

**Glenn County Agricultural Commissioner's Office**

# 2013 Annual Crop & Livestock Report



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## **STAFF MEMBERS**

Agricultural Commissioner/  
Sealer of Weights and Measures  
Jim Donnelly

Assistant Agricultural Commissioner/  
Assistant Sealer of Weights and Measures  
Jean Miller

Deputy Agricultural Commissioner/  
Deputy Sealer of Weights and Measures  
Rey M. Lopez

Water Resource Coordinator  
Lisa Hunter

Environmental Biologists  
Greg Hinton, Craig Boschi  
Tom Wong, Jason Beauchamp  
Brian Taylor

Environmental Biologist Aide  
Dottie LaCroix

Support Staff  
Tina Brothers  
Jennifer Kline

Air Pollution Staff  
Kevin Tokunaga, Eric Scott  
Ian Ledbetter, Kathryn McDaniel  
Dana Owens, Delia Azure

# County of Glenn

## DEPARTMENT OF AGRICULTURE

Jim Donnelly, Agricultural Commissioner  
Sealer of Weights & Measures

Jean Miller, Assistant Agricultural Commissioner  
Assistant Sealer of Weights & Measures

**Karen Ross, Secretary**  
California Department of Food and Agriculture

**Brian Leahy, Director**  
California Department of Pesticide Regulation

The Honorable Board of Supervisors

Chairman: <b>Mike Murray</b>	District 4
<b>Dwight Foltz</b>	District 2
<b>Steve Soeth</b>	District 3
<b>John Viegas</b>	District 1
<b>Leigh McDaniel</b>	District 5

I am pleased to submit the 2013 Annual Crop and Livestock Report for Glenn County as required by Section 2279 of the California Food and Agriculture Code which requires each County Agricultural Commissioner to summarize the acreage, production and gross value of Glenn County agricultural and forest commodities. Section 2272 of the California Food and Agriculture Code requires each County Agricultural Commissioner to report on actions taken to eradicate, control or manage pests in their county.

Agriculture continues to be the county's major industry. The 2013 gross production of agricultural commodities was valued at \$792,441,000. This represents an increase of 14 percent from the 2012 gross agricultural production value of \$697,030,000.

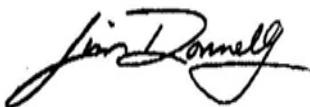
Rice, again, is in the lead this year as the number one commodity with a total value of \$176,494,000 for paddy rice, an increase of 21% due to higher value, yield and an increase in acres (this does not include organic rice and rice grown for seed which brings the total for all rice to \$184,593,000). Almonds are in the number two spot with a value of \$169,253,000, which is up 29% from 2012 due to an increase in acres, yield and price. Paddy rice and almonds represent 51% of the top 10 commodities for 2013. The value of walnuts also increased again (7%), due to an increase in acres coming into production and price.

With barely an inch of rain from July thru the following January, the grasses in the foothills and lower mountains never got a chance to grow and gave a parched look to the landscape. The wheat, oats and barley planted in the fall, needed an irrigation or two (if available) to get them going. The drought of 2013 certainly will carry over into 2014 with reduced planted acres. The rainfall chart (page 21) displays recorded rainfall from July 2012 to June 2013 to reflect the seasonal nature of our Mediterranean climate. Actual rainfall for 2013 was 4.43 inches.

Values given in this report are gross receipts received by growers and do not reflect their net income. These values do not take into account the various costs of production, marketing or transportation.

I want to express my appreciation for the cooperation and assistance of all individuals, related agencies and members of the agricultural industry for their help in compiling this report. Members of my staff should be commended for their countless hours and extra efforts to gather this year's information and to Jean Miller for the compilation of the report.

Respectfully submitted,



Glenn County is located in the heart of the Sacramento Valley and is primarily an agricultural community. The Coast Range Mountains are on the west and the Sacramento River is located on the east. Interstate 5 runs north and south through the middle of this rich farm land. Agriculture remains the primary source of Glenn County's economy and major commodities include rice, almonds, dairies, walnuts, corn and wheat.

