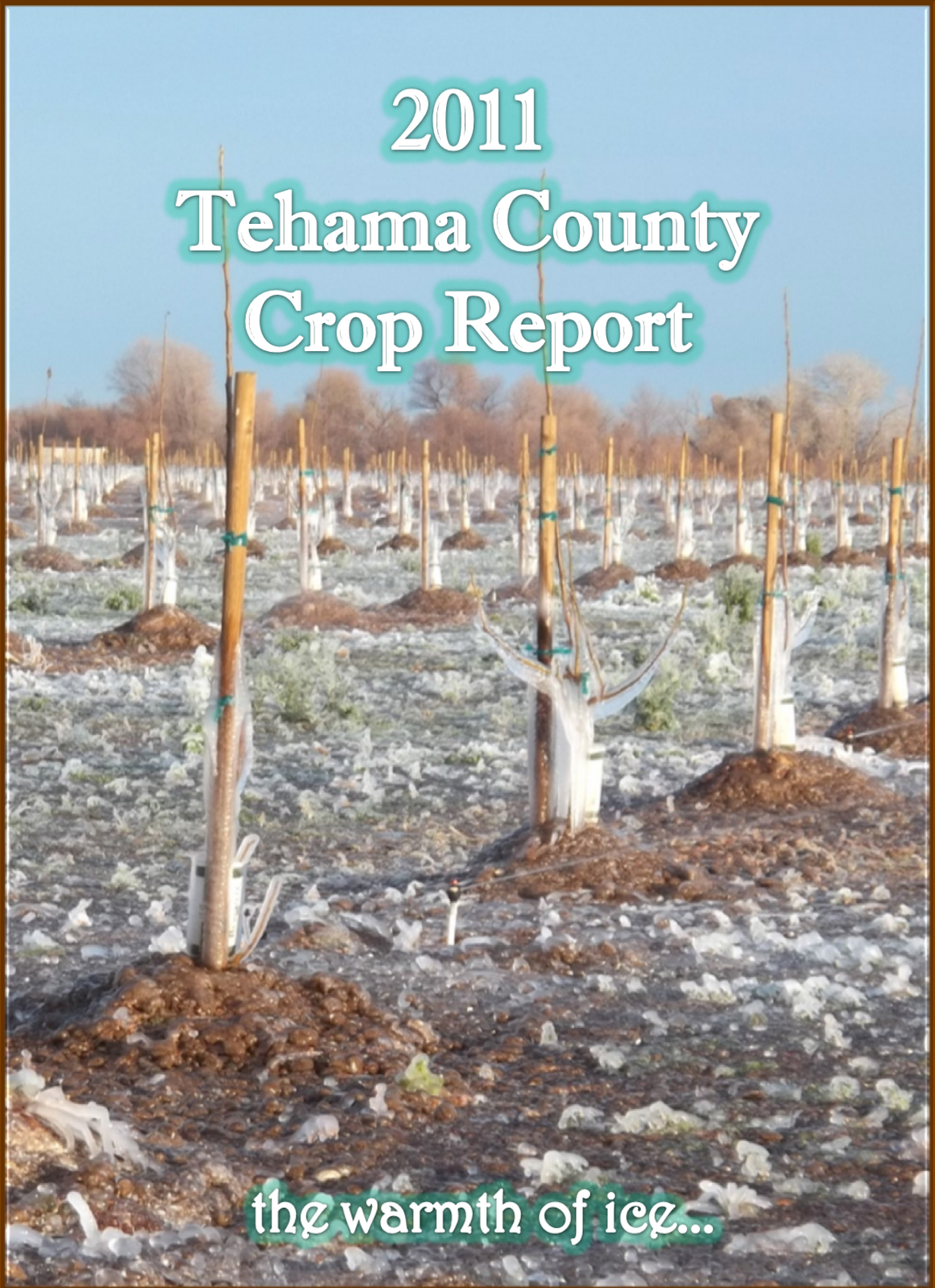


2011 Tehama County Crop Report

the warmth of ice...



