



The World's Largest Open Access Agricultural & Applied Economics Digital Library

This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search

<http://ageconsearch.umn.edu>

aesearch@umn.edu

*Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.*

No endorsement of AgEcon Search or its fundraising activities by the author(s) of the following work or their employer(s) is intended or implied.

California Department of Food and Agriculture

Agricultural Commissioners' Crop Reports

Butte County

2015-2017

BUTTE COUNTY CROP REPORT 2015





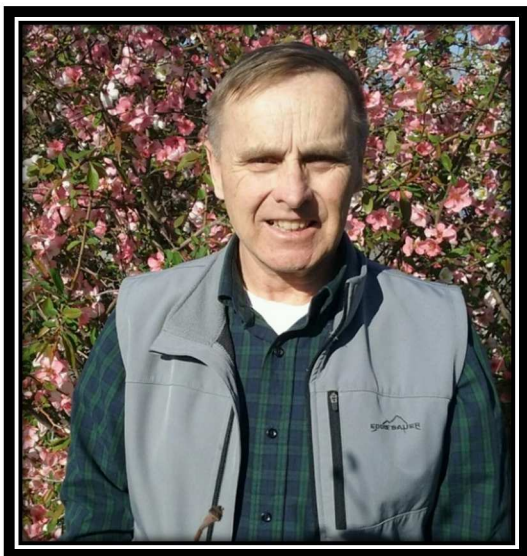
Butte County Agricultural Commissioner's Mission Statement

Protect and perpetuate Agriculture, the #1 industry in Butte County, by ensuring a safe and healthy agriculture product. Promote and provide confidence of buyers and sellers by ensuring fairness in local, national and international trade. Protect and promote the wellbeing of all our customers and our community through the fair, equitable application of agricultural and weights and measures standards, emphasizing education and cooperation, including the use of technology to enhance customer service.

Louie B. Mendoza Jr.

Agricultural Commissioner / Director of Weights & Measures

The 2015 Crop Report is dedicated to Richard B. Price and Joseph H. Connell



Richard served as the Butte County Agricultural Commissioner Director of Weights & Measures for 27 years. Richard guided the Agricultural Department during challenging times of agricultural regulatory change, and pest prevention programs. Richard oversaw the protection and preservation of agriculture, the number one industry in Butte County, by ensuring a safe and healthy agricultural product. Richard helped secure marketplace confidence by enforcing weights & measures laws and regulations. He protected and promoted the well-being of all agricultural customers and community members through fair and equitable application of agricultural and weights and measures standards, emphasizing education and cooperation, including the use of technology to enhance customer service. At the time of his retirement Richard was the longest serving California Agricultural Commissioner & Sealer.



Joe served as Farm Advisor with the University of California Cooperative Extension office in Butte County for 34 years. His specialty was almonds, olives, citrus and ornamental landscape plants, but his vast knowledge in all areas related to agriculture was invaluable to the citizens of Butte County. His work with almond growers included research on pest and disease management, pruning, frost protection, irrigation, new rootstock and varieties, and timely harvest. Joe was instrumental in establishing the Butte County Master Gardener program and hosted the first Honeybee Tech Transfer Team as part of a nationwide effort to help beekeepers and bee breeders “bee informed” about management practices for producing strong honeybee colonies for pollination of almonds and other crops throughout the United States. He served as County Director of the Extension office from 2011 until his retirement.

Agricultural and Weights & Measures Staff and Associates

Agricultural Commissioner / Director of Weights & Measures

Richard B. Price

Assistant Agricultural Commissioner / Director of Weights & Measures

Navid A. Khan

Deputy Directors of Agriculture / Weights & Measures

Rob Hill, Tom Pisani & Katharine Quist

Administrative Assistant, Senior

Charmaine Damron

Office Specialists, Senior

Friede Violante & Janice Wallick

Supervisor, Agricultural Biologist / Weights & Measures

Randy Hartman & Ramon Jauregui

Agricultural Biologist / Weights & Measures Inspector, Senior

Anastacia Allen, Eric Pittman, Dan Shrout

Agricultural Biologist / Weights & Measures Inspector III

Eric Jennings, Uriah Johnson, Robbie Towne

Agricultural Biologist / Weights & Measures Inspector II

Sonia Zarate

Agricultural Biologist / Weights & Measures Inspector I

Apolinar Barrales

Agricultural Technicians

Liz Mayhugh, Danny Maciel, George Mendoza, Evan Padgett & Janessa Walters

GIS Technician

Sally Loker

USDA Wildlife Specialist

Matt Albertsen



**Offices of Agricultural Commissioner
Weights and Measures**

Louie B. Mendoza Jr., Agricultural Commissioner
Director of Weights & Measures

316 Nelson Avenue
Oroville, California 95965

T: 530.538.7381
F: 530.538.7594

buttecounty.net/agriculturalcommissioner

August 23, 2016

Karen Ross
Secretary of California Department of Food and Agriculture

The Honorable Butte County Board of Supervisors
Bill Connelly, Chair Larry Wahl
Maureen Kirk Doug Teeter
Steve Lambert

Paul Hahn
Chief Administrative Officer

Dear Sirs and Madams,

In accordance with provisions of the California Food and Agriculture Code section 2279, I am submitting the 76th annual crop report that shows the agricultural production and agricultural value in Butte County for the 2015 calendar year. Our department has been providing annual crop reports since 1939.

