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California Department of Food and Agriculture  
Agricultural Commissioners' Crop Reports

# Glenn County

2010-2014

# GLENN COUNTY

## 2010

### Annual Crop & Livestock Report



Cotton harvest in Glenn County

# Dedication

This year's crop report is dedicated to two special people who both retired in December 2010.



Mark Black started work as an Agricultural Inspector with the Tehama County Agriculture Department in 1975 and became the Agricultural Commissioner there in 1997. In 2004 he joined the Glenn County Agriculture Department and was appointed the Agricultural Commissioner in 2005. He also served as the Air Pollution Control Officer and the CUPA Director. He was also very involved in water resources. He will be missed by staff for all the positive changes he brought to our office and to the county. We wish him well in his retirement and also wish him "Happy antiquing".

Maureen Bailey started work for the Glenn County Agriculture Department in 1980 as a Secretary I and worked her way up to Administrative Assistant before she retired in December 2010. She is a very caring person and her laughter was often heard throughout the office. We will miss her and her cookies and wish her well in her retirement and in all of her new endeavors.



# Glenn County

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 (dark part of map below) and the Sacramento River is located on the east. Interstate 5 runs north and south through the middle of this rich farm land. The population of Glenn County is slightly over 29,000 and the two major cities, Willows and Orland, lie along Interstate 5.

With over 1,000 farms, agriculture remains the primary source of Glenn County's economy. Major commodities include rice, almonds, dairies, walnuts and prunes.

Glenn County was incorporated on March 5, 1891 and the county seat, Willows, was created 6 days later on March 11, 1891. 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.

**Glenn County is pleased to announce that in 2010 the first Certified Farmers' Markets were held in Orland and Willows from June thru September. This new tradition will continue in 2011.**



Alfalfa hay harvest

Irrigation canal

Olive orchard



# County of Glenn

## DEPARTMENT OF AGRICULTURE

Jim Donnelly, Agricultural Commissioner  
Sealer of Weights and Measures

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

TO: Karen Ross, Secretary  
State of California  
Department of Food and Agriculture

and

The Honorable Board of Supervisors

Chairman:	Steve Soeth	District 3
	John Viegas	District 1
	Dwight Flotz	District 2
	Michael Murray	District 4
	Leigh McDaniel	District 5

I am pleased to submit the 2010 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 2010 gross production of agricultural commodities was valued at \$566,308,000. This represents a increase of 15 percent from the 2009 gross agricultural production value of \$481,677,000, and is very close to 2008 gross agricultural production.

Rice again is in the lead this year as the number one commodity with a total value of \$165,762,000 for paddy rice (this does not include organic rice and rice grown for seed). Almonds are in the number two spot with a value of \$104,397,000, which is up 28% from 2009 due to an increase in acres, yield and price. Rice and almonds represent 54% of the top 10 commodities for 2009. The value of walnuts, too, increased impressively where the value almost doubled, also due to an increase in acres coming into production, yield and price.

The yield of table olives rose significantly compared to the last two years but was caught by an early frost in November which ended harvest for the year. The acres of oil olives continues to increase dramatically each year. Located in Glenn County is the largest olive mill in North America.

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,



Jim Donnelly  
Agricultural Commissioner

# FIELD CROPS

## Production and Value of Agricultural Products

COMMODITY	YEAR	PRODUCTION			VALUE		
		ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
BARLEY	2010	918	1.77	1,625	ton	204	\$332,000
	2009			Included under miscellaneous			
BEANS	2010	1,553	0.92	1,428	Ton	\$912	1,302,000
	2009	2,394	0.93	2,214		\$700	\$1,550,000
CORN	2010	14,235	5.99	85,270	Ton	168	14,325,000
	2009	11,223	5.60	62,849		205	12,884,000
COTTON, LINT	2010	2,606	2.98	7,766	500 lb.	725	5,630,000
	2009	1,657	3.62	5,998		336	2,015,000
COTTON, SEED	2010			3,242	Ton	300	793,000
	2009			2,499		400	1,000,000
HAY, ALFALFA	2010	15,135	6.41	97,015	Ton	100	9,702,000
	2009	17,736	7.18	127,344		103	13,116,000
HAY, OTHER	2010	3,856	3.62	13,959	Ton	83	1,159,000
	2009	3,912	2.61	10,210		67	684,000
PASTURE, IRRIGATED	2010	7,047			Acres	162	1,142,000
	2009	7,190				162	1,165,000
RANGE	2010	230,000			Acres	6	1,380,000
	2009	230,000				7	1,610,000
RICE, PADDY	2010	88,209	4.32	381,063	Ton	435	165,762,000
	2009	89,483	4.53	405,358		387	156,873,000
SILAGE, CORN	2010	905	27.40	24,800	Ton	26	633,000
	2009	2,778	28.00	77,784		35	2,722,000
WHEAT	2010	10,519	2.69	28,296	Ton	176	4,980,000
	2009	13,125	1.85	24,281		225	5,463,000
MISCELLANEOUS	2010	14,044		Includes barley, organic rice, safflower and straw			5,050,000
	2009	21,077		from barley, rice and wheat.			7,535,000
TOTALS	2010	389,027					\$212,190,000
	2009	400,575					\$206,617,000

1 714 pounds of seed per bale

2 Includes USDA support price

Wheat



# FRUIT and NUT CROPS

## Production and Value of Agricultural Products

Commodity	Year	Acreage	Per Acre	PRODUCTION		VALUE	
				Total	Unit	Per Unit	Total
ALMONDS	2010	32,671	0.84	27,444	Meat	\$3,804	\$104,397,000
	2009	30,626	0.78	23,888	Ton	\$3,400	\$81,219,000
ALMOND HULLS	2010			34,305	Ton	90	3,087,000
	2009			29,860		80	2,389,000
CITRUS	2010	429	0.52	223	Ton	807	180,000
	2009	469	1.89	886		1,028	911,000
GRAPES	2010	1,020	7.85	8,007	Ton	625	5,004,000
	2009	809	8.13	6,580		327	2,152,000
OLIVES, Table	2010	4,485	5.07	22,739	Ton	763	17,350,000
	2009	4,275	1.45	6,214		1,112	6,988,000
OLIVES, Oil	2010	2,761	4.80	13,253	Ton	555	7,355,000
	2009	1,683	162.00	272,646	Gallon	15	4,171,000
PISTACHIOS	2010	1,265	0.73	923	Inshell	4,748	4,382,000
	2009	1,043	1.27	1,325	Ton	3,112	4,123,000
PRUNES	2010	6,819	2.15	14,660	Dry	1,472	21,580,000
	2009	6,494	2.10	13,637	Ton	1,355	18,478,000
WALNUTS	2010	16,800	2.09	35,112	Inshell	2,000	70,224,000
	2009	14,173	1.86	26,362	Ton	1,437	37,882,000
MISCELLANEOUS	2010	330		2010 includes apricots, black walnuts, blueberries, cherries, kiwis, peaches, pecans and Asian pears.			1,295,000
	2009	387					1,936,000
TOTALS	2010	66,580					\$234,854,000
	2009	59,959	**				\$160,249,000



Walnut orchard and walnuts at harvest



\* 37 gallons of olive oil equals 1 ton

\*\* Revised

# NURSERY PRODUCTS

## Production and Value of Agricultural Products

COMMODITY	YEAR	ACREAGE	TOTAL VALUE
TOTALS	2010	238	Includes grapes for rootstock, potted plants, sod and strawberry plants \$4,475,000
	2009	280	\$4,854,000



## VEGETABLE CROPS

### Production and Value of Agricultural Products

COMMODITY	YEAR	PRODUCTION			VALUE		
		ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
TOTALS	2010	29					\$184,000 *
	2009	525					\$2,196,000 **

\* Includes cucumbers, eggplant, melons, onion bulbs, peppers, pumpkins, squash, strawberries, sweet corn, tomatoes (fresh) and watermelons

\*\* Includes cucumbers, eggplant, melons, onion bulbs, peppers, pumpkins, squash, strawberries, sweet corn, tomatoes (fresh & processing) and watermelons

## FOREST PRODUCTS

### Production and Value of Forest Products

COMMODITY	YEAR	PRODUCTION			VALUE		
		UNIT	PER UNIT	TOTAL	UNIT	PER UNIT	TOTAL
CHRISTMAS TREES	2010	1,500	\$23	\$34,500	Each	23	\$34,500
	2009	1,900					\$43,700
FIREWOOD	2010	850	120	102,000	Cord	120	102,000
	2009	860					98,900
TIMBER	2010	0	0	0	Board Ft	0	0
	2009	0					0
TOTALS	2010						\$137,000
	2009						\$142,600



# APIARY PRODUCTS



## Production and Value of Agricultural Products

COMMODITY	YEAR	PRODUCTION			VALUE		
		TOTAL	UNIT	PER UNIT	TOTAL		
BEESWAX	2010	5,700	Lbs	\$1.87	\$10,700		
	2009	1,000		\$1.50	\$1,500		
HONEY	2010	169,058	Lbs	1.50	253,000		
	2009	180,000		1.00	180,000		
PACKAGED BEES	2010	164,480	Lbs	13.36	2,197,000		
	2009	173,172		11.46	1,985,000		
POLLINATION	2010	Includes almonds, prunes, sunflowers and vine seeds			8,748,000		
	2009				8,436,000		
QUEEN BEES	2010	193,243	Each	14.06	2,717,000		
	2009	208,283		15.80	3,291,000		
TOTALS					\$13,926,000		
		2009			\$13,894,000		

## SEED CROPS

### Production and Value of Agricultural Products

COMMODITY	YEAR	PRODUCTION			VALUE		
		ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	
BEANS	2010	989	2,300	2,274,700	Lbs	\$0.43	\$978,000
	2009	1,033	2,213	2,286,029		\$0.50	\$1,143,000
RICE	2010	2,544	8,950	22,768,800	Lbs	0.22	5,009,000
	2009	2,359	9,551	22,530,809		0.33	7,435,000
SUNFLOWER	2010	4,382	1,051	4,605,482	Lbs	1.10	5,066,000
	2009	4,275	1,139	4,869,225		1.19	5,794,000
VINE CROPS	2010	3,607	Includes cucumbers, melons, pumpkins, squash, gourds and watermelons			8,919,000	
	2009	3,742				5,808,000	
OTHER SEED	2010	895	Includes carrots, leeks and onions			4,016,000	
	2009	1,151	Includes barley, carrots, coriander and onions			12,738,000	
TOTALS		12,417				\$23,988,000	
		2009	12,560			\$32,918,000	



Onions for seed



Bee pollination in sunflowers



# LIVESTOCK and POULTRY

## Production and Value of Agricultural Products

COMMODITY	YEAR	NUMBER	TOTAL	VALUE		TOTAL
		OF HEAD	WEIGHT	UNIT	PER UNIT	
CATTLE and CALVES	2010	32,085	213,177	Cwt	\$82.64	\$17,617,000
	2009	28,522	191,715		\$79.81	\$15,310,000
SHEEP and LAMBS	2010	6,480	6,672	Cwt	106.00	707,000
	2009	6,478	6,672		88.70	592,000
HOGS and PIGS	2010	1,910	3,438	Cwt	55.10	189,000
	2009	1,835	3,303		42.50	140,000
POULTRY	2010	Included under Livestock and Poultry Products to protect individual operations.				
TOTALS	2010					\$18,513,000
	2009					\$16,042,000

# LIVESTOCK and POULTRY PRODUCTS

## Production and Value of Agricultural Products

COMMODITY	YEAR	PRODUCTION	VALUE	TOTAL
			UNIT	
MILK: Market	2010	3,698,452	Cwt	\$14.78
	2009	3,672,894		\$11.55
MILK: Manufacturing	2010	186,818	Cwt	14.64
	2009	152,659		11.99
WOOL	2010	75,473	Lbs	1.25
	2009	65,622		0.85
MISCELLANEOUS	2010			482,000
	2009			456,000
TOTALS	2010			\$58,041,000
	2009			\$44,764,000



Holstein heifers



Suffolk sheep

# VALUE of AGRICULTURAL and FOREST PRODUCTION

VALUE of AGRICULTURAL PRODUCTS	2009	2010
Field Crops	\$206,617,000	\$212,190,000
Fruit and Nut Crops	160,249,000 *	234,854,000
Livestock and Poultry Products	44,764,000	58,041,000
Livestock and Poultry	16,042,000	18,513,000
Seed Crops	32,918,000	23,988,000
Apiary Products	13,894,000	13,926,000
Nursery Products	4,854,000	4,475,000
Vegetable Crops	2,196,000	184,000
<b>TOTAL AGRICULTURAL PRODUCTION</b>	<b>\$481,534,000 *</b>	<b>\$566,171,000</b>

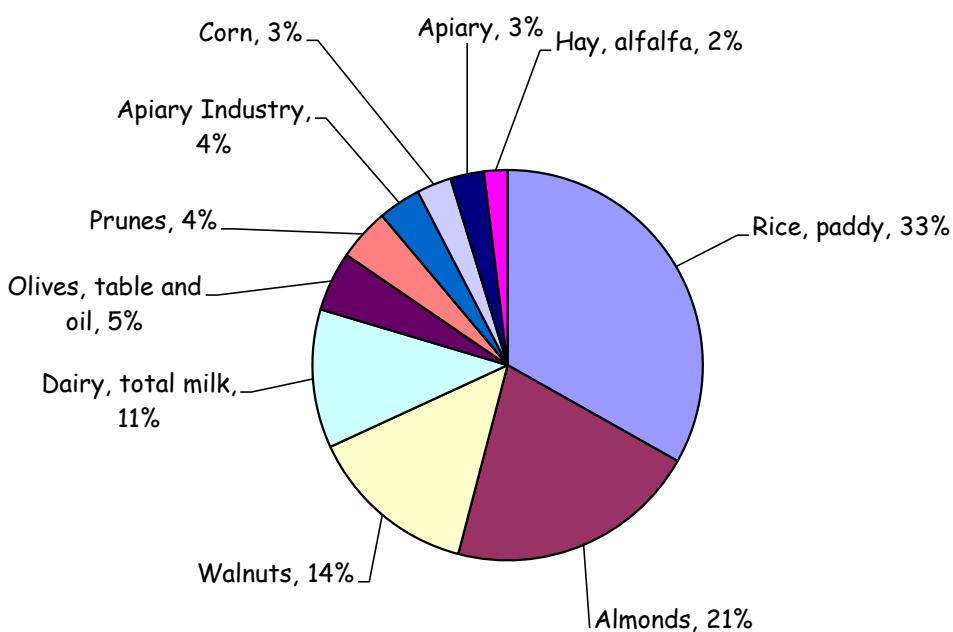
VALUE of FOREST PRODUCTS	2009	2010
Timber	\$0	\$0
Firewood	98,900	102,000
Christmas Trees	43,700	34,500
<b>TOTAL FOREST PRODUCTION</b>	<b>\$143,000</b>	<b>\$137,000</b>

**GRAND TOTAL ALL PRODUCTION**      \$481,677,000 \*      \$566,308,000

# GLENN COUNTY'S TEN LEADING AGRICULTURAL COMMODITIES

Commodity	2009 Value	2010 Value
1) Rice, paddy	\$156,873,000	\$165,762,000
2) Almonds	81,219,000	104,397,000
3) Walnuts	37,882,000	70,224,000
4) Dairy, total milk	44,252,000	57,398,000
5) Olives, table and oil	11,159,000	24,705,000
6) Prunes	18,478,000	21,580,000
7) Cattle and calves	15,310,000	17,617,000
8) Corn	12,884,000	14,325,000
9) Apiary	13,894,000	13,926,000
10) Hay, alfalfa	13,116,000	9,702,000