Tehama County Agriculture of the Past

Photos supplied by Mark & Cyndi Gilles



Cover Photo

Young walnut orchard in the morning. Temperature was recorded at 18° F, January 17, 2012. Micro-sprinklers are used to water the trees to protect them from extreme temperatures. This practice works in two ways, the water will warm up the soil and air slightly but primarily it freezes to the branches and insulates the branches at 32° F, not allowing the temperature of the branches to drop to levels that would result in tree damage or complete loss. Other methods used to elevate temperatures include orchard fans, hovering helicopters that move the air, and smudge pots.

1800-1890

THIS PICTURE COULD BE OPEN LEARN IN THE 1800'S AND 1890'S WHEN FINNELL'S FARMED LARGE Mexican Land Grant between Richfield and Garber, which had 25000 acres. I have been told by Albert Feltner, who was raised by the Finnell Family that they had over one hundred of these eight mule teams when they were farming the Mexican Land Grant. When they moved their combines, water and feed troughs, mules and grain wagons and other parts of their outfit, they would be two miles long going through Corning.



FIFTY SACKS OF GRAIN ON EACH WAGON

Finnell Mules & grain wagons, in early days.



CUSTOMER HARVESTERS - GROUND POWER, NEAR NEWVILLE, FORTY SIX MULES PULLING HARVESTER, ABOUT 1910

ON A HOT DAY THEY WOULD HAVE TO STOP EVERY FEW HOURS AND SPREAD THE MULES APART SO THE AIR COULD GET TO THE MIDDLE MULES OR THEY WOULD GET TO HOT AND DIE. THE DRIVER DROVE THE TWO LEAD MULES AND THE OTHER MULES WERE ALL TIED TO THE TWO LEAD MULES.



Finney Finnells plowing Mexican Land Grant 1890



STATIONARY HARVESTER WORKING NEAR PASKENTA IN 1886.

Tehama County Department of Agriculture/Weights & Measures

To: Karen Ross, California Department of Food and Agriculture Secretary

and

The Honorable Board of Supervisors, Tehama County

I am pleased to submit the 2011 Agricultural Crop Report. As required by Section 2279 of the California Food and Agricultural Code, this annual report provides a statistical description of Tehama County's agricultural production. All figures in the report represent gross returns only and do not reflect net income of producers.

The total gross value of Tehama County agricultural production in 2011 was \$245,670,000 a 7.9% increase from 2010 values and for the second consecutive year, a new county record.

Orchard crops' top three commodities, walnuts, prunes and almonds, cumulatively accounted for almost 60% of the total agricultural production value. Walnut total values increased 16.4% due to acreage and price increases. Prune values increased 25.7% due to production and price increases. Almonds decreased 6.7% in value. Olives decreased significantly, primarily due to freezing events resulting in an 84.9% total value reduction.

Field crops increased 39.0% in value primarily due to increased commodity prices. Alfalfa and grain hay tonnage values increased 90.1% and 98.6% respectively. Slight inventory gains and strong prices resulted in a 21.3% increase in beef cattle values. Nursery products increased 279% in total value due to increased acreage plantings. Rangeland values continued their rise, posting a 31.8% value per acre increase.

My sincere appreciation goes out to the growers, processors, government agencies, and others that provided information used in compiling this report, their cooperation is invaluable. I wish to thank my staff that assisted in compiling this report with special recognition to Marcie Skelton for the report's production, as this publication would not be possible without their combined efforts.

Respectfully Submitted,

Rick Gurrola
Agricultural Commissioner

Tehama County Department of Agriculture

2011 Crop Report

Tehama County Board of Supervisors

Gregg Avilla	Supervisor - District 1
George Russell	Supervisor - District 2
Dennis Garton	Supervisor - District 3
Bob Williams	Supervisor - District 4, Chairman
Ron Warner	Supervisor - District 5

Agriculture Department

Rick Gurrola	Agricultural Commissioner & Sealer of Weights and Measures
Douglas Compton	Assistant Agricultural Commissioner/Sealer of Weights & Measures
Doni Rulofson	Deputy Agricultural Commissioner/Sealer of Weights & Measures
David Stoffel	Agricultural Biologist/Weights & Measures Specialist
Ryan Jennings	Agricultural Biologist/Weights & Measures Specialist
Marcie Skelton	Agricultural Biologist/Weights & Measures Specialist
Mike Bowles	Agricultural Biologist/Weights & Measures Specialist
Loren Gehrung	Agricultural Biologist/Weights & Measures Specialist
Juan Rodriguez	Agricultural/Weights & Measures Aide
Brett White	Agricultural/Weights & Measures Aide
Vanessa Sciarretta	Office Assistant III
Jan Miller	Administrative Secretary III