Glenn County was incorporated on March 5, 1891 and the county seat, Willows, was created 6 days later. Glenn county was created out of the northern portion of Colusa County, then called Colusi County and was named for Dr. Hugh L. Glenn, the largest wheat farmer in California in his lifetime.

County Seat:	Willows
Population:	27,992 total
Willows (6,128)	Orland (7,626)
Land Area:	1,314 square miles
	840,960 acres
Land in Farms:	489,186 acres
Population Density:	21.4 people per square mile
Highest Elevation:	7,455 feet
Lowest Elevation:	58 feet

**Unincorporated Areas:**

Artois  
Elk Creek  
Hamilton City  
Glenn

**Incorporated Areas:**

Willows  
Orland

**Average Climate:**

Summer High: 94 degrees      Winter Low: 35 degrees  
Frost-free annual growing period: 280 days  
Average rainfall: 20 inches

**National Protected Areas:**

Mendocino National Forest (approximately 300,000 acres)  
Sacramento National Wildlife Refuge (approx. 8,000 acres)  
Sacramento River National Wildlife Refuge (approx. 3,600 acres)

**Indian Reservations:**

Grindstone Indian Rancheria of Wintun-Wailaki Indians

**Recreation areas:**

Black Butte Lake  
Stony Gorge Reservoir  
Thunderhill Raceway Park



Each Agricultural Commissioner is charged with the protection of California's agriculture, protection of the environment as well as protection of the public's health and safety. These goals are accomplished through the management of programs designed to achieve our mission through a combination of public outreach, industry education and enforcement actions. County Agricultural Commissioners carry out the programs listed below to accomplish these aims.

## **ENVIRONMENTAL PROTECTION**

- ◆ Pest Detection
- ◆ Pest Eradication
- ◆ Noxious Weed Control
- ◆ Pesticide Use Enforcement

## **CONSUMER PROTECTION**

- ◆ Fruit and Vegetable Quality Control
- ◆ Nursery Inspections
- ◆ Seed Inspections
- ◆ Certified Seed
- ◆ Organic Registration Program
- ◆ Certified Producers Program
- ◆ Egg Quality Control

## **SPECIAL SERVICES**

- ◆ Apiary
- ◆ Crop Statistics
- ◆ Tri-County Bee Notification
- ◆ Water Resource Program
- ◆ Olive Pest Management District
- ◆ Rice Burn Disease Certification
- ◆ Weed Free Forage



# FRUIT and NUT CROPS

## Production and Value of Agricultural Products

COMMODITY	Year	PRODUCTION			Unit	VALUE	
		Acreage	Per Acre	Total		Per Unit	Total
ALMONDS	2013	38,299	0.80	30773	Meat Ton	\$5,500	\$169,253,000
	2012	36,259	0.78	28,282		\$4,640	\$131,229,000
ALMOND HULLS	2013			38,466	Ton	100	3,847,000
	2012			35,253		100	3,525,000
CITRUS	2013	310	0.30	95	Ton	1,153	110,000
	2012	342	0.35	120		950	114,000
GRAPES	2013	1,063	6.90	7,335	Ton	673	4,934,000
	2012	1,062	6.52	6,924		702	4,861,000
OLIVES, Oil	2013	4,450	200.83	893,693	Gallon	13.5	12,065,000
	2012	4,398	173.53	763,185	Gallon	14	10,679,000
	2013	4,450	4.38	19,491	Ton	619	12,065,000
	2012	4,398	4.48	19,703	Ton	542	10,679,000
OLIVES, Table	2013	4,433	3.73	16,535	Ton	985	16,287,000
	2012	4,485	4.81	21,554		994	21,425,000
PISTACHIOS	2013	1,474	1.14	1,680	Inshell Ton	5,200	8,736,000
	2012	1,474	2.07	3,051		3,973	12,122,000
PRUNES	2013	5,760	2.40	13,824	Dry Ton	1,720	23,777,000
	2012	5,966	2.14	12,767		1,232	15,729,000
WALNUTS	2013	21,672	1.98	42,911	Inshell Ton	3,040	130,449,000
	2012	19,545	2.18	42,608		2,863	121,987,000
MISCELLANEOUS	2013	609	Includes black walnuts, blueberries, cherries, kiwis,				2,663,000
	2012	376	peaches, pecans and Asian pears				2,106,000
TOTALS	2013	78,070					\$372,121,000
	2012	73,907					\$323,777,000