## Ten Leading Commodities 2010

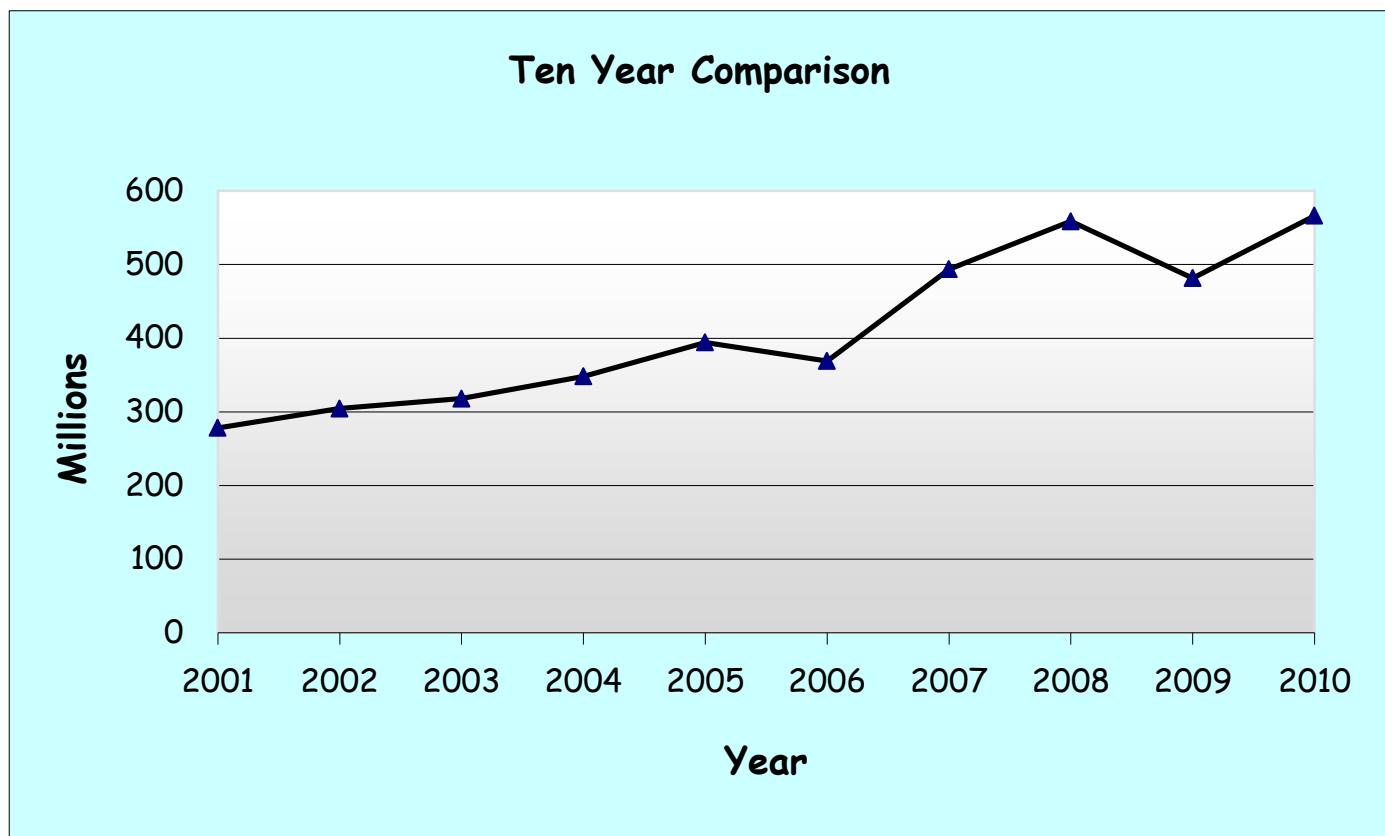


# TEN YEAR PRODUCTION COMPARISON

2001 - 2010

<u>Year</u>	<u>Grand Total</u>
2010	\$566,308,000
2009	\$481,677,000 *
2008	\$558,760,000
2007	\$493,848,000
2006	\$369,014,000
2005	\$394,212,000
2004	\$348,138,000
2003	\$318,042,000
2002	\$304,664,000
2001	\$278,261,000

\* Revised



*Cultivators of the earth are the most valuable citizens. They are the most vigorous, the most independant, the most virtuous, and they are tied to their country and wedded to its liberty and interests by the most lasting bands.*

- Thomas Jefferson

# 2010 GLENN COUNTY SUSTAINABLE AGRICULTURE

## PEST EXCLUSION

Terminal Inspections	Number of Shipments Profiled	Number of Containers Inspected	Rejections
Postal	0	0	0
Truck	32	9,878	0
Other	52	14,177	0

Origin Certification	Number of Inspections
Field Inspections	540
Phyto Certificates Issued	3,055

## ORGANIC FARMING

Crop	2010	Number of Farms	Acres
Almonds	2010	7	141
	2009	8	273
Citrus	2010	5	99
	2009	5	105
Dairy/Livestock	2010	1	2,000 animals
	2009	2	2,100 animals
Olives	2010	6	124
	2009	4	124
Pasture/Range	2010	6	4,016
	2009	6	561
Rice	2010	11	1,741
	2009	12	2,046
Ryegrass	2010	2	534
	2009	3	562
Wheat	2010	4	2,123
	2009	3	798
Miscellaneous*	2010	27	1,277
	2009	17	423
Processors/Handlers	2010	3	N/A
	2009	3	N/A
<b>Totals**</b>	<b>2010</b>	<b>42</b>	<b>10,055</b>
	2009	42	4,892

\* Includes: triticale, corn, safflower, wild rice, pistachio, prunes, fruit trees, vegetables, herbs, peas, vetch, beans, chestnuts and fallow ground.

\*\* Total number of registered growers, handlers and processors.

# GLENN COUNTY SUSTAINABLE AGRICULTURE

## BIOLOGICAL CONTROL

Pest	Control Agent	Program Scope
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 terrestris</i>	Stem and Seed Weevils <i>Microlarinus lypriformis</i> <i>Microlarinus lareyniei</i>	Established Established
Yellow Starthistle <i>Centaurea solstitialis</i>	Weevil <i>Bangasternus orientalis</i> <i>Eustenopus villosus</i>	Established Established
Red Gum Lerp Psyllid <i>Glycaspis brimblecombei</i>	Fly <i>Urophora sirunaseva</i> <i>Chaetorellia australis</i>	Established Established
	Rust <i>Puccinia jaceae</i>	Not established
	Fly <i>Psyllaphaeus bliteus</i>	Established
Saltcedar <i>Tamarix spp.</i>	Beetle <i>Diorhabda elongata</i>	Not established

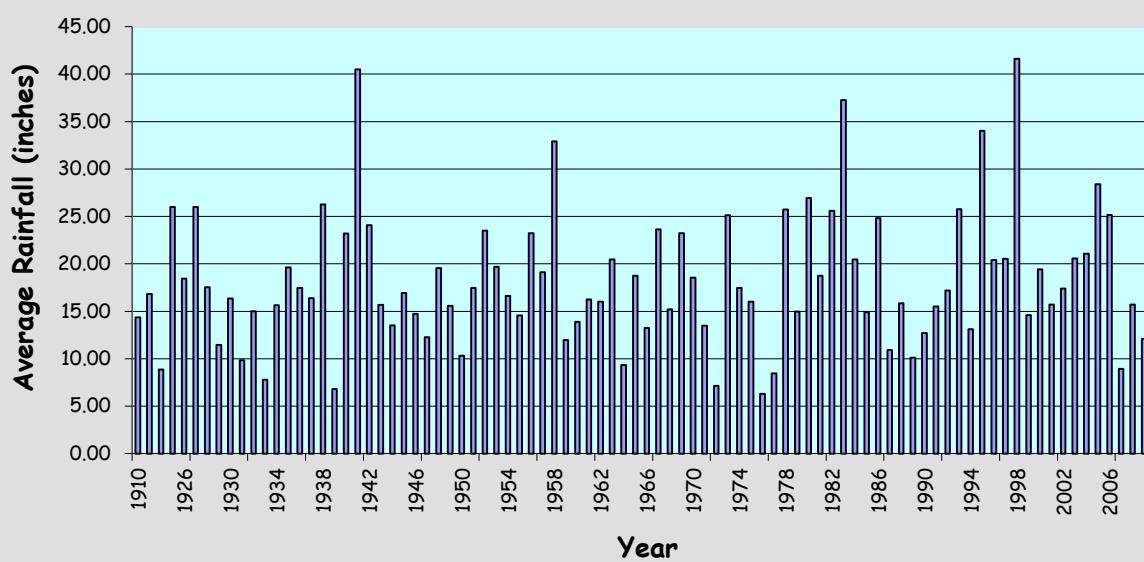
## PEST ERADICATION

Pest	Control Agent	Number of Locations
Canada Thistle <i>Cirsium arvense</i>	Mechanical	2
Dyer's Woad <i>Isatis tinctoria</i>	Chemical/Mechanical	11
Perennial Pepperweed <i>Lepidium latifolium</i>	Chemical/Mechanical	39
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
Hoarycress (Whitetop) <i>Cardaria draba</i>	Chemical/Mechanical	10
Purple Starthistle <i>Centaurea calcitrapa</i>	Chemical/Mechanical	2
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

# ANNUAL RAINFALL at WILLOWS, CALIFORNIA

Year	Inches	Year	Inches	Year	Inches	Year	Inches
1886 - 1887	8.07	1917 - 1918	11.90	1948 - 1949	15.59	1979 - 1980	26.95
1887 - 1888	8.97	1918 - 1919	12.90	1949 - 1950	10.32	1980 - 1981	18.76
1888 - 1889	10.30	1919 - 1920	7.70	1950 - 1951	17.48	1981 - 1982	25.58
1889 - 1890	29.94	1920 - 1921	21.28	1951 - 1952	23.50	1982 - 1983	37.25
1890 - 1891	19.01	1921 - 1922	13.44	1952 - 1953	19.70	1983 - 1984	20.47
1891 - 1892	18.82	1922 - 1923	16.81	1953 - 1954	16.64	1984 - 1985	14.89
1892 - 1893	27.30	1923 - 1924	8.86	1954 - 1955	14.57	1985 - 1986	24.82
1893 - 1894	11.15	1924 - 1925	25.99	1955 - 1956	23.24	1986 - 1987	10.92
1894 - 1895	26.04	1925 - 1926	18.44	1956 - 1957	19.11	1987 - 1988	15.86
1895 - 1896	22.18	1926 - 1927	25.99	1957 - 1958	32.93	1988 - 1989	10.12
1896 - 1897	18.82	1927 - 1928	17.54	1958 - 1959	11.96	1989 - 1990	12.71
1897 - 1898	6.58	1928 - 1929	11.46	1959 - 1960	13.88	1990 - 1991	15.51
1898 - 1899	13.05	1929 - 1930	16.37	1960 - 1961	16.24	1991 - 1992	17.19
1899 - 1900	15.23	1930 - 1931	9.85	1961 - 1962	16.01	1992 - 1993	25.76
1900 - 1901	17.49	1931 - 1932	15.01	1962 - 1963	20.48	1993 - 1994	13.10
1901 - 1902	21.67	1932 - 1933	7.79	1963 - 1964	9.34	1994 - 1995	34.04
1902 - 1903	17.10	1933 - 1934	15.65	1964 - 1965	18.75	1995 - 1996	20.39
1903 - 1904	20.28	1934 - 1935	19.62	1965 - 1966	13.26	1996 - 1997	20.52
1904 - 1905	24.55	1935 - 1936	17.48	1966 - 1967	23.65	1997 - 1998	41.62
1905 - 1906	19.85	1936 - 1937	16.40	1967 - 1968	15.21	1998 - 1999	14.59
1906 - 1907	17.88	1937 - 1938	26.28	1968 - 1969	23.25	1999 - 2000	19.43
1907 - 1908	13.44	1938 - 1939	6.82	1969 - 1970	18.56	2000 - 2001	15.70
1908 - 1909	22.09	1939 - 1940	23.21	1970 - 1971	13.50	2001 - 2002	17.40
1909 - 1910	14.36	1940 - 1941	40.50	1971 - 1972	7.15	2002 - 2003	20.56
1910 - 1911	17.75	1941 - 1942	24.07	1972 - 1973	25.11	2003 - 2004	21.07
1911 - 1912	11.26	1942 - 1943	15.68	1973 - 1974	17.45	2004 - 2005	28.39
1912 - 1913	13.18	1943 - 1944	13.52	1974 - 1975	16.03	2005 - 2006	25.17
1913 - 1914	29.18	1944 - 1945	16.94	1975 - 1976	6.30	2006 - 2007	8.93
1914 - 1915	27.19	1945 - 1946	14.72	1976 - 1977	8.46	2007 - 2008	15.71
1915 - 1916	18.11	1946 - 1947	12.28	1977 - 1978	25.72	2008 - 2009	12.12
1916 - 1917	11.43	1947 - 1948	19.56	1978 - 1979	14.97	2009 - 2010	23.46

Annual Rainfall (Willows, CA)



# EXPORT COMMODITIES

## Commodities Grown and Exported From Glenn County in 2010

### Seed:

Alfalfa	Carrot	Gourd	Mustard	Pumpkin
Beans	Chili pepper	Leek	Okra	Rice
Broccoli	Coriander	Lettuce	Onion	Squash
Cabbage	Corn	Lima bean	Pea	Sunflower
Cantaloupe	Cucumber	Melon	Pepper	Watermelon

### Nuts:

Almonds
Pistachios
Walnuts

### Fruit:

Apricots
Lumber:
Walnut



## Export Trade Partners of Glenn County in 2010

Algeria	France	Pakistan
Argentina	Germany	Poland
Australia	Greece	Portugal
Austria	Hong Kong	Romania
Bahamas	Hungary	Russian Federation
Barbados	India	Saint Vincent & the Grenadines
Belgium	Israel	Saudi Arabia
Bosnia	Italy	Singapore
Brazil	Japan	South Africa
Bulgaria	Jordan	Spain
Canada	Korea, Republic of	Sudan
Chili	Latvia	Sweden
China	Lebanon	Switzerland
Colombia	Lithuania	Syrian Arab Republic
Cyprus	Malaysia	Taiwan
Czech Republic	Mexico	Thailand
Denmark	Montenegro	Tunisia
Dominican Republic	Morocco	Turkey
Ecuador	Nepal	Ukraine
Egypt	Netherlands	United Arab Emirates
Estonia	New Zealand	United Kingdom
Finland	Norway	Viet Nam
		Yemen

# STAFF MEMBERS

**Agricultural Commissioner**  
**Sealer of Weights and Measures**  
Mark D. Black (retired 12/31/10); Jim Donnelly (3/7/11)

**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**  
Lester Messina

**Environmental Biologists:**  
Greg Hinton      Craig Boschi  
Tom Wong      Lisa Hunter  
Jason Beauchamp

**Environmental Biologist Aide:**  
Dottie LaCroix

**Support Staff:**  
Maureen Bailey    Tina Brother  
Jennifer Kline    Gaylee Curcio

**Public Service Employees:**  
Richard Daniel    Anthony Galvan  
John Tolley

**Air Pollution Staff:**  
Kevin Tokunaga    Eric Scott  
Ian Ledbetter      Ben Myhre  
Dana Owens        Delia Azure  
Kathryn McDaniel (1/4/11)

**Public Service Employee:** Natalie Pacheo



Flooded rice paddy before seedling emergence

# GLENN COUNTY

## 2011

### Annual Crop & Livestock Report



Strawberry plants being harvested in December for spring planting

# Glenn County

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 (dark part of map below) and the Sacramento River is located on the east. Interstate 5 runs north and south through the middle of this rich farm land. The population of Glenn County is slightly over 29,000 and the two major cities, Willows and Orland, lie along Interstate 5.

With over 1,000 farms and 705,020 acres under cultivation, agriculture remains the primary source of Glenn County's economy. 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 on March 11, 1891. 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.