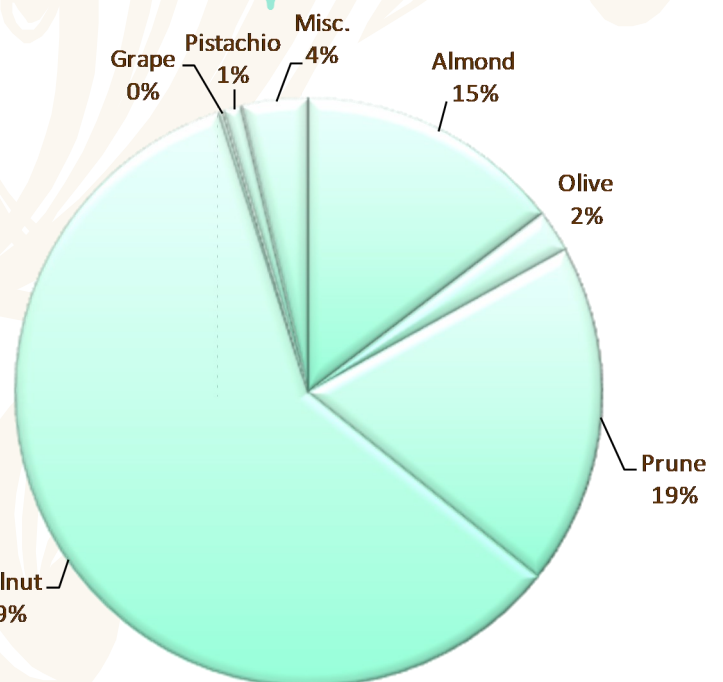
Note: Throughout the report the mathematical results may not be exact due to rounding.

Fruit & Nut Crops

	Year	Bearing Acreage	Production/ Acre (tons)	Total Tons	Value/ Ton	Total Value
Almond (meats)	2011	9,399	0.69	6,485	\$3,562	\$23,099,600
	2010	9,884	0.82	8,105	\$3,055	\$24,760,800
Table Olive	2011	6,365	0.55	3,501	\$1,054	\$3,690,100
	2010	6,759	5.05	34,133	\$716	\$24,439,200
Prune	2011	8,310	2.66	22,105	\$1,346	\$29,753,300
	2010	8,310	2.25	18,698	\$1,266	\$23,671,700
Walnut	2011	19,204	2.02	38,792	\$2,418	\$93,799,100
	2010	18,821	2.19	41,218	\$1,955	\$80,581,200
Grape	2011	90	6.24	562	\$807	\$453,500
	2010	172	6.24	1,073	\$848	\$909,900
Pistachio	2011	181	1.95	353	\$4,500	\$1,588,500
	2010	181	0.98	177	\$3,966	\$702,000
Misc.*	2011					\$5,749,700
	2010					\$3,786,400
Total						
					2011	\$158,133,800
					2010	\$158,851,200

Misc. Includes: Pecans, Figs, Mandarins, Tangerines, Peaches, Black Walnuts, Almond Hulls, Cherries, Blueberries, Nectarines, Apricots, Apples, Walnut Shells, Oranges, Plums, Pears, Pomegranates, Persimmons, and for the first time Olives for Oil

