,235	2.04	2,523	"	389.00	983,700
	1959	1,364	2.54	3,471	"	374.00	1,298,700
Pears	1960	180	8.44	1,520	"	156.00	237,200
	1959	126	12.00	1,600*	"	125.00	198,900
Walnuts	1960	937	.57	534	"	529.00	283,000
	1959	815	.50	408	"	475.00	194,200
Walnuts, Black	1960	350		895	"	20.67	18,500
	1959	353		815	"	21.10	17,200
Almond Hulls, Fruit Pits, etc. (by-products)	1960			1,300	"	7.00	9,100
	1959			2,440	"		17,000
Miscellaneous Fruits	1960						
	1959						
TOTAL	1960						\$ 3,100,200
	1959						\$ 4,204,500

*Adjusted figure

VEGETABLE CROPS: ACREAGE, PRODUCTION AND VALUE, 1959-1960

Crop	Year	Harvested acreage	Production		Unit	Value	
			Per ac.	Total		Per unit	Total
Tomatoes	1960	175	8.2	1,435	Ton	\$ 22.50	\$ 32,300
	1959						
TOTAL	1960						\$ 32,300
	1959						

APIARY PRODUCTS: PRODUCTION AND VALUE, 1959-1960

Item	Year	Production Total	Unit	Value	
				Per Unit	Total
Honey	1960	228,200	lb.	.10	\$ 22,800
	1959	338,700	lb.	.08	27,100
Beeswax	1960	6,300	lb.	.43	2,700
	1959	5,400	lb.	.35	1,900
Package Bees	1960	56,900	lb.	1.50	85,400
	1959	59,600	lb.	1.10	65,600
Queen Bees	1960	30,200	ea.	1.25	37,800
	1959	25,100	ea.	1.10	27,600
Pollination	1960				25,100
	1959				15,200
TOTAL	1960				\$173,800
	1959				\$137,400

**PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS
GLENN COUNTY, CALIFORNIA
RECAPITULATION**

	1960	1959
Field Crops	\$18,846,000	\$18,288,900
Livestock and Poultry	14,292,600	13,530,700
Dairy Products, Wool & Eggs	5,858,800	5,359,700
Fruit and Nut Crops	3,100,200	4,204,500
Seed Crops from Certified sowed seed	2,230,000	1,701,900
Vegetable Crops	32,300	
Apiary Industry Crop	173,800	137,400
	<u>44,533,700</u>	<u>43,223,100</u>
GOVERNMENT PARTICIPATION:		
Agriculture Conservation	70,000	84,000
Wool Incentive	396,300	564,500
Soil Bank	119,900	119,900
Cover Crop		30,000
Sugar Beet, Processor & Import	70,600	51,300
	<u>656,800</u>	<u>849,700</u>
FOREST PRODUCTS:		
Logs & Milled Lumber	3,515,000	3,515,000
Land Lease Rental to Gas Industries	295,000	400,000
GRAND TOTAL AGRICULTURAL INCOME	<u>\$49,000,500</u>	<u>\$47,987,800</u>
OTHER INCOME — Natural Gas		
1960	30,413,200	M. C. F.
1959	21,308,900	M. C. F.

PRODUCTION AND VALUE

Year	Rice Cwt.	Rice Value	Barley Cwt.	Barley Value	Ladino Seed Pounds	
1940	409,000	\$ 511,000	317,500	\$ 259,000	119,000	\$
1945	690,000	2,243,000	675,000	1,671,000	350,000	
1946	1,050,000	4,500,000	700,000	2,233,000	440,000	
1947	1,168,000	7,010,000	680,000	2,470,000	375,000	
1948	840,000	4,200,000	1,112,000	3,172,000	670,000	1,100,000
1949	1,219,000	4,023,000	792,000	2,112,000	800,000	1,100,000
1950	900,000	4,050,000	651,000	1,510,000	2,280,000	2,700,000
1951	1,060,000	5,088,000	500,000	1,550,000	3,200,000	3,700,000
1952	1,500,000	9,000,000	500,000	1,700,000	4,650,000	4,500,000
1953	1,428,000	7,500,000	650,000	1,850,000	2,865,000	1,000,000
1954	1,400,000	6,300,000	750,000	1,800,000	1,915,000	1,050,000
1955	1,500,000	6,750,000	600,000	1,500,000	3,002,000	1,622,000
1956	1,500,000	6,400,000	750,000	1,690,000	3,050,000	1,525,000
1957	1,707,200	7,938,400	1,742,000	3,222,700	1,167,000	304,000
1958	1,629,000	6,744,000	653,000	1,470,200	2,044,800	1,022,400
1959	1,857,900	7,617,500	971,500	2,015,900	2,337,500	1,303,400
1960	1,874,900	7,989,600	1,020,000	2,040,000	2,612,200	1,502,000

Year	Prunes Pounds	Prunes Value	Olives Pounds	Olives Value	Oranges Boxes	Orang Value
1940	2,584,000	\$ 97,500	2,276,000	\$ 96,500	103,500	\$ 207,0
1945	6,000,000	600,000	2,690,000	464,000	85,000	340,0
1946	4,500,000	540,000	1,573,000	202,000	120,000	390,0
1947	7,000,000	500,000	4,479,000	444,000	73,000	187,0
1948	6,000,000	420,000	4,181,000	324,000	45,000	225,0
1949	5,500,000	385,000	1,763,000	190,000	86,000	301,0
1950	3,300,000	418,000	3,123,000	558,000	78,000	234,0
1951	5,544,000	612,000	4,000,000	812,000	105,000	368,0
1952	5,750,000	630,000	3,650,000	580,000	86,000	350,0
1953	4,550,000	550,000	1,250,000	112,000	125,000	625,0
1954	7,800,000	877,000	5,000,000	375,000	120,000	490,0
1955	4,600,000	759,000	1,350,000	160,000	100,000	400,0
1956	7,500,000	900,000	6,165,000	308,000	90,500	428,0
1957	8,250,000	1,080,000	1,245,000	216,000	176,000	572,0
1958	8,500,000	1,572,500	1,240,000	72,000	240,000	840,0
1959	6,941,400	1,298,700	1,933,200	211,400	213,000	681,0
1960	5,046,000	983,700	5,158,000	373,900	53,400	146,3

Year	Hogs Head	Hogs Value	Lambs & Sheep Marketed Head	Wool Marketed Pounds	Sheep & Wool Value	Turkeys Pounds
1940	35,000	\$ 436,000	106,700	1,245,000	\$ 1,110,500	1,693,000
1945	17,500	612,500	141,000	1,160,000	2,262,000	2,382,000
1946	16,500	725,000	121,000	1,372,000	2,248,000	1,482,000
1947	15,000	900,000	127,500	1,000,000	2,490,000	785,000
1948	20,000	950,000	112,000	1,000,000	2,415,000	500,000
1949	25,000	1,125,000	102,000	840,000	2,388,000	550,000
1950	28,000	1,175,000	110,000	1,000,000	3,526,000	1,265,000
1951	47,500	2,000,000	130,000	1,375,000	4,263,000	1,250,000
1952	52,000	1,672,000	169,000	1,630,000	4,753,000	1,325,000
1953	30,000	994,000	163,000	1,200,000	3,397,000	850,000
1954	20,000	720,000	150,000	1,200,000	3,140,000	1,140,000
1955	22,000	700,000	160,000	1,260,000	2,937,000	1,200,000
1956	19,000	650,000	160,000	1,100,000	3,195,000	1,000,000
1957	18,000	612,000	170,000	1,278,000	3,748,000	1,409,000
1958	18,200	612,000	174,000	1,300,000	3,827,000	1,374,000
1959	23,650	674,000	186,200	1,403,600	3,564,400	1,483,000
1960	26,400	852,000	181,000	1,207,400	3,489,000	1,061,000

PRINCIPAL COMMODITIES

	Other Field & Seed Crops Cwt.	Other Field & Seed Crops Value	Almonds Pounds	Almonds Value	Walnuts Pounds	Walnuts Value
	118,000	\$ 137,000	2,016,000	\$ 302,000	1,203,000	\$ 63,000
	97,000	309,000	1,900,000	741,000	542,000	90,000
	118,000	300,000	2,000,000	744,000	492,000	97,000
	127,000	427,000	2,000,000	680,000	587,000	91,000
	129,000	554,000	1,250,000	286,000	550,000	85,000
	193,000	501,000	3,000,000	650,000	1,237,000	159,000
	91,000	407,000	3,500,000	1,085,000	929,000	141,000
	66,000	361,000	3,500,000	1,050,000	1,166,000	212,000
	112,000	578,000	3,750,000	1,025,000	1,085,000	199,000
	223,000	895,000	3,300,000	780,000	920,000	155,000
	268,000	1,205,000	2,225,000	587,000	875,000	123,000
	502,000	2,842,000	1,150,000	460,000	800,000	214,000
	1,995,000	1,871,000	3,900,000	1,560,000	1,032,000	228,000
	2,095,000	1,230,000	2,125,000	1,170,000	594,200	143,000
	1,237,000	2,707,000	668,000	258,500	1,384,000	207,600
	1,380,000	2,848,000	6,595,500	1,481,800	815,000	194,200
	708,000	2,978,000	3,884,000	947,900	1,068,000	283,000

	Other Fruit Fresh & Dried Pounds	Other Fruit Fresh & Dried Value	Butterfat Pounds	Butterfat Value	Cattle & Calves Marketed Head	Cattle & Calves Value
00	3,083,500	\$ 95,000	1,879,000	\$ 751,000	9,000	\$ 676,000
00	4,649,000	328,000	3,343,500	2,841,000	24,500	1,636,500
00	9,763,000	839,000	2,973,000	2,902,000	23,500	1,695,000
00	6,072,000	390,000	3,400,000	3,260,000	29,000	3,240,000
00	2,382,000	119,000	3,690,000	4,001,000	31,500	4,770,000
00	6,330,000	270,000	3,621,000	3,033,000	43,500	4,134,500
00	4,177,000	295,000	3,711,000	3,711,000	41,300	7,000,500
00	7,562,000	440,000	3,807,000	3,970,000	44,200	8,294,500
00	9,112,000	510,000	3,875,000	4,601,000	41,500	5,540,000
00	5,700,000	376,000	4,802,000	5,010,000	43,500	3,755,000
00	7,450,000	310,000	5,136,000	4,402,000	45,000	3,550,000
00	7,837,000	320,000	5,485,000	4,831,000	45,000	3,925,000
00	6,840,000	445,000	5,014,000	4,516,000	46,000	5,200,000
00	5,389,100	444,000	5,510,000	4,787,000	46,500	6,446,000
00	6,130,000	484,000	5,025,000	4,632,000	60,000	10,046,000
00	3,513,000	303,200	4,573,100	4,539,000	62,000	9,530,800
00	3,477,400	337,800	5,034,200	4,930,000	67,000	10,200,000

Turkey Eggs Each	Turkeys & Eggs Value	Pounds Packaged Bees	Honey Tons	Bees & Honey Value	Lumber & Logs Bd. Feet	Lumber & Logs Value
99,000	\$ 303,000	19,700	270	\$ 34,000		\$
841,000	1,205,000	30,000	114	76,500	500,000	20,000
635,000	784,000	37,500	220	164,000	1,400,000	100,000
315,000	409,000	39,000	187	105,000	500,000	50,000
75,000	300,000	38,500	238	131,000	5,000,000	500,000
320,000	332,000	32,000	244	97,000	1,800,000	122,000
100,000	547,000	25,000	144	63,500	7,000,000	240,000
351,000	686,000	24,500	462	123,000	29,000,000	1,067,500
110,000	697,000	26,500	450	131,500	23,000,000	1,647,500
290,000	433,000	25,000	325	121,500	27,000,000	1,956,000
317,000	599,000	25,000	325	95,000	32,000,000	2,000,000
376,000	477,000	32,000	425	125,000	37,000,000	2,600,000
300,000	436,000	38,000	400	143,000	39,500,000	2,902,000
33,600	538,000	52,850	210	157,000	69,000,000	2,501,800
50,000	551,000	60,300	333	204,200	71,500,000	3,515,000
12,500	489,100	59,600	169	137,400	71,500,000	3,515,000
98,400	446,400	56,900	114	173,800	71,500,000	3,515,000

GLENN COUNTY'S POSITION IN STATE PRODUCTION

Below is listed Glenn County's position in comparison to the 58 counties of California:

Glenn County ranks 25th in Agricultural Crop Value

Land area	35th
Ladino Clover Seed	1st
Sheep and Lambs	1st
Safflower	4th
Rice	4th
Permanent Pasture (irrigated)	4th
Hogs	6th
Olives	7th
Navel Oranges	7th
Bees and Honey	7th
Almonds	10th
Prunes	10th
Barley	11th
Figs	14th
Alfalfa Hay	16th
Cattle, All	16th
Apricots	16th
Pears	17th
Dairy Products	18th
Wheat	22nd
Sugar Beets	23rd
Dry Beans	23rd
Walnuts	24th
Peaches	24th
Commercial Timber Land	28th

WILDLIFE

Geese	2nd
Ducks	4th
Pheasants	4th
Muskrats	4th
Deer	33rd

The following are commodities produced in the county that grossed over a million dollars each during 1960:

1. Rice
2. Fat Cattle
3. Cattle
4. Milled Lumber
5. Manufacturing Milk
6. Sheep and Lambs
7. Irrigated Pasture
8. Barley
9. Alfalfa Hay
10. Fruit Crops
11. Market Milk
12. Ladino Clover Seed
13. Nut Crops

PETROLEUM INCOME

Natural gas — 2nd largest field in California

Estimates rate Glenn County 4th richest per capita in the United States.

Population of Glenn County 17,245

AGRICULTURE INCOME TOTALS FOR 24 YEARS

Year	Amount	Year	Amount
1937	\$ 6,450,700	1950	\$ 30,637,000
1938	5,670,300	1951	39,005,000
1939	7,698,200	1952	42,473,700
1940	8,206,700	1953	33,267,000
1941	10,587,500	1954	31,364,000
1942	11,973,200	1955	34,570,000
1943	13,824,600	1956	37,970,000
1944	19,047,000	1957	43,000,000
1945	18,577,000	1958	45,448,000
1946	22,260,000	1959	47,987,800
1947	27,935,000	1960	49,000,500
1948	27,070,000		
1949	\$ 24,820,000	24-Year Total	\$638,843,200

United States Department of Agriculture Stabilization And Conservation Participation — 1960

SUPPORT PRICES ALLOWED FOR COMMODITIES (when put under loan or purchase agreement)

Barley	\$ 1.81 cwt.
Beans, Medium White	5.71 cwt.
Small White	6.09 cwt.
Red Kidney	7.27 cwt.
Pink	5.89 cwt.
Pinto	4.96 cwt.
Small Red	5.99 cwt.
Large Lima	8.73 cwt.
Baby Lima	4.24 cwt.
Yellow Corn	2.25 cwt.
Grain Sorghum (Discolored Discount .07 cwt.)	1.84 cwt.
Oats	1.81 cwt.
Rice (20c premium for No. 1)	4.16 cwt.
Wheat	3.12 cwt.
Honey .....	.09 lb.

LOAN REDUCTION FOR NOXIOUS WEED SEEDS

Barley, Oats, Rye & Wheat .....	.10 bu.
Flaxseed .....	.15 bu.
Grain Sorghums .....	.15 bu.

COMMODITIES UNDER LOAN — 1960

Farm Stored Rice Loans	347,300 bu.	\$ 16,437.18	
Warehouse Stored Loans	6,165,600 bu.	276,450.40	
Farm Storage Facility Loans		120,501.30	
Warehouse Stored Bean Loans	2,340 bu.	1,642.68	\$ 415,031.56

DIRECT PARTICIPATION

Wool Incentive	\$396,300.00	
Agriculture Conservation	70,000.00	
Soil Bank	119,900.00	\$ 656,780.00
Sugar Beet Processor & Import	70,580.00	500,000.00

INDIRECT PURCHASE BENEFIT TO DAIRY INDUSTRY

\$1,571,811.00

TOTAL UNITED STATES PARTICIPATION (Agriculture)

\$54,543,840.00

ASSESSED VALUATION

BUDGET TO OPERATE GLENN COUNTY:

Budget of County (under Board of Supervisors)	\$ 3,793,934.20
Special Districts Governed through Board of Supervisors	79,998.71
Budgets of Districts Governed by Local Boards (Schools, Cemetery Districts, Fire & Levee Districts)	2,817,553.77

GRAND TOTAL COUNTY BUDGET

\$ 6,691,486.68

SOURCE OF INCOME:

Current County Taxes — General County	\$1,034,971.78
Special Districts	1,211,163.03
Other Revenue (State, Federal, including cash on hand) — General County	2,758,962.42
Special Districts	1,686,389.45

\$6,691,486.68

RESOURCES

Lakes	Plaskett Meadows, Stony Gorge Dam and Packer Lake	5
County Parks		74
Forest Camp Grounds, Improved Units		23,000
Visitations annually to National Forest areas		221,568
National Forest Acreage		7,450
Elevation in Forest — Highest Point		

Kinds of Fish:

Mountain streams —	Rainbow Trout, Steelhead
Rivers —	Striped Bass, Black Bass, Salmon, Shad, Catfish, Steelhead, Rainbow Trout, Sturgeon.
Lakes —	Black Bass, Catfish, Sunfish, Crappie, Bluegill.
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	35
Butte Creek	12
Walker Creek	20

Estimated number of Wild Game

		Estimated number of Predators	Reported killed by Licensed Hunters, Trappers and Others
Columbia Black Tail Deer	12,000	—	864
California Black Bear	100	—	6
Wild Ducks	1,075,000	—	—
Wild Geese	200,000	—	—
Ring-neck Pheasants	50,000	—	—
Calif. Valley & Mt. Quail	60,000	—	—
Mourning Doves	90,000	—	—
Band-tail Pigeons	10,000	—	—
Beaver	450	—	138
Otter	30	—	1
Mountain Lions (State Bounty — Female \$60; Male \$50)	—	10	4
Coyotes (County Bounty \$10)	—	4,000	156
Bobcats	—	2,500	2
Badgers	—	200	0
Raccoons	—	1,700	119
Skunks	—	15,000	246
Mink	—	400	7
Grey Fox	—	8,000	15
Red Fox	—	1,500	0
Muskrats, trapped	—	—	4,032

Glenn County has 18 State Licensed Trappers

APIARY INSPECTION

	Apiaries	Colonies
Registered during 1960	184	5,790
Entering County	32	2,143
Leaving County	20	1,343
Moving within the County	41	1,459
Inspected	60	2,286
Infected with American Foulbrood	6	11
Infected with European Foulbrood	3	12
Burned for American Foulbrood	6	11

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 and East Park Dam on Stony Creek.