This report is a summary estimate of the acreage, production and gross value of Butte County agricultural products. The values presented in this report are gross values only, and do not reflect net farm income or costs of production and marketing.

The estimated gross value of agricultural production in Butte County for 2015 totaled **\$772,639,884**. This is a \$38,265,514 decrease over the 2014 gross value total of \$810,905,398. The total increase in gross value of agriculture during 2015 is 18% above our county 10-year average of \$652,450,570.

I wish to extend my appreciation to the many producers, processors and agencies, both private and governmental, who assist with this report by providing us with specific information pertaining to their business. I would also like to thank the staff of the Butte County Agriculture Department for compiling this report.

Respectfully submitted,

Louie B. Mendoza Jr.

Louie B. Mendoza Jr.
Agricultural Commissioner
Director of Weights & Measures

MILLION DOLLAR CROPS

1	Walnuts	\$240,900,000
2	Almonds	\$202,092,000
3	Rice	\$138,692,019
4	Prunes	\$43,191,120
5	Peaches	\$14,904,478
6	Nursery Stock	\$14,111,000
7	Harvested Timber	\$13,717,316
8	Cattle & Calves	\$11,655,000
9	Rice (Seed)	\$11,553,070
10	Apiary (Pollination)	\$9,684,521
11	Fruit & Nut (Misc.)	\$7,933,748
12	Olives (Oil)	\$5,816,465
13	Kiwis	\$4,554,450
14	Almond Hulls	\$4,800,000
15	Pistachios	\$4,419,405
16	Field Crop (Misc.)	\$3,983,171
17	Olives (Table)	\$2,685,618
18	Seed (Misc.)	\$2,538,037
19	Irrigated Pasture	\$2,101,950
20	Pasture, Other	\$2,000,000
21	Beans, Dry/Edible	\$1,882,140
22	Vegetables	\$1,743,626
23	Alfalfa	\$1,656,746
24	Citrus	\$1,356,112

FIVE YEAR SUMMARY OF CROP VALUES

CROP	2011	2012	2013	2014	2015
APIARY PRODUCTS	\$ 5,813,000	\$ 7,340,000	\$ 7,977,000	\$ 10,865,340	\$ 10,586,121
FIELD CROPS	\$ 160,306,000	\$ 175,063,000	\$ 220,799,346	\$ 168,290,698	\$ 151,013,590
FRUIT & NUT CROPS	\$ 416,935,000	\$ 469,591,000	\$ 557,225,178	\$ 556,649,028	\$ 532,653,396
LIVESTOCK	\$ 10,366,000	\$ 11,421,000	\$ 12,099,000	\$ 12,520,000	\$ 12,781,800
NURSERY STOCK	\$ 21,728,000	\$ 21,558,000	\$ 29,458,000	\$ 17,819,000	\$ 14,111,000
SEED CROPS	\$ 18,648,000	\$ 16,496,000	\$ 18,510,000	\$ 18,683,294	\$ 14,091,107
VEGETABLE CROPS	\$ 851,000	\$ 872,000	\$ 1,785,000	\$ 1,503,000	\$ 1,743,626
ORGANIC CROPS	N/A	\$ 9,515,000	\$ 13,448,637	\$ 15,935,500	\$ 21,930,572
CROP TOTALS	\$ 634,647,000	\$ 711,856,000	\$ 861,302,161	\$ 802,265,860	\$ 758,911,212
TIMBER	\$ 9,465,000	\$ 9,578,000	\$ 8,292,000	\$ 8,639,538	\$ 13,728,672
GRAND TOTAL	\$ 644,112,000	\$ 721,434,000	\$ 869,594,161	\$ 810,905,398	\$ 772,639,884

FIVE YEAR SUMMARY OF PLANT CROP ACRES

CROP	2011	2012	2013	2014	2015
FIELD CROPS	370,401	373,484	367,783	337,989	311,061
FRUIT & NUT CROPS	93,083	95,043	96,928	97,237	101,486
SEED CROPS	6,949	6,468	6,923	6,590	6,647
VEGETABLE CROPS	792	789	844	708	817
GRAND TOTAL	471,225	475,784	472,478	442,524	420,011