Fruit & Nut Crop Value





Nursery Products

	Year	Total Value
Nursery*	2011	\$11,103,000
	2010	\$2,931,200

*Includes: Orchard and Christmas Trees, Berries, Bedding Plants & Trees

Livestock & Poultry

	Year	Number of Head Sold	Total Live-Weight	Unit	Value/ Unit	Total Value
Calves	2011	4,794	26,319	cwt.	\$154	\$4,053,100
	2010	4,692	25,759	cwt.	\$130	\$3,348,700
Feeders	2011	11,186	78,302	cwt.	\$121	\$9,474,500
	2010	10,948	76,636	cwt.	\$101	\$7,740,200
Feedlot	2011	18,880	37,600	cwt.	\$115	\$4,324,000
	2010	18,400	36,800	cwt.	\$95	\$3,496,000
Cows & Bulls	2011	3,008	39,668	cwt.	\$65	\$2,578,400
	2010	2,944	38,824	cwt.	\$58	\$2,251,800
Dairy Cattle	2011					\$2,768,200
	2010					\$3,106,300
Sheep & Lambs	2011	4,500	4,500	cwt.	\$106	\$477,000
	2010	4,500	4,500	cwt.	\$106	\$477,000
Hogs & Pigs	2011	1,000	1,750	cwt.	\$55	\$96,300
	2010	1,000	1,750	cwt.	\$55	\$96,300
Misc. Livestock*	2011					\$2,128,700
	2010					\$2,593,600
Total					2011	\$25,900,200
					2010	\$23,109,900

*Misc. Includes: Aquaculture, Meat Goats, Poultry, Rabbits, Misc. Fowl.



Vegetable Crops

	Year	Acres	Total Value
Misc.	2011	100	\$250,000
Vegetables*	2010	100	\$250,000

*Includes Farmers' Market
& Road Side Stands



Timber Products

	Year	Harvested Board Feet	Total Value
	2011	56,885,000	\$10,634,600
	2010	53,934,000	\$5,783,900

Livestock & Poultry Products

	Year	Production	Unit	Value/Unit	Total Value	
Milk	2011	749,258	cwt.	\$19.25	\$14,423,200	
(Market)	2010	411,875	cwt.	\$14.83	\$6,108,100	
Milk	2011	60,521	cwt.	\$18.67	\$1,129,900	
(Mfg.)	2010	628,873	cwt.	\$14.55	\$9,150,100	
Animal Fiber*	2011				\$149,500	
(wool & fiber)	2010				\$148,500*	
Misc.**	2011				\$75,000	
	2010				\$75,000	
				Total	2011	\$15,777,600
					2010	\$15,481,700

* Value Revised from 2010 Report

**Misc. Includes: Eggs & Other Dairy Products

* Value Revised from 2010 Report

**Misc. Includes: Eggs & Other Dairy Products

Pasture & Range

	Year	Harvested Acres	Value/Acre	Total Value
Irrigated	2011	22,000	\$102	\$2,244,000
	2010	22,000	\$102	\$2,244,000
Range	2011	924,000	\$12	\$11,088,000
	2010	925,000	\$8.5	\$7,862,500
Stubble	2011	5,364	\$7	\$37,500
	2010	5,457	\$7	\$38,200
Total		2011	\$13,369,500	
		2010	\$10,144,700	



Apiary Production

	Year	Production (colonies)	Value/Colony	Total Value
Pollination*	2011	18,798	\$174	\$3,270,900
	2010	19,768	\$166	\$3,281,500
Apiary** Products	2011			\$3,932,500
	2010			\$3,771,400
Total		2011	\$7,203,400	
		2010	\$7,052,900	

*Pollination: Colony count & value prorated to adjust for almond and all other pollination rates and their varying value

**Apiary Products: Honey, Queens, Wax, & Package Bees

Seed Crops

	Year	Harvested Acreage	Total Value
Misc.	2011*	484	\$1,018,700
	2010	340	\$555,700

*Misc. Includes: Onion, Sunflowers, Sorghum, Melon, Squash, Cucumber, Watermelon

Field Crops

	Year	Harvested Acreage	Production/ Acre (tons)	Total Tons	Value/ Ton	Total Value
Wheat	2011	2,091	2.41	5,039	\$205	\$1,033,000
	2010	1,963	2.28	4,476	\$174	\$778,800
Corn	2011	1,656	5.8	9,605	\$198	\$1,901,800
	2010	1,324	5.64	7,467	\$163	\$1,217,100
Alfalfa, hay	2011	1,892	6.29	11,901	\$213	\$2,534,900
	2010	3,052	5.68	17,335	\$112	\$1,941,500
Grain, hay (Oats)	2011	4,491	3.55	15,943	\$139	\$2,216,100
	2010	4,140	3.93	16,270	\$70	\$1,138,900
Hay, other	2011	2,000	3.23	6,460	\$134	\$865,600
	2010	2,000	3.50	7,000	\$97	\$679,000
Silage, corn	2011	481	28.32	13,622	\$39	\$531,300
	2010	762	26.98	20,559	\$26	\$534,500
Misc.*	2011					\$3,831,100
	2010					\$2,998,600
				Total	2011	\$12,913,800
					2010	\$9,288,400