Irrigation Districts in Operation:	Acres
Orland, U. S. Reclamation District — Stony Creek	20,000
Glenn-Colusa Irrigation District — Sacramento River	54,435
Jacinto Irrigation District — Sacramento River	12,560
Provident Irrigation District — Sacramento River	12,520
Princeton-Codora-Glenn — Sacramento River	7,000
Willow Creek Mutual Water 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	45,600
TOTAL ACREAGE UNDER IRRIGATION	169,115
Other Land Suitable For Irrigation:	
Orland-Artois Irrigation District	18,000
Kanawha Irrigation District	2,800
West of present irrigation systems	66,000
Butte City District, east of Sacramento River	25,000
Stony Creek Valley	4,436
West of Orland on Stony Creek, below proposed Black Butte Dam	15,000
Sloping land and foothill valleys	40,609
ADDITIONAL ACREAGE SUITABLE FOR IRRIGATION	171,845
TOTAL IRRIGABLE LAND IN GLENN COUNTY	340,960

Total Acreage in Glenn County	880,000
Acres in Farm Land	319,000
Land leveled for irrigation in 1960, 5,000 acres.	
Irrigation wells drilled in 1960, 54	
Acres in Range Land	287,000
Acres in National Forest	221,568
Acres of Commercial Timber Land	113,000
Board Feet of Standing Timber	3,000,000,000
Species of merchantable trees: Sugar Pine, Ponderosa (yellow) Pine, Douglas Fir, White Fir, Red Fir and Incense Cedar	

PRINCIPAL AGRICULTURAL INDUSTRIES

	No.		No.
Rice Dryers, Public & Private	37	Sugar Beet Processing Plants	1
Commercial Warehouses	12	Flying Service Companies (pest control, grain seeding, fertilization, weed control, fire control) ..	6
Seed Milling & Processing Plants	5	Agricultural Chemical Fertilizer Companies	4
Feed Mills	6	Nurseries	4
Poultry Processing Plants	5	Sawmills	1
Livestock Auction Yards	3	Well Drilling Companies (water)	4
Commercial Feed Lots	12	Natural Gas Wells in Production	85
Slaughter Houses	4		
Milk Processing Plants	5		
Fruit & Nut Processing Plants	15		
Honey & Bee Packaging Plants	8		

Mendocino National Forest Headquarters, Willows
 Sacramento Valley Wildlife Refuge, Willows
 Glenn County Chamber of Commerce, Orland

ANNUAL RAINFALL AT WILLOWS, CALIFORNIA

82 YEARS — 1878-1960

Year	Inches	Year	Inches	Year	Inches
1878-1879.....	7.01	1906-1907.....	17.88	1934-1935.....	19.62
1879-1880.....	13.96	1907-1908.....	13.44	1935-1936.....	17.48
1880-1881.....	13.85	1908-1909.....	22.09	1936-1937.....	16.40
1881-1882.....	8.28	1909-1910.....	14.36	1937-1938.....	26.28
1882-1883.....	8.45	1910-1911.....	17.75	1938-1939.....	6.82
1883-1884.....	18.84	1911-1912.....	11.26	1939-1940.....	23.21
1884-1885.....	7.80	1912-1913.....	13.18	1940-1941.....	40.50
1885-1886.....	19.15	1913-1914.....	29.18	1941-1942.....	24.07
1886-1887.....	8.07	1914-1915.....	27.19	1942-1943.....	15.68
1887-1888.....	8.97	1915-1916.....	18.11	1943-1944.....	13.52
1888-1889.....	10.30	1916-1917.....	11.43	1944-1945.....	16.94
1889-1890.....	29.94	1917-1918.....	11.90	1945-1946.....	14.72
1890-1891.....	19.01	1918-1919.....	12.90	1946-1947.....	12.28
1891-1892.....	18.82	1919-1920.....	7.70	1947-1948.....	19.56
1892-1893.....	27.30	1920-1921.....	21.28	1948-1949.....	15.59
1893-1894.....	11.15	1921-1922.....	13.44	1949-1950.....	10.32
1894-1895.....	26.04	1922-1923.....	16.81	1950-1951.....	17.48
1895-1896.....	22.18	1923-1924.....	8.86	1951-1952.....	23.50
1896-1897.....	18.82	1924-1925.....	25.99	1952-1953.....	19.70
1897-1898.....	6.58	1925-1926.....	18.44	1953-1954.....	16.64
1898-1899.....	13.05	1926-1927.....	25.99	1954-1955.....	14.57
1899-1900.....	15.23	1927-1928.....	17.54	1955-1956.....	23.24
1900-1901.....	17.49	1928-1929.....	11.46	1956-1957.....	19.11
1901-1902.....	21.67	1929-1930.....	16.37	1957-1958.....	32.93
1902-1903.....	17.10	1930-1931.....	9.85	1958-1959.....	11.96
1903-1904.....	20.28	1931-1932.....	15.01	1959-1960.....	13.88
1904-1905.....	24.55	1932-1933.....	7.79		
1905-1906.....	19.85	1933-1934.....	15.65		

PLANT QUARANTINE

INTERSTATE SHIPMENTS: (incoming)	
Number of non-bulk shipments passed	538
Number of plants passed	30,237
Number of non-bulk shipments rejected	5
Number of plants rejected	11
Number of railroad cars inspected, grain	0
Number of railroad cars held in quarantine	0
EXPORT CERTIFICATION: (interstate and foreign, outgoing)	
Number of certificates issued	106
Number of containers	12,025
Number of pounds	1,093,186
INTRASTATE SHIPMENT: (incoming)	
Number of non-bulk shipments passed	474
Number of plants passed	419,579
Number of non-bulk shipments rejected	28
Number of plants rejected	944

The Following Table Was Compiled From Commercial Pest Control Operators' Reports And From Permits Issued To Private Farm And Orchard Operators.

Crop	Acreage Treated By Aircraft		Acreage Treated By Ground Rig		Total Acreage Treated
	Herbicides	Insecticides	Herbicides	Insecticides	
FIELD CROPS:					
Rice	30,619	13,466			44,085
Yellow Corn	160		246		406
Barley	12,284		1,416		13,700
Milo (Sorghum)	120				120
Alfalfa		5,662	206	90	5,958
Ladino	9,123	16,867	1,124	3,547	30,661
Beans & Peas		1,930		102	2,032
Other Field Crops ..	842	2,371	172		3,385
FRUITS & NUTS:					
Almonds				162	162
Walnuts		121		263	384
Peaches, Prunes & Apricots				138	138
Oranges				25	25
Pears		205		100	305
MISCELLANEOUS:					
Weeds & Summer Fallow	524		787		1,311
Tomatoes, Potatoes, etc.		330			330
Totals	53,672	40,952	3,951	4,427	103,002

918,241 lbs. of seed grain was treated by Commercial Pest Control Operators.

CHEMICALS AND POISONS USED BY THIS DEPARTMENT

RODENT AND PEST

ANIMAL CONTROL

3,186 pounds strychnine-treated barley
 141 pounds strychnine-treated milo
 5 pounds strychnine-treated gopher
 bait
 150 pounds strychnine-treated rice
 203 pounds strychnine-treated wheat
 3,735 pounds Pival-treated bait

WEED CONTROL

156 pounds Dalapon
 1,579 pounds Dowpon
 400 gallons diesel
 30 gallons kerosene
 570 pounds Polybor chlorate
 2 pints Sinox
 497 quarts 2,4-D
 8 gallons Trysben
 33 quarts X-77
 100 gallons Weedol
 7 quarts Dow General Weed killer

10 pounds Z-1 spreader

3 gallons Sodium arsenite

INSECT AND FUNGUS CONTROL

45 pints Chlordane
 111 pounds Chlordane dust
 19 pounds COCS
 68 ounces Cyanogas
 43 pounds DDT dust
 59 gallons DDT
 23 gallons Dieldrin
 210 pounds Dieldrin dust
 1,594 Dieldrin-treated bran
 247 gallons kerosene
 10 pounds Lime
 25 quarts Malathion
 123 pounds Malathion dust
 2 quarts Parathion
 2 pounds Parathion dust
 33 gallons summer oil
 5 quarts Tigress insecticide
 4 pounds Zinc sulphate

1960—Ten Most Important Insect/Mite Species—Glenn County

INSECT	Crop (s)	County Crop Value (\$)	Estimated Damage and Loss			Estimated Over-all Loss (\$)
			Assessable Yield Loss (\$)	Control Cost (\$)	% Loss of Crop Value	
Lygus Bugs	Clover & Alfalfa	\$ 3,813,795	\$197,500	\$67,170	7%	\$264,670
Spider Mites	Beans, clover & orchards	2,832,700	192,000	47,000	8%	239,000
Spotted Alfalfa Aphid	Alfalfa	1,969,900	175,000	15,500	9½%	190,500
Grain Storage Insects	Stored Grain	11,259,700	128,900	17,600	1½%	146,500
Tadpole Shrimp & Scavenger Beetle	Rice	7,989,600	36,700	52,900	1%	89,600
Armyworms	Clover, Alfalfa, Sorghum & Pasture	3,583,700	70,200	1,500	2%	71,700
Navel Orange Worm	Almonds & Walnuts	966,400	20,300	25,500	4%	45,800
Rice Leaf Miner	Rice	7,989,600	20,000	20,000	½%	40,000
Pear Leaf Miner	Pears	228,000	6,800	3,200	3%	10,000
Corn Earworm	Corn & Tomatoes	153,000	4,320	1,800	4%	6,120

REPORT ON WEIGHTS AND MEASURES WORK — 1960

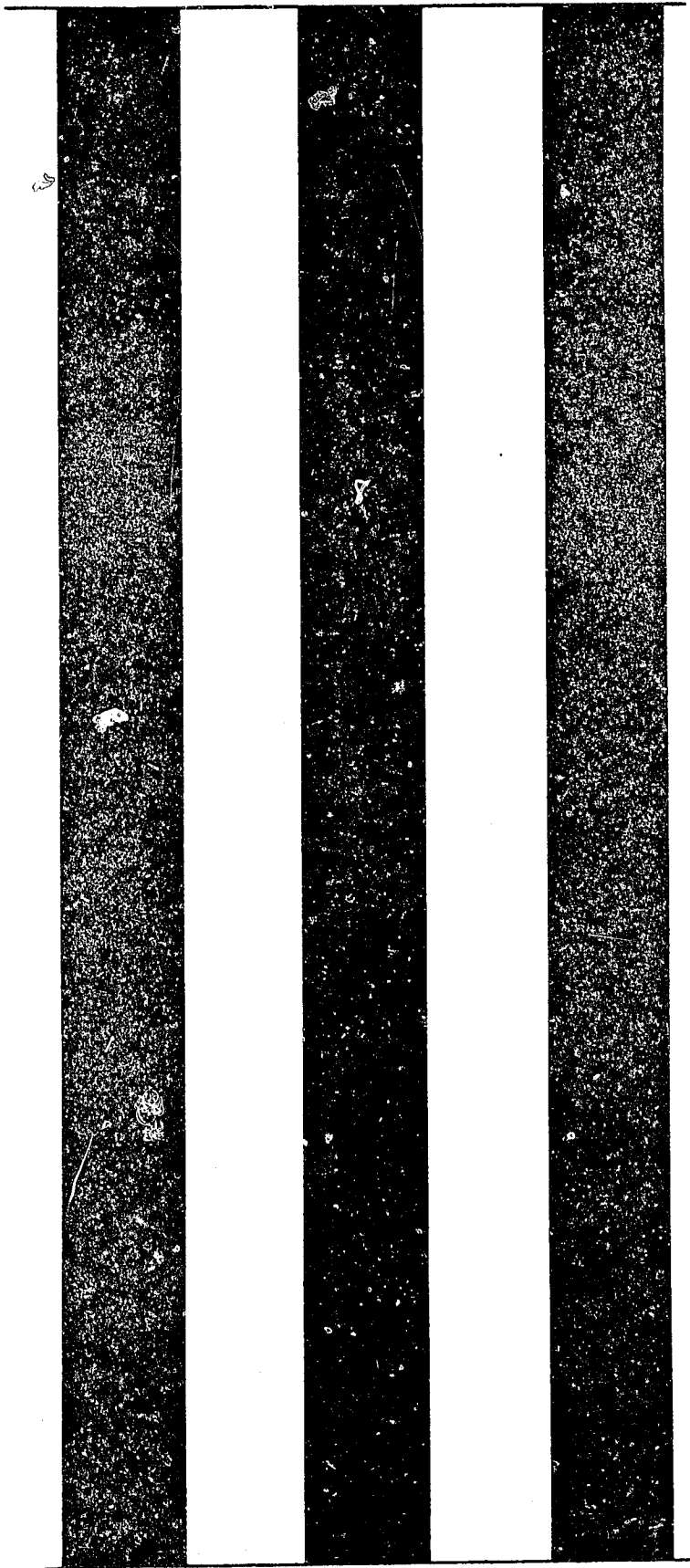
The following equipment was tested and	Sealed WITHOUT Correction	Sealed AFTER Correction	Out of Order	Condemned and Confiscated
Abattoir scales	2	0	0	0
Animal scales (single animal)	1	1	0	0
Computing scales	72	5	18	0
Counter scales	49	8	1	0
Dormant scales	25	5	3	1
Hopper scales	14	1	4	0
Livestock scales	48	11	3	0
Meat Beams & Steelyards	9	0	2	0
Person Weighers	1	1	0	0
Platform scales	44	14	3	0
Prescription scales	8	0	0	0
Spring scales	42	3	11	1
Vehicle scales	53	18	5	0
Weights, commercial	261	5	2	0
Weights, prescription	34	3	0	0
Farm holding tanks	40	3	3	0
Grease meters	36	0	5	0
Linear measures	16	0	0	0
Liquid measures	55	2	1	0
Retail pumps and meters	124	12	6	0
Vehicles measured for capacity	1	0	0	0
Vehicle tank compartments gauged	1	0	0	0
Totals	936	92	67	2

Packages or containers inspected: 1,740.

Underweight: 8. Correct: 1,720. No net weight marked: 12.

Signs inspected: 27. Signs correct: 25. Signs corrected: 2.

Establishments visited: 512. Certificates issued: 350.



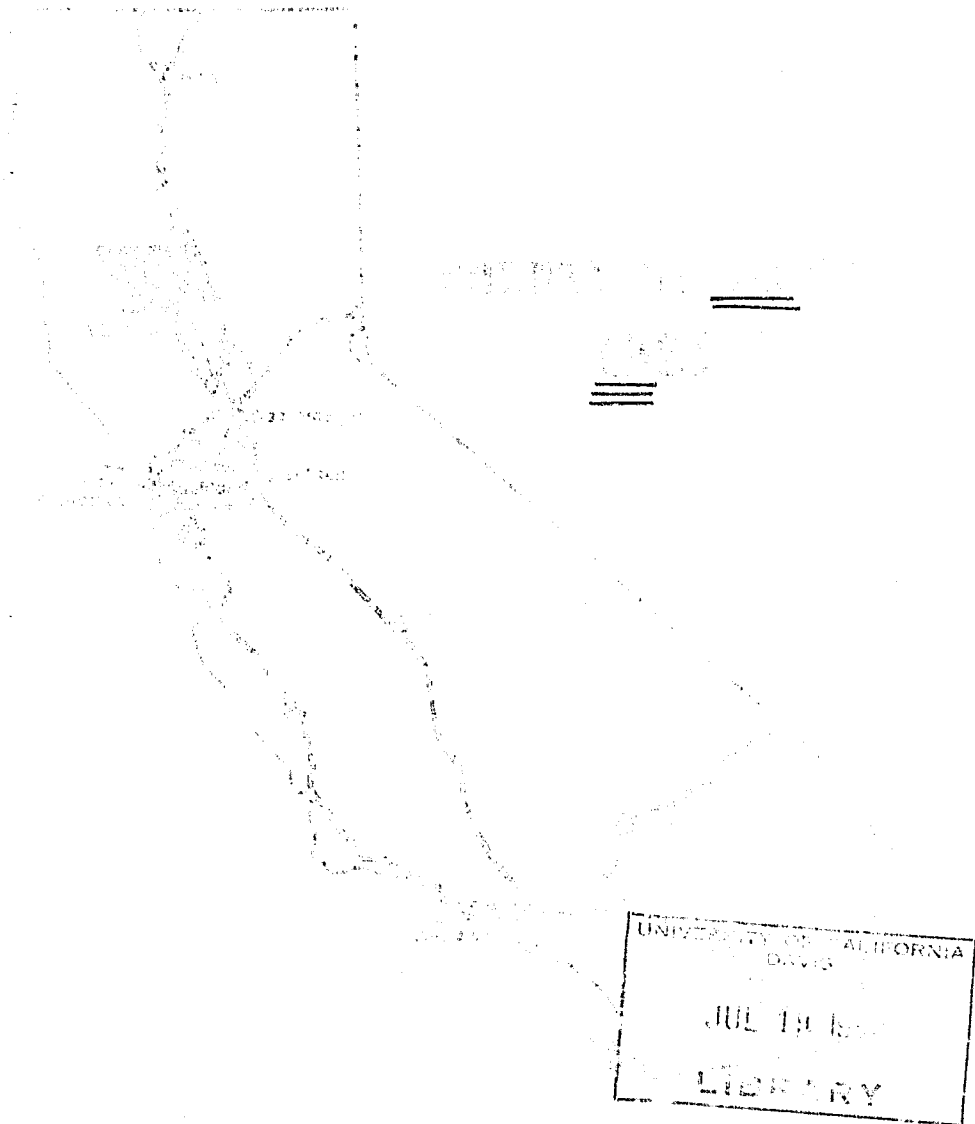
1961

Ref. V.F.

Calif. Counties

San Diego County

San Diego County
General Catalogue
1917
San Diego, Washburn and Alderman



GLENN COUNTY DEPARTMENT OF AGRICULTURE
WILLOWS, CALIFORNIA

ANNUAL REPORT
1961

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

BOARD OF SUPERVISORS

John F. Fiack, Chairman

C. E. Polzin

Ralph Colbert

William C. Reimers

Walter E. Soeth

P. V. HARRIGAN
Agricultural Commissioner
Sealer of Weights and Measures
County Livestock Inspector



Office: Memorial Building

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

"Where Water Is King"

COUNTY OF GLENN

WILLOWS, CALIFORNIA

Charles Paul, Director
California State Department of Agriculture
and
The Board of Supervisors of Glenn County

Gentlemen:

The California Agricultural Code, Section 65.5, requires the Agricultural Commissioner to compile a report covering the condition, acreage, production and value of the agricultural products of his county; and Section 65 requires that the Commissioner keep a record of his official acts and make an annual report to the Director of Agriculture on the conditions of the agricultural interests in his county; and, further, Section 30 indicates that the Agricultural Department shall promote and protect the agricultural industry of the state.

This is the 25th annual crop report by the Glenn County Agricultural Commissioner. The report covers in a brief way the general trends in the agricultural development of Glenn County.