# FIELD CROPS

## Production and Value of Agricultural Products

COMMODITY	PRODUCTION			VALUE			
	Year	Acreage	Per Acre	Total	Unit	Per Unit	Total
BARLEY	2013	664	2	1,328	Ton	250	\$332,000
	2012	1,098	1.87	2,053		\$292	\$599,000
BEANS	2013	930	1.17	1,088	Ton	1,160	1,262,000
	2012	1,787	0.82	1,465		955	1,399,000
COTTON, Lint	2013	1,252	3.53	4,420	500 Lb	450	1,989,000
	2012	1,683	3.16	5,318		400	2,127,000
COTTON, Seed	2013			1,839			74,000
	2012			2,217			831,000
FODDER, from Corn	2013	17,609	6.71	118,156	Ton	182	21,504,000
	2012	17,557	6.47	113,594		238	27,035,000
FODDER, From Oats	2013	2,405	3.00	7,215	Ton	136	981,000
	2012	2,225	4.00	8,900		149	1,326,000
HAY, Alfalfa	2013	12,793	6.71	85,841	Ton	215	18,456,000
	2012	12,758	6.12	78,079		197	15,382,000
HAY, Other	2013	2,628	2.80	7,358	Ton	146	1,074,000
	2012	2,068	1.61	3,329		150	499,000
PASTURE, Irrigated	2013	9,112			Acres	165	1,503,000
	2012	9,383				162	1,520,000
RANGE	2013	230,000			Acres	7	1,610,000
	2012	230,000				6	1,380,000
RICE, Paddy	2013	85,253	4.56	388,754	Ton	454	176,494,000
	2012	84,760	4.24	359,384		405	145,551,000
SILAGE, Corn	2013	4,303	30.00	129,090	Ton	42	5,422,000
	2012	1,936	28.34	54,866		45	2,478,000
WHEAT	2013	8,745	2.99	26,148	Ton	243	6,354,000
	2012	10,853	3.09	33,536		215	7,210,000
WHEAT, for Fodder	2013	3,434	13.20	45,329	Ton	25	1,133,000
	2012	3,070	15.00	46,050		38	1,750,000
MISCELLANEOUS	2013	13,081	Includes organic rice, safflower, sorghum, sudangrass				6,049,000
	2012	13,185	and straw from barley, rice and wheat				5,812,000
TOTALS	2013	392,209					\$244,237,000
	2012	392,363					\$214,899,000



## APIARY PRODUCTS

### Production and Value of Agricultural Products

COMMODITY	YEAR	PRODUCTION		VALUE		
		Total	Unit	Per Unit	Total	
BEESWAX	2013	Included under miscellaneous				
	2012					
HONEY	2013	Included under miscellaneous				
	2012					
PACKAGED BEES	2013	190,260	Lb, without a	15.56	\$2,960,000	
	2012	200,436	queen	13.77	\$2,760,000	
POLLINATION	2013	Includes almonds, prunes, sunflowers, onions and vine seeds			13,498,000	
	2012				10,174,000	
QUEEN BEES	2013	287,276	Each	18.39	5,283,000	
	2012	226,500		18.08	4,095,000	
MISCELLANEOUS	2013	Includes beeswax, honey, etc.			187,000	
	2012				55,000	
TOTALS	2013				\$21,928,000	
	2012				\$17,084,000	