2015 FRUIT & NUT CROPS ACREAGE STATISTICS

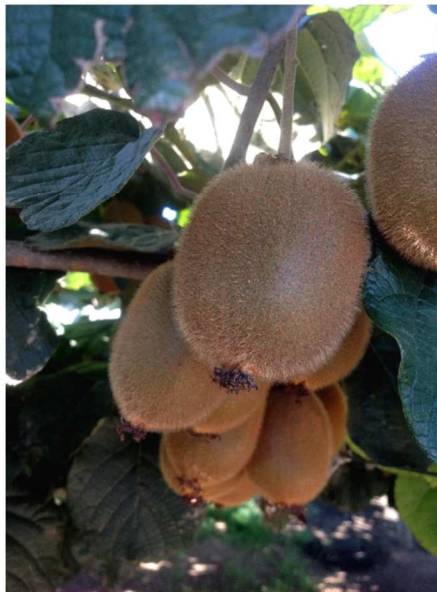
ORCHARD CROPS	BEARING	NON-BEARING	TOTAL
ALMONDS	39,626	1,194	40,820
APPLES	47	0	47
APRICOTS	29	0	29
AVOCADOS	2	0	2
CHERRIES	250	0	250
CHESTNUTS	45	10	55
GRAPES (Table & Raisin)	9	0	9
GRAPES (Wine)	169	1	170
KIWIS	698	0	698
MANDARINS	100	0	100
NECTARINES	7	0	7
OLIVES (Oil)	1,917	0	1,917
OLIVES (Table)	690	0	690
ORANGES	123	0	123
PEACHES, CLINGSTONE	1,509	10	1,519
PEACHES, FREESTONE	41	0	41
PEARS	11	0	11
PECANS	344	0	344
PERSIMMONS	52	12	64
PISTACHIOS	765	0	765
PLUMS	108	0	108
PRUNES	6,807	213	7,020
WALNUTS, ENGLISH	48,180	2,633	50,813
WALNUTS, BLACK	27	1	28
TOTAL	101,556	4,074	105,630

**Data from California Crop and Livestock Reporting Service and other sources*



2015 FRUIT & NUT CROPS ACREAGE, PRODUCTION AND VALUE

Crop	Year	Bearing (ac)	Yield (tons)	Yield (tons) / Bearing (ac)	Value (\$) / 1 (ton)	Total (\$)
ALMONDS	2015	39,626	33,682	0.85	\$6,000	\$202,092,000
	2014	39,241	35,709	0.91	\$6,750	\$241,035,750
HULLS	2015	--	40,000	--	\$120	\$4,800,000
	2014	--	42,000	--	\$120	\$5,040,000
CITRUS	2015	223	647	2.9	\$2,096	\$1,356,112
	2014	224	1366	6.1	\$1,425	\$1,946,550
KIWIS	2015	698	6,282	9	\$725	\$4,554,450
	2014	601	4,808	8	\$1,200	\$5,769,600
OLIVES (OIL)	2015	1,917	8,345	4.4	\$697	\$5,816,465
	2014	1,883	6,591	3.5	\$556	\$3,664,318
OLIVES (TABLE)	2015	690	2,691	3.9	\$998	\$2,685,618
	2014	690	1,518	2.2	\$988	\$1,499,784
PEACHES	2015	1,549	26,333	17	\$566	\$14,904,478
	2014	1,610	33,649	20.9	\$370	\$12,450,130
PISTACHIOS	2015	765	765	1	\$5,777	\$4,419,405
	2014	713	856	1.2	\$5,691	\$4,871,496
PRUNES	2015	6,807	19,740	2.9	\$2,188	\$43,191,120
	2014	7,061	16,382	2.32	\$2,500	\$40,955,000
WALNUTS	2015	48,180	120,450	2.5	\$2,000	\$240,900,000
	2014	44,219	70,308	1.59	\$3,300	\$232,016,400
MISC. *	2015	1,030	--	--	--	\$7,933,748
	2014	1,045	--	--	--	\$7,400,000
TOTAL	2015	101,486	--	--	--	\$532,653,396



2015 FIELD CROP ACREAGE, PRODUCTION AND VALUE

Crop	Year	Bearing (ac)	Yield (tons)	Yield (tons) / Bearing (ac)	Value (\$) / 1 (ton)	Total
BEANS, DRY EDIBLE	2015	1,235	1,482	1.2	\$1,270	\$1,882,140
	2014	1,939	1,551	0.8	\$1,100	\$1,706,100
ALFALFA	2015	1,597	9,103	5.7	\$182	\$1,656,746
	2014	1,458	10,206	7	\$248	\$2,531,088
PASTURE, IRRIGATED	2015	14,013	--	--	\$150	\$2,101,950
	2014	15,500	--	--	\$117	\$1,813,500
PASTURE, OTHER	2015	200,000	--	--	\$10	\$2,000,000
	2014	235,000	--	--	\$25	\$5,875,000
RICE	2015	87,700	409,121	4.7	\$339	\$138,692,019
	2014	77,800	342,320	4.4	\$441	\$150,963,120
SAFFLOWER	2015	337	404	1.2	\$505	\$204,020
	2014	92	101	1.1	\$490	\$49,490
WHEAT	2015	1,360	2,584	1.9	\$191	\$493,544
	2014	600	1,740	2.9	\$260	\$452,400
MISC. *	2015	4,819	--	--	--	\$3,983,171
	2014	5,600	--	--	--	\$4,900,000
TOTAL	2015	311,061	--	--	--	\$151,013,590

†Values (\$) / 1 (ac)