The Glenn County farm income for 1961 was the highest on record and has been tabulated at \$50,857,400. This is a gain of \$1,501,800 over the previous high mark made in 1960. With few exceptions, most crops showed substantial increases. The crops that made the greatest gains were almonds, prunes, and dairy products; and their total increase for the year was \$946,000. The two principal crops showing a decrease were sheep and lambs, and citrus. The loss suffered by the sheepmen was created largely by the effects from imports, marketing problems and a lighter than usual lamb crop. The loss in citrus was caused by the "June drop," which was a direct result of the intense heat last June and caused the trees to lose most of their fruit.

Growing nursery stock, a relatively new industry in Glenn County, includes citrus trees, roses and various ornamental type plants. Sales for this new industry amounted to \$41,000 from the first year of operations.

Approximately 4,500 acres of land were leveled for irrigation, and 35 new wells were drilled and pumps installed. The general trend is toward more irrigated crops as water for irrigation becomes available.

Respectfully submitted,

P. V. Harrigan

P. V. HARRIGAN
Agricultural Commissioner

1961 PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS
FIELD CROPS: ACREAGE, PRODUCTION AND VALUE, 1960-1961

Crop	Year	Harvested acreage	Production		Unit	Value	
			Per acre	Total		Per unit	Total
Barley	1961	60,000	0.900	54,000	Ton	\$ 45.40	\$ 2,451,600
	1960	60,000	0.850	51,000	"	40.00	2,040,000
Beans and Field Peas	1961	1,880	0.621	1,170	"	200.00	234,000
	1960	1,250	0.700	875	"	170.00	149,000
Corn, Field	1961	1,000	2.50	2,500	"	49.60	124,000
	1960	1,300	2.13	2,770	"	48.00	133,000
Hay Alfalfa	1961	17,100	5.5	94,000	"	19.00	1,786,000
	1960	17,100	4.8	82,100	"	24.00	1,970,000
Clover	1961	12,000	1.00	12,000	"	10.00	120,000
	1960	11,000	1.25	13,800	"	14.00	193,000
Mixed	1961	10,000	2.25	22,500	"	15.00	337,500
	1960	10,000	2.25	22,500	"	19.00	428,000
Oats	1961	1,000	0.75	750	"	45.00	33,800
	1960	1,000	0.85	850	"	46.50	39,500
Pasture Irrigated	1961	75,000			Acre	38.00	2,774,000
	1960	73,000			"	38.00	2,774,000
Range	1961	250,000			"	2.15	538,000
	1960	250,000			"	2.15	538,000
Stubble	1961	90,000			"	2.00	180,000
	1960	100,000			"	2.50	250,000
Rice	1961	36,700	2.36	86,600	Ton	94.00	8,140,000
	1960	36,200	2.75	99,600	"	85.00	8,466,000
Safflower	1961	18,300	0.55	10,060	"	93.60	941,600
	1960	21,500	0.437	9,400	"	80.00	752,000
Sorghum Grain	1961	8,000	2.00	16,000	"	41.80	668,800
	1960	12,000	2.00	24,000	"	36.40	874,000
Sugar Beets	1961	2,190	14.40	31,500	"	12.85	404,800
	1960	2,190	15.30	33,500	"	11.40	382,000
Wheat	1961	3,000	0.75	2,250	"	65.00	146,300
	1960	3,030	0.95	2,880	"	59.00	170,000
Miscellaneous Crops	1961	1,500			Acre		60,000
	1960	3,000			"		172,000
TOTAL	1961						\$18,940,400
	1960						\$19,330,500

LIVESTOCK AND POULTRY: PRODUCTION AND VALUE, 1960-1961

Item	Year	Production		Unit	Value	
		No. of Head	Total Liveweight		Per Unit	Total
Cattle and Calves	1961	73,500	527,000	Cwt.	\$23.00	\$12,121,000
	1960	67,200	482,000	"	21.20	10,218,000
Sheep and Lambs	1961	136,400	148,000	"	15.00	2,220,000
	1960	181,000	196,000	"	15.10	2,960,000
Hogs and Pigs	1961	30,300	60,600	"	19.50	1,182,000
	1960	26,400	46,600	"	17.00	792,000
Chickens, all	1961		35,000	Lbs.	.17	6,000
	1960		42,500	"	.16	6,800
Turkeys	1961		841,000	"	.27	227,000
	1960		1,062,000	"	.26	276,000
TOTAL	1961					\$15,756,000
	1960					\$14,252,800

**LIVESTOCK AND POULTRY PRODUCTS:
PRODUCTION AND VALUE, 1960-1961**

Item	Year	Production	Unit	Value	
				Per Unit	Total
Milk Market	1961	407,000	Cwt.	\$4.69	\$ 1,909,000
	1960	363,000	"	4.81	1,746,000
Manufacturing	1961	892,000	"	3.47	3,095,000
	1960	948,000	"	3.28	3,109,000
Wool	1961	1,125,000	Lbs.	.47	529,000
	1960	1,207,000	"	.44	531,000
Eggs, Chicken (market)	1961	290,500	Doz.	.35	102,000
	1960	487,000	"	.35	170,000
Eggs, Turkey (hatching)	1961	1,237,100	Ea.	.25	309,000
	1960	908,000	"	.25	227,000
TOTAL	1961				\$ 5,944,000
	1960				\$ 5,783,000

FRUIT & NUT CROPS: ACREAGE, PRODUCTION AND VALUE, 1960-1961

Crop	Year	Bearing Acreage	Production		Unit	Value	
			Per ac.	Total		Per Unit	Total
Almonds	1961	3,157	.80	2,520	Ton	\$540.00	\$ 1,361,000
	1960	3,023	.64	1,950	"	488.00	952,000
Apricots	1961	138	3.24	447	"	116.00	51,900
	1960	138	4.39	619	"	145.00	89,800
Olives	1961	959	3.14	3,010	"	149.00	448,000
	1960	882	2.82	2,490	"	145.00	361,000
Oranges	1961	605	.94	570	"	290.00	165,000
	1960	605	1.65	998	"	147.00	147,000
Peaches	1961	51	5.50	300	"	53.00	15,900
	1960	40	6.00	240	"	45.00	10,800
Prunes	1961	1,487	2.78	4,145	"	330.00	1,368,000
	1960	1,450	1.75	2,520	"	389.00	980,000
Pears	1961	220	13.73	3,020	"	100.00	302,000
	1960	173	8.78	1,520	"	156.00	237,000
Walnuts	1961	961	.61	590	"	445.00	263,000
	1960	961	.56	534	"	529.00	282,000
Walnuts, Black	1961	200	1.5	300	"	20.00	6,000
	1960	350		895	"	20.70	18,500
Almond Hulls, Fruit Pits, etc. (by-products)	1961			760	"	7.00	5,300
	1960			1,300	"	7.00	9,100
Miscellaneous Fruits	1961	12					3,900
	1960						
TOTALS	1961						\$ 3,990,000
	1960						\$ 3,087,200

VEGETABLE CROPS: ACREAGE, PRODUCTION AND VALUE, 1960-1961

Crop	Year	Harvested acreage	Production		Unit	Value	
			Per ac.	Total		Per unit	Total
Tomatoes	1961	720	9.0	6,480	Ton	\$ 30.00	\$ 194,400
	1960	175	8.2	1,430	"	22.50	32,200
TOTAL	1961						\$ 194,400
	1960						\$ 32,200

NURSERY PRODUCTS: PRODUCTION AREA, SALES & VALUE, 1960-1961

Item	Year	Production area		Quantity sold by producers	Unit	Value	
		Field acres	House sq. ft.			Per Unit	Total
Nursery Crops	1961						\$ 41,000
	1960						
TOTAL	1961						\$ 41,000
	1960						

JANUARY 1, INVENTORIES OF LIVESTOCK AND POULTRY, 1961-1962
(in number of head)

Item	January 1, 1961	January 1, 1962
Cattle and calves		
All	70,700	71,300
Milk Cows, 2 years and over	19,500	18,800
Cattle and Calves on feed lot	6,000	6,000
Sheep and lambs		
All	197,000	179,000
Stock Sheep	149,000	134,000
Sheep and Lambs on feed	48,000	45,000
Hogs and Pigs	12,600	12,500
Hens and Pullets of laying age	43,000	40,000
Turkey Breeder Hens	11,000	14,000

SEED CROPS: ACREAGE, PRODUCTION AND VALUE, 1960-1961

Crop	Year	Harvested acres	Production		Unit	Value	
			Per ac.	Total		Per unit	Total
Alfalfa	1961	350	260	91,000	lbs.	\$.36	\$ 32,800
	1960	800	247	198,000	"	.32	63,400
Barley	1961	120	38	4,560	cwt.	2.50	11,400
	1960	105	30	3,150	"	3.25	10,200
Ladino Clover	1961	13,100	245	3,209,500	lbs.	.55	1,765,000
	1960	10,800	242	2,612,000	"	.67	1,750,000
Other Clovers	1961	450	355	159,800	"	.46	73,500
	1960	250	660	165,000	"	.42	69,300
Rice	1961	570	55	31,400	cwt.	6.50	204,100
	1960	755	55	41,500	"	5.50	228,000
Sudan	1961	1,320	11	14,500	"	6.00	87,000
	1960	425	17	7,220	"	6.00	43,300
Trefoil	1961	50	162	8,100	lbs.	.75	6,100
	1960	209	79	16,500	"	.85	14,000
Other Seed	1961			950,000	"		60,000
	1960			925,000	"		51,100
TOTAL	1961						\$2,239,900
	1960						\$2,229,300

APIARY PRODUCTS: PRODUCTION AND VALUE, 1960-1961

Item	Year	Production Total	Unit	Value	
				Per Unit	Total
Honey	1961	308,700	lbs.	.10	\$ 30,900
	1960	228,200	lbs.	.10	22,800
Beeswax	1961	8,020	lbs.	.45	3,600
	1960	6,300	lbs.	.43	2,700
Package Bees	1961	61,036	lbs.	1.40	85,500
	1960	56,900	lbs.	1.50	85,400
Queen Bees	1961	32,700	ea.	1.55	50,700
	1960	30,200	ea.	1.25	37,800
Pollination	1961				29,700
	1960				25,100
TOTAL	1961				\$200,400
	1960				\$173,800

**PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS
GLENN COUNTY, CALIFORNIA
RECAPITULATION**

	1961	1960
Field Crops	\$18,940,400	\$19,330,500
Livestock and Poultry	15,756,000	14,252,800
Dairy Products, Wool & Eggs	5,944,000	5,783,000
Fruit and Nut Crops	3,990,000	3,087,200
Seed Crops from Certified Sowed Seed	2,239,900	2,229,300
Vegetable Crops	194,400	32,200
Apiary Industry Crop	200,400	173,800
Nursery Products Total Income	41,000	
TOTALS	\$47,306,100	\$44,888,800
GOVERNMENT PARTICIPATION:		
Agriculture Conservation	\$ 78,800	\$ 70,000
Wool Incentive	298,700	396,300
Soil Bank	139,200	119,900
Sugar Beet, Processor & Import	64,600	70,600
TOTALS	\$ 581,300	\$ 656,800
FOREST PRODUCTS:		
Logs & Milled Lumber	\$ 2,700,000	\$ 3,515,000
Land Lease Rental Gas Industries	270,000	295,000
TOTALS	\$ 2,970,000	\$3,810,000
GRAND TOTAL AGRICULTURAL INCOME	\$50,857,400	\$49,355,600
OTHER INCOME — Natural Gas		
1961	28,009,000	M. C. F.
1960	30,413,200	M. C. F.

PRODUCTION AND VALUE

Year	Rice Cwt.	Rice Value	Barley Cwt.	Barley Value	Ladino Seed Pounds	Ladino Seed Value
1940	409,000	\$ 511,000	317,500	\$ 259,000	119,000	\$ 96,000
1945	690,000	2,243,000	675,000	1,671,000	350,000	525,000
1950	900,000	4,050,000	651,000	1,510,000	2,280,000	2,736,000
1951	1,060,000	5,088,000	500,000	1,550,000	3,200,000	3,765,000
1952	1,500,000	9,000,000	500,000	1,700,000	4,650,000	4,500,000
1953	1,428,000	7,500,000	650,000	1,850,000	2,865,000	1,060,000
1954	1,400,000	6,300,000	750,000	1,800,000	1,915,000	1,053,000
1955	1,500,000	6,750,000	600,000	1,500,000	3,002,000	1,622,000
1956	1,500,000	6,400,000	750,000	1,690,000	3,050,000	1,525,000
1957	1,707,200	7,938,400	1,742,000	3,222,700	1,167,000	304,000
1958	1,629,000	6,744,000	653,000	1,450,200	2,044,800	1,022,400
1959	1,857,900	7,617,500	971,500	2,015,900	2,337,500	1,303,400
1960	1,874,900	7,989,600	1,020,000	2,040,000	2,612,200	1,750,200
1961	1,732,000	8,140,000	1,080,000	2,451,600	3,209,500	1,765,000

Year	Prunes Pounds	Prunes Value	Olives Pounds	Olives Value	Oranges Boxes	Orange Value
1940	2,584,000	\$ 97,500	2,276,000	\$ 96,500	103,500	\$ 207,000
1945	6,000,000	600,000	2,690,000	464,000	85,000	340,000
1950	3,300,000	418,000	3,123,000	558,000	78,000	234,000
1951	5,544,000	612,000	4,000,000	812,000	105,000	368,000
1952	5,750,000	630,000	3,650,000	580,000	86,000	350,000
1953	4,550,000	550,000	1,250,000	112,000	125,000	625,000
1954	7,800,000	877,000	5,000,000	375,000	120,000	490,000
1955	4,600,000	759,000	1,350,000	160,000	100,000	400,000
1956	7,500,000	900,000	6,165,000	308,000	90,500	423,000
1957	8,250,000	1,080,000	1,245,000	216,000	176,000	572,000
1958	8,500,000	1,572,500	1,240,000	72,000	240,000	840,000
1959	6,941,400	1,298,700	1,933,200	211,400	213,000	681,000
1960	5,046,000	983,700	5,158,000	373,900	53,400	146,300
1961	8,286,000	1,368,000	6,020,000	448,000	30,800	165,000

Year	Hogs Head	Hogs Value	Lambs & Sheep Marketed Head	Wool Marketed Pounds	Sheep & Wool Value	Taxis Pounds
1940	35,000	\$ 436,000	106,700	1,245,000	\$ 1,110,500	1,693,000
1945	17,500	612,500	141,000	1,160,000	2,262,000	2,382,000
1950	28,000	1,175,000	110,000	1,000,000	3,526,000	1,265,000
1951	47,500	2,000,000	130,000	1,375,000	4,263,000	1,250,000
1952	52,000	1,672,000	169,000	1,630,000	4,753,000	1,325,000
1953	30,000	994,000	163,000	1,200,000	3,397,000	850,000
1954	20,000	720,000	150,000	1,200,000	3,140,000	1,140,000
1955	22,000	700,000	160,000	1,260,000	2,937,000	1,200,000
1956	19,000	650,000	160,000	1,100,000	3,195,000	1,000,000
1957	18,000	612,000	170,000	1,278,000	3,748,000	1,409,400
1958	18,200	612,000	174,000	1,300,000	3,827,000	1,374,200
1959	23,650	674,000	186,200	1,403,600	3,564,400	1,483,000
1960	26,400	852,000	181,000	1,207,400	3,489,000	1,061,700
1961	30,300	1,182,000	136,400	1,125,000	2,749,000	841,000

OF PRINCIPAL COMMODITIES

Code	Other Field & Seed Crops Cwt.	Other Field & Seed Crops Value	Almonds Pounds	Almonds Value	Walnuts Pounds	Walnuts Value
)	118,000	\$ 137,000	2,016,000	\$ 302,000	1,203,000	\$ 63,000
)	97,000	309,000	1,900,000	741,000	542,000	90,000
)	91,000	407,000	3,500,000	1,085,000	929,000	141,000
)	66,000	361,000	3,500,000	1,050,000	1,166,000	212,000
)	112,000	578,000	3,750,000	1,025,000	1,085,000	199,000
)	223,000	895,000	3,300,000	780,000	920,000	155,000
)	268,000	1,205,000	2,225,000	587,000	875,000	123,000
)	502,000	2,842,000	1,150,000	460,000	800,000	214,000
)	1,995,000	1,871,000	3,900,000	1,560,000	1,032,000	228,000
)	2,095,000	1,230,000	2,125,000	1,170,000	594,200	143,000
)	1,237,000	2,707,000	663,000	258,500	1,384,000	207,600
)	1,380,000	2,848,000	6,595,500	1,481,800	815,000	194,200
)	1,508,000	2,978,000	3,884,000	947,900	1,068,000	283,000
)	441,000	2,553,000	5,040,000	1,361,000	1,180,000	263,000

Code	Outer Fruit Fresh & Dried Pounds	Other Fruit Fresh & Dried Value	Butterfat Pounds	Butterfat Value	Cattle & Calves Marketed Head	Cattle & Calves Value
00	3,083,500	\$ 95,000	1,879,000	\$ 751,000	9,000	\$ 676,000
00	4,649,000	328,000	3,343,500	2,841,000	24,500	1,636,500
00	4,177,000	295,000	3,711,000	3,711,000	41,300	7,000,500
00	7,562,000	440,000	3,807,000	3,970,000	44,200	8,294,500
00	9,112,000	510,000	3,875,000	4,601,000	41,500	5,540,000
00	5,700,000	376,000	4,802,000	5,010,000	43,500	3,755,000
00	7,450,000	310,000	5,136,000	4,402,000	45,000	3,550,000
00	7,837,000	320,000	5,485,000	4,831,000	45,000	3,925,000
00	6,840,000	445,000	5,014,000	4,516,000	46,000	5,200,000
00	5,389,100	444,000	5,510,000	4,787,000	46,500	6,446,000
00	6,130,000	484,000	5,025,000	4,632,000	60,000	10,046,000
00	3,513,000	303,200	4,573,100	4,539,000	62,000	9,530,800
00	3,477,400	337,800	5,034,200	4,930,000	67,000	10,200,000
00	7,534,000	648,000	5,040,000	5,004,000	73,500	12,121,000

Code	Turkey Turkeys & Eggs Value	Pounds Packaged Bees	Honey Tons	Bees & Honey Value	Lumber & Logs Bd. Feet	Lumber & Logs Value
	99,000	\$ 303,000	19,700	270	\$ 34,000	\$
	841,000	1,205,000	30,000	114	76,500	20,000
	400,000	547,000	25,000	144	63,500	240,000
	351,000	686,000	24,500	462	123,000	1,067,500
	440,000	697,000	26,500	450	131,500	1,647,500
	290,000	433,000	25,000	325	121,500	1,956,000
	317,000	599,000	25,000	325	95,000	2,000,000
	376,000	477,000	32,000	425	125,000	3,700,000
	400,000	436,000	38,000	400	143,000	3,902,000
	833,600	538,000	52,850	210	157,000	69,000,000
	850,000	551,000	60,300	333	204,200	71,500,000
	512,500	489,100	59,600	169	137,400	71,500,000
	908,400	446,400	56,900	114	173,800	71,500,000
	1,237,100	536,000	61,036	154	200,400	51,000,000

GLENN COUNTY'S POSITION IN STATE PRODUCTION

Below is listed Glenn County's position in comparison to the 58 counties of California:

Glenn County ranks 24th in Agricultural Crop Value

Land area	35th
Ladino Clover Seed	1st
Sheep and Lambs	2nd
Safflower	4th
Rice	4th
Permanent Pasture (irrigated)	5th
Olives	5th
Hogs	6th
Figs	6th
Bees and Honey	8th
Almonds	9th
Apricots	9th
Prunes	11th
Barley	12th
Navel Oranges	13th
Cattle, All	13th
Pears	17th
Alfalfa Hay	18th
Wheat	18th
Dairy Products	19th
Peaches	20th
Sugar Beets	22nd
Dry Beans	23rd
Walnuts	24th
Commercial Timber Land	28th

WILDLIFE

Geese	4th
Ducks	4th
Muskrats	4th
Pheasants	9th
Deer	33rd

The following are commodities produced in the county that grossed over a million dollars each during 1961:

1. Rice
2. Hogs
3. Cattle
4. Milled-Lumber
5. Manufacturing Milk
6. Sheep and Lambs
7. Irrigated Pasture
8. Barley
9. Alfalfa Hay
10. Fruit Crops
11. Market Milk
12. Ladino Clover Seed
13. Nut Crops

PETROLEUM INCOME

Bee Hive Bend — Largest Natural Gas field in California

Estimates rate Glenn County 4th richest per capita in the United States.