## SEED CROPS

### Production and Value of Agricultural Products

COMMODITY	Year	PRODUCTION			Unit	VALUE	
		Acreage	Per Acre	Total		Per Unit	Total
BEANS	2013	336	1,980	665,280	Lb	\$0.62	\$412,000
	2012	1,305	1,399	1,825,695		\$0.59	\$1,077,000
RICE	2013	2,044	8,461	17,294,284	Lb	0.26	4,497,000
	2012	2,748	8,550	23,495,400		0.22	5,169,000
SUNFLOWERS	2013	5,851	1,000	5,851,000	Lb	1.40	8,191,000
	2012	5,320	998	5,309,360		1.20	6,371,000
VINE SEEDS	2013	1,464	Includes cucumbers, gourd, melons, pumpkins, squash and watermelons				5,191,000
	2012	4,509					8,326,000
OTHER SEEDS	2013	1,671	Includes beets, broccoli, carrots, herbs, kale, oats, onions and radishes				12,169,000
	2012	1,108					2,627,000
TOTALS	2013	11,366					\$30,460,000
	2012	14,990					\$23,570,000

## NURSERY PRODUCTS

### Production and Value of Agricultural Products

<i>COMMODITY</i>	Year	Acreage		Total
<b>TOTALS</b>	<b>2013</b>	<b>238</b>	Includes sod, strawberry plants and potted plants	<b>\$4,568,000</b>
	2012	241		<b>\$4,804,000</b>



## VEGETABLE CROPS

### Production and Value of Agricultural Products

<i>COMMODITY</i>	Year	Acreage		Total
<b>TOTALS</b>	<b>2013</b>	<b>138</b>	Includes a variety of vegetables including cucumbers, eggplant, melons, onions, peppers, pumpkins, squash, strawberries, sweet corn, tomatoes (fresh & processing) and watermelons	<b>\$554,000</b>
	2012	58		<b>\$333,000</b>



# LIVESTOCK and POULTRY

## Production and Value of Agricultural Products

COMMODITY	Year	PRODUCTION		VALUE	
		Number of Head	Unit	Per Unit	Total
BEEF CATTLE	2013	11,760	Head	\$1,180	\$13,877,000
	2012	12,000		\$1,140	\$13,680,000
DAIRY CATTLE	2013	21,000	Head	1,300	27,300,000
	2012	21,000		1,330	27,930,000
SHEEP and LAMB	2013	5,908	Head	188	1,111,000
	2012	6,154		176	1,083,000
HOGS and PIGS	2013	1,834	Head	180	330,000
	2012	1,871		150	281,000
POULTRY	2013	Included under Livestock and Poultry Products to			
	2012	protect individual operations			
TOTALS	2013				\$42,618,000
	2012				\$42,974,000





## LIVESTOCK and POULTRY PRODUCTS

### Production and Value of Agricultural Products

COMMODITY	Year	PRODUCTION		VALUE	
		Unit	Per Unit	Total	
MILK: Marketing	2013	3,925,559	Cwt	\$18.43	\$72,352,000
	2012	3,992,744		\$16.52	\$65,978,000
MILK: Manufacturing	2013	145,684	Cwt	18.95	2,760,000
	2012	117,840		17.76	2,093,000
WOOL	2013	38,402	Lb	1.45	56,000
	2012	63,386		1.60	101,000
MISCELLANEOUS	2013				439,000
	2012				504,000
TOTALS	2013				\$75,607,000
	2012				\$68,676,000

## FOREST PRODUCTS

### Production and Value of Agricultural Products

COMMODITY	Year	PRODUCTION		VALUE	
		Unit	Per Unit	Total	
CHRISTMAS TREES	2013	1,600	Each	\$23	\$37,000
	2012	1,900		\$23	\$44,000
FIREWOOD	2013	840	Cord	120	101,000
	2012	840		120	101,000
TIMBER	2013	1,048,000	Board Foot	.20	210,000
	2012	4,520,000		0.17	768,000
TOTALS	2013				\$348,000
	2012				\$913,000