2015 APIARY PRODUCTS, PRODUCTION & VALUE

	YEAR	PRODUCTION (COLONIES)	VALUE PER COLONY	TOTAL
POLLINATION	2015	57,332	\$169	\$9,684,521
	2014	58,502	\$170	\$9,945,340
OTHER APIARY PRODUCTS	2015	--	--	\$901,600
	2014	--	--	\$920,000
TOTAL	2015			\$10,586,121



2015 ORGANIC CROP STATISTICS



Registered Organic Producers*
 92 Producers – 10,868 Acres
 14 – Handlers
 2 – Processor
 1 - Retailer
 \$21,930,572 Total Value



**Includes alfalfa, almonds, apples, berries, cherries, cut flowers, grapes, herbs, kiwi fruit, livestock, dairy, mandarins, nursery stock, olives, peaches, persimmons, prunes, rice, safflower, tomatoes, vegetables, vetch, walnuts and wild rice.*

2015 VEGETABLE VALUE

\$ 1,743,626 - 2015 Total Value

\$ 1,503,000 - 2014 Total Value

**Values reflect Certified Producer commodities such as asparagus, broccoli, corn, cucumbers, melons, onions, squash, tomatoes, etc.*

2015 NURSERY ACREAGE & VALUE

137 - 2015 Total Acres

\$ 14,111,000 - 2015 Total Value

173 - 2014 Total Acres

\$ 17,819,000 - 2014 Total Value

**Includes broad leaved evergreens, coniferous evergreens, deciduous fruit, nut and shade trees, shrubs, kiwi vines, herbaceous perennials, indoor decorative plants, bulbs, rhizomes, bedding plants, and specimen trees.*

2015 HARVEST TIMBER PRODUCTION & VALUE

ITEM	YEAR	PRODUCTION (BFT)	VALUE
HARVESTED TIMBER	2015	60,559,000	\$13,717,316
	2014	42,799,000	\$8,628,351
OTHER TIMBER PRODUCTS	2015	--	\$11,356
	2014	--	\$11,187
TOTAL	2015	--	\$13,728,672

**Board feet is the quantity of timber cut and scaled.*

***Timber production and value data are provided by State Board of Equalization, Timber Tax Division.*



2015 LIVESTOCK & POULTRY

ITEM	YEAR	NO. OF HEAD	TOTAL LIVE WT.	\$ PER HEAD	TOTAL
CATTLE & CALVES	2015	12,600	63,000	\$185.00	\$11,655,000
	2014	12,500	62,000	\$185.00	\$11,470,000
SHEEP	2015	1,800	2,400	\$157.00	\$376,800
	2014	1,800	2,400	\$145.00	\$348,000
MISC.	2015	--	--	--	\$750,000
	2014	--	--	--	\$702,000
TOTAL	2015	--	--	--	\$12,781,800



2015 LIVESTOCK PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	\$ PER UNIT	TOTAL
MILK, MARKET	2015	52,636	Cwt	\$16.83	\$885,864
	2014	51,930	Cwt	\$22.00	\$1,142,460
MILK, MANUFACTURING	2015	--	Cwt	--	\$11,700
	2014	--	Cwt	--	\$15,000
TOTAL	2015		Cwt	--	\$897,564

2015 SEED ACREAGE, PRODUCTION & VALUE

CROP	YEAR	ACREAGE	VALUE / ACRE	TOTAL	UNIT	CROP	TOTAL
RICE	2015	4,639	8,044	37,316,116	lbs.	\$0.31	\$11,553,070
	2014	4,402	9,100	40,058,200	lbs.	\$0.32	\$12,818,624
MISC.	2015	2,008	--	--		--	\$2,538,037
	2014	2,188	--	--		--	\$5,864,670
TOTAL	2015	6,647	--	--		--	\$14,091,107

**Miscellaneous includes onion, carrot, sunflower, pumpkin, watermelon, squash, cucumber, bean, alfalfa and melon seed.*

2015 PHYTOSANITARY EXPORTS

In 2015, a total of 2,116 phytosanitary certificates were issued and exported to 68 countries and 15 states within the United States. Shipments included a variety of fruits, vegetables, grains, beans, lumber and plants. In addition, approximately 978 seed field acres were inspected and certified during the 2015 season.



2015 SUSTAINABLE AGRICULTURAL REPORT

This report summarizes the varied activities and the methods used to prevent and control the spread of exotic pests in Butte County.

The pest, exclusion, detection, management and eradication programs serve to protect the county from infestation of introduced pests. Through monitoring and quick response to small infestations, damaging pest populations can be controlled before they require a large-scale response.

Biological Control provides a method of sustainable pest control with a minimum impact to the environment.

PEST DETECTION

A total of 991 traps were placed throughout the County to detect the presence of pests. The trap total included 300 Mediterranean, Oriental and Melon Fruit Fly traps, 77 Japanese Beetles traps; 214 traps for the Gypsy Moth, 243 Glassy-winged Sharpshooter traps, and 157 Asian Citrus Psyllid traps.

PEST EXCLUSION

Approximately 4,383 shipments were inspected for live exotic pests including the Glassy-winged Sharpshooter and Sudden Oak Death resulting in the issuance of 37 Notice of Rejections.