Population of Glenn County 20,200

AGRICULTURE INCOME TOTALS FOR 25 YEARS

Year	Amount	Year	Amount
1937	\$ 6,450,700	1950	\$ 30,637,000
1938	5,670,300	1951	39,005,000
1939	7,698,200	1952	42,473,700
1940	8,206,700	1953	33,267,000
1941	10,587,500	1954	31,364,000
1942	11,973,200	1955	34,570,000
1943	13,824,600	1956	37,970,000
1944	19,047,000	1957	43,000,000
1945	18,577,000	1958	45,448,000
1946	22,260,000	1959	47,987,800
1947	27,935,000	1960	49,355,600
1948	27,070,000	1961	50,857,400
1949	24,820,000		
		25-Year Total	\$690,055,700

United States Department of Agriculture Stabilization And Conservation Participation — 1961

SUPPORT PRICES ALLOWED FOR COMMODITIES (when put under loan or purchase agreement)

Barley	\$ 2.15 cwt.
Beans, Medium white	6.40 cwt.
Small white	7.21 cwt.
Red kidney	8.39 cwt.
Pink	7.01 cwt.
Pinto	6.08 cwt.
Small red	7.11 cwt.
Large lima	9.93 cwt.
Baby lima	5.28 cwt.
Yellow Corn	2.14 cwt.
Grain Sorghum (Discolored Discount .07 cwt.)	2.26 cwt.
Oats	1.94 cwt.
Rice (20c premium for No. 1)	4.71 cwt.
Wheat	3.12 cwt.
Honey .....	.09 lb.

COMMODITIES UNDER LOAN — 1961

Warehouse Stored Loans	13,355 bu.	\$ 15,558.00	
Farm Storage Facility Loans		165,875.00	
Warehouse Stored Bean Loans	53,100 lb.	4,127.00	\$181,433.00

DIRECT PARTICIPATION

Wool Incentive	\$298,670.00	
Agriculture Conservation	78,839.00	
Soil Bank	139,155.00	
Sugar Beet Processor & Import	64,628.00	\$581,292.00
TOTAL UNITED STATES PARTICIPATION (Agriculture)		\$762,725.00

PRINCIPAL AGRICULTURAL INDUSTRIES

No.	No.
Rice Dryers, Public & Private	43
Commercial Warehouses	12
Seed Milling & Processing Plants	5
Feed Mills	6
Poultry Processing Plants	2
Livestock Auction Yards	3
Commercial Feed Lots	12
Slaughter Houses	4
Milk Processing Plants	5
Fruit & Nut Processing Plants	15
Honey & Bee Packaging Plants	5
Sugar Beet Processing Plants	1
Flying Service Companies (pest control, grain seeding, fertilization, weed control, fire control) ..	6
Agricultural Chemical Fertilizer Companies	7
Nurseries	10
Sawmills	1
Well Drilling Companies (water)	4
Natural Gas Wells in Production	89

Mendocino National Forest Headquarters, Willows
 Sacramento Valley Wildlife Refuge, Willows
 Glenn County Chamber of Commerce, Willows

ANNUAL RAINFALL AT WILLOWS, CALIFORNIA

83 YEARS — 1878-1961

Year	Inches	Year	Inches	Year	Inches
1878-1879.....	7.01	1906-1907.....	17.88	1934-1935.....	19.62
1879-1880.....	13.96	1907-1908.....	13.44	1935-1936.....	17.48
1880-1881.....	13.85	1908-1909.....	22.09	1936-1937.....	16.40
1881-1882.....	8.28	1909-1910.....	14.36	1937-1938.....	26.28
1882-1883.....	8.45	1910-1911.....	17.75	1938-1939.....	6.82
1883-1884.....	18.84	1911-1912.....	11.26	1939-1940.....	23.21
1884-1885.....	7.80	1912-1913.....	13.18	1940-1941.....	40.50
1885-1886.....	19.15	1913-1914.....	29.18	1941-1942.....	24.07
1886-1887.....	8.07	1914-1915.....	27.19	1942-1943.....	15.68
1887-1888.....	8.97	1915-1916.....	18.11	1943-1944.....	13.52
1888-1889.....	10.30	1916-1917.....	11.43	1944-1945.....	16.94
1889-1890.....	29.94	1917-1918.....	11.90	1945-1946.....	14.72
1890-1891.....	19.01	1918-1919.....	12.90	1946-1947.....	12.28
1891-1892.....	18.82	1919-1920.....	7.70	1947-1948.....	19.50
1892-1893.....	27.30	1920-1921.....	21.28	1948-1949.....	15.50
1893-1894.....	11.15	1921-1922.....	13.44	1949-1950.....	10.32
1894-1895.....	26.04	1922-1923.....	16.81	1950-1951.....	17.48
1895-1896.....	22.18	1923-1924.....	8.86	1951-1952.....	23.50
1896-1897.....	18.82	1924-1925.....	25.99	1952-1953.....	19.70
1897-1898.....	6.58	1925-1926.....	18.44	1953-1954.....	16.64
1898-1899.....	13.05	1926-1927.....	25.99	1954-1955.....	14.57
1899-1900.....	15.23	1927-1928.....	17.54	1955-1956.....	23.24
1900-1901.....	17.49	1928-1929.....	11.46	1956-1957.....	19.11
1901-1902.....	21.67	1929-1930.....	16.37	1957-1958.....	32.93
1902-1903.....	17.10	1930-1931.....	9.85	1958-1959.....	11.96
1903-1904.....	20.28	1931-1932.....	15.01	1959-1960.....	13.88
1904-1905.....	24.55	1932-1933.....	7.79	1960-1961.....	16.24
1905-1906.....	19.85	1933-1934.....	15.65		

PLANT QUARANTINE

INTERSTATE SHIPMENTS: (incoming)	
Number of bulk shipments rejected	1
Number of bulk shipments released	57
Number of non-bulk shipments passed	17,726
Number of plants passed	2
Number of non-bulk shipments rejected	5
Number of plants rejected	5
EXPORT CERTIFICATION: (interstate and foreign, outgoing)	
Number of certificates issued	113
Number of containers	21,563
Number of pounds	1,800,795
INTRASTATE SHIPMENT: (incoming)	
Number of bulk shipments passed	11
Number of bulk units passed	1,542,000
Number of non-bulk shipments passed	384
Number of plants passed	234,992
Number of non-bulk shipments rejected	25
Number of plants rejected	368

RESOURCES

Lakes	Plaskett Meadows, Stony Gorge Dam and Packer Lake	5
County Parks		74
Forest Camp Grounds, Improved Units		24,500
Visitations annually to National Forest areas		221,568
National Forest Acreage		7,450
Elevation in Forest — Highest Point		

Kinds of Fish:

Mountain streams — Rainbow Trout, Steelhead
 Rivers — Striped Bass, Black Bass, Salmon, Shad,
 Catfish, Steelhead, Rainbow Trout, Sturgeon.

Lakes — Black Bass, Catfish, Sunfish, Crappie, Bluegill.

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	Estimated number of Predators	Reported killed by Licensed Hunters, Trappers and Others
Columbia Black Tail Deer	12,500	908
California Black Bear	100	10
Wild Ducks	1,750,000	—
Wild Geese	500,000	—
Ring-neck Pheasants	55,000	—
Calif. Valley & Mt. Quail	75,000	—
Mourning Doves	100,000	—
Band-tail Pigeons	7,000	—
Beaver	500	24
River Otter	40	4
Mountain Lions (State Bounty — Female \$60; Male \$50)	—	4
Coyotes (County Bounty \$10)	—	88
Bobcats	—	2
Badgers	—	0
Raccoons	—	84
Skunks	—	225
Mink	—	0
Grey Fox	—	400
Red Fox	—	8,000
Muskrats, trapped	—	2,000
Opposum	100	—
		3,806
		8

Glenn County has 18 State Licensed Trappers

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 and East
Park Dam on Stony Creek.

Irrigation Districts in Operation:	Acres	
Orland, U. S. Reclamation District — Stony Creek	20,000	
Glenn-Colusa Irrigation District — Sacramento River	54,435	
Jacinto Irrigation District — Sacramento River	12,560	
Provident Irrigation District — Sacramento River	12,520	
Princeton-Codora-Glenn — Sacramento River	7,000	
Willow Creek Mutual Water 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	46,600	
TOTAL ACREAGE UNDER IRRIGATION		170,115
Other Land Suitable For Irrigation:		
Orland-Artois Irrigation District	17,600	
Kanawha Irrigation District	2,800	
West of present irrigation systems	65,400	
Butte City District, east of Sacramento River	25,000	
Stony Creek Valley	4,436	
West of Orland on Stony Creek, below proposed Black Butte Dam	15,000	
Sloping land and foothill valleys	40,609	
ADDITIONAL ACREAGE SUITABLE FOR IRRIGATION		170,845
TOTAL IRRIGABLE LAND IN GLENN COUNTY		340,960

Total Acreage in Glenn County	880,000
Acres in Farm Land	319,000
Land leveled for irrigation in 1961, 4,200 acres.	
Irrigation wells drilled in 1961, 35	
Acres in Range Land	287,000
Acres in National Forest	221,568
Acres of Commercial Timber Land	113,000
Board Feet of Standing Timber	3,000,000
Species of merchantable trees: Sugar Pine, Ponderosa (yellow) Pine, Douglas Fir, White Fir, Red Fir and Incense Cedar	

APIARY INSPECTION

	Apiaries	Colonies
Registered during 1961	179	5,796
Entered from another state	1	120
Entering county	51	2,821
Leaving county	53	2,663
Moving within the County	28	1,150
Inspected	10	419
Infected with American Foulbrood	10	181
American Foulbrood to Wax Salvage Plant	10	181

The Following Table Was Compiled From Commercial Pest Control Operators' Reports And From Permits Issued To Private Farm And Orchard Operators.

Crop	Acreage Treated By Aircraft		Acreage Treated By Ground Rig		Total Acreage Treated
	Herbicides	Insecticides	Herbicides	Insecticides	
FIELD CROPS:					
Rice	32,198	14,438			46,636
Yellow Corn			70		70
Barley	16,944		5,710		22,654
Oats	760		289		1,049
Sorghum Grain	113		671		784
Alfalfa	506	6,895		90	7,491
Clover	4,088	14,729	7,206	2,580	28,603
Beans & Peas	1,357			80	1,437
Other Field Crops ..	840	470			1,310
FRUITS & NUTS:					
Almonds		35	360	1,470	1,865
Walnuts		79		50	129
Prunes		352		1,177	1,529
Sub-tropical Fruits ..		174		19	193
Pears		810		300	1,110
MISCELLANEOUS:					
Weeds & Summer Fallow	615	2,900			3,515
Tomatoes		1,887			1,887
Roses		161			161
Totals	57,421	40,030	17,206	5,766	120,423

1,629,000 lbs. of seed grain was treated by Commercial Pest Control Operators.

CHEMICALS AND POISONS USED BY THIS DEPARTMENT

RODENT AND PEST

ANIMAL CONTROL:

5,478 pounds Strychnine-treated bait
7,302 pounds anti-coagulant bait

WEED CONTROL:

53 pounds Amino triazole
5 gallons Amitrol
300 pounds Chlorea
5,906 pounds Dalapon
473 gallons diesel oil
5 gallons Fenac
2 gallons kerosene
110 pounds Polybor chlorate
125 pounds Simazine
35 pints Sinox
100 pounds sodium chlorate
19 gallons summer oil
358 gallons 2,4-D
1,087 gallons weedoil
40 gallons X-77 spreader

INSECT AND FUNGUS CONTROL:

55 pounds BHC
18 pounds Bordeaux
4 pounds calcium arsenate
8 pounds COCS
93 pints Chlordane
58 pounds Chlordane dust
76 ounces Cyanogas
79 pounds DDT
68 gallons DDT
35 pints Dieldrin
2,399 pounds Dieldrin-treated bran
35 pounds Dieldrin dust
20 gallons diesel oil
14 pounds Malathion
5 gallons Malathion
54 CC's Methyl Bromide
4 pounds PDB
70 pounds Parathion
2 pounds Rotenone
109 gallons summer oil
2 quarts Xlene solvent oil
292 ounces X-77 spreader

1961—Ten Most Important Insect/Mite Species—Glenn County

INSECT	Crop (s)	County Crop Value (\$)	Estimated Damage and Loss			Estimated Over-all Loss (\$)
			Assessable Yield Loss (\$)	Control Cost (\$)	% Loss of Crop Value	
Spider Mites	Beans, clover & orchards	\$ 6,104,000	\$377,000	\$96,000	7%	\$473,000
Lygus Bugs	Clover & Alfalfa	3,778,000	234,000	68,000	8%	302,000
Spotted Alfalfa Aphid	Alfalfa	1,821,000	167,000	15,000	10%	182,000
Grain Storage Insects	Stored Grain	11,565,000	153,000	20,000	1½%	173,000
Armyworms	Clover, Sorghum & Pasture	4,815,000	94,000	2,000	2%	96,000
Tadpole Shrimp & Scavenger Beetle	Rice	8,140,000	51,000	30,000	1%	81,000
Thrips	Safflower	942,000	75,000	2,000	8%	77,000
Corn Earworm	Corn & Tomatoes	318,000	40,000	9,000	3%	49,000
Rice Leaf Miner	Rice	8,140,000	25,000	16,000	½%	41,000
Navel Orange Worm	Almonds & Walnuts	1,624,000	28,000	2,000	3%	30,000

REPORT ON WEIGHTS AND MEASURES WORK — 1961

The following equipment was tested and	Sealed WITHOUT Correction	Sealed AFTER Correction	Out of Order
Animal Scales (single animal)	1	0	0
Computing Scales	96	7	9
Counter Scales	63	13	5
Dormant Scales	15	1	0
Hopper Scales	7	7	1
Livestock Scales	28	15	4
Meat Beams & Steelyards	8	1	0
Person Weighers	1	0	1
Platform Scales	26	20	5
Prescription Scales	1	0	0
Spring Scales	42	4	1
Tank Scales	0	2	0
Vehicle Scales	39	21	5
Weights, Commercial	112	15	0
Bulk Plant Meters	7	2	0
Farm Holding Tanks	31	5	2
Grease Meters	18	0	2
Liquid Measures	51	0	0
Lube Oil Bottles (Capacity)	60	0	0
Lubricating Oil Meters	18	0	0
Retail Pumps & Meters	143	11	5
Vehicle Tank Compartments Gauged	1	0	0
Vehicle Tank Meters	13	2	0
Totals	781	126	40

Packages or containers inspected: 2,207. Lots passed: 85. Lots rejected: 11.

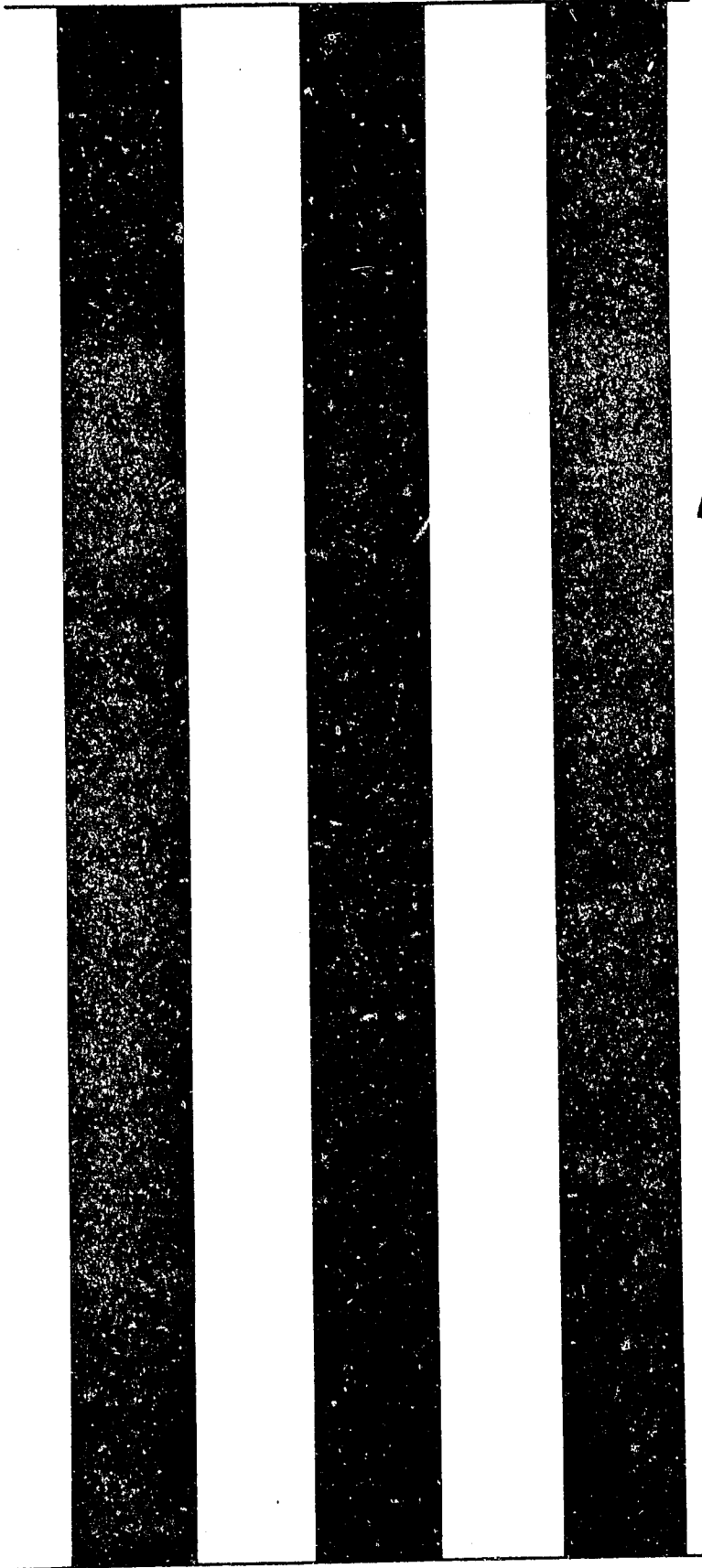
Packages passed: 1,911. Packages rejected: 296.