## VALUE of AGRICULTURAL and FOREST PRODUCTION

VALUE of AGRICULTURAL PRODUCTS	2012	2013
Field Crops	\$214,899,000	\$244,237,000
Fruit and Nut Crops	323,777,000	372,121,000
Livestock and Poultry Products	68,676,000	75,607,000
Livestock and Poultry	42,974,000	42,618,000
Seed Crops	23,570,000	30,460,000
Apiary Products	17,084,000	21,928,000
Nursery Products	4,804,000	4,568,000
Vegetable Crops	333,000	554,000
<b>TOTAL AGRICULTURAL PRODUCTION</b>	<b>\$696,117,000</b>	<b>\$792,093,000</b>

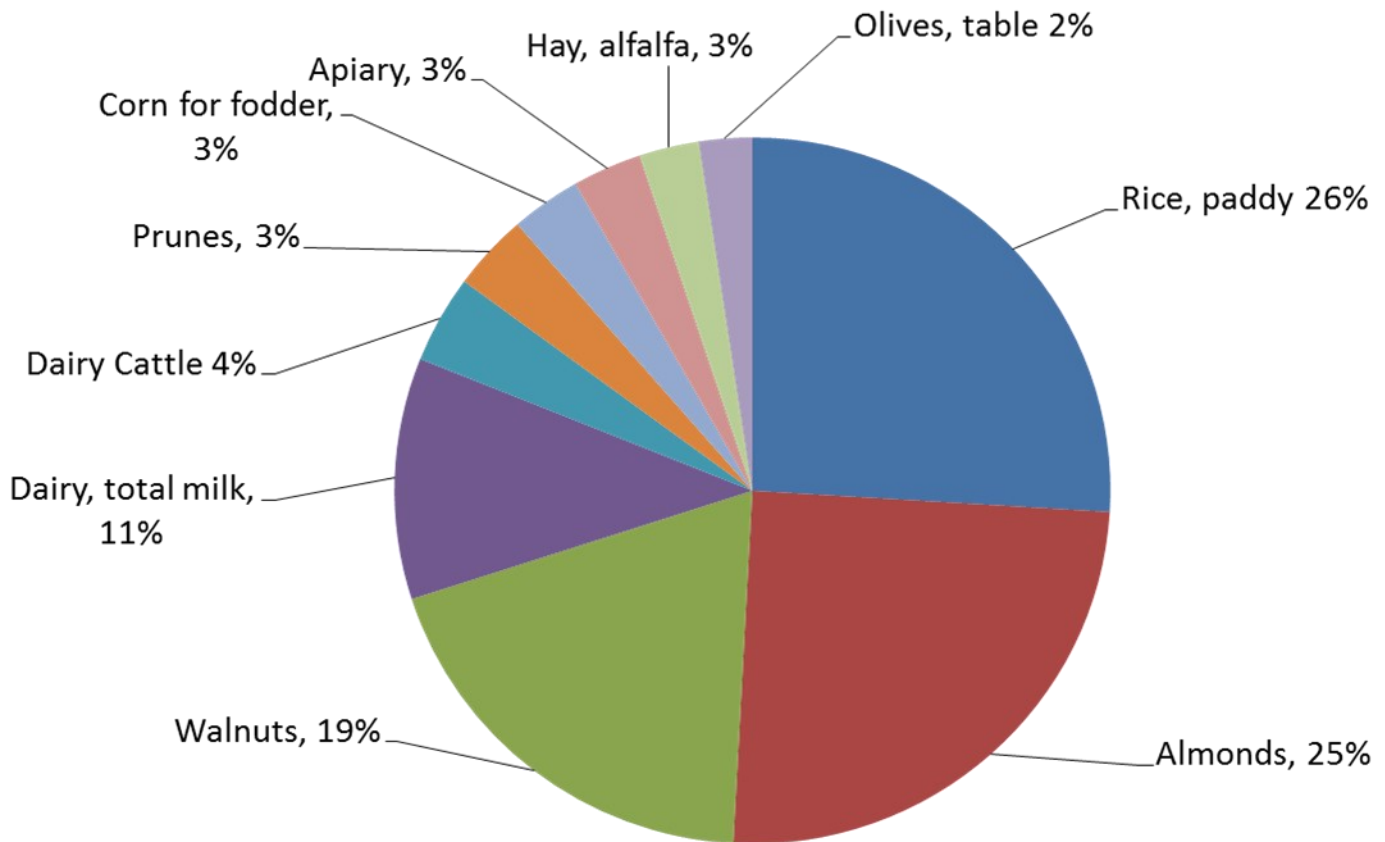
VALUE of FOREST PRODUCTS	2012	2013
Timber	\$768,000	\$210,000
Firewood	101,000	101,000
Christmas Trees	44,000	37,000
<b>TOTAL FOREST PRODUCTION</b>	<b>\$916,000</b>	<b>\$348,000</b>