PEST MANAGEMENT

Weed Control Projects

		Control Activity	Chemical	Distribution
Skeleton Weed	<i>Chondrilla juncea</i>	Herbicide	Aminnopyralid	5 sites ~ 15 acres
Knap Weed, species	<i>Centaurea species</i>	Herbicide	Aminnopyralid	3 sites ~ 35 acres
Oblong Spurge	<i>Euphorbia oblongata</i>	Herbicide	Triclopyr	Paradise 1 site in Thermalito 1 site Chico
Sesbania	<i>Sebania punicea</i>	Herbicide	Triclopyr	Multiple locations in Oroville
Broom, species – In 2015 a total of 92 linear miles were treated with herbicide in Butte County				
Spanish	<i>Spartium junceum</i>	Herbicide	Triclopyr	Multiple County Locations
French	<i>Genista monspessulana</i>	Herbicide	Triclopyr	Multiple County Locations
Scotch	<i>Cytisus scoparius</i>	Herbicide	Triclopyr	Multiple County Locations
Purple Loosestrife	<i>Lythrum salicaria</i>	Bio-control	Various Agents	>500 acres in Oroville
White Horsenettle	<i>Solanum elaeagnifolium</i>	Herbicide	Triclopyr	1 site South Gridley Hwy 99
Winged Water Primrose	<i>Ludwigia decurrens</i>	Herbicide	Glyphosate	Limited locations in Richvale

Insect Control Projects

		Control Activity	Chemical	Distribution
Glassy-winged Sharpshooter	<i>Homalodisca vitripennis</i>	Insecticide	Imidacloprid	Chico, Eradicated

A Century of Weights & Measures in Butte County

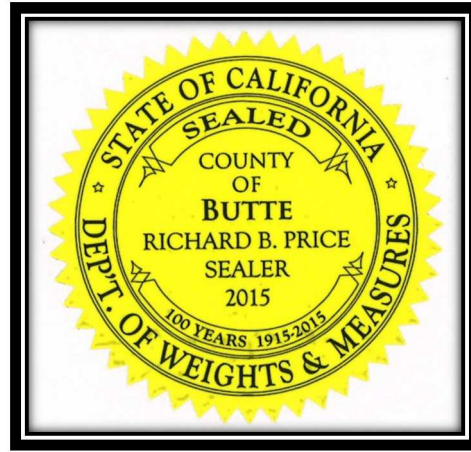
2015 marked the 100 year anniversary of Weights and Measures in Butte County. One of the functions of the Agricultural Commissioner/Sealer is to ensure equity in the marketplace.

Alfred James Storey was the first Sealer of Weights & Measure in Butte County. He was appointed in 1915 by the Butte County Board of Supervisors. A quote from his biography read "He is faithfully serving the best interest of the public of Butte County, in the conduct of his responsible office, and is quick to detect and bring to justice the unscrupulous dealer whose short yard-stick and false balance are still, as in the days of Solomon, an abomination to the Lord." From that point forward Weights and Measures officials have been charged with the task of ensuring that items bought and sold in the marketplace are fair, equitable and honest.



Since 1915 Weights & Measures officials have been performing tests regarding mass, volume, liquid, area, and length on devices such as scales and meters, and commodities like packaged goods and cords of firewood. The purpose of the testing is to determine accurate outcomes for buyers and sellers. Once the device is deemed accurate the inspector adheres an official seal to the face of the equipment to inform the consumer that it was tested and found correct. The seals are two inches in diameter with the emblem of the Great State of California the Roman goddess Minerva holding a spear and shield. The seal color changes annually and the Sealer's name may also change depending on whether or not a new Agricultural

Commissioner/Sealer has been appointed. To celebrate the 100 year anniversary of Weights and Measures service in Butte County our office duplicated the design of the original 1915 seal. The only exception was to the color. We hope the 2015 design draws attention to the seals and illuminates the 100 years of Weights and Measures services provided by Butte County.



Many changes have taken place over the years and now there is much more to evaluate and examine than there were 100 years ago. Advances in technology have led to equipment becoming increasingly more sophisticated in its speed, delivery and recording capabilities. Today, checking the accuracy of a device is only part of the inspection. Many devices are now interfaced with computer software systems which require us to examine the different ways computer generated data can be manipulated to facilitate fraud. One example would be the added effort of opening the housing units of gas pumps to search for credit/debit card skimmer devices, which can be used to illegally retrieve card and personal pin numbers.

Although many things have changed, the department's purpose still remains the same. The dedicated employees of the Butte County Agriculture/Weight and Measures Department continue to serve the community the same way they always have with an unparalleled commitment to excellence and a fervent desire to serve the public. The same way Alfred James Storey did a century ago.



A variety of old seals from the past.