*Misc. Includes: Safflower, Barley, Beans, Sudan Hay, and Rice

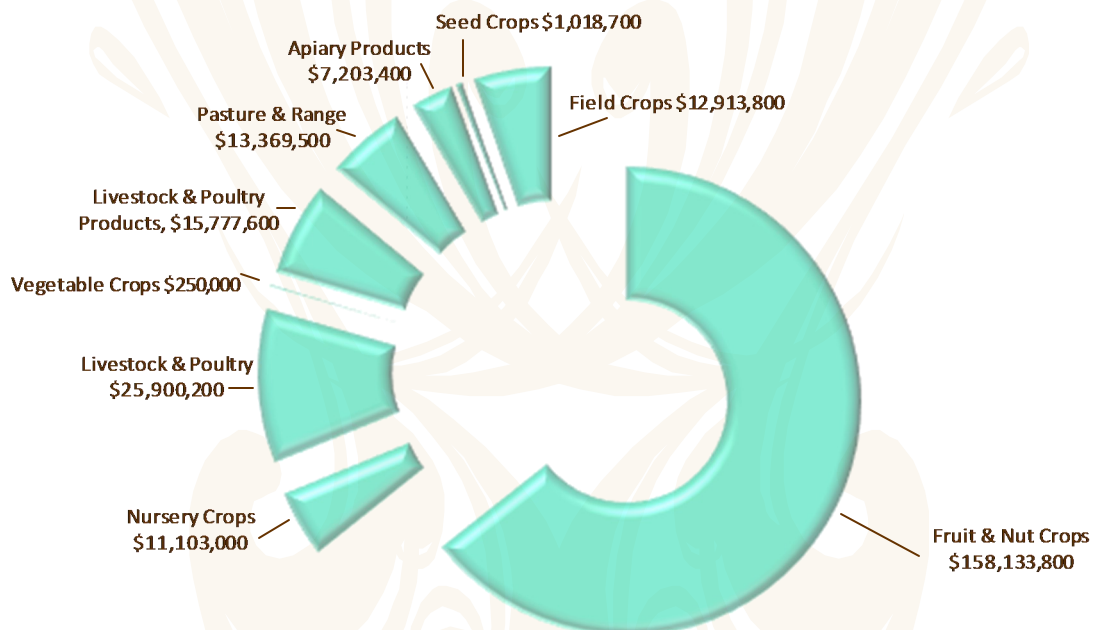


Comparison Summary

	2007	2008	2009	2010	2011
<u>Fruit & Nut Crops</u>	\$130,447,900	\$95,807,800	\$126,732,500	\$158,851,200	\$158,133,800
<u>Nursery Crops</u>	\$2,584,800	\$2,865,300	\$2,997,800	\$2,931,200	\$ 11,103,000
<u>Livestock & Poultry</u>	\$21,003,500	\$16,811,000	\$18,568,800*	\$23,109,900	\$25,900,200
<u>Vegetable Crops</u>	\$200,000	\$250,000	\$250,000	\$250,000	\$250,000
<u>Livestock & Poultry Prod.</u>	\$15,769,500	\$15,757,900	\$12,020,100	\$15,481,700*	\$15,777,600
<u>Pasture & Range</u>	\$6,540,400	\$5,587,300	\$5,587,300	\$10,144,700	\$13,369,500
<u>Apiary Products</u>	\$4,568,500	\$7,243,800	\$7,350,900	\$7,052,900	\$7,203,400
<u>Seed Crops</u>	\$432,700	\$354,500	\$367,300	\$555,700	\$1,018,700
<u>Field Crops</u>	\$9,189,700	\$13,733,900	\$8,558,500	\$9,288,400	\$12,913,800
Totals	\$190,737,000	\$158,542,500	\$182,433,200	\$227,665,700*	\$245,670,000

*Reflects Updated Value

Comparison Graph



Annual Sustainable Ag Report

In accordance with Section 2272 of the California Food and Agriculture Code, this Crop Report includes a brief account of efforts, which are being made to exclude or eradicate exotic pests; and to best manage those which already exist, in a manner most conducive to the protection of our environment.