**Glenn County began a Certified Farmers Market in 2010. This new tradition is continuing in 2012. The markets are held in Willows on Wednesdays and in Orland on Saturdays. Both markets run from June through October.**



Alfalfa hay harvest  
Irrigation canal  
Olive orchard



# County of Glenn

## DEPARTMENT OF AGRICULTURE

Jim Donnelly, Agricultural Commissioner  
Sealer of Weights and Measures

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

TO: Karen Ross, Secretary  
State of California  
Department of Food and Agriculture

and

The Honorable Board of Supervisors

Chairman:	Steve Soeth	District 3
	John Viegas	District 1
	Dwight Foltz	District 2
	Michael Murray	District 4
	Leigh McDaniel	District 5

I am pleased to submit the 2011 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 2011 gross production of agricultural commodities was valued at \$611,358,000. This represents an increase of 7 percent from the 2010 gross agricultural production value of \$566,308,000.

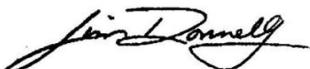
Rice, again, is in the lead this year as the number one commodity with a total value of \$139,695,000 for paddy rice (this does not include organic rice and rice grown for seed). Almonds are in the number two spot with a value of \$120,476,000, which is up 13% from 2010 due to an increase in acres, yield and price. Rice and almonds represent 47% of the top 10 commodities for 2011. The value of walnuts also increased impressively (32%), due to an increase in acres coming into production, yield and price.

The yield of table olives fell drastically compared to the year before (91%) due to excessive freezing temperatures from November to spring with late frosts in March and April. The acres of oil olives continues to increase dramatically each year as planted acres come into production. In fact, the largest oil olive mill in North America, is located in Glenn County.

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,



Jim Donnelly  
Agricultural Commissioner

# FIELD CROPS

## Production and Value of Agricultural Products

COMMODITY	YEAR	PRODUCTION				VALUE	
		ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
BARLEY	2011	Included under miscellaneous					
	2010	918	1.77	1,625	Ton	204	\$332,000
BEANS	2011	1,104	1.50	1,656	Ton	\$969	1,605,000
	2010	1,553	0.92	1,428		\$912	1,302,000
CORN	2011	16,215	6.91	112,046	Ton	208	23,306,000
	2010	14,235	5.99	85,270		168	14,325,000
COTTON, LINT	2011	2,496	2.34	5,841	500 lb.	512	2,991,000
	2010	2,606	2.98	7,766	(bale)	725	5,630,000
COTTON, SEED	2011				1,718	Ton	618,000
	2010				3,242		793,000
FODDER, FROM OATS	2011	958	6.50	6,227	Ton	210	1,308,000
	2010	0					0
HAY, ALFALFA	2011	10,992	6.27	68,920	Ton	202	13,922,000
	2010	15,135	6.41	97,015		100	9,702,000
HAY, OTHER	2011	2,607	2.72	7,901	Ton	121	956,000
	2010	3,856	3.62	13,959		83	1,159,000
PASTURE, IRRIGATED	2011	8,145				Acres	162
	2010	7,047					1,142,000
RANGE	2011	230,000				Acres	6
	2010	230,000					1,380,000
RICE, PADDY	2011	84,923	4.47	379,605	Ton	368	139,695,000
	2010	88,209	4.32	381,063		435	165,762,000
SILAGE, CORN	2011	1,453	29.00	42,137	Ton	58	2,444,000
	2010	905	27.40	24,800		26	633,000
WHEAT	2011	13,480	2.53	34,104	Ton	207	7,060,000
	2010	10,519	2.69	28,296		176	4,980,000
MISCELLANEOUS	2011	14,002	Includes barley, organic rice, safflower, sudangrass and straw from barley, rice and wheat.				4,973,000
	2010	14,044					5,050,000
TOTALS	2011	386,375					\$201,577,000
	2010	389,027					\$212,190,000

1 714 pounds of seed per bale

2 Includes USDA support price

rice at harvest time



# FRUIT and NUT CROPS

## Production and Value of Agricultural Products

Commodity	Year	Bearing	PRODUCTION			VALUE		
		Acreage	Per Acre	Total	Unit	Per Unit	Total	
ALMONDS	2011	33,239	0.91	30,247	Meat	\$3,983	\$120,476,000	
	2010	32,671	0.84	27,444	Ton	\$3,804	\$104,397,000	
ALMOND HULLS	2011			37,809	Ton	90	3,403,000	
	2010			34,305		90	3,087,000	
CITRUS	2011	429	0.35	150	Ton	987	148,000	
	2010	429	0.52	223		807	180,000	
GRAPES	2011	1,100	6.15	6,765	Ton	553	3,741,000	
	2010	1,020	7.85	8,007		625	5,004,000	
OLIVES, Table	2011	4,485	0.37	1,659	Ton	968	1,606,000	
	2010	4,485	5.07	22,739		763	17,350,000	
OLIVES, Oil	2011	3,890	2.88	11,203	Ton	449	5,030,000	1
	2010	2,761	4.80	13,253		555	7,355,000	2
PISTACHIOS	2011	1,351	0.45	608	Inshell	3,609	2,194,000	
	2010	1,265	0.73	923	Ton	4,748	4,382,000	
PRUNES	2011	5,743	2.21	12,692	Dry	1,181	14,989,000	
	2010	6,819	2.15	14,660	Ton	1,472	21,580,000	
WALNUTS	2011	17,596	2.34	41,175	Inshell	2,491	102,567,000	
	2010	16,800	2.09	35,112	Ton	2,000	70,224,000	
MISCELLANEOUS	2011	327		2011 includes black walnuts, blueberries, cherries, kiwis, pecans and Asian pears.			1,536,000	
	2010	330					1,295,000	
TOTALS	2011	68,160					\$255,690,000	
	2010	66,580					\$234,854,000	



Almonds in bloom



1 36.4 gallons of olive oil equals 1 ton harvested olives  
 2 37 gallons of olive oil equals 1 ton harvested olives

# NURSERY PRODUCTS

## Production and Value of Agricultural Products

COMMODITY	YEAR	ACREAGE	TOTAL VALUE
<b>TOTALS</b>	<b>2011</b>	<b>217</b>	Includes grapes for rootstock, potted plants, sod and strawberry plants <b>\$3,487,000</b>
	2010	238	<b>\$4,475,000</b>



## VEGETABLE CROPS

### Production and Value of Agricultural Products

COMMODITY	YEAR	ACREAGE	PRODUCTION		VALUE		
			PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
<b>TOTALS</b>	<b>2011</b>	<b>130</b>					<b>\$456,000</b>
	2010	29					<b>\$184,000</b>

\* Includes cucumbers, eggplant, melons, onions, peppers, pumpkins, squash, strawberries, sweet corn, tomatoes (fresh & processing) and watermelons

\*\* Includes cucumbers, eggplant, melons, onions, peppers, pumpkins, squash, strawberries, sweet corn, tomatoes (fresh) and watermelons

## FOREST PRODUCTS

### Production and Value of Forest Products

COMMODITY	YEAR	PRODUCTION			VALUE		
		UNIT	PER UNIT	TOTAL	UNIT	PER UNIT	TOTAL
CHRISTMAS TREES	2011	1,600	\$23	<b>\$37,000</b>	Each	\$23	\$34,500
	2010	1,500					
FIREWOOD	2011	840	120	<b>101,000</b>	Cord	120	102,000
	2010	850					
TIMBER	2011	372,000	0.18	<b>67,000</b>	Board Ft	0	0
	2010	0					
<b>TOTALS</b>	<b>2011</b>						<b>\$205,000</b>
	2010						<b>\$137,000</b>



# APIARY PRODUCTS



## Production and Value of Agricultural Products

COMMODITY	YEAR	PRODUCTION			VALUE		
		TOTAL	UNIT	PER UNIT	TOTAL		
BEESWAX	2011	5,642	Lb	\$2.05	\$11,600		
	2010	5,700		\$1.87	\$10,700		
HONEY	2011	136,779	Lb	1.66	227,000		
	2010	169,058		1.50	253,000		
PACKAGED BEES	2011	227,264	Lb	14.26	3,241,000		
	2010	164,480		13.36	2,197,000		
POLLINATION	2011	Includes almonds, prunes, sunflowers, onions, clover and vine seeds			9,327,000		
	2010				8,748,000		
QUEEN BEES	2011	211,228	Each	16.78	3,544,000		
	2010	193,243		14.06	2,717,000		
TOTALS	2011				\$16,351,000		
	2010				\$13,926,000		

## SEED CROPS

### Production and Value of Agricultural Products

COMMODITY	YEAR	PRODUCTION			VALUE			
		ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL	
BEANS	2011	873	1,980	1,728,540	Lb	\$0.62	\$1,072,000	
	2010	989	2,300	2,274,700		\$0.43	\$978,000	
RICE	2011	2,286	8,517	19,469,862	Lb	0.14	2,726,000	
	2010	2,544	8,950	22,768,800		0.22	5,009,000	
SUNFLOWER	2011	6,245	994	6,207,530	Lb	1.18	7,325,000	
	2010	4,382	1,051	4,605,482		1.10	5,066,000	
VINE CROPS	2011	2,581	Includes cucumbers, melons, pumpkins, squash and watermelons (plus gourds in 2010)			8,553,000		
	2010	3,607				8,919,000		
OTHER SEED	2011	643	Includes carrots and onions			2,281,000		
	2010	895	Includes, carrots, leeks and onions			4,016,000		
TOTALS	2011	12,628				\$21,957,000		
	2010	12,417				\$23,988,000		



Almond pollination



Pumpkins for seed



## LIVESTOCK and POULTRY

### Production and Value of Agricultural Products

COMMODITY	YEAR	NUMBER OF HEAD	TOTAL WEIGHT	UNIT	PER UNIT	VALUE TOTAL
BEEF CATTLE	2011	12,627	N/A	Head	\$980.00	\$12,374,000
DAIRY CATTLE	2011	16,362	N/A	Head	\$1,330.00	\$21,761,000
CATTLE and CALVES	2010	32,085	213,177	Cwt	\$82.64	\$17,617,000
SHEEP and LAMBS	2011	6,154	6,400	Cwt	66.00	406,000
	2010	6,480	6,672		106.00	707,000
HOGS and PIGS	2011	1,929	3,491	Cwt	160.00	309,000
	2010	1,910	3,438		55.10	189,000
POULTRY	2011	Included under Livestock and Poultry Products to protect individual operations.				
	2010					
<b>TOTALS</b>	<b>2011</b>					<b>\$34,850,000</b>
	<b>2010</b>					<b>\$18,513,000</b>

## LIVESTOCK and POULTRY PRODUCTS

### Production and Value of Agricultural Products

COMMODITY	YEAR	PRODUCTION	UNIT	PER UNIT	VALUE TOTAL
MILK: Market	2011	3,966,710	Cwt	\$18.54	\$73,543,000
	2010	3,698,452		\$14.78	\$54,663,000
MILK: Manufacturing	2011	140,126	Cwt	18.77	2,630,000
	2010	186,818		14.64	2,735,000
WOOL	2011	73,208	Lbs	1.70	124,000
	2010	75,473		1.25	94,300
MISCELLANEOUS	2011				488,000
	2010				482,000
<b>TOTALS</b>	<b>2011</b>				<b>\$76,785,000</b>
	<b>2010</b>				<b>\$57,974,000</b>



Holsteins at pasture

\* revised

# VALUE of AGRICULTURAL and FOREST PRODUCTION

VALUE of AGRICULTURAL PRODUCTS	2010	2011
Field Crops	\$212,190,000	\$201,577,000
Fruit and Nut Crops	234,854,000	255,690,000
Livestock and Poultry Products	57,974,000 *	76,785,000
Livestock and Poultry	18,513,000	34,850,000
Seed Crops	23,988,000	21,957,000
Apiary Products	13,926,000	16,351,000
Nursery Products	4,475,000	3,487,000
Vegetable Crops	184,000	456,000
<b>TOTAL AGRICULTURAL PRODUCTION</b>	<b>\$566,104,000 *</b>	<b>\$611,153,000</b>

VALUE of FOREST PRODUCTS	2010	2011
Timber	\$0	\$67,000
Firewood	102,000	101,000
Christmas Trees	34,500	37,000
<b>TOTAL FOREST PRODUCTION</b>	<b>\$137,000</b>	<b>\$205,000</b>

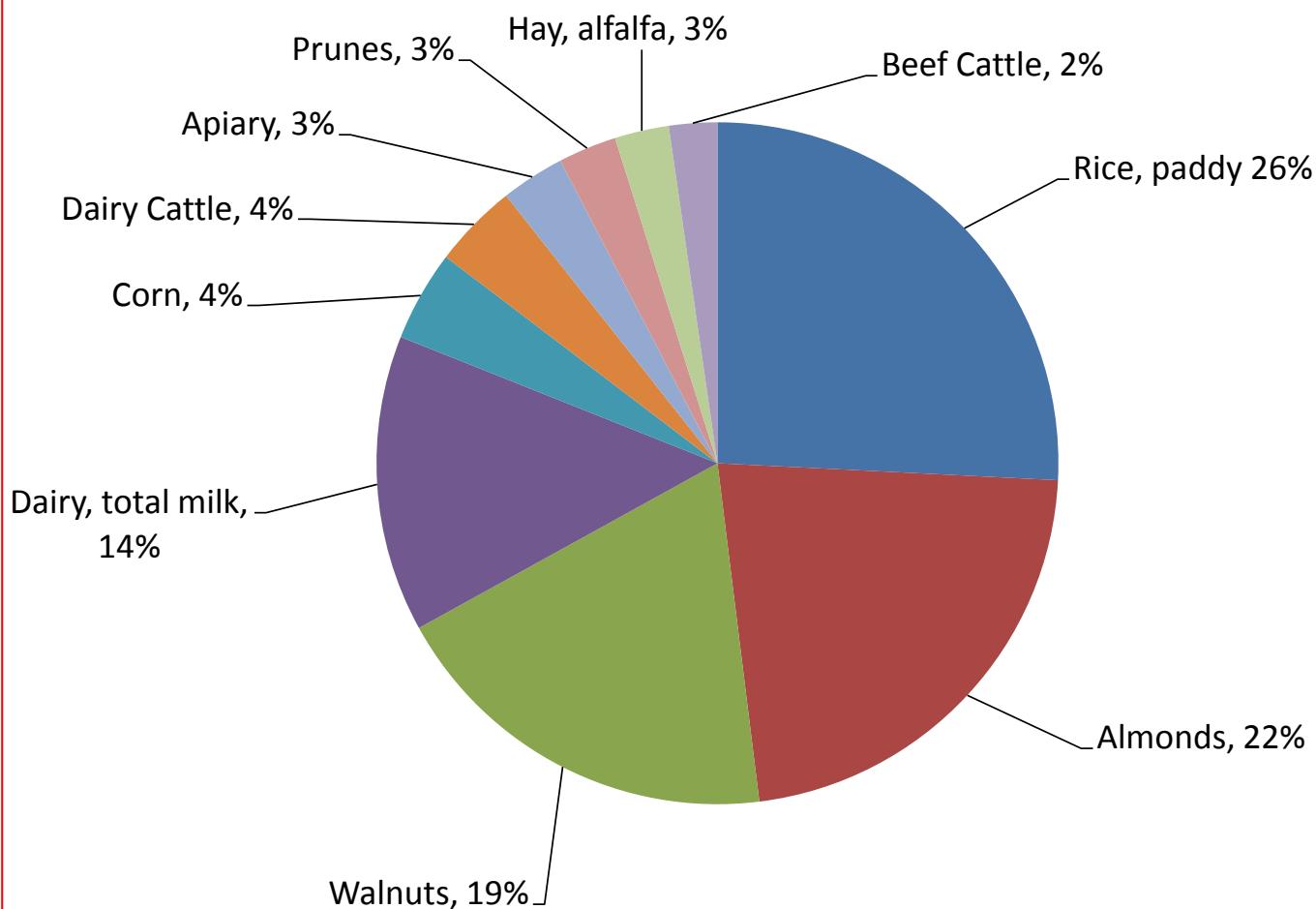
**GRAND TOTAL ALL PRODUCTION**      \$566,241,000 \*      \$611,358,000