Butte County
2016 Crop Report

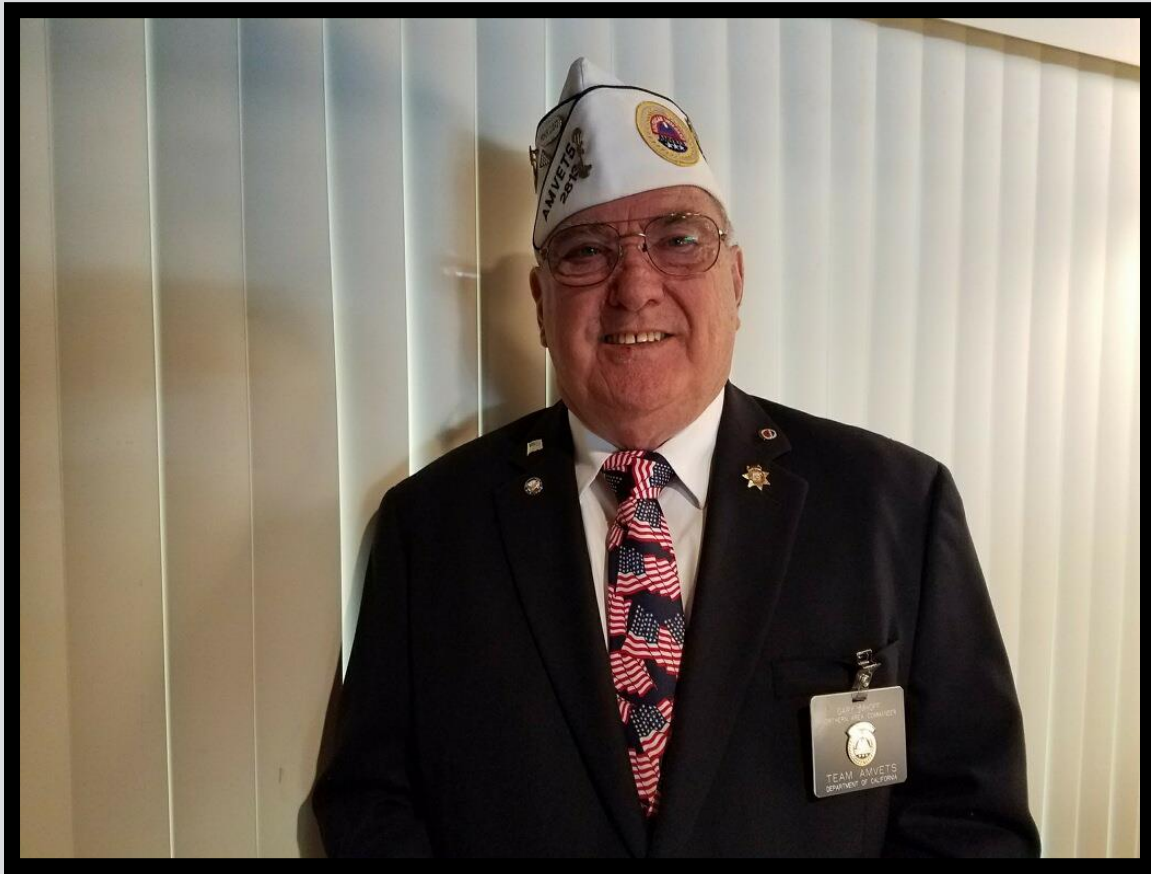


Butte County Agricultural Commissioner's Mission Statement

Protect and perpetuate Agriculture, the #1 industry in Butte County, by ensuring a safe and healthy agriculture product. Promote and provide confidence of buyers and sellers by ensuring fairness in local, national and international trade. Protect and promote the wellbeing of all our customers and our community through the fair, equitable application of agricultural and weights and measures standards, emphasizing education and cooperation, including the use of technology to enhance customer service.

Louie B. Mendoza Jr.

Agricultural Commissioner / Director of Weights & Measures



A Special Thanks!

The Butte County Agriculture/Weights & Measures Department would like to take this opportunity to acknowledge Gary Imhoff. Gary served the department for ten years as a Pest Detection Trapping Specialist and retired in 2016. Gary deployed, monitored and serviced thousands of insect traps in rural and urban areas throughout the county and performed the job with efficiency and reliability. The traps he placed were for the detection of exotic insect pests of economic importance to the State and County. Insect pests included Mediterranean, Oriental and Melon Fruit Flies, Gypsy Moth, Japanese Beetle, Asian Citrus Psyllid, Glassy-Winged Sharpshooter and the European Grapevine Moth. In 2013, he trapped two Gypsy Moths and assisted with the delimitation program, and fortunately, the initial two were the only two found.

Before coming to work for Butte County, Gary served in the United States Army from 1960 to 1963 and was stationed in Orleans, France. He also worked for Colgate-Palmolive Company for 27 years in military sales. Gary is currently a member of American Veterans, Color and Honor Guard, Butte County Sheriff's Mounted Posse and the Butte Rose Society. He participates in Memorial and Veterans Day functions and is active in the Elks Lodge in Chico. In his spare time he enjoys working in his rose garden and helping other rose enthusiasts with theirs.

We wish you the very best, and enjoy your retirement, Gary!

Agricultural and Weights & Measures Staff and Associates

Agricultural Commissioner / Director of Weights & Measures

Louie B. Mendoza Jr.