Tehama County land encompasses 1,904,640 acres, which are surveyed by our department for noxious weeds of limited distribution. In 2011, three 'A' rated noxious weeds, of limited distribution were under eradication. The 'A' rated plants include Skeleton Weed, Dalmatian Toad-flax, and Spotted Knapweed. Treatment of the 'B' rated Oblong Spurge, Whitehorse Nettle, Perennial Pepperweed, and Barbed Goat Grasses also occurred in 2011.

During 2011, 129 high-risk shipments were inspected for compliance with quarantine requirements, none of the shipments were rejected. During the year, 2,132 various shipments were certified for export to countries around the world.

Pest detection trapping for Mediterranean Fruit Fly, Oriental Fruit Fly, Melon Fly, Japanese Beetle, and Gypsy Moth consisted of 352 traps being deployed, resulting in no finds. One hundred fifty-four Glassy Winged Sharpshooter traps were placed in Tehama County. One hundred thirty-nine incoming nursery shipments from counties with Glassy Winged Sharpshooter and/or Light Brown Apple Moth were conducted, resulting in no finds. Tehama County continues to actively monitor for the Light Brown Apple Moth; in 2011 there were 45 traps deployed throughout the county with emphasis on nurseries and fields destined for the global market. Additionally, 13 European Grapevine Moth traps were placed into commercial grape vineyards in Tehama County.

There were 34 registered organic growers in Tehama County in 2011, totaling 12,659 acres of registered organic land. These growers range from small gardens catering to local Certified Farmer's Markets to large-scale livestock, dairy, orchard and field crop producers.

A Glimpse Into the Past

Commodity	1961 Totals (amount sold)	2011 Totals (amount sold)	1961 Value	2011 Value
Almonds	970 tons (1,493 acres)	6485 tons (9,399 acres)	\$485,000	\$23,099,600
Olives	9,315 tons (3,824 acres)	3501 tons (6,365 acres)	\$1,481,000	\$3,690,100
Prunes	5,630 tons (2,507 acres)	22,105 tons (8,310 acres)	\$1,888,300	\$29,753,300
Walnuts	1,140 tons (2,528 acres)	38,791 tons (19,204 acres)	\$562,000	\$93,799,100
Grapes	*	562 tons (90 acres)	*	\$453,500
Corn	4,437 tons (1,775 acres)	9,605 tons (1,656 acres)	\$230,700	\$1,901,800
Pistachio	*	353 tons (181 acres)	*	\$1,588,500
Watermelon	766 tons (81 acres)	*	\$15,300	*
Alfalfa	35,700 tons (5,950 acres)	11,898 tons (1,892 acres)	\$714,000	\$2,534,900
Truck Crops	97 acres	100 acres	\$42,000	\$250,000
Other Hay	10,100 tons (4,040 acres)	6,460 tons (2,000 acres)	\$183,500	\$865,600
Sugar Beets	6,317 tons (329 acres)	*	\$69,700	*
Grains (includes barley)	33,934 tons (34,812 acres)	5,363 tons (2,466 acres)	\$1,453,500	\$1,188,623
Corn Silage	1,750 tons (175 acres)	13,622 tons (481 acres)	\$14,000	\$531,300
Ladino Clover (seed)	476,125 lbs (2,362 acres)	*	\$236,600	*
Other Seed (Sudan, Peas, Alfalfa)	1,923,400 lbs (1,782 acres)	*	\$92,700	*
Nursery Stock	(includes olives, deciduous fruit & nut, & strawberry plants)		\$549,300	\$11,103,000
Dairy Cattle			\$558,200	\$2,768,200
Beef Cattle			\$5,151,500	\$20,430,000
Dairy Products			\$1,897,000	\$15,553,100
Sheep & Lambs			\$1,134,000	\$477,000
Hogs			\$349,500	\$96,300
Chicken Eggs			\$253,600	*
Turkeys			\$351,200	*
Year Totals			**\$17,712,600	\$245,670,000

*No corresponding values between 1961 and 2011.