<b>GRAND TOTAL ALL PRODUCTION</b>	<b>\$697,030,000</b>	<b>\$792,441,000</b>
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# GLENN COUNTY'S TEN LEADING AGRICULTURAL COMMODITIES

Commodity	2012 Value	2013 value
1) Rice, paddy	\$145,551,000	\$176,494,000
2) Almonds	131,229,000	169,253,000
3) Walnuts	121,987,000	130,449,000
4) Dairy, total milk	68,071,000	75,112,000
5) Dairy Cattle	27,930,000	27,300,000
6) Prunes	15,729,000	23,777,000
7) Corn, fodder	27,035,000	21,504,000
8) Apiary	17,084,000	21,280,000
9) Hay, alfalfa	15,382,000	18,456,000
10) Olives, table	21,425,000	16,287,000

Ten Leading Commodities 2013





# 2004 - 2013

<b>Year</b>	<b>Grand Total</b>
<b>2013</b>	<b>\$792,441,000</b>
<b>2012</b>	<b>\$697,030,000</b>
<b>2011</b>	<b>\$611,358,000*</b>
<b>2010</b>	<b>\$566,241,000</b>
<b>2009</b>	<b>\$481,677,000</b>
<b>2008</b>	<b>\$558,760,000</b>
<b>2007</b>	<b>\$493,848,000</b>
<b>2006</b>	<b>\$369,014,000</b>
<b>2005</b>	<b>\$394,212,000</b>
<b>2004</b>	<b>\$348,138,000</b>

## PEST EXCLUSION

Terminal Inspections	Number of Shipments Profiled	Number of Shipments Inspected	Rejections
Postal	0	0	0
Truck	23	23	0
Other	34	34	0

Origin Certification	Number of Inspections
Field Inspections	476
Phytosanitary Certificates Issued	3,334

## ORGANIC FARMING

Crop	Number of Farms	Units
Almonds	6	192 Acres
Citrus	4	95 Acres
Dairy/Livestock	1	2,000 Dairy Cattle
Olives	8	627 Acres
Pasture/Range	5	4,066 Acres
Rice	10	1,434 Acres
Ryegrass, mixed forage, hay	4	2,069 Acres
Wheat	2	1,842 Acres
Miscellaneous*	14	680 Acres
Processors/Handlers	4	Includes almonds, butter, cheese and seed
<b>Total registered grow- ers, handlers and pro- cessors</b>	<b>39</b>	

\*Includes: apples, apricots, blackberries, cherries, chestnuts, corn, fallow ground, kiwis, herbs, mixed forage, nectarines, peas, peaches, pecans, persimmons, pistachios, plums, prickly pear, pomegranates, safflower, squash, tomatoes and vegetables.