Signs inspected: 22. Signs correct: 20. Signs corrected: 2.

Establishments visited: 357. Certificates issued: 290.

Number of Off-Sale orders issued: 11. Written orders to conform issued: 10.

Office hearings held: 1.



1962

Ref. V.F. Calif. Counties

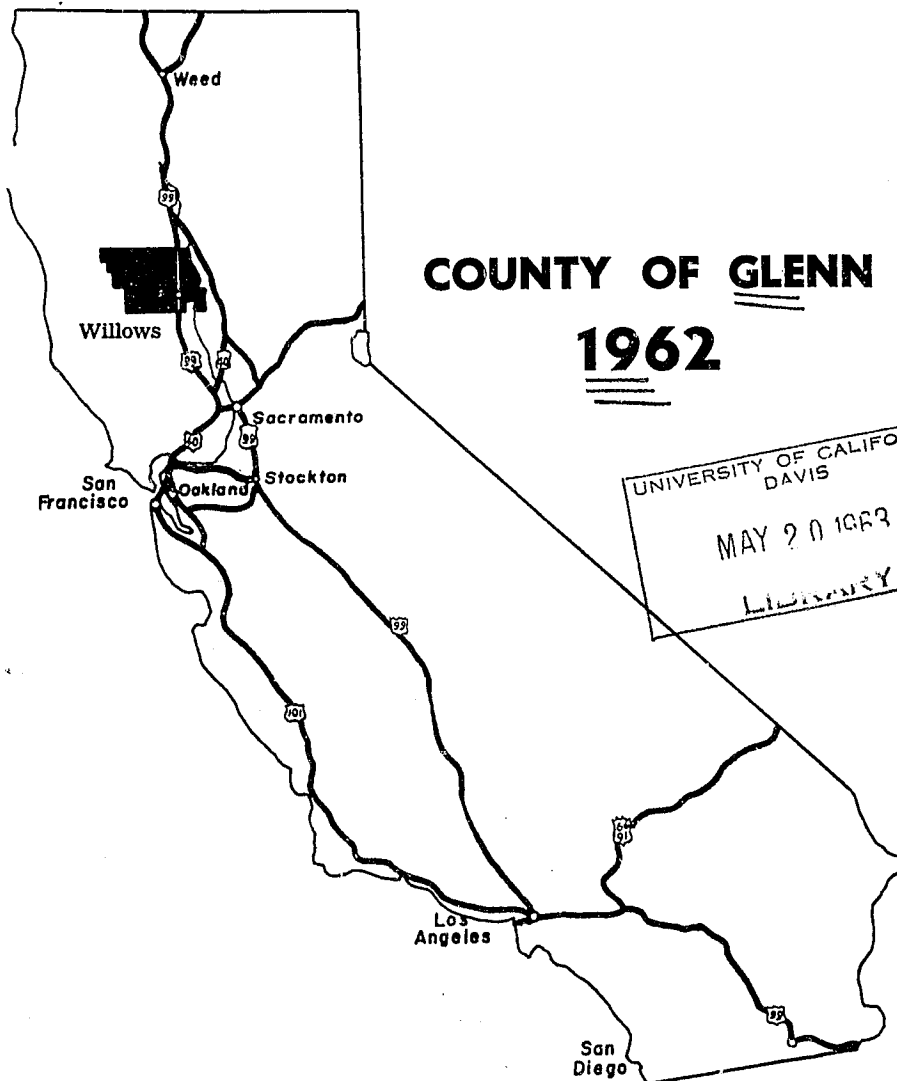
ANNUAL REPORT

P. V. HARRIGAN

Agricultural Commissioner
Sealer of Weights and Measures
County Livestock Inspector

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GLENN COUNTY DEPARTMENT OF AGRICULTURE
WILLOWS, CALIFORNIA

ANNUAL REPORT 1962

P. V. HARRIGAN

Agricultural Commissioner
Sealer of Weights and Measures
County Livestock Inspector

BOARD OF SUPERVISORS

John F. Fiack, Chairman

C. E. Polzin
William C. Reimers

Ralph Colbert
Walter E. Soeth

P. V. HARRIGAN
Agricultural Commissioner
Scaler of Weights and Measures
County Livestock Inspector



Office: Memorial Building
Telephones
Willows--WELLington 4-4651
Orland--UNderhill 5-2264

"Where Water Is King"

COUNTY OF GLENN

WILLOWS, CALIFORNIA

To: Charles Paul, Director
California State Department of Agriculture
and
The Board of Supervisors of Glenn County

Gentlemen:

The California Agricultural Code, Section 65.5, requires the Agricultural Commissioner to compile a report covering the condition, acreage, production and value of the agricultural products of his county; and, Section 65 requires that the Commissioner keep a record of his official acts and make an annual report to the Director of Agriculture on the conditions of the agricultural interests in his county, and, further, Section 30 indicates that the Agricultural Department shall promote and protect the agricultural industry of the state.

This is the 26th annual crop report by the Glenn County Agricultural Commissioner. The report covers in a brief way the general trends in the agricultural development of Glenn County.

The 1962 overall farm income for Glenn County topped all previous records with \$55,708,300 tabulated for the total return. This record income is \$4,850,900 over the 1961 all-time high.

A great deal of credit for the increased income can be attributed to the rice crop which was the result of a higher yield per acre from a larger acreage harvested. The \$10,660,000 for the 1962 rice crop keeps it as Glenn County's No. 1 Crop.

An increase in the planting of safflower has placed this crop in the "over a \$1,000,000 farm income" group. This fairly new crop continues to take an increasingly more important place in Glenn County's farm income.

Good growing weather and ample moisture, either by rainfall or irrigation, can be credited for the successful farm year of 1962.

Respectfully submitted,

P. V. Harrigan

P. V. HARRIGAN
Agricultural Commissioner

1962 PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS

FIELD CROPS: ACREAGE, PRODUCTION AND VALUE, 1961-1962

Crop	Year	Harvested acreage	Production		Unit	Value	
			Per acre	Total		Per unit	Total
Barley	1962	59,000	1.25	73,800	Ton	\$ 43.00	\$ 3,173,000
	1961	60,000	.90	54,000	"	45.40	2,451,600
Beans and Field Peas	1962	960	.90	864	"	160.00	138,000
	1961	1,880	.621	1,170	"	200.00	234,000
Corn, Field	1962	750	2.75	2,100	"	50.00	105,000
	1961	1,000	2.50	2,500	"	49.60	124,000
Hay Alfalfa	1962	17,260	5.50	94,600	"	22.00	2,081,000
	1961	17,100	5.50	94,000	"	19.00	1,786,000
Clover	1962	12,000	1.00	12,000	"	10.00	120,000
	1961	12,000	1.00	12,000	"	10.00	120,000
Mixed	1962	9,500	2.50	23,800	"	17.00	404,600
	1961	10,000	2.25	22,500	"	15.00	337,500
Oats	1962	1,700	.86	1,460	"	40.00	58,400
	1961	1,000	.75	750	"	45.00	33,800
Pasture Irrigated	1962	74,000			Acre	40.00	2,960,000
	1961	73,000			"	38.00	2,774,000
Range	1962	250,000			"	2.50	625,000
	1961	250,000			"	2.15	538,000
Stubble	1962	90,000			"	2.00	180,000
	1961	90,000			"	2.00	180,000
Rice	1962	41,000	2.60	106,600	Ton	100.00	10,660,000
	1961	36,700	2.36	86,600	"	94.00	8,140,000
Safflower	1962	21,500	.49	10,535	"	100.00	1,053,500
	1961	18,300	.55	10,060	"	93.60	941,600
Sorghum Grain	1962	14,000	1.75	24,500	"	40.00	980,000
	1961	8,000	2.00	16,000	"	41.80	668,800
Sugar Beets	1962	1,492	18.16	27,100	"	12.90	349,600
	1961	2,190	14.40	31,500	"	12.85	404,800
Wheat	1962	2,100	.84	1,760	"	72.00	126,700
	1961	3,000	.75	2,250	"	65.00	146,300
Miscellaneous Crops	1962	1,500			Acre		63,500
	1961	1,500			"		60,000
TOTAL	1962						\$23,078,300
	1961						\$18,940,400

LIVESTOCK AND POULTRY: PRODUCTION AND VALUE, 1961-1962

Item	Year	Production		Unit	Value	
		No. of Head	Total Liveweight		Per Unit	Total
Cattle and calves	1962	73,100	525,000	Cwt.	\$23.00	\$12,075,000
	1961	73,500	527,500	"	23.00	12,121,000
Sheep and lambs	1962	111,000	122,100	"	18.00	2,200,000
	1961	136,400	148,000	"	15.00	2,220,000
Hogs and pigs	1962	24,449	53,800	"	20.00	1,076,000
	1961	30,300	50,600	"	19.50	1,182,000
Chickens, all	1962		38,000	lbs.	.16	6,100
	1961		35,000	"	.17	6,000
Turkeys	1962		1,656,000	"	.28	464,000
	1961		841,000	"	.27	227,000
Horses and mules	1962					87,000
	1961					
TOTALS	1962					\$15,908,100
	1961					\$15,756,000

**LIVESTOCK AND POULTRY PRODUCTS:
PRODUCTION AND VALUE, 1961-1962**

Item	Year	Production	Unit	Value	
				Per Unit	Total
Milk Market	1962	431,000	Cwt.	\$4.70	\$ 2,026,000
	1961	406,000	"	4.71	1,912,000
Manufacturing	1962	856,000	"	3.30	2,825,000
	1961	896,000	"	3.48	3,118,000
Wool	1962	1,189,000	lbs.	.48	575,000
	1961	1,125,000	"	.47	529,000
Eggs, chicken (market)	1962	606,000	Doz.	.36	218,000
	1961	290,000	"	.35	102,000
Eggs, turkey (hatching)	1962	1,060,000	ea.	.25	265,000
	1961	1,237,000	"	.25	309,000
TOTALS	1962				\$5,909,000
	1961				\$5,970,000

FRUIT & NUT CROPS: ACREAGE, PRODUCTION AND VALUE, 1961-1962

Crop	Year	Bearing Acreage	Production		Unit	Value	
			Per ac.	Total		Per Unit	Total
Almonds	1962	3,260	.30	978	Ton	\$600.00	\$ 587,000
	1961	3,157	.80	2,520	"	540.00	1,361,000
Apricots	1962	137	3.90	534	"	120.00	64,000
	1961	138	3.24	447	"	116.00	51,900
Olives	1962	992	2.00	1,984	"	200.00	397,000
	1961	959	3.14	3,010	"	149.00	448,000
Oranges	1962	604	7.00	4,228	"	141.00	596,000
	1961	605	.94	570	"	290.00	165,000
Peaches	1962	59	5.00	290	"	52.00	15,100
	1961	51	5.50	300	"	53.00	15,900
Prunes	1962	1,606	2.52	4,050	"	290.00	1,175,000
	1961	1,487	2.78	4,145	"	330.00	1,368,000
Pears	1962	209	11.00	2,300	"	80.00	184,000
	1961	220	13.73	3,020	"	100.00	302,000
Walnuts	1962	961	.63	605	"	460.00	278,000
	1961	961	.61	590	"	445.00	263,000
Walnuts, Black	1962	200	1.75	350	"	20.00	7,000
	1961	200	1.50	300	"	20.00	6,000
Almond Hulls Fruit Pits, etc. (by-products)	1962			400	"	7.00	2,800
	1961			760	"	7.00	5,300
Miscellaneous Fruits	1962	12					4,000
	1961	12					3,900
TOTALS	1962						\$3,309,900
	1961						\$3,990,000

VEGETABLE CROPS: ACREAGE, PRODUCTION AND VALUE, 1961-1962

Crop	Year	Harvested acreage	Production		Unit	Value	
			Per ac.	Total		Per unit	Total
Tomatoes	1962	900	18.8	16,900	Ton	\$ 27.50	\$ 457,000
	1961	720	9.0	6,480	"	30.00	194,400
TOTAL	1962	900	18.8	16,900	"	27.50	\$ 457,000
	1961	720	9.0	6,480	"	30.00	\$ 194,400

NURSERY PRODUCTS: PRODUCTION AREA, SALES & VALUE, 1961-1962

Item	Year	Production area		Quantity sold by producers	Unit	Value	
		Field acres	House sq. ft.			Per Unit	Total
Nursery Crops	1962						\$ 83,300
	1961						\$ 41,000
TOTAL	1962						\$ 83,300
	1961						\$ 41,000

JANUARY 1, INVENTORIES OF LIVESTOCK AND POULTRY, 1962-1963
(in number of head)

Item	January 1, 1962	January 1, 1963
Cattle and calves		
All	71,300	72,700
Milk cows, 2 years and over	18,800	19,200
Cattle and calves on feed	6,000	6,200
Sheep and lambs		
All	179,000	182,000
Stock sheep	134,000	136,000
Sheep and lambs on feed	45,000	46,000
Hogs and pigs	12,500	12,800
Hens and pullets of laying age	40,000	41,000
Turkey breeder hens	14,000	14,500

SEED CROPS: ACREAGE, PRODUCTION AND VALUE, 1961-1962

Crop	Year	Harvested acres	Production		Unit	Value	
			Per ac.	Total		Per unit	Total
Alfalfa	1962	350	450	157,900	lbs.	\$.38	\$ 60,000
	1961	350	260	91,000	"	.36	32,800
Barley	1962	75	36	2,700	cwt.	2.50	6,800
	1961	120	38	4,560	"	2.50	11,400
Ladino	1962	12,000	300	3,600,000	lbs.	.60	2,160,000
Clover	1961	13,100	245	3,209,500	"	.55	1,765,000
Other	1962	500	475	238,000	"	.58	138,000
Clovers	1961	450	355	159,800	"	.46	73,500
Rice	1962	790	53	41,900	cwt.	6.60	276,000
	1961	570	55	31,400	"	6.50	204,100
Sudan	1962	520	18.5	9,620	"	7.00	67,300
	1961	1,320	11	14,500	"	6.00	87,000
Trefoil	1962	50	393	19,650	lbs.	.85	16,700
	1961	50	162	8,100	"	.75	6,100
Other Seed	1962			885,000	"		45,000
	1961			950,000	"		60,000
TOTAL	1962						\$2,769,800
	1961						\$2,239,900

APIARY PRODUCTS: PRODUCTION AND VALUE, 1961-1962

Item	Year	Production Total	Unit	Value	
				Per Unit	Total
Honey	1962	388,819	lbs.	.10	\$ 38,800
	1961	308,700	lbs.	.10	\$ 30,900
Beeswax	1962	9,440	lbs.	.45	4,300
	1961	8,020	lbs.	.45	3,600
Package Bees	1962	68,500	lbs.	1.40	95,900
	1961	61,036	lbs.	1.40	85,500
Queen Bees	1962	36,000	ea.	1.25	45,000
	1961	32,700	ea.	1.55	50,700
Pollination	1962				28,500
	1961				29,700
TOTAL	1962				\$212,500
	1961				\$200,400

**PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS
GLENN COUNTY, CALIFORNIA
RECAPITULATION**

	1962	1961
Field Crops	\$23,078,300	\$18,940,400
Livestock and Poultry	15,908,100	15,756,000
Dairy Products, Wool & Eggs	5,909,000	5,944,000
Fruit and Nut Crops	3,909,000	3,990,000
Seed Crops from Certified Sowed Seed	2,769,800	2,239,900
Vegetable Crops	457,000	194,400
Apiary Industry Crop	212,500	200,400
Nursery Products Total Income	83,300	41,000
TOTALS	\$51,727,000	\$47,306,100
GOVERNMENT PARTICIPATION:		
TOTALS	\$ 581,300*	\$ 581,300
FOREST PRODUCTS:		
Logs & Milled Lumber	\$ 3,150,000	\$ 2,700,000
LAND LEASE RENTAL GAS INDUSTRIES	\$ 250,000	\$ 270,000
GRAND TOTAL AGRICULTURAL INCOME	\$55,708,300	\$50,857,400
OTHER INCOME — Natural Gas		
1962	18,186,000	M. C. F.
1961	28,009,000	M. C. F.