\* Revised

# GLENN COUNTY'S TEN LEADING AGRICULTURAL COMMODITIES

Commodity	2010 Value	2011 Value
1) Rice, paddy	\$165,762,000	\$139,695,000
2) Almonds	104,397,000	120,476,000
3) Walnuts	70,224,000	102,567,000
4) Dairy, total milk	57,398,000	76,173,000
5) Corn	14,325,000	23,306,000
6) Dairy Cattle	N/A	21,761,000
7) Apiary	13,926,000	16,351,000
8) Prunes	21,580,000	14,989,000
9) Hay, alfalfa	9,702,000	13,922,000
10) Beef Cattle	N/A	12,374,000

## Ten Leading Commodities 2011

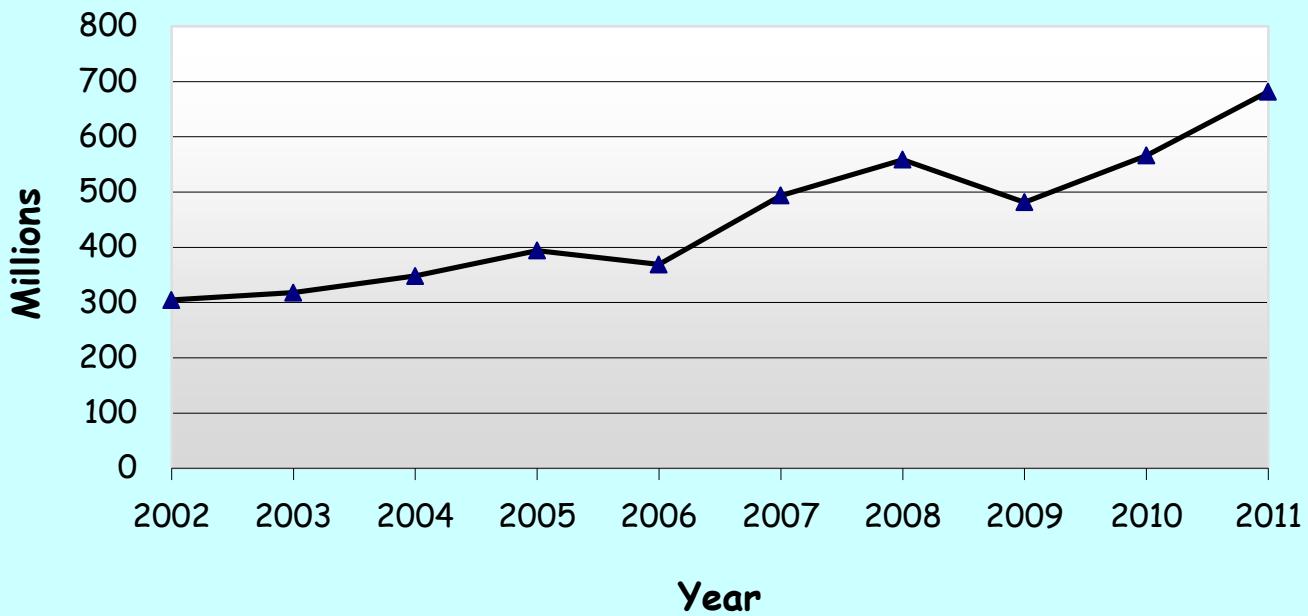


# TEN YEAR PRODUCTION COMPARISON

2002 - 2011

<u>Year</u>	<u>Grand Total</u>
2011	\$681,888,000
2010	\$566,308,000
2009	\$481,677,000
2008	\$558,760,000
2007	\$493,848,000
2006	\$369,014,000
2005	\$394,212,000
2004	\$348,138,000
2003	\$318,042,000
2002	\$304,664,000

Ten Year Comparison



*Cultivators of the earth are the most valuable citizens. They are the most vigorous, the most independant, the most virtuous, and they are tied to their country and wedded to its liberty and interests by the most lasting bands.*

- Thomas Jefferson

### PEST EXCLUSION

Terminal Inspections	Number of Shipments Profiled	Number of Shipments Inspected	Rejections
Postal	0	0	0
Truck	2	2	0
Other	25	25	0

Origin Certification	Number of Inspections
Field Inspections	533
Phyto Certificates Issued	2,876

### ORGANIC FARMING

Crop	Number of Farms	Acres
Almonds	2011 6	185
	2010 7	141
Citrus	2011 7	134
	2010 5	99
Dairy/Livestock	2011 1	2,000 animals
	2010 1	2,000 animals
Olives	2011 7	125
	2010 6	124
Pasture/Range	2011 3	197
	2010 6	4,016
Rice	2011 8	1,531
	2010 11	1,741
Ryegrass	2011 2	449
	2010 2	534
Wheat	2011 5	3006
	2010 4	2,123
Miscellaneous*	2011 19	421
	2010 27	1,277
Processors/Handlers	2011 3	N/A
	2010 3	N/A
<b>Total registered growers, handlers and processors</b>	<b>2011 38</b>	<b>Total acres 6,048</b>
	2010 42	10,055

\* Includes: beans, blackberries, chestnuts, fallow ground, fruit trees, kiwi, herbs, peas, perisimmon, pistachio, prickly pear, pomegranate, safflower, sorghum, tricale vetch, vegetables and wild rice.

# GLENN COUNTY SUSTAINABLE AGRICULTURE

## BIOLOGICAL CONTROL

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

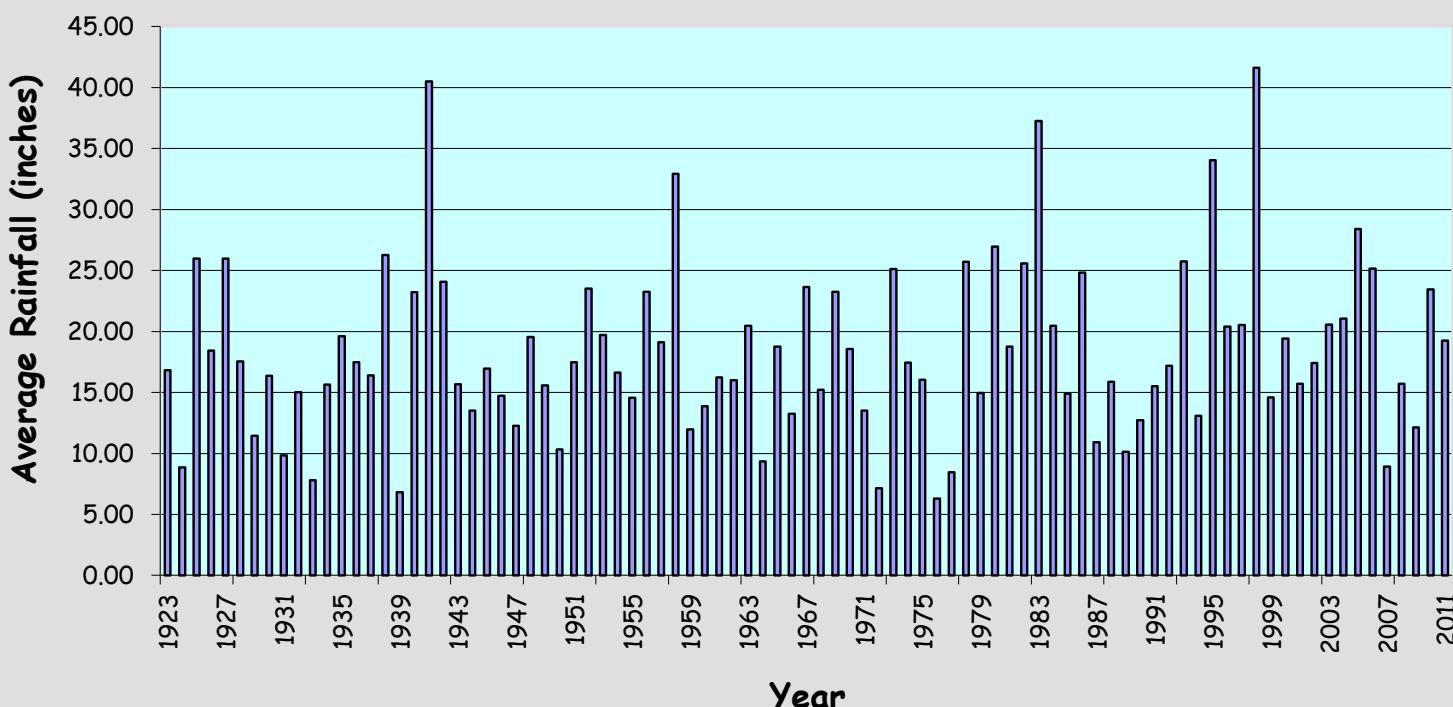
## PEST ERADICATION

Pest	Control Agent	Number of Locations
Canada Thistle	<i>Cirsium arvense</i>	Mechanical
Dyer's Woad	<i>Isatis tinctoria</i>	Chemical/Mechanical
Perennial Pepperweed	<i>Lepidium latifolium</i>	Chemical/Mechanical
Plumeless Thistle	<i>Carduus acanthoides</i>	Mechanical
Russian Knapweed	<i>Acroptilon repens</i>	Chemical
Silverleaf Nightshade	<i>Solanum elaeagnifolium</i>	Chemical/Mechanical
Hoarycress (Whitetop)	<i>Cardaria draba</i>	Chemical/Mechanical
Purple Starthistle	<i>Centaurea calcitrapa</i>	Chemical/Mechanical
Diffuse Knapweed	<i>Centaurea diffusa</i>	Chemical/Mechanical
Klamath Weed	<i>Hypericum perforatum</i>	Chemical/Mechanical
Spanish Broom	<i>Genista juncea</i>	Mechanical
Tree of Heaven	<i>Ailanthus altissima</i>	Chemical/Mechanical

# ANNUAL RAINFALL at WILLOWS, CALIFORNIA

Year	Inches	Year	Inches	Year	Inches	Year	Inches
1887 - 1888	..... 8.97	1918 - 1919	..... 12.90	1949 - 1950	..... 10.32	1980 - 1981	..... 18.76
1888 - 1889	..... 10.30	1919 - 1920	..... 7.70	1950 - 1951	..... 17.48	1981 - 1982	..... 25.58
1889 - 1890	..... 29.94	1920 - 1921	..... 21.28	1951 - 1952	..... 23.50	1982 - 1983	..... 37.25
1890 - 1891	..... 19.01	1921 - 1922	..... 13.44	1952 - 1953	..... 19.70	1983 - 1984	..... 20.47
1891 - 1892	..... 18.82	1922 - 1923	..... 16.81	1953 - 1954	..... 16.64	1984 - 1985	..... 14.89
1892 - 1893	..... 27.30	1923 - 1924	..... 8.86	1954 - 1955	..... 14.57	1985 - 1986	..... 24.82
1893 - 1894	..... 11.15	1924 - 1925	..... 25.99	1955 - 1956	..... 23.24	1986 - 1987	..... 10.92
1894 - 1895	..... 26.04	1925 - 1926	..... 18.44	1956 - 1957	..... 19.11	1987 - 1988	..... 15.86
1895 - 1896	..... 22.18	1926 - 1927	..... 25.99	1957 - 1958	..... 32.93	1988 - 1989	..... 10.12
1896 - 1897	..... 18.82	1927 - 1928	..... 17.54	1958 - 1959	..... 11.96	1989 - 1990	..... 12.71
1897 - 1898	..... 6.58	1928 - 1929	..... 11.46	1959 - 1960	..... 13.88	1990 - 1991	..... 15.51
1898 - 1899	..... 13.05	1929 - 1930	..... 16.37	1960 - 1961	..... 16.24	1991 - 1992	..... 17.19
1899 - 1900	..... 15.23	1930 - 1931	..... 9.85	1961 - 1962	..... 16.01	1992 - 1993	..... 25.76
1900 - 1901	..... 17.49	1931 - 1932	..... 15.01	1962 - 1963	..... 20.48	1993 - 1994	..... 13.10
1901 - 1902	..... 21.67	1932 - 1933	..... 7.79	1963 - 1964	..... 9.34	1994 - 1995	..... 34.04
1902 - 1903	..... 17.10	1933 - 1934	..... 15.65	1964 - 1965	..... 18.75	1995 - 1996	..... 20.39
1903 - 1904	..... 20.28	1934 - 1935	..... 19.62	1965 - 1966	..... 13.26	1996 - 1997	..... 20.52
1904 - 1905	..... 24.55	1935 - 1936	..... 17.48	1966 - 1967	..... 23.65	1997 - 1998	..... 41.62
1905 - 1906	..... 19.85	1936 - 1937	..... 16.40	1967 - 1968	..... 15.21	1998 - 1999	..... 14.59
1906 - 1907	..... 17.88	1937 - 1938	..... 26.28	1968 - 1969	..... 23.25	1999 - 2000	..... 19.43
1907 - 1908	..... 13.44	1938 - 1939	..... 6.82	1969 - 1970	..... 18.56	2000 - 2001	..... 15.70
1908 - 1909	..... 22.09	1939 - 1940	..... 23.21	1970 - 1971	..... 13.50	2001 - 2002	..... 17.40
1909 - 1910	..... 14.36	1940 - 1941	..... 40.50	1971 - 1972	..... 7.15	2002 - 2003	..... 20.56
1910 - 1911	..... 17.75	1941 - 1942	..... 24.07	1972 - 1973	..... 25.11	2003 - 2004	..... 21.07
1911 - 1912	..... 11.26	1942 - 1943	..... 15.68	1973 - 1974	..... 17.45	2004 - 2005	..... 28.39
1912 - 1913	..... 13.18	1943 - 1944	..... 13.52	1974 - 1975	..... 16.03	2005 - 2006	..... 25.17
1913 - 1914	..... 29.18	1944 - 1945	..... 16.94	1975 - 1976	..... 6.30	2006 - 2007	..... 8.93
1914 - 1915	..... 27.19	1945 - 1946	..... 14.72	1976 - 1977	..... 8.46	2007 - 2008	..... 15.71
1915 - 1916	..... 18.11	1946 - 1947	..... 12.28	1977 - 1978	..... 25.72	2008 - 2009	..... 12.12
1916 - 1917	..... 11.43	1947 - 1948	..... 19.56	1978 - 1979	..... 14.97	2009 - 2010	..... 23.46
1917 - 1918	..... 11.90	1948 - 1949	..... 15.59	1979 - 1980	..... 26.95	2010 - 2011	..... 19.25

**Annual Rainfall (Willows, CA)**



# EXPORT COMMODITIES

## Commodities Grown and Exported From Glenn County in 2011

### Seed:

Alfalfa	Carrot	Gourd	Mustard	Pumpkin	Tomato
Bean	Chili pepper	Leek	Okra	Rice	Watermelon
Broccoli	Coriander	Lettuce	Onion	Safflower	<b>Nuts:</b>
Cabbage	Corn	Lima bean	Pea	Squash	Almond
Cantaloupe	Cucumber	Melon	Pepper	Sunflower	Pistachio

**Fruit:**  
Apricot  
**Lumber:**  
Walnut



## Export Trade Partners of Glenn County in 2011

Algeria	Hong Kong	Romania
Argentina	Hungary	Russian Federation
Australia	India	Saint Vincent & the Grenadines
Austria	Iraq	Saudi Arabia
Bahamas	Israel	Serbia
Bahrain	Italy	Singapore
Barbados	Japan	South Africa
Belgium	Jordan	Spain
Brazil	Kenya	Sudan
Bulgaria	Korea, Republic of	Sweden
Canada	Latvia	Switzerland
Chili	Lebanon	Taiwan
China	Lithuania	Thailand
Costa Rica	Malaysia	Tunisia
Czech Republic	Mexico	Turkey
Denmark	Moldova, Republic of	Ukraine
Dominican Republic	Morocco	United Arab Emirates
Ecuador	Netherlands	United Kingdom
Egypt	New Zealand	Uruguay
Finland	Norway	Venezuela, Bolivarian Republic of
France	Pakistan	Viet Nam
Germany	Peru	Yemen
Greece	Portugal	

# 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**  
Lester Messina

**Environmental Biologists:**  
Greg Hinton      Craig Boschi  
Tom Wong      Lisa Hunter  
Jason Beauchamp

**Environmental Biologist Aide:**  
Dottie LaCroix

**Support Staff:**  
Tina Brothers  
Jennifer Kline  
Gaylee Curcio

**Public Service Employees:**  
John Tolley  
Anthony Galvan  
Richard Daniel

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

**Public Service Employee:** Natalie Pacheco



Flooded rice paddy before seedling emergence

# **GLENN COUNTY**

## **2012**

### **Annual Crop & Livestock Report**



**THE FOUR  
SEASONS  
OF RICE**



# Glenn County

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 (dark part of map below) and the Sacramento River is located on the east. Interstate 5 runs north and south through the middle of this rich farm land. The population of Glenn County is slightly over 29,000 and the two major cities, Willows and Orland, lie along Interstate 5.