**Yellow Starthistle  
and  
Biological Control  
Agents**



**Bud Weevil**  
*Bangasternus orientalis*



**Peacock Fly** *Chaetorellia australis*



Photos courtesy of Baldo Villegas



**Gall Fly** *Urophora sirunaseva*



**Hairy Weevil** *Eustenopus villosus*

**BIOLOGICAL CONTROL**

<b>Pest</b>	<b>Scientific Name</b>	<b>Control Agent</b>	<b>Scientific Name</b>	<b>Program Scope</b>
Ash Whitefly	<i>Siphoninus phillyreae</i>	Wasp	<i>Encarsia sp.</i>	Established
		Beetle	<i>Clitostethus arcuatus</i>	Established
Italian Thistle	<i>Carduus pycnocephalus</i>	Weevil	<i>Rhynocyllus conicus</i>	Established
Puncturevine	<i>Tribulus terrestrig</i>	Stem & Seed Weevils	<i>Microlarinus lypriformis</i> <i>Microlarinus lareyniei</i>	Established
Yellow Starthistle	<i>Centaurea solstitialis</i>	Weevil	<i>Bangasternus orientalis</i> <i>Eustenopus villosus</i>	Established
		Fly	<i>Urophora sirunaseva</i> <i>Chaetorellia australis</i>	Established
		Rust	<i>Puccinia jaceae</i>	Not established
Red Gum Lerp Psyllid	<i>Glycaspis brimblecombei</i>	Wasp	<i>Psyllaephagus bliteus</i>	Established
Saltcedar	<i>Tamarix sp.</i>	Beetle	<i>Diorhabda elongata</i>	Not established

## PEST ERADICATION

<b>Pest</b>	<b>Scientific Name</b>	<b>Control agent</b>	<b>Number of Locations</b>
Canada Thistle	<i>Cirsium arvense</i>	Mechanical	1
Dyer's Woad	<i>Isatis tinctoria</i>	Chemical/Mechanical	2
Perennial Pepperweed	<i>Lepidium latifolium</i>	Chemical/Mechanical	42
Plumeless Thistle	<i>Carduus acanthoides</i>	Mechanical	3
Russian Knapweed	<i>Acroptilon repens</i>	Chemical	2
Silverleaf Nightshade	<i>Solanum elaeagnifolium</i>	Chemical/Mechanical	27
Hoary Cress (Whitetop)	<i>Cardaria draba</i>	Chemical/Mechanical	11
Purple Starthistle	<i>Centaurea calcitrapa</i>	Chemical/Mechanical	4
Diffuse Knapweed	<i>Centaurea diffusa</i>	Chemical/Mechanical	1
Klamath Weed	<i>Hypericum perforatum</i>	Chemical/Mechanical	4
Spanish Broom	<i>Genista juncea</i>	Mechanical	2
Tree of Heaven	<i>Ailanthus altissima</i>	Chemical/Mechanical	2



## I remember when...

Wet, Wet, Wet, Wet, Wet

1940-1941	40.50"
1957-1958	32.93"
1982-1983	37.25"
1994-1995	34.04"
1997-1998	41.62"
2004-2005	28.39"

(Measured from July to June)