*1961 Figure

PRODUCTION AND VALUE

Year	Rice Cwt.	Rice Value	Barley Cwt.	Barley Value	Ladino Seed Pounds	Ladino Seed Value
1940	409,000	\$ 511,000	317,500	\$ 259,000	119,000	\$ 9,000
1945	690,000	2,243,000	675,000	1,671,000	350,000	52,000
1950	900,000	4,050,000	651,000	1,510,000	2,280,000	2,730,000
1951	1,060,000	5,088,000	500,000	1,550,000	3,200,000	3,760,000
1952	1,500,000	9,000,000	500,000	1,700,000	4,650,000	4,500,000
1953	1,428,000	7,500,000	650,000	1,850,000	2,865,000	1,060,000
1954	1,400,000	6,300,000	750,000	1,800,000	1,915,000	1,050,000
1955	1,500,000	6,750,000	600,000	1,500,000	3,002,000	1,620,000
1956	1,500,000	6,400,000	750,000	1,690,000	3,050,000	1,525,000
1957	1,707,200	7,938,400	1,742,000	3,222,700	1,167,000	304,000
1958	1,629,000	6,744,000	653,000	1,450,200	2,044,800	1,022,400
1959	1,857,900	7,617,500	971,500	2,015,900	2,337,500	1,303,400
1960	1,874,900	7,989,600	1,020,000	2,040,000	2,612,200	1,750,200
1961	1,732,000	8,140,000	1,080,000	2,451,600	3,209,500	1,765,000
1962	2,132,000	10,660,000	1,476,000	3,173,000	3,600,000	1,160,000

Year	Prunes Pounds	Prunes Value	Olives Pounds	Olives Value	Oranges Boxes	Oranges Value
1940	2,584,000	\$ 97,500	2,276,000	\$ 96,500	103,500	\$ 207,000
1945	6,000,000	600,000	2,690,000	464,000	85,000	340,000
1950	3,300,000	418,000	3,123,000	558,000	78,000	234,000
1951	5,544,000	612,000	4,000,000	812,000	105,000	368,000
1952	5,750,000	630,000	3,650,000	580,000	86,000	350,000
1953	4,550,000	550,000	1,250,000	112,000	125,000	625,000
1954	7,800,000	877,000	5,000,000	375,000	120,000	490,000
1955	4,600,000	759,000	1,350,000	160,000	100,000	400,000
1956	7,500,000	900,000	6,165,000	308,000	90,500	428,000
1957	8,250,000	1,080,000	1,245,000	216,000	176,000	572,000
1958	8,500,000	1,572,500	1,240,000	72,000	240,000	840,000
1959	6,941,400	1,298,700	1,933,200	211,400	213,000	681,000
1960	5,046,000	983,700	5,158,000	373,900	53,400	146,800
1961	8,286,000	1,368,000	6,020,000	448,000	30,800	165,000
1962	8,100,000	1,175,000	3,968,000	397,000	169,000	596,000

Year	Hogs Head	Hogs Value	Lambs & Sheep Marketed Head	Wool Marketed Pounds	Sheep & Wool Value	Tr. Days Pounds
1940	35,000	\$ 436,000	106,700	1,245,000	\$ 1,110,500	1,693,000
1945	17,500	612,500	141,000	1,160,000	2,262,000	2,382,000
1950	28,000	1,175,000	110,000	1,000,000	3,526,000	1,265,000
1951	47,500	2,000,000	130,000	1,375,000	4,263,000	1,250,000
1952	52,000	1,672,000	169,000	1,630,000	4,753,000	1,325,000
1953	30,000	994,000	163,000	1,200,000	3,397,000	850,000
1954	20,000	720,000	150,000	1,200,000	3,140,000	1,140,000
1955	22,000	700,000	160,000	1,260,000	2,937,000	1,200,000
1956	19,000	650,000	160,000	1,100,000	3,195,000	1,000,000
1957	18,000	612,000	170,000	1,278,000	3,748,000	1,409,400
1958	18,200	612,000	174,000	1,300,000	3,827,000	1,374,200
1959	23,650	674,000	186,200	1,403,600	3,564,400	1,483,000
1960	26,400	852,000	181,000	1,207,400	3,489,000	1,061,700
1961	30,300	1,182,000	136,400	1,125,000	2,749,000	841,000
1962	24,450	1,076,000	111,000	1,189,000	2,775,000	1,656,000

PRINCIPAL COMMODITIES

	Other Field & Seed Crops Cwt.	Other Field & Seed Crops Value	Almonds Pounds	Almonds Value	Walnuts Pounds	Walnuts Value
	118,000	\$ 137,000	2,016,000	\$ 302,000	1,203,000	\$ 63,000
	97,000	309,000	1,900,000	741,000	542,000	90,000
	91,000	407,000	3,500,000	1,085,000	929,000	141,000
	66,000	361,000	3,500,000	1,050,000	1,166,000	212,000
	112,000	578,000	3,750,000	1,025,000	1,085,000	199,000
	223,000	895,000	3,300,000	780,000	920,000	155,000
	268,000	1,205,000	2,225,000	587,000	875,000	123,000
	502,000	2,842,000	1,150,000	460,000	800,000	214,000
	1,995,000	1,871,000	3,900,000	1,560,000	1,032,000	228,000
	2,095,000	1,230,000	2,125,000	1,170,000	594,200	143,000
	1,237,000	2,707,000	668,000	258,500	1,384,000	207,600
	1,380,000	2,848,000	6,595,500	1,481,800	815,000	194,200
	1,508,000	2,978,000	3,884,000	947,900	1,068,000	283,000
	1,441,000	2,553,000	5,040,000	1,361,000	1,180,000	263,000
	1,392,000	2,603,000	1,956,000	587,000	1,210,000	278,000

	Other Fruit Fresh & Dried Pounds	Other Fruit Fresh & Dried Value	Butterfat Pounds	Butterfat Value	Cattle & Calves Marketed Head	Cattle & Calves Value
	3,083,500	\$ 95,000	1,879,000	\$ 751,000	9,000	\$ 676,000
	4,649,000	328,000	3,343,500	2,841,000	24,500	1,636,500
	4,177,000	295,000	3,711,000	3,711,000	41,300	7,000,500
	7,562,000	440,000	3,807,000	3,970,000	44,200	8,294,500
	9,112,000	510,000	3,875,000	4,601,000	41,500	5,540,000
	5,700,000	376,000	4,802,000	5,010,000	43,500	3,755,000
	7,450,000	310,000	5,136,000	4,402,000	45,000	3,550,000
	7,837,000	320,000	5,485,000	4,831,000	45,000	3,925,000
	6,840,000	445,000	5,014,000	4,516,000	46,000	5,200,000
	5,389,100	444,000	5,510,000	4,787,000	46,500	6,446,000
	6,130,000	484,000	5,025,000	4,632,000	60,000	10,046,000
	3,513,000	303,200	4,573,100	4,539,000	62,000	9,530,800
	3,477,400	337,800	5,034,200	4,930,000	67,000	10,200,000
	7,534,000	370,000	5,040,000	5,004,000	73,500	12,121,000
	7,688,000	391,000	5,587,000	4,851,000	71,100	12,075,000

	Turkey & Eggs Value	Pounds Packaged Bees	Honey Tons	Bees & Honey Value	Lumber & Logs Bd. Feet	Lumber & Logs Value
	\$ 303,000	19,700	270	\$ 34,000		\$
	1,205,000	30,000	114	76,500	500,000	20,000
	547,000	25,000	144	63,500	7,000,000	240,000
	686,000	24,500	462	123,000	29,000,000	1,067,500
	697,000	26,500	450	131,500	23,000,000	1,647,500
	433,000	25,000	325	121,500	27,000,000	1,956,000
	599,000	25,000	325	95,000	32,000,000	2,000,000
	477,000	32,000	425	125,000	37,000,000	2,600,000
	436,000	38,000	400	143,000	39,500,000	2,902,000
	538,000	52,850	210	157,000	69,000,000	2,501,800
	551,000	60,300	333	204,200	71,500,000	3,515,000
	489,100	59,600	169	137,400	71,500,000	3,515,000
	446,400	56,900	114	173,800	71,500,000	3,515,000
	536,000	61,036	154	200,400	51,000,000	2,700,000
	482,000	68,500	194	212,500	67,500,000	3,150,000

GLENN COUNTY'S POSITION IN STATE PRODUCTION

Below is listed Glenn County's position in comparison to the 58 counties of California:

Glenn County ranks 25th in Agricultural Crop Value

Land area	35th
Ladino Clover Seed	1st
Hogs	3rd
Sheep and Lambs	3rd
Rice	4th
Permanent Pasture, irrigated acres	4th
Olives	4th
Safflower	7th
Almonds	9th
Barley	10th
Navel Oranges	11th
Prunes	11th
Cattle, All	12th
Pears	14th
Apricots	16th
Dairy Products	17th
Alfalfa Hay	18th
Honey	19th
Dry Beans	19th
Wheat	20th
Peaches	20th
Sugar Beets	21st
Walnuts	21st
Commercial Timber Land	28th

WILDLIFE	
Geese	4th
Ducks	4th
Muskrats	4th
Pheasants	9th
Deer	33rd

The following are commodities produced in the county that grossed over a million dollars each during 1962:

1. Cattle
2. Rice
3. Barley
4. Milled Lumber
5. Irrigated Pasture
6. Manufacturing Milk
7. Sheep and Lambs
8. Ladino Clover Seed
9. Alfalfa Hay
10. Market Milk
11. Prunes
12. Hogs
13. Safflower

PETROLEUM INCOME

Bee Hive Bend — One of the Largest Natural Gas Fields in California

Estimates rate Glenn County 4th richest per capita in the United States.

Population of Glenn County 20,200

AGRICULTURE INCOME TOTALS FOR 26 YEARS

Year	Amount	Year	Amount
1937	\$ 6,450,700	1951	39,005,000
1938	5,670,300	1952	42,473,700
1939	7,698,200	1953	33,267,000
1940	8,206,700	1954	31,364,000
1941	10,587,500	1955	34,570,000
1942	11,973,200	1956	37,970,000
1943	13,824,600	1957	43,000,000
1944	19,047,000	1958	45,448,000
1945	18,577,000	1959	47,987,800
1946	22,260,000	1960	49,355,600
1947	27,935,000	1961	50,857,400
1948	27,070,000	1962	55,708,000
1949	24,820,000		
1950	\$ 30,637,000	26 Year Total	\$745,763,700

United States Department of Agriculture Stabilization And Conservation Participation — 1962

SUPPORT PRICES ALLOWED FOR COMMODITIES (when put under loan or purchase agreement)

Barley	\$ 2.13 cwt.
Beans, Medium white	6.40 cwt.
Small white	7.33 cwt.
Red Kidney	8.51 cwt.
Pink	7.01 cwt.
Small red	7.23 cwt.
Pinto	6.08 cwt.
Large lima	10.05 cwt.
Baby lima	5.40 cwt.
Yellow corn	2.35 cwt.
Oats .....	.71 cwt.
Grain Sorghum (Discolored Discount .07 cwt.)	2.27 cwt.
Rice (20c premium for No. 1)	4.71 cwt.
Wheat	3.12 cwt.*
Honey .....	.095 lb.

COMMODITIES UNDER LOAN — 1962

Farm Storage Facility Loans	\$237,631.00	\$237,631.00
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DIRECT PARTICIPATION

Wool Incentive	\$298,670.00*	
Agriculture Conservation	78,839.00*	
Soil Bank	139,155.00*	
Sugar Beet Processor & Import	64,628.00*	\$581,292.00*

TOTAL UNITED STATES PARTICIPATION (Agriculture)		\$818,923.00
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*1961 Figure

PRINCIPAL AGRICULTURAL INDUSTRIES

	No.		No.
Rice Dryers, Public & Private	45	Sugar Beet Processing Plants	1
Commercial Warehouses	12	Flying Service Companies (pest control, grain seeding, fertilization, weed control, fire control) ..	6
Seed Milling & Processing Plants	5	Agricultural Chemical Fertilizer Companies	7
Feed Mills	4	Nurseries	10
Poultry Processing Plants	1	Sawmills	1
Livestock Auction Yards	3	Well Drilling Companies (water)	4
Commercial Feed Lots	12	Natural Gas Wells in Production	94
Slaughter Houses	4		
Milk Processing Plants	5		
Fruit & Nut Processing Plants	15		
Honey & Bee Packaging Plants	5		

Mendocino National Forest Headquarters, Willows
Sacramento Valley Wildlife Refuge, Willows
Glenn County Chamber of Commerce, Willows

ANNUAL RAINFALL AT WILLOWS, CALIFORNIA

84 YEARS — 1878-1962

Year	Inches	Year	Inches	Year	Inches
1878-1879	7.01	1906-1907	17.88	1934-1935	19.62
1879-1880	13.96	1907-1908	13.44	1935-1936	17.48
1880-1881	13.85	1908-1909	22.09	1936-1937	16.40
1881-1882	8.28	1909-1910	14.36	1937-1938	26.28
1882-1883	8.45	1910-1911	17.75	1938-1939	6.82
1883-1884	18.84	1911-1912	11.26	1939-1940	23.21
1884-1885	7.80	1912-1913	13.18	1940-1941	40.50
1885-1886	19.15	1913-1914	29.18	1941-1942	24.07
1886-1887	8.07	1914-1915	27.19	1942-1943	15.68
1887-1888	8.97	1915-1916	18.11	1943-1944	13.52
1888-1889	10.30	1916-1917	11.43	1944-1945	16.94
1889-1890	29.94	1917-1918	11.90	1945-1946	14.72
1890-1891	19.01	1918-1919	12.90	1946-1947	12.28
1891-1892	18.82	1919-1920	7.70	1947-1948	19.56
1892-1893	27.30	1920-1921	21.28	1948-1949	15.11
1893-1894	11.15	1921-1922	13.44	1949-1950	10.32
1894-1895	26.04	1922-1923	16.81	1950-1951	17.48
1895-1896	22.18	1923-1924	8.86	1951-1952	23.50
1896-1897	18.82	1924-1925	25.99	1952-1953	19.70
1897-1898	6.58	1925-1926	18.44	1953-1954	16.64
1898-1899	13.05	1926-1927	25.99	1954-1955	14.57
1899-1900	15.23	1927-1928	17.54	1955-1956	23.24
1900-1901	17.49	1928-1929	11.46	1956-1957	19.11
1901-1902	21.67	1929-1930	16.37	1957-1958	32.93
1902-1903	17.10	1930-1931	9.85	1958-1959	11.96
1903-1904	20.28	1931-1932	15.01	1959-1960	13.88
1904-1905	24.55	1932-1933	7.79	1960-1961	16.24
1905-1906	19.85	1933-1934	15.65	1961-1962	16.01

PLANT QUARANTINE

INTERSTATE SHIPMENTS: (incoming)	
Number of non-bulk shipments passed	536
Number of plants passed	16,296
Number of non-bulk shipments rejected	5
Number of plants rejected	891
EXPORT CERTIFICATION: (interstate and foreign, outgoing)	
Number of certificates issued	117
Number of containers	16,156
Number of pounds	1,479,881
INTERSTATE SHIPMENT: (incoming)	
Number of bulk shipments passed	14
Number of bulk units passed	1,119
Number of non-bulk shipments passed	356
Number of plants passed	98,916
Number of non-bulk shipments rejected	40
Number of plants rejected	657

RESOURCES

Lakes	Plaskett Meadows, Stony Gorge Dam and Packer Lake	5
County Parks		74
Forest Camp Grounds, Improved Units		24,500
Visitations annually to National Forest areas		221,568
National Forest Acreage		7,450
Elevation in Forest — Highest Point		

Kinds of Fish:

Mountain streams — Rainbow Trout, Steelhead
 Rivers — Striped Bass, Black Bass, Salmon, Shad,
 Catfish, Steelhead, Rainbow Trout, Sturgeon.

Lakes — Black Bass, Catfish, Sunfish, Crappie, Bluegill.

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	Estimated number of Predators	Reported killed by Licensed Hunters, Trappers and Others
Columbia Black Tail Deer	12,500	980
California Black Bear	200	10
Wild Ducks	1,750,000	—
Wild Geese	500,000	—
Ring-neck Pheasants	75,000	—
Calif. Valley & Mt. Quail	85,000	—
Mourning Doves	150,000	25
Band-tail Pigeons	10,000	50
Beaver	250	1
River Otter	20	—
Mountain Lions (State Bounty — Female \$60; Male \$50)	—	4
Coyotes (County Bounty \$10)	—	110
Bobcats	1,000	14
Badgers	3,000	2
Raccoons	150	150
Skunks	4,000	300
Mink	12,000	0
Grey Fox	200	8
Red Fox	8,000	5
Muskrats, trapped	2,000	3,000
Opposum	—	20

Glenn County has 18 State Licensed Trappers

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 and East Park Dam on Stony Creek.

	Acres
Irrigation Districts in Operation:	
Orland, U. S. Reclamation District — Stony Creek	20,000
Glenn-Colusa Irrigation District — Sacramento River	67,000
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	49,200
TOTAL ACREAGE UNDER IRRIGATION	172,720
Other Land Suitable For Irrigation:	
Orland-Artois Irrigation District	17,400
Kanawha Irrigation District	2,800
West of present irrigation systems	63,000
Butte City District, east of Sacramento River	25,000
Stony Creek Valley	4,436
West of Orland on Stony Creek, below proposed Black Butte Dam	15,000
Sloping land and foothill valleys	40,609
ADDITIONAL ACREAGE SUITABLE FOR IRRIGATION	168,245
TOTAL IRRIGABLE LAND IN GLENN COUNTY	340,965

Total Acreage in Glenn County	880,000
Acres in Farm Land	400,000
Land leveled for irrigation in 1962, 2,600 acres. Irrigation wells drilled 1962, 71.	
Acres in Range Land	206,000
Acres in National Forest	221,568
Acres of Commercial Timber Land	113,000
Board Feet of Standing Timber	3,000,000,000
Species of merchantable trees: Sugar Pine, Ponderosa (yellow) Pine, Douglas Fir, White Fir, Red Fir and Incense Cedar	

APIARY INSPECTION

	Apiaries	Colonies
Registered during 1962	178	5,668
Inspected	17	631
Infected with American Foulbrood	4	7
American Foulbrood to Wax Salvage Plant	4	7
Infected with European Foulbrood	1	1
Entering county	31	1,822
Leaving county	35	1,791
Moving within the county	50	1,839

The Following Table Was Compiled From Commercial Pest Control Operators' Reports And From Permits Issued To Private Farm And Orchard Operators.

Crop	Acreage Treated By Aircraft		Acreage Treated By Ground Rig		Total Acreage Treated
	Herbicides	Insecticides	Herbicides	Insecticides	
FIELD CROPS:					
Rice	39,261	19,301			58,562
Yellow Corn	129		52		181
Barley	12,222		3,948		16,170
Oats	35		392		427
Sorghum Grain	1,186		465		1,651
Alfalfa	710	5,944	73	324	7,051
Clover	8,552	6,941	6,218	1,529	23,240
Beans		1,304		56	1,360
Other Field Crops ..	646	420	440		1,500
FRUITS & NUTS:					
Almonds		20	257	582	859
Walnuts		183		290	473
Prunes		1,430		292	1,722
Pears		195		360	555
Sub-tropical Fruits		233		20	253
MISCELLANEOUS:					
Weeds & Summer					
Fallow	200		582		782
Tomatoes		1,241			1,241
Roses		362			362
Totals	62,935	37,574	12,427	3,453	116,389

1,102,864 lbs. of seed grain was treated by Commercial Pest Control Operators.