With over 1,000 farms and 489,000 acres under cultivation, agriculture remains the primary source of Glenn County's economy. 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 on March 11, 1891. 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.

**Glenn County began a Certified Farmers Market in 2010. This new tradition is continuing in 2013. The markets are held in Willows on Wednesdays and in Orland on Saturdays. Both markets run from June through October.**



# County of Glenn

## DEPARTMENT OF AGRICULTURE

Jim Donnelly, Agricultural Commissioner  
Sealer of Weights and Measures

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

TO: Karen Ross, Secretary  
State of California  
Department of Food and Agriculture

and

The Honorable Board of Supervisors

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

I am pleased to submit the 2012 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 2012 gross production of agricultural commodities was valued at \$697,030,000. This represents an increase of 12 percent from the 2011 gross agricultural production value of \$611,358,000.

Rice, again, is in the lead this year as the number one commodity with a total value of \$145,551,000 for paddy rice (this does not include organic rice and rice grown for seed). Almonds are in the number two spot with a value of \$131,229,000, which is up 8% from 2011 due to an increase in acres and price, although yield was down slightly. Rice and almonds represent 48% of the top 10 commodities for 2012. The value of walnuts also increased again (16%), due to an increase in acres coming into production and price.

The yield of table olives increased to near normal levels compared to the year before (92%) due to cooperative weather. The acres of oil olives continues to increase dramatically each year as planted acres come into production. This year, the production yield for olive oil is presented two ways (in gallons and in tons). The largest oil olive mill in North America is located in Glenn County, just outside of Artois, and is continuing to expand.

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,



Jim Donnelly  
Agricultural Commissioner

# FIELD CROPS

## Production and Value of Agricultural Products

COMMODITY	YEAR	PRODUCTION			VALUE		
		ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
BARLEY	2012	1,098	1.87	2,053	Ton	\$292	\$599,000
	2011			Included under miscellaneous			
BEANS	2012	1,787	0.82	1,465	Ton	955	1,399,000
	2011	1,104	1.50	1,656		969	1,605,000
CORN	2012	17,557	6.47	113,594	Ton	238	27,035,000
	2011	16,215	6.91	112,046		208	23,306,000
COTTON, LINT	2012	1,683	3.16	5,318	500 lb.	400	2,127,000
	2011	2,496	2.34	5,841	(bale)	512	2,991,000
COTTON, SEED	2012			2,217	Ton		831,000
	2011			1,718			618,000
FODDER, FROM OATS	2012	2,225	4.00	8,900	Ton	149	1,326,000
	2011	958	6.50	6,227		210	1,308,000
HAY, ALFALFA	2012	12,758	6.12	78,079	Ton	197	15,382,000
	2011	10,992	6.27	68,920		202	13,922,000
HAY, OTHER	2012	2,068	1.61	3,329	Ton	150	499,000
	2011	2,607	2.72	7,901		121	956,000
PASTURE, IRRIGATED	2012	9,383			Acres	162	1,520,000
	2011	8,145				162	1,319,000
RANGE	2012	230,000			Acres	6	1,380,000
	2011	230,000				6	1,380,000
RICE, PADDY	2012	84,760	4.24	359,384	Ton	405	145,551,000
	2011	84,923	4.47	379,605		368	139,695,000
SILAGE, CORN	2012	1,936	28.34	54,866	Ton	45	2,478,000
	2011	1,453	29.00	42,137		58	2,444,000
WHEAT	2012	10,853	3.09	33,536	Ton	215	7,210,000
	2011	13,480	2.53	34,104			7,060,000
WHEAT FOR FODDER	2012	3,070	15.00	46,050	Ton	38	1,750,000
	2011			Included under miscellaneous			
MISCELLANEOUS	2012	13,185		Includes organic rice, safflower, sudangrass and straw			5,812,000
	2011	14,002		from barley, rice and wheat (includes barley for 2011)			4,973,000
TOTALS	2012	392,363					\$214,899,000
	2011	386,375					\$201,577,000

1 714 pounds of seed per bale

2 Includes USDA support price



# FRUIT and NUT CROPS

## Production and Value of Agricultural Products

Commodity	Year	Acreage	Per Acre	PRODUCTION		VALUE		
				Total	Unit	Per Unit	Total	
ALMONDS	2012	36,259	0.78	28,282	Meat Tons	\$4,640	\$131,229,000	
	2011	33,239	0.91	30,247		\$3,983	\$120,476,000	
ALMOND HULLS	2012			35,253	Ton	100	3,525,000	
	2011			37,809		90	3,403,000	
CITRUS	2012	342	0.35	120	Ton	950	114,000	
	2011	429	0.35	150		987	148,000	
GRAPES	2012	1,062	6.52	6,924	Ton	702	4,861,000	
	2011	1,100	6.15	6,765		553	3,741,000	
OLIVES, Table	2012	4,485	4.81	21,554	Ton	994	21,425,000	
	2011	4,485	0.37	1,659		968	1,606,000	
OLIVES, Oil	2012	4,398	173.53	763,185	Gallon	14	10,679,000	
	2012	4,398	4.48	19,703		542	10,679,000	
	2011	3,890	2.88	11,203		449	5,030,000	
PISTACHIOS	2012	1,474	2.07	3,051	Inshell	3,973	12,122,000	
	2011	1,351	0.45	608		3,609	2,194,000	
PRUNES	2012	5,966	2.14	12,767	Dry Ton	1,232	15,729,000	
	2011	5,743	2.21	12,692		1,181	14,989,000	
WALNUTS	2012	19,545	2.18	42,608	Inshell	2,863	121,987,000	
	2011	17,596	2.34	41,175		2,491	102,567,000	
MISCELLANEOUS	2012	376	Includes black walnuts, blueberries, cherries, kiwis, pecans and Asian pears.				2,106,000	
	2011	327					1,536,000	
TOTALS	2012	73,907					\$323,777,000	
	2011	68,160					\$255,690,000	

1 36.4 gallons of olive oil equals 1 ton harvested olives



# NURSERY PRODUCTS

## Production and Value of Agricultural Products

COMMODITY	YEAR	ACREAGE	TOTAL VALUE
<b>TOTALS</b>	<b>2012</b>	<b>241</b>	<b>\$4,804,000</b>
	2011	217	Includes sod, strawberry plants, etc. \$3,487,000

# VEGETABLE CROPS

## Production and Value of Agricultural Products

COMMODITY	YEAR	ACREAGE	PRODUCTION		VALUE		
			PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
<b>TOTALS</b>	<b>2012</b>		<b>58</b>				<b>\$333,000</b>
	2011		130				\$456,000

\* Includes a variety of vegetables including cucumbers, eggplant, melons, onions, peppers, pumpkins, squash, strawberries, sweet corn, tomatoes (fresh) and watermelons

\*\* Includes cucumbers, eggplant, melons, onions, peppers, pumpkins, squash, strawberries, sweet corn, tomatoes (fresh & processing) and watermelons



# FOREST PRODUCTS

## Production and Value of Forest Products

COMMODITY	YEAR	PRODUCTION		VALUE		
		UNIT	PER UNIT	TOTAL		
CHRISTMAS TREES	<b>2012</b>	1,900	Each	<b>\$23</b>	<b>\$44,000</b>	
	2011	1,600	Each	\$23	\$37,000	
FIREWOOD	<b>2012</b>	840	Cord	<b>120</b>	<b>101,000</b>	
	2011	840	Cord	120	101,000	
TIMBER	<b>2012</b>	4,520,000	Board Ft	<b>0.17</b>	<b>768,000</b>	
	2011	372,000	Board Ft	0.18	67,000	
<b>TOTALS</b>	<b>2012</b>				<b>\$913,000</b>	
	2011				\$205,000	



# APIARY PRODUCTS

## Production and Value of Agricultural Products

COMMODITY	YEAR	PRODUCTION			VALUE	
		TOTAL	UNIT	PER UNIT	TOTAL	
BEESWAX	2012				Included under miscellaneous	
	2011	5,642	Lb	\$2.05		\$11,600
HONEY	2012				Included under miscellaneous	
	2011	136,779	Lb	1.66		227,000
PACKAGED BEES	2012				200,436	2,760,000
	2011	227,264	Lb	13.77		3,241,000
POLLINATION	2012				Includes almonds, prunes, sunflowers, onions and vine seeds	10,174,000
	2011					9,327,000
QUEEN BEES	2012				226,500	4,095,000
	2011	211,228	Each	18.08		3,544,000
MISCELLANEOUS	2012				Includes beeswax, honey, etc.	55,400
	2011					
TOTALS	2012					\$17,084,000
	2011					\$16,351,000

## SEED CROPS

## Production and Value of Agricultural Products

COMMODITY	YEAR	PRODUCTION			VALUE		
		ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
BEANS	2012	1,305	1,399	1,825,695	Lb	\$0.59	\$1,077,000
	2011	873	1,980	1,728,540	Lb	0.62	\$1,072,000
RICE	2012	2,748	8,550	23,495,400	Lb	0.22	5,169,000
	2011	2,286	8,517	19,469,862	Lb	0.14	2,726,000
SUNFLOWER	2012	5,320	998	5,309,360	Lb	1.20	6,371,000
	2011	6,245	994	6,207,530	Lb	1.18	7,325,000
VINE CROPS	2012	4,509			Includes cucumbers, melons, pumpkins, squash and watermelons		8,326,000
	2011	2,581					8,553,000
OTHER SEED	2012	1,108			Includes barley, carrots and onions		2,627,000
	2011	643			Includes carrots, leeks and onions		2,281,000
TOTALS	2012	14,990					\$23,570,000
	2011	12,628					\$21,957,000



# LIVESTOCK and POULTRY

## Production and Value of Agricultural Products

COMMODITY	YEAR	NUMBER	TOTAL	VALUE		
		OF HEAD	WEIGHT	UNIT	PER UNIT	TOTAL
BEEF CATTLE	2012	12,000	N/A	Head	\$1,140.00	\$13,680,000
	2011	12,627	N/A		\$980.00	\$12,374,000
DAIRY CATTLE	2012	21,000	N/A	Head	1,330	27,930,000
	2011	16,362	N/A		1,330	21,761,000
SHEEP and LAMBS	2012	6,154	N/A	Head	176.00	1,083,000
	2011	6,154	6,400	Cwt	66.00	406,000
HOGS and PIGS	2012	1,871	N/A	Head	150.00	281,000
	2011	1,929	3,491	Cwt	160.00	309,000
POULTRY	2012	Included under Livestock and Poultry Products to protect individual operations.				
	2011					
TOTALS	2012					\$42,974,000
	2011					\$34,850,000

# LIVESTOCK and POULTRY PRODUCTS

## Production and Value of Agricultural Products

COMMODITY	YEAR	PRODUCTION	UNIT	PER UNIT	VALUE
					TOTAL
MILK: Market	2012	3,992,744	Cwt	\$16.52	\$65,978,000
	2011	3,966,710		\$18.54	\$73,543,000
MILK: Manufacturing	2012	117,840	Cwt	17.76	2,093,000
	2011	140,126		18.77	2,630,000
WOOL	2012	63,386	Lbs	1.60	101,000
	2011	63,386		1.70	108,000
MISCELLANEOUS	2012				504,000
	2011				488,000
TOTALS	2012				\$68,676,000
	2011				\$76,769,000



# VALUE of AGRICULTURAL and FOREST PRODUCTION

VALUE of AGRICULTURAL PRODUCTS	2011	2012
Field Crops	\$201,577,000	<b>\$214,899,000</b>
Fruit and Nut Crops	255,690,000	<b>323,777,000</b>
Livestock and Poultry Products	76,785,000	<b>68,676,000</b>
Livestock and Poultry	34,850,000	<b>42,974,000</b>
Seed Crops	21,957,000	<b>23,570,000</b>
Apiary Products	16,351,000	<b>17,084,000</b>
Nursery Products	3,487,000	<b>4,804,000</b>
Vegetable Crops	456,000	<b>333,000</b>
<b>TOTAL AGRICULTURAL PRODUCTION</b>	<b>\$611,153,000</b>	<b>\$696,117,000</b>

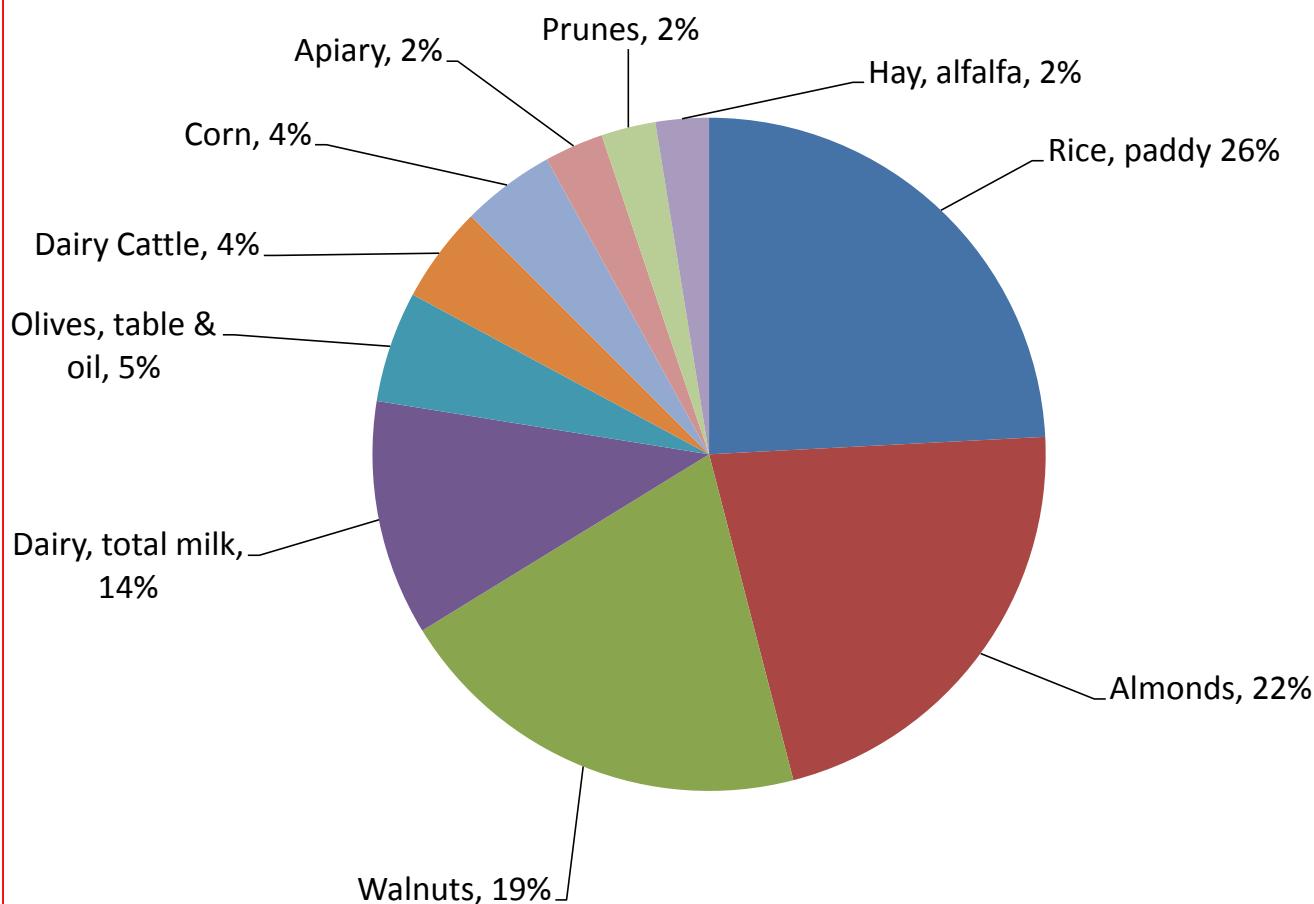
VALUE of FOREST PRODUCTS	2011	2012
Timber	\$67,000	<b>\$768,000</b>
Firewood	101,000	<b>101,000</b>
Christmas Trees	37,000	<b>44,000</b>
<b>TOTAL FOREST PRODUCTION</b>	<b>\$205,000</b>	<b>\$913,000</b>