Assistant Agricultural Commissioner / Director of Weights & Measures

Tom A. Pisani

Deputy Directors of Agriculture / Weights & Measures

Rob Hill & Katharine Quist

Administrative Analyst, Associate

Charmaine Damron

Office Specialists, Senior

Friede Violante & Janice Wallick

Supervisor, Agricultural Biologist / Weights & Measures

Randy Hartman & Ramon Jauregui

Agricultural Biologist / Weights & Measures Inspector, Senior

Anastacia Allen, Eric Pittman, Dan Shrout

Agricultural Biologist / Weights & Measures Inspector III

Eric Jennings, Uriah Johnson, Robbie Towne

Agricultural Biologist / Weights & Measures Inspector II

Sonia Zarate & Apolinar Barrales

Agricultural Biologist / Weights & Measures Inspector I

Janessa Walters

Agricultural Technicians

Gary Imhoff, George Mendoza, Evan Padgett, Brandon Williams, Cierra Venegas

GIS Technician

Sally Loker

USDA Wildlife Specialist

Matt Albertsen



BUTTE COUNTY
DEPARTMENT OF AGRICULTURE / WEIGHTS & MEASURES
316 NELSON AVE.
OROVILLE, CA 95965
P: (530) 538-7381 F: (530) 538-7594
butteag@buttecounty.net

Louie B. Mendoza Jr.
Agricultural Commissioner / Sealer

Tom Pisani
Assistant Agricultural Commissioner / Sealer

September 12, 2017

Karen Ross
Secretary of the California Department of Food and Agriculture

The Honorable Butte County Board of Supervisors
Bill Connelly, Chair Larry Wahl
Maureen Kirk Doug Teeter
Steve Lambert

Paul Hahn
Chief Administrative Officer

Dear Sirs and Madams,

In accordance with provisions of the California Food and Agriculture Code section 2279, I am submitting the 77th annual crop report that shows the agricultural production and agricultural value in Butte County for the 2016 calendar year. Our department has been providing annual crop reports since 1939.

This report is a summary estimate of the acreage, production and gross value of Butte County agricultural products. The values presented in this report are gross values only, and do not reflect net farm income or costs of production and marketing.

The estimated gross value of agricultural production in Butte County for 2016 totaled **\$705,211,786**. This is a \$67,428,098 decrease over the 2015 gross value total of \$772,639,884. The total increase in gross value of agriculture during 2016 is 4% above our county 10-year average of \$680,461,549.

I wish to extend my appreciation to the many producers, processors and agencies, both private and governmental, who assist with this report by providing us with specific information pertaining to their business. I would also like to thank the staff of the Butte County Agriculture Department for compiling this report.

Respectfully submitted,

Louie B. Mendoza Jr.

Louie B. Mendoza Jr.
Agricultural Commissioner
Director of Weights & Measures

MILLION DOLLAR CROPS

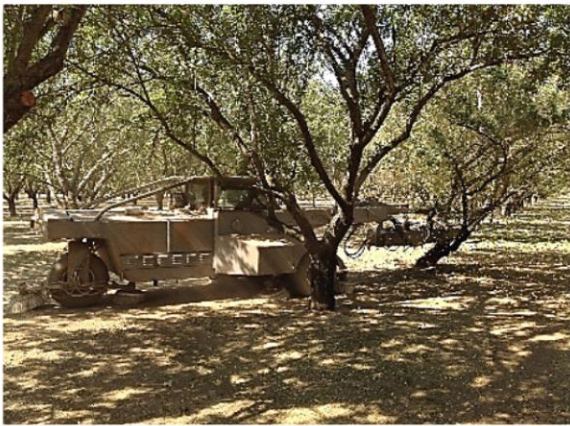
1	Walnuts	\$234,635,700
2	Almonds	\$187,902,400
3	Rice	\$122,845,800
4	Prunes	\$31,001,978
5	Cattle & Calves	\$13,462,848
6	Rice (Seed)	\$12,481,461
7	Nursery Stock	\$11,664,000
8	Peaches	\$9,846,875
9	Harvested Timber	\$8,518,497
10	Apiary (Pollination)	\$8,188,410
11	Fruit & Nut (Misc.)	\$5,418,360
12	Field Crop (Misc.)	\$5,294,400
13	Kiwifruit	\$3,826,785
14	Almond (Hulls)	\$3,600,000
15	Olive (Oil)	\$3,151,264
16	Pistachios	\$2,926,890
17	Seed Misc.	\$2,196,373
18	Pasture, Irrigated	\$2,101,950
19	Pasture, Dry	\$2,000,000
20	Beans, Dry/Edible	\$1,734,268
21	Vegetables	\$1,524,973
22	Alfalfa	\$1,458,913
23	Citrus	\$1,448,450
24	Olive (Table)	\$1,412,384