CHEMICALS AND POISONS USED BY THIS DEPARTMENT

RODENT AND PEST

ANIMAL CONTROL:

6,429 Pounds strychnine-treated bait
 5,257 Pounds anti-coagulant bait
 22 Pounds "1080" treated bait
 3 Pints Toxaphene
 1 Quart Endrin

WEED CONTROL:

30 Pounds Amino Triazole
 70 Quarts Amitrole T
 20 Pounds Atrazine 80W
 350 Pounds Chlorea
 75 Pounds Dowpon
 358 Gallons diesel oil
 19 Pounds Karmex
 200 Pounds Polybor-chlorate
 2 Quarts Sinox
 200 Gallons sodium arsenite
 142 Quarts 2,4-D
 60 Pounds Simazine
 8 Quarts Trysben
 2 Quarts VPM
 150 Gallons weedoil
 5 Quarts X-77 spreader

INSECT AND FUNGUS CONTROL:

70 Pounds BHC
 39 Pints Chlordane
 61 Pounds Chlordane dust
 18 Pounds COCS
 8 Ounces Cyanogas
 54 Pounds DDT
 23 Gallons DDT (Liquid)
 28 Pounds Diazinon
 11 Pints Dieldrin
 5 Pounds Dieldrin dust
 846 Pounds Dieldrin-treated bran
 1 Quart Endrin
 20 Pounds Lead Arsenate
 11 Pounds Malathion
 10 Gallons Malathion
 2 CC's Methyl Bromide
 2 Pounds PDB
 1 Quart Pyrethium
 64 Gallons summer oil
 11 Pints Tigress insecticide
 11 Cans Raid insecticide
 10 Ounces X-77 spreader

1962—Ten Most Important Insect/Mite Species—Glenn County

INSECT	Crop (s)	County Crop Value (\$)	Estimated Damage and Loss			
			Assessable Yield Loss (\$)	Control Cost (\$)	% Loss of Crop Value	Estimated Over-all Loss (\$)
Spider Mites	Beans, clover & orchards	\$ 6,800,000	\$402,000	\$74,000	7%	\$476,000
Lygus Bugs	Clover, Alfalfa & Safflower	5,030,000	365,000	88,000	9%	453,000
Grain Storage Insects	Stored Grain	15,262,000	210,000	19,000	1½%	229,000
Tadpole Shrimp & Scavenger Beetle	Rice	10,766,000	126,000	35,000	1½%	161,000
Armyworms	Clover, Sorghum & Pasture	4,322,000	79,000	36,000	2½%	108,000
Thrips	Safflower	1,050,000	84,000	2,000	8%	84,000
Spotted Alfalfa Aphid	Alfalfa	1,820,000	73,000	2,000	4%	73,000
Navel Orange Worm	Almonds & Walnuts	937,000	26,000	30,000	6%	56,000
Leaf Miner	Rice	10,766,000	29,000	25,000	½%	54,000
Corn Earworm	Tomatoes	470,000	7,000	7,000	3%	14,000

REPORT ON WEIGHTS AND MEASURES WORK — 1962

The following equipment was tested and	Sealed WITHOUT Correction	Sealed AFTER Correction	Out of Order
Abattoir Scales	3	1	0
Animal Scales (single animal)	0	0	1
Computing Scales	83	12	5
Counter Scales	39	3	0
Dormant Scales	8	9	2
Hopper Scales	3	1	0
Livestock Scales	44	17	22
Meat Beams & Steelyards	5	3	0
Person Weighers	2	1	0
Platform Scales	77	29	7
Prescription Scales	0	3	0
Railway Track Scales	2	0	0
Spring Scales	16	2	0
Tank Scales	0	1	0
Vehicle Scales	28	15	7
Weights, Commercial	260	4	0
Farm Holding Tanks	5	18	9
Liquid Measures	1	3	0
Retail Pumps & Meters	116	15	10
Vehicles Measured For Capacity	1	0	0
Totals	693	137	66

Packages or containers inspected: 633.

Lots passed: 12. Lots rejected: 1. Packages passed: 593.

Packages rejected: 4; packages short - 30, packages overweight - 6, released after correction.

Number of complaints received: 4. Number of investigations: 4.

Number of hearings held: 1.

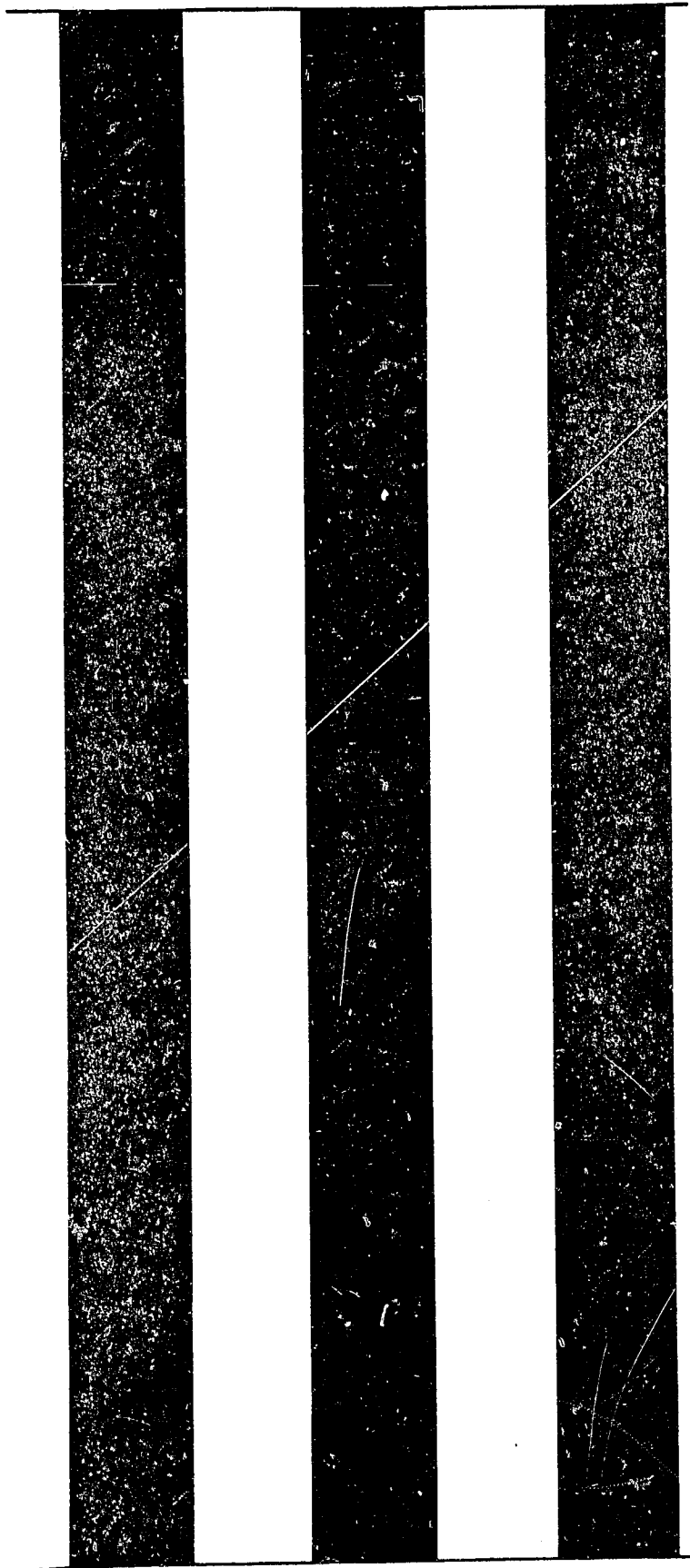
Number of containers Off-Sale (No content declaration): 149.

Number of container and pallet tares recommended: 1.

Number of violations "Advertising Provisions of Section 12024.5": 2.

Total number of establishments visited: 536.

Total number of certificates issued: 338.



1963

ANNUAL CROP AND LIVESTOCK REPORT

LELAND BROWN
Agricultural Commissioner



GLENN COUNTY DEPARTMENT OF AGRICULTURE

Memorial Building

Willows, California

**ANNUAL CROP
AND LIVESTOCK REPORT**

1963

LELAND BROWN

Agricultural Commissioner

BOARD OF SUPERVISORS

William C. Reimers, Chairman

C. E. Polzin
John F. Fiack

Ralph Colbert
Walter E. Soeth

COUNTY OF GLENN

WILLOWS, CALIFORNIA

W. LELAND BROWN
Agriculture Commissioner
Sealer of Weights and Measures

Office
MEMORIAL BUILDING
Area Code 916 • Phone 934-4651

Mr. Charles Paul, Director
California State Department of Agriculture
and
The Honorable Board of Supervisors
County of Glenn

Gentlemen:

This is the 27th Annual Crop and Livestock Report compiled in accordance with Section 65.5 of The California Agricultural Code.

The total estimated value of all agricultural commodities produced in Glenn County during 1963 amounted to \$41,059,100. This is \$2,258,200 less than the 1962 revised estimate of \$43,317,300. Nearly all major commodities declined in value except for the seed industry, which showed a slight increase.

Methods of computing production and value have been changed to conform with recommended state reporting procedures. The 1962 figures have been revised to add continuity to the 1962 and 1963 estimates.

The value figures presented in this report represent the gross farm income of agricultural production, and do not reflect net income to the producers. Cost of production, harvesting, packing and other costs should be deducted to arrive at a true net value.

I wish to express my appreciation to all individuals and organizations who so willingly cooperated with me and my staff in contributing the necessary information for this report.

Respectfully submitted,

Leland Brown

LELAND BROWN
Agricultural Commissioner

PRODUCTION AND VALUE OF AGRICULTURAL PRODUCTS
Glenn County, California
FIELD CROPS: ACREAGE, PRODUCTION AND VALUE, 1962-1963

Crop	Year	Harvested acreage	Production		Unit	Value	
			Per acre	Total		Per Unit	Total
Barley	1963	52,000	.90	46,800	Ton	\$ 46.00	\$ 2,153,000
	1962*	48,000	1.00	48,000	"	43.00	2,064,000
Beans	1963	500	.70	350	"	187.00	65,400
	1962	960	.90	864	"	160.00	138,000
Corn, Field	1963	1,800	2.25	4,050	"	52.00	211,000
	1962*	1,500	2.00	3,000	"	50.00	150,000
Hay**							
Alfalfa	1963	17,100	5.25	89,800	"	27.00	2,425,000
	1962	17,200	5.50	94,600	"	22.00	2,081,000
Clover	1963	11,000	1.00	11,000	"	20.00	220,000
	1962*	12,000	1.00	12,000	"	16.00	192,000
Other	1963	10,000	2.25	22,500	"	20.00	450,000
	1962*	9,500	2.50	23,800	"	17.00	405,000
Oats	1963	1,000	.75	750	"	48.00	36,000
	1962	1,700	.86	1,460	"	40.00	58,400
Pasture							
Irrigated	1963	74,000			Acre	40.00	2,960,000
	1962	74,000			"	40.00	2,960,000
Range	1963	250,000			"	2.50	625,000
	1962	250,000			"	2.50	625,000
Stubble	1963	60,000			"	2.00	120,000
	1962	90,000			"	2.00	180,000
Rice***							
	1963	40,800	2.40	97,900	Ton	101.00	9,888,000
	1962*	40,000	2.60	104,000	"	100.00	10,400,000
Safflower	1963	16,400	.75	12,300	"	80.00	984,000
	1962*	21,500	.49	10,500	"	100.00	1,050,000
Sorghum	1963	9,500	1.90	18,000	"	41.00	738,000
	1962*	10,000	1.75	17,500	"	40.00	700,000
Grain	1963	2,150	18.70	40,300	"	12.00	484,000
	1962*	1,490	18.20	27,100	"	12.00	350,000
Sugar Beets	1963	2,300	.60	1,380	"	63.00	86,900
	1962*	2,500	1.10	2,750	"	72.00	198,000
Miscellaneous	1963						325,000
	1962*						457,000
TOTALS	1963						\$21,771,300
	1962*						\$22,008,400

* Revised.
** Includes green chop and silage on dry weight basis.
*** Additional rice acreage grown for certified seed.

FRUIT & NUT CROPS: ACREAGE, PRODUCTION AND VALUE, 1962-1963

Crop	Year	Bearing acreage	Production		Unit	Value	
			Per acre	Total		Per Unit	Total
Almonds	1963	3,287	.134	440	Ton	\$500.00	\$ 220,000
	1962	3,260	.30	978	"	600.00	587,000
Apricots	1963	137	1.39	190	"	115.00	21,800
	1962	137	3.90	534	"	120.00	64,000
Olives	1963	1,032	1.21	1,250	"	150.00	188,000
	1962	992	2.00	1,980	"	200.00	397,000
Oranges	1963	609	10.20	6,240	"	142.00	886,000
	1962	604	7.00	4,230	"	141.00	596,000
Plums (new crop)	1963	69	1.38	95	"	123.00	117,000
	1962						
Prunes (dry basis)	1963	1,750	2.28	3,990	"	290.00	1,157,000
	1962*	1,610	2.52	4,050	"	290.00	1,174,000
Pears	1963	231	8.87	2,050	"	110.00	226,000
	1962	209	11.00	2,300	"	80.00	184,000
Walnuts	1963	1,080	.49	532	"	485.00	258,000
	1962	961	.63	605	"	460.00	278,000
Miscellaneous Fruits & Nuts	1963	40					4,500
	1962	71					19,100
Black Walnuts Almond Hulls, Fruit Pits, etc.	1963						7,000
	1962						9,800
TOTALS	1963						\$3,085,300
	1962*						\$3,308,900

* Revised.

NURSERY PRODUCTS: PRODUCTION AREA, SALES & VALUE, 1962-1963

Item	Year	Production area		Quantity sold by Producers	Unit	Value	
		Field acres	House sq. ft.			Per Unit	Total
Nursery Crops	1963						\$175,000
	1962						83,300
TOTAL	1963						\$175,000
	1962						\$ 83,300

SEED CROPS: ACREAGE, PRODUCTION AND VALUE, 1962-1963

Crop	Year	Harvested acreage	Production		Unit	Value	
			Per acre	Total		Per Unit	Total
Alfalfa	1963	2,760	320	884,000	lbs.	\$.30	\$ 265,000
	1962*	350	451	158,000	"	.38	60,000
Barley	1963	66	20	1,320	cwt.	2.50	3,300
	1962	75	36	2,700	"	2.50	6,800
Ladino Clover	1963	10,700	392	4,195,000	lbs.	.482	2,022,000
	1962	12,900	300	3,600,000	"	.60	2,160,000
Other Clovers	1963	660	445	294,000	"	.39	115,000
	1962*	500	476	238,000	"	.55	131,000
Rice	1963	1,000	55	55,000	cwt.	7.00	385,000
	1962	790	53	41,900	"	6.60	276,000
Sudan	1963	800	17.2	13,800	"	5.58	77,000
	1962	520	18.5	9,620	"	7.00	67,300
Trefoil	1963	50	320	16,000	lbs.	1.00	16,000
	1962*	50	392	19,600	"	.85	16,700
Other Seed	1963						45,100
	1962*						59,200
TOTALS	1963						\$2,928,400
	1962*						\$2,777,000

* Revised figures.

APIARY PRODUCTS: PRODUCTION AND VALUE, 1962-1963

Item	Year	Production Total	Unit	Value	
				Per Unit	Total
Honey	1963	549,000	lbs.	.13	\$ 71,400
	1962	389,000	"	.10	38,900
Beeswax	1963	11,900	"	.42	5,000
	1962	9,400	"	.45	4,200
Package Bees	1963	82,000	"	1.35	111,000
	1962	68,500	"	1.40	95,900
Queen Bees	1963	35,600	ea.	1.25	44,500
	1962	36,000	ea.	1.25	45,000
Pollination	1963				32,000
	1962				28,500
TOTALS	1963				\$263,900
	1962				\$212,500

LIVESTOCK AND POULTRY: PRODUCTION AND VALUE, 1962-1963

Item	Year	Production		Unit	Value	
		No. of Head	Total Liveweight		Per Unit	Total
Cattle and calves	1963	32,100	238,000	cwt.	19.50	\$4,634,000
	1962*	40,000	290,000	"	21.50	6,235,000
Sheep and lambs	1963	116,000	110,000	"	16.20	1,782,000
	1962*	111,000	105,000	"	16.50	1,732,000
Hogs and pigs	1963	20,700	31,000	"	17.60	546,000
	1962*	24,400	36,600	"	20.00	732,000
Chickens all	1963	30,000	150,000	lbs.	.07	10,500
	1962*	35,000	175,000	"	.07	12,200
Turkeys	1963	94,600	1,783,000	"	.22	392,000
	1962*	87,900	1,656,000	"	.20	331,000
Horses and mules	1963					20,000
	1962*					25,000
TOTALS	1963					\$7,384,500
	1962*					\$9,067,200

* Revised figures.

**LIVESTOCK AND POULTRY PRODUCTS:
PRODUCTION AND VALUE, 1962-1963**

Item	Year	Production	Unit	Value	
				Per Unit	Total
Milk, all	1963	1,234,000	cwt.	\$3.74	\$4,615,000
	1962	1,283,000	"	3.75	4,806,000
Market	1963	448,000	"	4.60	2,061,000
	1962*	427,000	"	4.64	1,981,000
Manufacturing	1963	786,000	"	3.25	2,554,000
	1962	856,000	"	3.30	2,825,000
Wool	1963	1,155,000	lbs.	.54	624,000
	1962*	1,189,000	"	.48	571,000
Eggs, Chicken (Market)	1963	262,000	Doz.	.35	91,700
	1962	606,000	"	.36	218,000
Eggs, Turkey (Hatching)	1963	600,000	ea.	.20	120,000
	1962	1,060,000	"	.25	265,000
TOTALS	1963				\$5,450,700
	1962*				\$5,860,000

* Revised figures.