**GRAND TOTAL ALL PRODUCTION**      **\$611,358,000**      **\$697,030,000**

# GLENN COUNTY'S TEN LEADING AGRICULTURAL COMMODITIES

Commodity	2011 Value	2012 Value
1) Rice, paddy	\$139,695,000	\$145,551,000
2) Almonds	120,476,000	131,229,000
3) Walnuts	102,567,000	121,987,000
4) Dairy, total milk	76,173,000	68,071,000
5) Olives, table & oil	6,636,000	32,104,000
6) Dairy Cattle	21,761,000	27,930,000
7) Corn	23,306,000	27,035,000
8) Apiary	16,351,000	17,084,000
9) Prunes	14,989,000	15,729,000
10) Hay, alfalfa	13,922,000	15,382,000

**Ten Leading Commodities 2012**

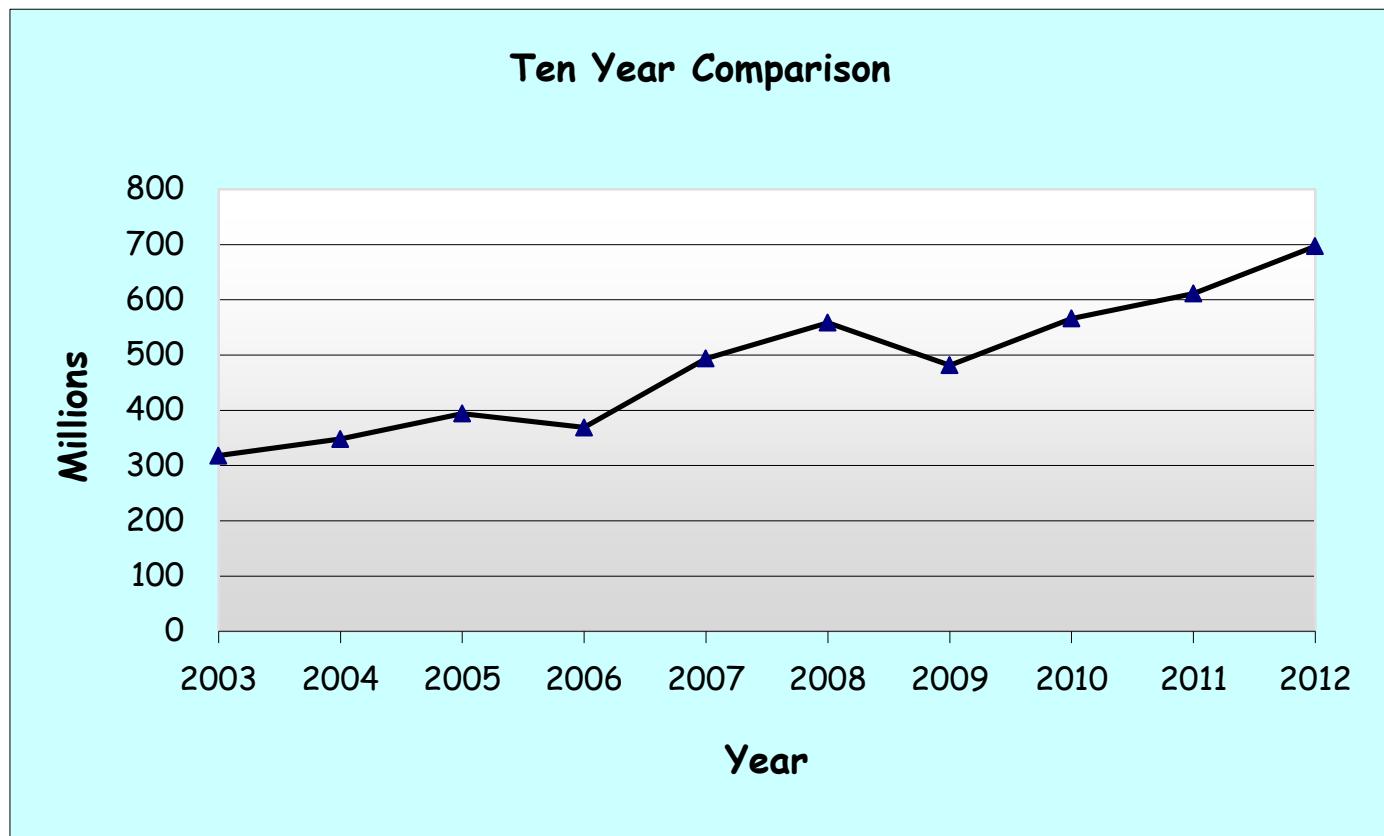


# TEN YEAR PRODUCTION COMPARISON

2003 - 2012

<u>Year</u>	<u>Grand Total</u>
2012	\$697,030,000
2011	\$611,358,000 *
2010	\$566,241,000
2009	\$481,677,000
2008	\$558,760,000
2007	\$493,848,000
2006	\$369,014,000
2005	\$394,212,000
2004	\$348,138,000
2003	\$318,042,000

\* Revised figure from \$681,888,000



*Cultivators of the earth are the most valuable citizens. They are the most vigorous, the most independant, the most virtuous, and they are tied to their country and wedded to its liberty and interests by the most lasting bands.*

- Thomas Jefferson

### PEST EXCLUSION

Terminal Inspections	Number of Shipments Profiled	Number of Shipments Inspected	Rejections
Postal	0	0	0
Truck	78	78	0
Other	34	31	0

Origin Certification	Number of Inspections
Field Inspections	420
Phyto Certificates Issued	3,378

### ORGANIC FARMING

Crop	Number of Farms	Acres
Almonds	2012 2011	6 6
Citrus	2012 2011	7 7
Dairy/Livestock	2012 2011	1 1
Olives	2012 2011	7 7
Pasture/Range	2012 2011	4 3
Rice	2012 2011	9 8
Ryegrass	2012 2011	2 2
Wheat	2012 2011	3 5
Miscellaneous*	2012 2011	19 19
Processors/Handlers	2012 2011	3 3
<b>Total registered growers, handlers and processors</b>	<b>2012 2011</b>	<b>40 38</b>
		<b>Total acres</b>
		9,103 6,048

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

# GLENN COUNTY SUSTAINABLE AGRICULTURE

## BIOLOGICAL CONTROL

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

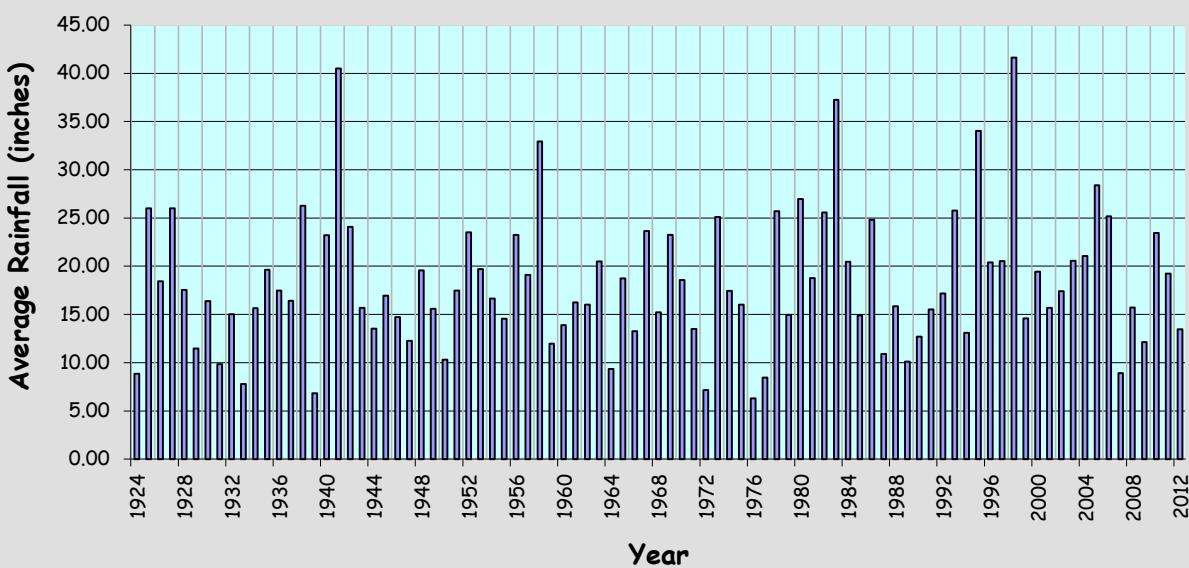
## PEST ERADICATION

Pest	Control Agent	Number of Locations
<b>Canada Thistle</b> <i>Cirsium arvense</i>	Mechanical	1
<b>Dyer's Woad</b> <i>Isatis tinctoria</i>	Chemical/Mechanical	2
<b>Perennial Pepperweed</b> <i>Lepidium latifolium</i>	Chemical/Mechanical	41
<b>Plumeless Thistle</b> <i>Carduus acanthoides</i>	Mechanical	3
<b>Russian Knapweed</b> <i>Acroptilon repens</i>	Chemical	2
<b>Silverleaf Nightshade</b> <i>Solanum elaeagnifolium</i>	Chemical/Mechanical	27
<b>Hoarycress (Whitetop)</b> <i>Cardaria draba</i>	Chemical/Mechanical	11
<b>Purple Starthistle</b> <i>Centaurea calcitrapa</i>	Chemical/Mechanical	2
<b>Diffuse Knapweed</b> <i>Centaurea diffusa</i>	Chemical/Mechanical	1
<b>Klamath Weed</b> <i>Hypericum perforatum</i>	Chemical/Mechanical	4
<b>Spanish Broom</b> <i>Genista juncea</i>	Mechanical	2
<b>Tree of Heaven</b> <i>Ailanthus altissima</i>	Chemical/Mechanical	2

# ANNUAL RAINFALL at WILLOWS, CALIFORNIA

Year	Inches	Year	Inches	Year	Inches	Year	Inches
1888 - 1889	10.30	1919 - 1920	7.70	1950 - 1951	17.48	1981 - 1982	25.58
1889 - 1890	29.94	1920 - 1921	21.28	1951 - 1952	23.50	1982 - 1983	37.25
1890 - 1891	19.01	1921 - 1922	13.44	1952 - 1953	19.70	1983 - 1984	20.47
1891 - 1892	18.82	1922 - 1923	16.81	1953 - 1954	16.64	1984 - 1985	14.89
1892 - 1893	27.30	1923 - 1924	8.86	1954 - 1955	14.57	1985 - 1986	24.82
1893 - 1894	11.15	1924 - 1925	25.99	1955 - 1956	23.24	1986 - 1987	10.92
1894 - 1895	26.04	1925 - 1926	18.44	1956 - 1957	19.11	1987 - 1988	15.86
1895 - 1896	22.18	1926 - 1927	25.99	1957 - 1958	32.93	1988 - 1989	10.12
1896 - 1897	18.82	1927 - 1928	17.54	1958 - 1959	11.96	1989 - 1990	12.71
1897 - 1898	6.58	1928 - 1929	11.46	1959 - 1960	13.88	1990 - 1991	15.51
1898 - 1899	13.05	1929 - 1930	16.37	1960 - 1961	16.24	1991 - 1992	17.19
1899 - 1900	15.23	1930 - 1931	9.85	1961 - 1962	16.01	1992 - 1993	25.76
1900 - 1901	17.49	1931 - 1932	15.01	1962 - 1963	20.48	1993 - 1994	13.10
1901 - 1902	21.67	1932 - 1933	7.79	1963 - 1964	9.34	1994 - 1995	34.04
1902 - 1903	17.10	1933 - 1934	15.65	1964 - 1965	18.75	1995 - 1996	20.39
1903 - 1904	20.28	1934 - 1935	19.62	1965 - 1966	13.26	1996 - 1997	20.52
1904 - 1905	24.55	1935 - 1936	17.48	1966 - 1967	23.65	1997 - 1998	41.62
1905 - 1906	19.85	1936 - 1937	16.40	1967 - 1968	15.21	1998 - 1999	14.59
1906 - 1907	17.88	1937 - 1938	26.28	1968 - 1969	23.25	1999 - 2000	19.43
1907 - 1908	13.44	1938 - 1939	6.82	1969 - 1970	18.56	2000 - 2001	15.70
1908 - 1909	22.09	1939 - 1940	23.21	1970 - 1971	13.50	2001 - 2002	17.40
1909 - 1910	14.36	1940 - 1941	40.50	1971 - 1972	7.15	2002 - 2003	20.56
1910 - 1911	17.75	1941 - 1942	24.07	1972 - 1973	25.11	2003 - 2004	21.07
1911 - 1912	11.26	1942 - 1943	15.68	1973 - 1974	17.45	2004 - 2005	28.39
1912 - 1913	13.18	1943 - 1944	13.52	1974 - 1975	16.03	2005 - 2006	25.17
1913 - 1914	29.18	1944 - 1945	16.94	1975 - 1976	6.30	2006 - 2007	8.93
1914 - 1915	27.19	1945 - 1946	14.72	1976 - 1977	8.46	2007 - 2008	15.71
1915 - 1916	18.11	1946 - 1947	12.28	1977 - 1978	25.72	2008 - 2009	12.12
1916 - 1917	11.43	1947 - 1948	19.56	1978 - 1979	14.97	2009 - 2010	23.46
1917 - 1918	11.90	1948 - 1949	15.59	1979 - 1980	26.95	2010 - 2011	19.25
1918 - 1919	12.90	1949 - 1950	10.32	1980 - 1981	18.76	2011 - 2012	13.47

**Annual Rainfall (Willows, CA)**



# EXPORT COMMODITIES

## Commodities Grown and Exported From Glenn County in 2012

### Seed:

Bean	Chili pepper	Leek	Okra	Rice	Watermelon
Broccoli	Coriander	Lettuce	Onion	Safflower	<b>Nuts:</b>
Cabbage	Corn	Lima bean	Pea	Squash	Almond
Cantaloupe	Cucumber	Melon	Pepper	Sunflower	Pistachio
Carrot	Gourd	Mustard	Pumpkin	Tomato	Walnut