**Will not add up to above column.

Tehama County Exports

In 2011 Tehama County Issued 2,132 USDA Phytosanitary Certificates

What is this? Phytosanitary is a word that means “of or relating to the health of plants”, so a Phytosanitary certificate is documentation stating said plant or plant product, is free from pests and diseases that are part of the import requirements imposed by countries. Import requirements are designed to protect the importing countries’ agricultural industry from insects and diseases which have the potential to arrive with the shipment, additionally ensuring a higher quality product when it reaches its destination.

Products Exported from Tehama County:
Almonds, Walnuts, Walnut Shells, Walnut Logs, Olives,
Strawberry Plants, Prunes, & Figs

Tehama County shipped products to the below countries:

Algeria	Argentina	Australia	Austria	Belgium
Bosnia-Herzegovina	Brazil	Bulgaria	Cambodia	Canada
Chile	China	Colombia	Cyprus	Dominican Republic
Egypt	France	Germany	Greece	Hong Kong
India	Indonesia	Israel	Italy	Japan
Jordan	Kazakhstan	Korea	Kuwait	Latvia
Lebanon	Lithuania	Malaysia	Malta	Mexico
Morocco	Netherlands	New Zealand	Norway	Oman
Pakistan	Russian Federation	Saudi Arabia	Singapore	South Africa
Spain	Sri Lanka	Sweden	Switzerland	Taiwan
Turkey	United Arab Emirates	United Kingdom		
Uruguay	Venezuela	Vietnam		



Agriculture's Changing Landscape

The 1961 Tehama County Crop Report, reflected the top three agriculture commodities as barley, at 25,265 acres, second highest alfalfa with 5,950 acres, and third being olives with 3,824 acres in production. These numbers do not include the irrigated and rangeland totaling 1,043,084 acres. So much has changed in the last 50 years. Could you imagine what our agricultural landscape would look like with only 1,493 acres of almonds or 2,528 acres of walnuts, like it was in 1961? A drive around Tehama would sure look different. Fifty years later, in 2011, Tehama county has 28,603 acres of walnuts and almonds combined.

The newest change to our agricultural landscape is the addition of olives grown in super high density planting configurations. This newly developed planting style allows the tree to be grown like a hedge and harvested by a large machine that straddles the rows and mechanically harvests the fruit. Large spinning fingers brush the hedge-like tree, swiping the olive off. Most of the time the olives are crushed to begin the olive oil making process within 24 hours of harvest.

In Tehama County, you can view these sweeping hedgerow olive trees, in a few locations in the county and see how they differ from the traditional olive orchards that are predominately seen. This drastic change reflects the advancing technologies available and evidence of farmer's willingness to adapt to the changing world of farming.

In addition, more and more people are paying close attention to the origin of their food. People want California grown food and the closer the growing grounds to them the better. California grown olive oil is now widely available, which is such a big change from a market that was dominated by European suppliers. The April 2011 report conducted by the UC Davis Olive Center, found that most of the imported, top-selling, olive oil brands regularly failed to meet international standards for extra virgin olive oil (olivecenter.ucdavis.edu). Tehama County olive oil can be found not only at specialty shops and stores but as well as large grocery store chains.

The 'buy local' food movement influences household purchases as well as what is purchased for schools, restaurants, and hospitals. Certified Farmers' Markets are a very successful avenue for producers to sell their fruit, vegetables, honey, nuts, cut flowers, nursery stock and meat directly to the consumers who have a strong desire to know their farmer. California state government has even altered regulations in order to facilitate changing consumer demands, while retaining food source traceability that is needed.

What will Tehama County be like in another 50 years? Will orchard crops still be number one? We will have to wait 50 years to know that answer, but as long as the land is still in production agriculture we will have a beautiful landscape and a bountiful food supply to enjoy!



The above photo (courtesy of California Olive Ranch) is of olive trees planted closely together and overtime, create a hedgerow. The olives are being harvested mechanically and the fruit will be crushed into olive oil, within a few hours.

**"Agriculture is our wisest pursuit,
because it will in the end contribute most
to real wealth, good morals, and happiness."**

- Letter from Thomas Jefferson to George Washington (1787)



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