JANUARY 1, INVENTORIES OF LIVESTOCK AND POULTRY, 1963-1964

(in number of head)

Item	January 1, 1963*	January 1, 1964
Cattle and calves		
All	72,700	82,000
Milk cows, 2 years and over	18,200	18,000
Cattle and calves on feed	6,200	6,890
Stock sheep	120,600	115,800
Hogs and pigs	14,200	14,800
Hens and pullets of laying age	41,000	22,000
Turkey breeder hens	14,500	15,000

* Revised

VALUE OF AGRICULTURAL PRODUCTION

Glenn County, California

RECAPITULATION

	1963	1962*
Field Crops	\$21,771,300	\$22,008,400
Livestock and Poultry	7,384,500	9,067,200
Dairy Products, Wool and Eggs	5,450,700	5,860,000
Fruit and Nut Crops	3,085,300	3,308,900
Seed Crops	2,928,400	2,777,000
Apiary Industry	263,900	212,500
Nursery Products	175,000	83,300
GRAND TOTAL AGRICULTURAL INCOME	\$41,059,100	\$43,317,300

* Revised

GLENN COUNTY'S TEN LEADING AGRICULTURAL COMMODITIES

As Compared With Other Counties of The State

Commodity	Value	State Standing
(1) Rice	\$10,273,000	4th
(2) Cattle and Calves	4,634,000	21st
(3) Dairy Products	4,615,000	19th
(4) Alfalfa Hay	2,425,000	18th
(5) Barley	2,153,000	10th
(6) Ladino Clover Seed	2,022,000	1st
(7) Sheep and Lambs	1,782,000	6th
(8) Prunes	1,157,000	10th
(9) Safflower	984,000	8th
(10) Oranges	886,000	10th

ANNUAL RAINFALL AT WILLOWS, CALIFORNIA

85 Years — 1878-1963

Year	Inches	Year	Inches	Year	Inches
1878-1879	7.01	1907-1908	13.44	1935-1936	17.48
1879-1880	13.96	1908-1909	22.09	1936-1937	16.40
1880-1881	13.85	1909-1910	14.36	1937-1938	26.28
1881-1882	8.28	1910-1911	17.75	1938-1939	6.82
1882-1883	8.45	1911-1912	11.26	1939-1940	23.21
1883-1884	18.84	1912-1913	13.18	1940-1941	40.50
1884-1885	7.80	1913-1914	29.18	1941-1942	24.07
1885-1886	19.15	1914-1915	27.19	1942-1943	15.68
1886-1887	8.07	1915-1916	18.11	1943-1944	13.52
1887-1888	8.97	1916-1917	11.43	1944-1945	16.94
1888-1889	10.30	1917-1918	11.90	1945-1946	14.72
1889-1890	29.94	1918-1919	12.90	1946-1947	12.28
1890-1891	19.01	1919-1920	7.70	1947-1948	19.58
1891-1892	18.82	1920-1921	21.28	1948-1949	15.82
1892-1893	27.30	1921-1922	13.44	1949-1950	10.32
1893-1894	11.15	1922-1923	16.81	1950-1951	17.48
1894-1895	26.04	1923-1924	8.86	1951-1952	23.50
1895-1896	22.18	1924-1925	25.99	1952-1953	19.70
1896-1897	18.82	1925-1926	18.44	1953-1954	16.64
1897-1898	6.58	1926-1927	25.99	1954-1955	14.57
1898-1899	13.05	1927-1928	17.54	1955-1956	23.24
1899-1900	15.23	1928-1929	11.46	1956-1957	19.11
1900-1901	17.49	1929-1930	16.37	1957-1958	32.93
1901-1902	21.67	1930-1931	9.85	1958-1959	11.96
1902-1903	17.10	1931-1932	15.01	1959-1960	13.88
1903-1904	20.28	1932-1933	7.79	1960-1961	16.24
1904-1905	24.55	1933-1934	15.65	1961-1962	16.01
1905-1906	19.85	1934-1935	19.62	1962-1963	20.48
1906-1907	17.88				

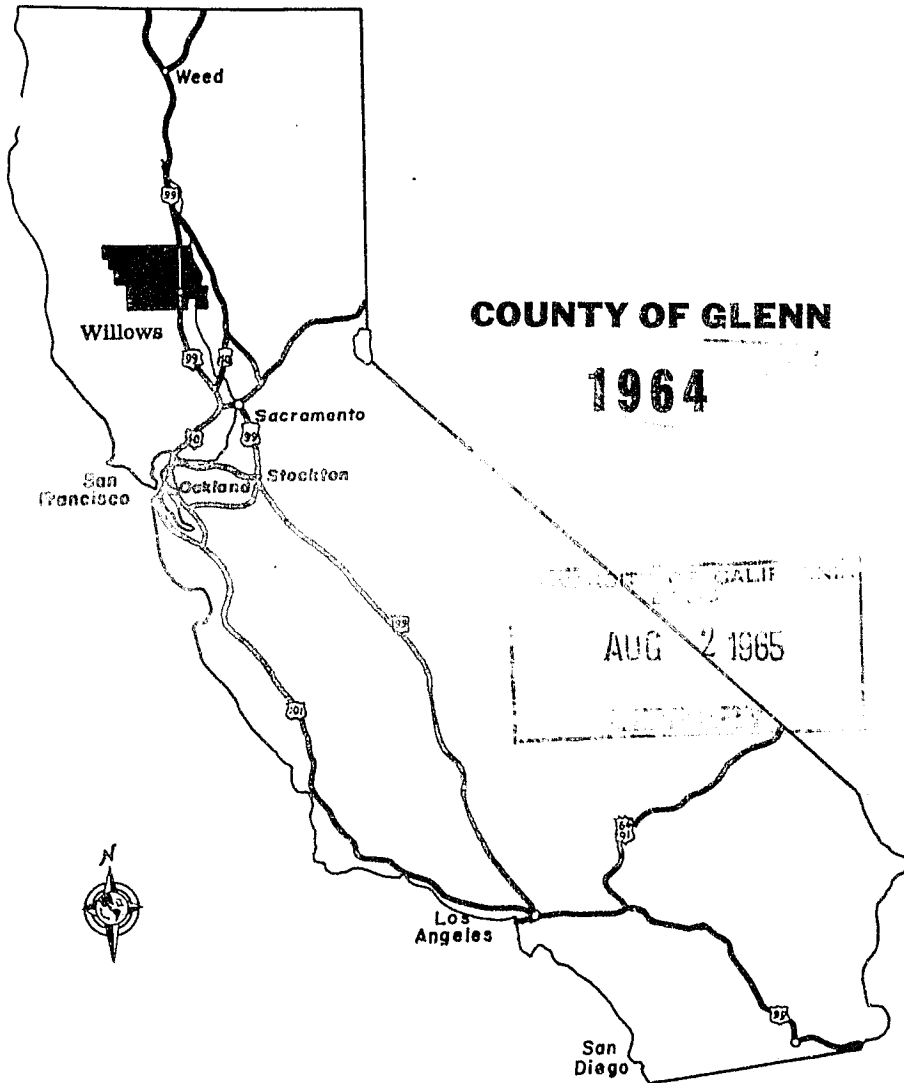
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1964

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ANNUAL CROP AND LIVESTOCK REPORT

LELAND BROWN
Agricultural Commissioner



GLENN COUNTY DEPARTMENT OF AGRICULTURE

Memorial Building

WILLOWS, CALIFORNIA

**ANNUAL CROP
AND LIVESTOCK REPORT
1964**

LELAND BROWN

Agricultural Commissioner

Board of Supervisors

William C. Reimers, Chairman

C. E. Polzin
John F. Fiack

Ralph Colbert
Walter E. Soeth

COUNTY OF GLENN

Department of Agriculture

Phone 916 934-4651
525 West Sycamore Street
WILLOWS, CALIFORNIA 95988

W. LELAND BROWN
COMMISSIONER
Sealer of Weights and Measures

May 1, 1965

Mr. Charles Paul, Director
California State Department of Agriculture
and
The Honorable Board of Supervisors
County of Glenn

Gentlemen:

This Annual Crop and Livestock Report is compiled in accordance with Section 65.5 of the California Agricultural Code.

The total estimated value of all agricultural commodities produced in Glenn County during 1964 amounted to \$43,683,410. This is \$2,721,610 more than the 1963 revised estimate of \$40,961,800. Nearly all major commodities increased in value except for the seed and livestock industries, which showed a decrease.

The value figures presented in this report represent the gross farm income of agricultural production, and do not reflect net income to the producers. Cost of production, harvesting, packing and other costs should be deducted to arrive at a true net value.

I wish to express appreciation to all individuals and organizations who so willingly cooperated in contributing the necessary information for this report.

Respectfully submitted,

Leland Brown

LELAND BROWN
Agricultural Commissioner

**Production and Value of Agricultural Products
Glenn County, California**

FIELD CROPS Acreage, Production and Value, 1963-1964

Crop	Year	Harvested Acreage	Production		Unit	Value	
			Per acre	Total		Per Unit	Total
Barley	1964	50,000	1.10	55,000	Tons	\$ 48.00	\$ 2,640,000
	1963	52,000	.90	46,800	"	46.00	2,153,000
Beans and Field Peas	1964	400	.70	280	"	204.00	57,100
	1963	500	.70	350	"	187.00	65,400
Corn, Field	1964	1,860	2.70	5,020	"	52.00	261,000
	1963	1,800	2.25	4,050	"	52.00	211,000
Alfalfa	1964	18,800	6.50	122,000	"	25.00	3,055,000
	1963	17,100	5.25	89,800	"	27.00	2,425,000
Clover	1964	8,000	1.00	8,000	"	20.00	160,000
	1963	11,000	1.00	11,000	"	20.00	220,000
Other	1964	9,000	2.25	20,200	"	17.00	343,000
	1963	10,000	2.25	22,500	"	20.00	450,000
Oats	1964	300	.70	210	"	50.00	10,500
	1963	1,000	.75	750	"	48.00	36,000
Pasture Irrigated	1964	70,000			Acres	40.00	2,800,000
	1963	74,000			"	40.00	2,960,000
Range	1964	250,000			"	2.00	500,000
	1963	250,000			"	2.50	625,000
Stubble	1964	60,000			"	2.00	120,000
	1963	60,000			"	2.00	120,000
Rice*	1964	42,000	2.60	109,000	Tons	100.00	10,900,000
	1963	40,800	2.40	97,900	"	101.00	9,888,000
Safflower	1964	10,500	.60	6,300	"	75.00	472,000
	1963	16,400	.75	12,300	"	80.00	984,000
Sorghum (Grain)	1964	11,000	2.50	27,500	"	42.00	1,155,000
	1963	9,500	1.90	18,000	"	41.00	738,000
Sugar Beets	1964	2,420	17.20	42,000	"	12.20	512,000
	1963	2,150	18.70	40,300	"	12.00	484,000
Wheat	1964	1,700	1.00	1,700	"	52.00	88,400
	1963	2,300	.60	1,380	"	63.00	86,900
Miscellaneous	1964						10,000
	1963						325,000
TOTAL	1964						\$23,084,000
	1963						21,771,300

* Additional acreage for seed.

**Production and Value of Agricultural Products
Glenn County, California**

**FRUIT & NUT CROPS:
Acreage, Production and Value, 1963-1964**

Crop	Year	Bearing Acreage	Production		Unit	Value	
			Per acre	Total		Per Unit	Total
Almonds	1964	3,526	.65	2,290	Tons	\$600.00	\$ 1,374,000
	1963	3,287	.134	440	"	500.00	220,000
Apricots	1964	137	5.47	750	"	118.00	88,500
	1963	137	1.39	190	"	115.00	21,800
Olives	1964	1,300	1.30	1,690	"	140.00	236,600
	1963	1,032	1.21	1,250	"	150.00	188,000
Oranges	1964	629	9.05	5,690	"	110.00	626,000
	1963	609	10.25	6,240	"	142.00	886,000
Plums	1964	69	2.78	192	"	115.00	22,100
	1963*	69	1.38	95	"	123.00	11,700
Prunes (dry basis)	1964	2,028	2.92	5,920	"	250.00	1,480,000
	1963	1,750	2.28	3,990	"	290.00	1,157,000
Pears	1964	252	15.00	3,780	"	97.00	367,000
	1963	231	8.87	2,050	"	110.00	226,000
Walnuts	1964	1,129	.70	790	"	455.00	359,000
	1963	1,080	.49	530	"	485.00	257,000
Miscellaneous	1964	45					10,800
Fruits & Nuts	1963	40					4,500
Black Walnuts,	1964						11,000
Almond Hulls, Fruit Pits, Etc.	1963						7,000
TOTAL	1964						\$ 4,575,000
	1963						2,979,000

* Revised.

**VEGETABLE CROPS:
Acreage, Production and Value, 1963-1964**

Crop	Year	Harvested Acreage	Production		Unit	Value	
			Per acre	Total		Per Unit	Total
Tomatoes	1964	740	17.60	13,000	Tons	\$ 26.50	\$ 344,000
	1963						*
TOTAL	1964						\$ 344,000
	1963						*

* Included in other crops.

**Production and Value of Agricultural Products
Glenn County, California**

**SEED CROPS:
Acreage, Production and Value, 1963-1964**

Crop	Year	Harvested Acreage	Production		Unit	Value	
			Per acre	Total		Per Unit	Total
Alfalfa	1964	2,120	390	827,000	Lbs.	\$.33	\$ 273,000
	1963	2,760	320	884,000	"	.30	265,000
Barley	1964	31	25.5	790	Cwt.	2.50	2,000
	1963	66	20	1,320	"	2.50	3,300
Ladino Clover	1964	7,520	363	2,730,000	Lbs.	.521	1,422,000
	1963	10,700	392	4,195,000	"	.482	2,022,000
Other Clovers	1964	649	492	319,000	"	.52	166,000
	1963	660	445	294,000	"	.39	115,000
Rice	1964	720	54	38,900	Cwt.	7.00	272,000
	1963	1,000	55	55,000	"	7.00	385,000
Sudan	1964	1,110	15	16,700	"	5.25	87,500
	1963	800	17.2	13,800	"	5.58	77,000
Trefoil	1964	65	223	14,500	Lbs.	.90	13,000
	1963	50	320	16,000	"	1.00	16,000
Other Seed	1964						40,000
	1963						45,100
TOTAL	1964						\$ 2,275,500
	1963						2,928,400

**APIARY PRODUCTS:
Production and Value, 1963-1964**

Item	Year	Production	Unit	Value	
		Total		Per Unit	Total
Honey	1964	291,000	Lbs.	\$.12	\$ 34,900
	1963	549,000	"	.13	71,400
Beeswax	1964	5,880	"	.43	2,530
	1963	11,900	"	.42	5,000
Package Bees	1964	97,500	"	1.50	146,000
	1963	82,000	"	1.35	111,000
Queen Bees	1964	49,700	Ea.	1.35	67,100
	1963	35,600	"	1.25	44,500
Pollination	1964				39,700
	1963				32,000
TOTAL	1964				\$ 290,230
	1963				263,900

**Production and Value of Agricultural Products
Glenn County, California**

**LIVESTOCK and POULTRY:
Production and Value, 1963-1964**

Item	Year	Production		Unit	Value	
		No. of head	Total live wt.		Per Unit	Total
Cattle and calves	1964	37,500	265,700	Cwt.	\$ 17.00	\$ 4,520,000
	1963	32,100	238,000	"	19.50	4,640,000
Sheep and lambs	1964	123,000	116,000	"	17.80	2,065,000
	1963	116,000	110,000	"	16.20	1,782,000
Hogs and pigs	1964	21,200	27,200	"	15.00	408,000
	1963	20,700	31,000	"	17.60	546,000
Chickens, all	1964	21,000	84,000	Lbs.	.07	5,880
	1963	30,000	150,000	"	.07	10,500
Turkeys	1964	40,000	760,000	"	.23	175,000
	1963	94,600	1,783,000	"	.22	392,000
Horses and mules	1964					25,000
	1963					20,000
TOTAL	1964					\$ 7,198,880
	1963					7,390,500

**LIVESTOCK and POULTRY PRODUCTS:
Production and Value, 1963-1964**

Item	Year	Production	Unit	Value	
				Per Unit	Total
Milk, all	1964	1,245,000	Cwt.	\$ 3.96	\$ 4,935,000
	1963*	1,229,000	"	3.76	4,618,000
Market	1964	574,000	"	4.53	2,600,000
	1963*	453,000	"	4.61	2,088,000
Manufacturing	1964	671,000	"	3.48	2,335,000
	1963*	776,000	"	3.26	2,530,000
Wool	1964	1,220,000	Lbs.	.54	659,000
	1963	1,155,000	"	.54	624,000
Eggs, chicken (market)	1964	168,000	Doz.	.35	58,800
	1963	262,000	"	.35	91,700
Eggs, turkey (hatching)	1964	600,000	Ea.	.23	138,000
	1963	600,000	"	.20	120,000
TOTAL	1964				\$ 5,790,800
	1963				5,453,700

* Revised.

**Production and Value of Agricultural Products
Glenn County, California**

**January 1, Inventories of Livestock and Poultry,
1963-1964
(in number of head)**

Item	January 1, 1964	January 1, 1965
Cattle and calves	82,000	76,300
All	18,000	17,300
Milk cows 2 years and over	8,940	4,280
Cattle and calves on feed	115,800	108,900
Stock sheep	14,200	10,100
Hogs and pigs	22,000	15,000
Chickens and pullets of laying age	15,000	14,000
Turkey Breeder hens		

**NURSERY PRODUCTS:
Production Area, Sales and Value, 1963-1964**

Item	Year	Production Area		Quantity	Unit	Value	
		Field acres	House sq. ft.			Per Unit	Total
Nursery Crops	1964						\$ 125,000
	1963						175,000
TOTAL	1964						\$ 125,000
	1963						175,000

**VALUE OF AGRICULTURAL PRODUCTION
Glenn County, California**

RECAPITULATION

	1964	1963
Field Crops	\$23,084,000	\$ 21,771,300
Livestock and Poultry	7,198,880	7,390,500
Dairy Products, Wool and Eggs	5,790,800	5,453,700*
Fruit and Nut Crops	4,575,000	2,979,000*
Seed Crops	2,275,500	2,928,400
Apiary Industry	290,230	263,900
Nursery Products	125,000	175,000
Vegetable Crops	744,000	.....
GRAND TOTAL Agricultural Income	\$ 43,683,410	\$ 40,961,800*

* Revised.

Glenn County's Ten Leading Agricultural Commodities

As Compared With Other Counties of The State

COMMODITY	1964 Value	State Standing* 1963
(1) Rice	\$11,172,000	4th
(2) Dairy Products	4,935,000	19th
(3) Cattle and Calves	4,520,000	26th
(4) Alfalfa Hay	3,055,000	18th
(5) Barley	2,640,000	12th
(6) Sheep and Lambs	2,065,000	5th
(7) Prunes	1,480,000	11th
(8) Ladino Clover Seed	1,422,000	1st
(9) Almonds	1,374,000	17th
(10) Sorghum (grain)	1,155,000	13th

* 1964 standing not available.

Annual Rainfall At Willows, California 86 Years -- 1878-1964

Year	Inches	Year	Inches	Year	Inches
1878-1879	7.01	1907-1908	13.44	1936-1937	16.40
1879-1880	13.96	1908-1909	22.09	1937-1938	26.28
1880-1881	13.85	1909-1910	14.36	1938-1939	6.82
1881-1882	8.28	1910-1911	17.75	1939-1940	23.21
1882-1883	8.45	1911-1912	11.26	1940-1941	40.50
1883-1884	18.84	1912-1913	13.18	1941-1942	24.07
1884-1885	7.80	1913-1914	29.18	1942-1943	15.68
1885-1886	19.15	1914-1915	27.19	1943-1944	13.52
1886-1887	8.07	1915-1916	18.11	1944-1945	16.94
1887-1888	8.97	1916-1917	11.43	1945-1946	14.77
1888-1889	10.30	1917-1918	11.90	1946-1947	12.2
1889-1890	29.94	1918-1919	12.90	1947-1948	19.56
1890-1891	19.01	1919-1920	7.70	1948-1949	15.59
1891-1892	18.82	1920-1921	21.28	1949-1950	10.32
1892-1893	27.30	1921-1922	13.44	1950-1951	17.48
1893-1894	11.15	1922-1923	16.81	1951-1952	23.50
1894-1895	26.04	1923-1924	8.86	1952-1953	19.70
1895-1896	22.18	1924-1925	25.99	1953-1954	16.64
1896-1897	18.82	1925-1926	18.44	1954-1955	14.57
1897-1898	6.58	1926-1927	25.99	1955-1956	23.24
1898-1899	13.05	1927-1928	17.54	1956-1957	19.11
1899-1900	15.23	1928-1929	11.46	1957-1958	32.93
1900-1901	17.49	1929-1930	16.37	1958-1959	11.96
1901-1902	21.67	1930-1931	9.85	1959-1960	13.88
1902-1903	17.10	1931-1932	15.01	1960-1961	16.24
1903-1904	20.28	1932-1933	7.79	1961-1962	16.01
1904-1905	24.55	1933-1934	15.65	1962-1963	20.48
1905-1906	19.85	1934-1935	19.62	1963-1964	9.34
1906-1907	17.88	1935-1936	17.48		