## Export Trade Partners of Glenn County in 2012

Algeria	Hong Kong	Romania
Argentina	Hungary	Russian Federation
Australia	India	Saint Vincent & the Grenadines
Austria	Iraq	Saudi Arabia
Bahamas	Israel	Serbia
Bahrain	Italy	Singapore
Barbados	Japan	South Africa
Belgium	Jordan	Spain
Brazil	Kenya	Sudan
Bulgaria	Korea, Republic of	Sweden
Canada	Latvia	Switzerland
Chili	Lebanon	Taiwan
China	Lithuania	Thailand
Costa Rica	Malaysia	Tunisia
Czech Republic	Mexico	Turkey
Denmark	Moldova, Republic of	Ukraine
Dominican Republic	Morocco	United Arab Emirates
Ecuador	Netherlands	United Kingdom
Egypt	New Zealand	Uruguay
Finland	Norway	Venezuela, Bolivarian Republic of
France	Pakistan	Viet Nam
Germany	Peru	Yemen
Greece	Portugal	

# 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**  
Lester Messina (retired 12/30/12)

**Environmental Biologists:**

Greg Hinton	Craig Boschi
Tom Wong	Lisa Hunter
Jason Beauchamp	Brian Taylor (joined us 3/19/13)

**Environmental Biologist Aide:**

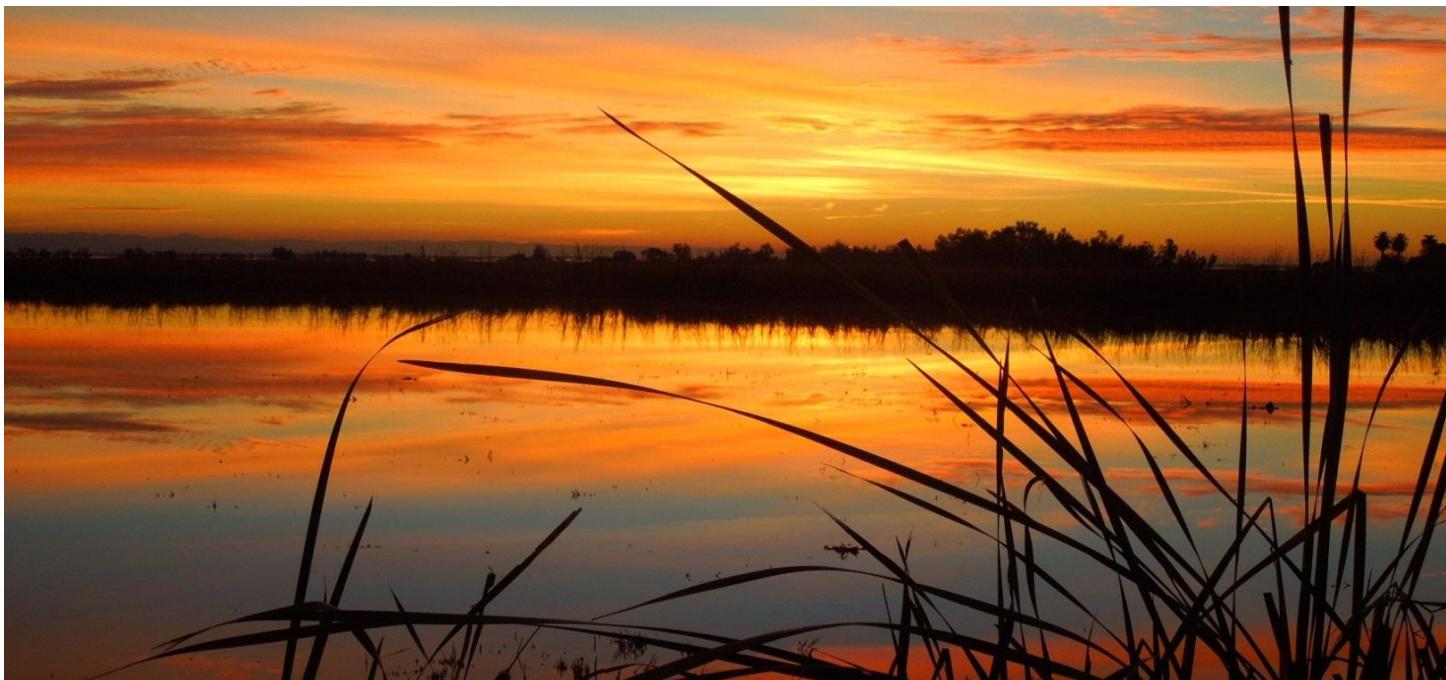
Dottie LaCroix

**Support Staff:**

Tina Brothers  
Jennifer Kline  
Gaylee Curcio

**Air Pollution Staff:**

Kevin Tokunaga	Eric Scott
Ian Ledbetter	Kathryn McDaniel
Dana Owens	Delia Azure



**Glenn County Agricultural Commissioner's Office**

# 2013 Annual Crop & Livestock Report



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# County of Glenn

Jim Donnelly, Agricultural Commissioner  
Sealer of Weights & Measures

## DEPARTMENT OF AGRICULTURE

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.

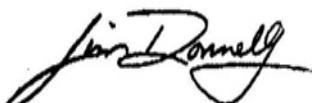
Rice, again, is in the lead this year as the number one commodity with a total value of \$176,494,000 for paddy rice, an increase of 21% due to higher value, yield and an increase in acres (this does not include organic rice and rice grown for seed which brings the total for all rice to \$184,593,000). 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			VALUE		
		Acreage	Per Acre	Total	Unit	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		14	10,679,000
OLIVES, Table	2013	4,450	4.38	19,491	Ton	619	12,065,000
	2012	4,398	4.48	19,703		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
MISCELLANE-	2013	609	Includes black walnuts, blueberries, cherries, kiwis, peaches, pecans and Asian pears				2,663,000
OUS	2012	376					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	Year	PRODUCTION		VALUE				
		Acreage	Per Acre	Total	Unit	Per Unit		
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 and straw from barley, rice and wheat				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 queen	\$2,960,000
	2012	200,436	queen	13.77		\$2,760,000
POLLINATION	2013				Includes almonds, prunes, sunflowers, onions and vine seeds	
	2012					
QUEEN BEES	2013				287,276 Each	\$13,498,000
	2012	226,500		18.08		10,174,000
MISCELLANEOUS	2013				Includes beeswax, honey, etc.	
	2012					
TOTALS	2013					\$21,928,000
	2012					\$17,084,000



## SEED CROPS

### Production and Value of Agricultural Products

COMMODITY	Year	PRODUCTION			VALUE			
		Acreage	Per Acre	Total	Unit	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	8,326,000	
	2012	4,509						
OTHER SEEDS	2013	1,671	Includes beets, broccoli, carrots, herbs, kale, oats, onions and radishes			12,169,000	2,627,000	
	2012	1,108						
TOTALS	2013	11,366				\$30,460,000	\$23,570,000	
	2012	14,990						

# NURSERY PRODUCTS

## Production and Value of Agricultural Products

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



# VEGETABLE CROPS

## Production and Value of Agricultural Products

COMMODITY	Year	Acreage	Total
<b>TOTALS</b>	<b>2013</b>	<b>138</b>	<b>\$554,000</b>
	2012	58	Includes a variety of vegetables including cucumbers, eggplant, melons, onions, peppers, pumpkins, squash, strawberries, sweet corn, tomatoes (fresh & processing) and watermelons <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 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	\$23	\$37,000	
	2012	1,900	\$23	\$44,000	
FIREWOOD	2013	840	120	101,000	
	2012	840	120	101,000	
TIMBER	2013	1,048,000	.20	210,000	
	2012	4,520,000	0.17	768,000	
TOTALS	2013			\$348,000	
	2012			\$913,000	

## VALUE of AGRICULTURAL and FOREST PRODUCTION

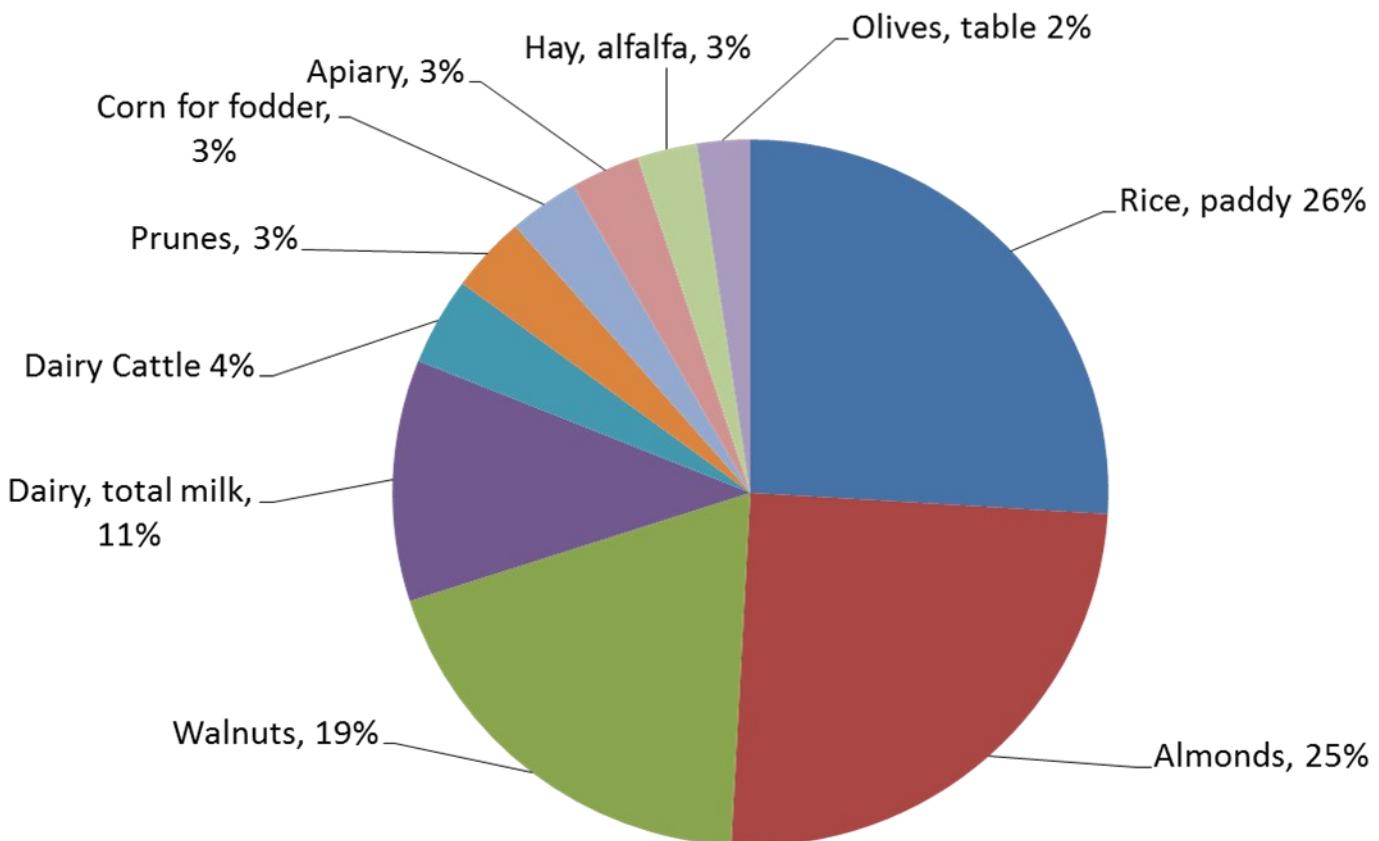
VALUE of AGRICULTURAL PRODUCTS	2012	2013
Field Crops	\$214,899,000	\$244,237,000
Fruit and Nut Crops	323,777,000	372,121,000
Livestock and Poultry Products	68,676,000	75,607,000
Livestock and Poultry	42,974,000	42,618,000
Seed Crops	23,570,000	30,460,000
Apiary Products	17,084,000	21,928,000
Nursery 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>

## 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

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

## PEST EXCLUSION

Terminal Inspections	Number of Shipments	Number of Shipments	Rejections
	Profiled	Inspected	
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 growers, handlers and processors</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

Pest	Scientific Name	Control Agent	Scientific Name	Program Scope
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 terrestris</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

Pest	Scientific Name	Control agent	Number of Locations
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)

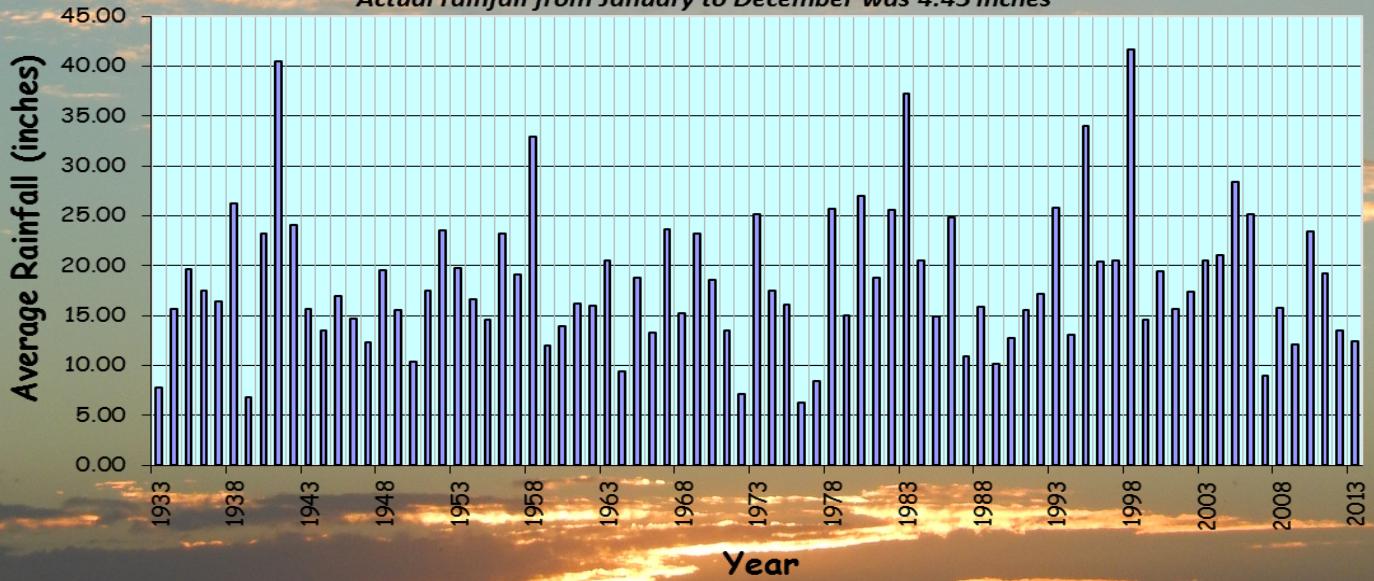
Dry, Dry, Dry, Dry, Dry

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.