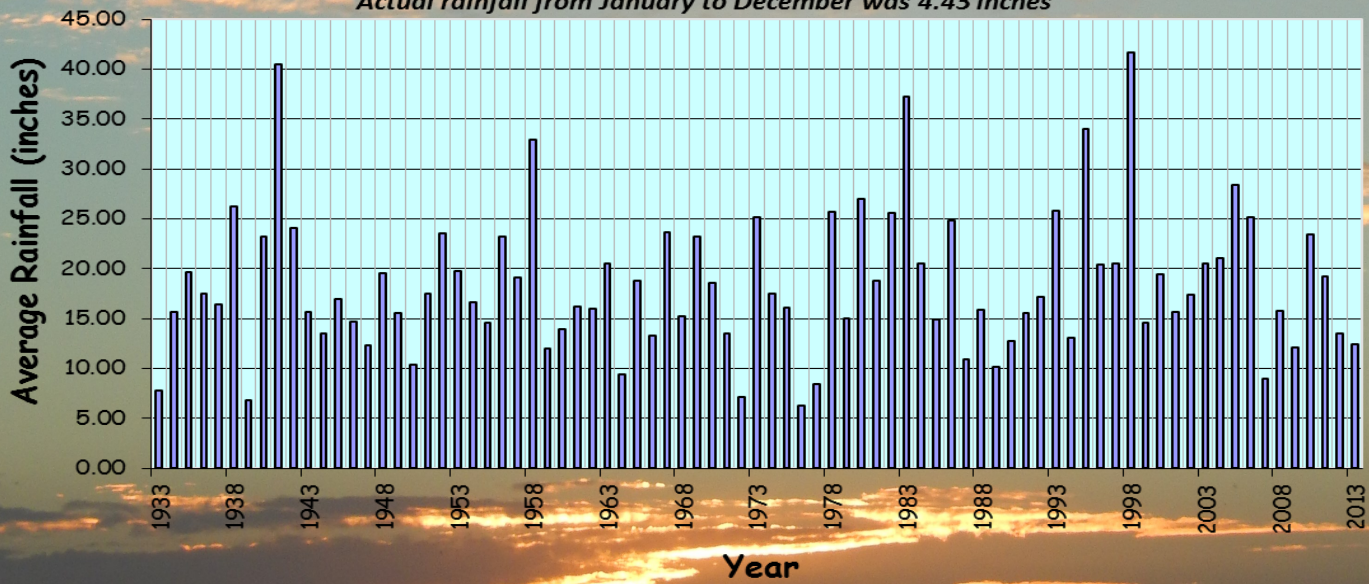
Dry, Dry, Dry, Dry, Dry, Dry

1932-1933	7.79"
1938-1939	6.82"
1963-1964	9.34"
1971-1972	7.15"
1975-1976	6.30"
1976-1977	8.46"
2006-2007	8.93"

### Seasonal Rainfall (Willows, CA)

(Seasonal rainfall calculated from July to June)

*Actual rainfall from January to December was 4.43 inches*



# EXPORT COMMODITIES

## Commodities Grown and Exported from Glenn County

### SEED:

Bean	Leek	Pumpkin	Watermelon
Coriander	Melon	Safflower	
Corn	Onion	Squash	
Cucumber	Pepper	Sunflower	

### NUTS:

Almonds  
Pistachio  
Walnuts

## Export Trade Partners of Glenn County in 2013

Algeria	Hungary	Pakistan
Argentina	India	Peru
Australia	Iran, Islamic Republic of	Poland
Bahrain	Iraq	Russian Federation
Barbados	Israel	Saint Vincent & the Grenadines
Belgium	Italy	Saudi Arabia
Bolivia, Plurinational State of	Japan	Singapore
Bosnia and Herzegovina	Jordan	South Africa
Brazil	Kazakhstan	Spain
Cameroon	Kenya	Sweden
Chili	Korea, Democratic People's	Switzerland
China	Republic of	Syrian Arab Republic
Columbia	Korea, Republic of	Taiwan
Costa Rica	Kuwait	Thailand
Czech Republic	Latvia	Tunisia
Denmark	Lebanon	Turkey
Dominican Republic	Libya	Ukraine
Ecuador	Lithuania	United Arab Emirates
Egypt	Malaysia	United Kingdom
Finland	Mexico	Uruguay
France	Morocco	Venezuela, Bolivarian Republic of
Germany	Netherlands	Viet Nam
Greece	New Zealand	Virgin Islands, British
Hong Kong	Norway	Yemen

# Weights & Measures



## DEVICE INSPECTION PROGRAM

Weighting and Measuring Devices are those used in channels of trade to determine a value based on weight, measure or count. It is the duty of the County Sealer to ensure buyer and seller equity in all commercial transactions. Over 1,000 devices were inspected for accuracy in 2013 including:

- Gasoline dispensers
- Propane meters
- Counter sales
- Livestock scales
- Truck scales



## QUANTITY CONTROL INSPECTIONS

Quantity control provides consumer protection against deception or misrepresentation of packaged and unpackaged commodities sold by weight, measure or count.



## PETROLEUM PROGRAM

Petroleum products are checked for label and advertising requirements, including gas price signs, to ensure product quality and to minimize false and deceptive advertising practices.



## WEIGHMASTER PROGRAM

Weighmaster enforcement ensures that consumers receive accurate and complete certificates attesting to weight, measure or count when both parties are not present at the time the quantity is determined.