# Glenn County Agricultural Commissioner's Office

## 2014 Annual Crop & Livestock Report





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# 2014 Staff Members

## Agricultural Commissioner/ Sealer of Weights and Measures

Jim Donnelly

## Assistant Agriculture Commissioner

Jean Miller

## Deputy Agriculture Commissioner

Rey Lopez

## Environmental Biologists

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

## Trapping

Mirna Albarran-Jack

## Water Resource Coordinator

Lisa Hunter

## Support Staff

Tina Brothers  
Jennifer Kline  
Dottie LaCroix

## Air Pollution/CUPA

Kevin Tokunaga, Eric Scott  
Ian Ledbetter, Kathryn McDaniel  
Kristen Ballew, Dana Owens, Delia Azure

COUNTY OF *Glenn*

DEPARTMENT OF AGRICULTURE

Marcie Skelton, Agricultural Commissioner/  
Sealer of Weights & Measures

Jason Beauchamp, Deputy Agricultural Commissioner/  
Sealer of Weights & Measures

TO: **Karen Ross, Secretary**  
California Department of Food and Agriculture  
  
**Brian Leahy, Director**  
California Department of Pesticide Regulation

The Honorable Board of Supervisors

<b>John Viegas</b>	District 1
<b>Dwight Foltz</b>	District 2
<b>Vacant</b>	District 3
<b>Keith Corum</b>	District 4
<b>Leigh McDaniel</b>	District 5

I am pleased to submit the 2014 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 2014 gross production of agricultural commodities was valued at \$825,273,000. This represents an increase of 4% from the 2013 gross agricultural production value of \$792,441,000.

Almonds lead this year as the number one commodity with a total value of \$190,851,000, which is up 13% from 2013 due to an increase in acreage and value. Walnuts are in the number two position with a value of \$178,385,000, up 37% also due to an increase in acreage and value. Rice dropped to third place with a value of \$141,650,000, a decrease of 20% due to a reduction of planted acreage and price. The combination of almonds, walnuts and paddy rice represent 62% of the total commodity value for 2014.

Drought conditions continued throughout the 2014 growing season significantly impacting the planted acreage of paddy rice. Allocated surface water supplies were very low compared to historic use, thus changing commodity cropping patterns and irrigation management. Late winter and early spring showers however, were sufficient to meet rangeland precipitation requirements. Beef cattle values improved, posting a 13% increase in value due to record market prices .

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. Department employees should be commended for their hours and efforts to gather this year's information. I would also like to express my gratitude to Jean Miller for the use of her pictures and to Greg Hinton for the compilation of the report.

Respectfully submitted,



Marcie Skelton  
Glenn County Agricultural Commissioner/Sealer of Weights & Measures

# Fruit and Nut Crops

Commodity	Year	Bearing Acreage	Prod. Per Acre	Total	Unit	Value Per Unit	Total
Almonds	2014	40,158	0.77	30,922	Ton	\$6,172	\$ 190,851,000
	2013	38,299	0.80	30,773		\$5,500	\$ 169,253,000
Almond Hulls	2014			38,476	Ton	\$120	\$ 4,617,000
	2013			38,466		\$100	\$ 3,847,000
Citrus	2014	310	0.40	124	Ton	\$1,951	\$ 242,000
	2013	310	0.30	95		\$1,153	\$ 110,000
Grapes	2014	1,042	6.00	6,252	Ton	\$867	\$ 5,420,000
	2013	1,063	6.90	7,335		\$673	\$ 4,934,000
Olives, Oil	2014	4,450	3.43	15,264	Ton	\$574	\$ 8,762,000
	2013	4,450	4.38	19,491		\$619	\$ 12,065,000
Olives, Table	2014	4,433	2.65	11,747	Ton	\$1,030	\$ 12,099,000
	2013	4,433	3.73	16,535		\$985	\$ 16,287,000
Pistachios	2014	1,727	1.25	2,159	Ton	\$6,000	\$ 12,954,000
	2013	1,474	1.14	1,680		\$5,200	\$ 8,736,000
Prunes	2014	5,760	2.60	14,976	Dry Ton	\$1,700	\$ 25,459,000
	2013	5,760	2.40	13,824		\$1,720	\$ 23,777,000
Walnuts	2014	26,153	1.96	51,260	Ton	\$3,480	\$ 178,385,000
	2013	21,672	1.98	42,911		\$3,040	\$ 130,449,000
Miscellaneous	2014	708	Includes: Blueberry, Black Walnut, Cherry, Kiwifruit, Pecan, Asian Pear, Peach				\$ 3,307,000
	2013	609					\$ 2,663,000
TOTALS	2014	84,641					\$ 442,096,000
	2013	78,070					\$ 372,121,000

# Field Crops

Commodity	Year	Acreage	Per Acre	Total	Unit	Per Unit	Total Value	
Alfalfa	2014	10,540	5.70	60,078	Ton	\$245	\$ 14,719,000	
	2013	12,793	6.71	85,841		\$215	\$ 18,456,000	
Barley	2014	679	2.50	1,698	Ton	\$210	\$ 357,000	
	2013	664	2.00	1,328		\$250	\$ 332,000	
Beans	2014	2,319	1.05	2,435	Ton	\$1,100	\$ 2,679,000	
	2013	930	1.17	1,088		\$1,160	\$ 1,262,000	
Corn, Fodder	2014	17,797	6.10	10,8562	Ton	\$172	\$ 18,673,000	
	2013	17,609	6.71	11,8156		\$182	\$ 21,504,000	
Corn, Silage	2014	2,120	27.00	57,240	Ton	\$55	\$ 3,148,000	
	2013	4,303	30.00	129,090		\$42	\$ 5,422,000	
Cotton, Lint	2014	1,832	3.50	6,412	Bale	\$450	\$ 2,885,000	
	2013	1,252	3.53	4,420		\$450	\$ 1,989,000	
Cotton, Seed	2014			2,672	Ton		\$ 107,000	
	2013			1,839			\$ 74,000	
Hay, Other	2014	3,032	2.46	7,459	Ton	\$170	\$ 1,268,000	
	2013	2,628	2.80	7,358		\$146	\$ 1,074,000	
Oats, Fodder	2014	3,146	2.90	9,123	Ton	\$140	\$ 1,277,000	
	2013	2,405	3.00	7,215		\$136	\$ 981,000	
Pastureland	2014	8,401			Acre	\$175	\$ 1,470,000	
	2013	9,112				\$165	\$ 1,503,000	
Range	2014	230,000			Acre	\$11	\$ 2,415,000	
	2013	230,000				\$7	\$ 1,610,000	
Rice, Paddy	2014	73,318	4.60	337,263	Ton	\$420	\$ 141,650,000	
	2013	85,253	4.56	388,754		\$454	\$ 176,494,000	
Wheat	2014	11,881	2.63	31,247	Ton	\$210	\$ 6,562,000	
	2013	8,745	2.99	26,148		\$243	\$ 6,354,000	
Wheat, Fodder	2014	5,301	3.00	15,903	Ton	\$160	\$ 2,544,000	
	2013	3,434	13.20	45,329		\$25	\$ 1,133,000	
Miscellaneous	2014	14,978	Includes: Organic Rice, Safflower, Straw, Sudangrass and Sorghum				\$ 8,749,000	
	2013	13,081					\$ 6,049,000	
TOTALS	2014	385,344					\$ 208,503,000	
	2013	392,209					\$ 244,237,000	

# Apiary Products

Commodity	Year	Total	Unit	Per Unit	Total Value
Packaged Bees	2014	122,228	Pound, w/o a queen	\$16.60	\$ 2,029,000
	2013	190,260		\$15.56	\$ 2,960,000
Pollination	2014				\$ 14,501,000
	2013		Includes: almond, prune, sunflower, onion, and vine seed		\$ 13,498,000
Queen Bees	2014	180,027	Each	\$20.07	\$ 3,613,000
	2013	287,276		\$18.39	\$ 5,283,000
Miscellaneous	2014				\$ 72,000
	2013		Includes: Beeswax and Honey		\$ 187,000
TOTALS	2014				\$ 20,215,000
	2013				\$ 21,928,000

# Seed Crops

Commodity	Year	Acreage	Per Acre	Total	Unit	Per Unit	Total
Beans	2014	367	2100	770,700	Pound	0.65	\$ 501,000
	2013	336	1980	665,280		0.62	\$ 412,000
Rice	2014	1758	8800	15,470,400	Pound	0.21	\$ 3,249,000
	2013	2044	8461	17,294,284		0.26	\$ 4,497,000
Sunflowers	2014	3224	1000	3,224,000	Pound	1.52	\$ 4,900,000
	2013	5851	1000	5,851,000		1.40	\$ 8,191,000
Vine Seeds	2014	1672	Includes: Melon, Pumpkin, Squash, Watermelon, and Cucumber				\$ 13,372,000
	2013	1464					\$ 5,191,000
Other Seeds	2014	1256	Includes: Cabbage, Carrot, Chard, Gourd, Kale, Mustard, and Radish				\$ 2,589,000
	2013	1671					\$ 12,169,000
TOTALS	2014	8277					\$ 24,611,000
	2013	11366					\$ 30,460,000

# Livestock and Poultry

Commodity	Year	# of Head	Unit	Per Unit	Total Value	
Beef Cattle	2014	12800	Head	1227	\$ 15,718,000	
	2013	11760		1180	\$ 13,877,000	
Dairy Cattle	2014	16800	Head	1990	\$ 33,432,000	
	2013	21000		1300	\$ 27,300,000	
Sheep and Lamb	2014	6026	Head	145	\$ 874,000	
	2013	5908		188	\$ 1,111,000	
Hogs and Pigs	2014	1852	Head	185	\$ 343,000	
	2013	1834		180	\$ 330,000	
Miscellaneous	2014	Includes: Goat, Chicken, Unspecified Game Birds			\$ 75,000	
	2013				<i>New for 2014</i>	
TOTALS	2014	37478			\$ 50,442,000	
	2013	40502			\$ 42,618,000	

# Livestock and Poultry Products

Commodity	Year	Production	Unit	Per Unit	Total Value	
Milk, Marketing	2014	3,934,254	Cwt	\$16.47	\$ 64,797,000	
	2013	3,925,559		\$18.43	\$ 72,352,000	
Milk, Manufacturing	2014	59,340	Cwt	\$23.10	\$ 1,371,000	
	2013	145,684		\$18.95	\$ 2,760,000	
Wool	2014	37,965	Pound	\$1.35	\$ 51,000	
	2013	38,402		\$1.45	\$ 56,000	
Miscellaneous	2014	Includes: Unspecified Game Birds and Eggs			\$ 443,000	
	2013				\$ 439,000	
TOTALS	2014				\$ 66,662,000	
	2013				\$ 75,607,000	

# Nursery Products

Commodity	Year	Acreage	Per Acre	Total	Unit	Per Unit	Total
TOTALS	2014	430					\$ 9,491,000
				Includes: Sod, Strawberry Plants, & Flowers			
	2013	238					\$ 4,568,000

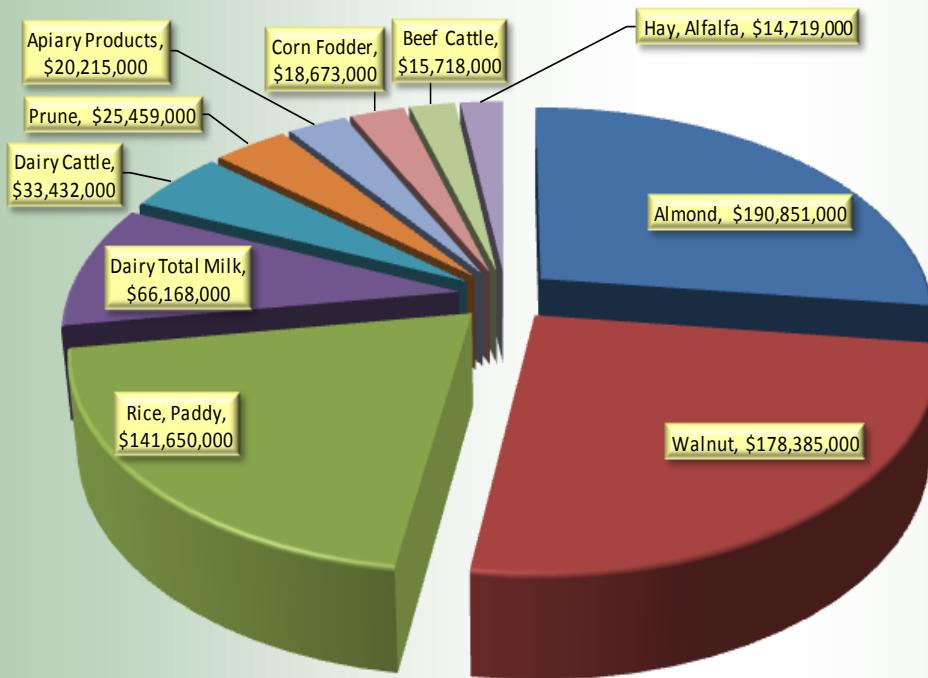
# Vegetable Crops

Commodity	Year	Acreage	Per Acre	Total	Unit	Per Unit	Total
TOTALS	2014	838		Includes: Processing Tomatoes, Strawberries, Pumpkins, Farmers' Market Gardens			\$ 3,099,000
	2013	138					\$ 554,000

# Forest Products

Commodity	Year	Production	Unit	Per Unit	Total Value
Christmas Trees	2014	1,100	Each	25.00	\$ 28,000
	2013	1,600		23.00	\$ 37,000
Firewood	2014	900	Cord	140.00	\$ 126,000
	2013	840		120.00	\$ 101,000
Timber	2014	0	Board Feet		\$ 0
	2013	1,048,000			\$ 210,000
TOTALS	2014				\$ 154,000
	2013				\$ 311,000

# Top Ten Leading Commodities



1. Almonds—\$190,851,000
2. Walnuts—\$178,385,000
3. Rice—\$141,650,000
4. Milk—\$66,168,000
5. Dairy cattle—\$33,432,000
6. Prunes—\$25,459,000
7. Apiary—\$20,215,000
8. Corn—\$18,673,000
9. Beef cattle—\$15,718,000
10. Alfalfa—\$14,719,000

## Total Value of Agricultural and Forest Production

Product	2013	2014
Fruit and Nut Crops	\$372,121,000	\$442,096,000
Field Crops	\$244,237,000	\$208,503,000
Livestock and Poultry	\$42,618,000	\$50,442,000
Livestock and Poultry Products	\$75,607,000	\$66,662,000
Seed Crops	\$30,460,000	\$24,611,000
Apiary Products	\$21,928,000	\$20,215,000
Nursery Products	\$4,568,000	\$9,491,000
Vegetable Crops	\$554,000	\$3,099,000
<b>Total Agricultural Value</b>	<b>\$792,093,000</b>	<b>\$825,119,000</b>
Firewood	\$101,000	\$126,000
Christmas Trees	\$37,000	\$28,000
Timber	\$210,000	\$0
<b>Total Timber Value</b>	<b>\$348,000</b>	<b>\$154,000</b>
<b>Grand Total</b>	<b>\$792,441,000</b>	<b>\$825,273,000</b>

# Biological Control

Pest	Scientific Name	Control Agent	Scientific Name	Scope
Ash Whitefly	<i>Siphoninus phillyreae</i>	Wasp Beetle	<i>Encarsia sp.</i> <i>Clitostethus arcuatus</i>	Established Established
Italian Thistle	<i>Carduus pycnocephalus</i>	Weevil	<i>Rhynocyllus conicus</i>	Established
Puncturevine	<i>Tribulus terrestris</i>	Weevil	<i>Microlarinus lypriformis</i>	Established
		Weevil	<i>Microlarinus lareyniei</i>	Established
Yellow Starthistle	<i>Centaurea solstitialis</i>	Weevil	<i>Bangasternus orientalis</i>	Established
		Weevil	<i>Eustenopus villosus</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 Exclusion

Terminal Inspections	Shipments Inspected	Rejections
Postal	0	0
Truck	28	0
Other	0	0

## Pest Eradication

Pest	Scientific Name	Control Agent	Locations
Canada Thistle	<i>Cirsium arvense</i>	Mechanical	1
Dyer's Woad	<i>Isatis tinctoria</i>	Chemical/Mechanical	1
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	<i>Cardaria draba</i>	Chemical/Mechanical	8
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	1
Tree of Heaven	<i>Ailanthus altissima</i>	Chemical/Mechanical	2



<http://www.countyofglenn.net/govt/departments/ag/>