FIVE YEAR SUMMARY OF CROP VALUES

CROP	2012	2013	2014	2015	2016
APIARY PRODUCTS	\$7,340,000	\$7,977,000	\$10,865,340	\$10,586,121	\$9,106,410
FIELD CROPS	\$175,063,000	\$220,799,346	\$168,290,698	\$151,013,590	\$136,303,891
FRUIT & NUT CROPS	\$469,591,000	\$557,225,178	\$556,649,028	\$532,53,396	\$485,171,086
LIVESTOCK	\$11,421,000	\$12,099,000	\$12,520,000	\$12,781,800	\$14,478,648
NURSERY STOCK	\$21,558,000	\$29,458,000	\$17,819,000	\$14,111,000	\$11,664,000
SEED CROPS	\$16,496,000	\$18,510,000	\$18,683,294	\$14,091,107	\$14,677,834
VEGETABLE CROPS	\$872,000	\$1,785,000	\$1,503,000	\$1,743,626	\$1,524,973
ORGANIC CROPS	\$9,515,000	\$13,448,637	\$15,935,500	\$21,930,572	\$23,759,940
CROP TOTALS	\$711,856,000	\$861,302,161	\$802,265,860	\$758,911,212	\$696,686,782
TIMBER	\$9,578,000	\$8,292,000	\$8,639,538	\$13,728,672	\$8,525,004
GRAND TOTAL	\$721,434,000	\$869,594,161	\$810,905,398	\$772,639,884	\$705,211,786

FIVE YEAR SUMMARY OF PLANT CROP ACRES

CROP	2012	2013	2014	2015	2016
FIELD CROPS	373,484	367,783	337,989	311,061	321,932
FRUIT & NUT CROPS	95,043	96,928	97,237	101,486	101,446
SEED CROPS	6,468	6,923	6,590	6,647	6,176
VEGETABLE CROPS	789	844	708	817	674
GRAND TOTAL	475,784	472,478	442,524	420,011	430,228



2016 FRUIT & NUT CROPS ACREAGE STATISTICS

ORCHARD CROPS	BEARING	NON-BEARING	TOTAL
ALMONDS	38,775	1,372	40,147
APPLES	47	0	47
APRICOTS	29	0	29
AVOCADOS	3	0	3
CHERRIES	250	0	250
CHESTNUTS	46	0	46
GRAPES (Table & Raisin)	10	0	10
GRAPES (Wine)	162	1	163
KIWIFRUIT	693	0	693
MANDARINS	99	0	99
NECTARINES	5	0	5
OLIVES (Oil)	1,499	0	1,499
OLIVES (Table)	505	0	505
ORANGES	123	0	123
PEACHES, CLINGSTONE	1,384	0	1,384
PEACHES, FREESTONE	40	0	40
PEARS	11	0	11
PECANS	326	0	326
PERSIMMONS	52	12	64
PISTACHIOS	765	0	765
PLUMS	108	0	108
PRUNES	6,571	148	6,719
WALNUTS, ENGLISH	49,293	4,460	53,753
WALNUTS, BLACK	27	1	28
TOTAL	100,817	5,994	106,817



2016 FRUIT & NUT CROPS ACREAGE, PRODUCTION AND VALUE

Crop	Year	Bearing (ac)	Yield (tons)	Yield (tons) / Bearing (ac)	Value (\$) / 1 (ton)	Total (\$)
ALMONDS	2016	39,475	33,554	0.85	\$5,600	\$187,902,400
	2015	39,626	33,682	0.85	\$6,000	\$202,092,000
HULLS	2016	--	40,000	--	\$90	\$3,600,000
	2015	--	40,000	--	\$120	\$4,800,000
CITRUS	2016	223	491	2.20	\$2,950	\$1,448,450
	2015	223	647	2.90	\$2,096	\$1,356,112
KIWIFRUIT	2016	693	5,933	8.50	\$645	\$3,826,785
	2015	698	6,282	9.00	\$725	\$4,554,450
OLIVES (OIL)	2016	1,499	5,396	3.60	\$584	\$3,151,264
	2015	1,917	8,345	4.35	\$697	\$5,816,465
OLIVES (TABLE)	2016	505	1,616	3.20	\$874	\$1,412,384
	2015	690	2,691	3.90	\$998	\$2,685,618
PEACHES	2016	1,384	17,125	15.50	\$575	\$9,846,875
	2015	1,549	26,333	17.00	\$566	\$14,904,478
PISTACHIOS	2016	765	765	0.90	\$3,826	\$2,926,890
	2015	765	765	1.00	\$5,777	\$4,419,405
PRUNES	2016	6,571	13,142	1.20	\$2,359	\$31,001,978
	2015	6,807	19,740	2.90	\$2,188	\$43,191,120
WALNUTS	2016	49,293	138,021	2.60	\$1,700	\$234,635,700
	2015	48,180	120,450	2.50	\$2,000	\$240,900,000
MISC. *	2016	1,038	--	--	--	\$5,418,360
	2015	1,030	--	--	--	\$7,933,748
TOTAL	2016	101,446	--	--	--	\$485,171,086
	2015	101,486	--	--	--	\$532,433,396



2016 FIELD CROP ACREAGE, PRODUCTION AND VALUE

Crop	Year	Bearing (ac)	Yield (tons)	Yield (tons) / Bearing (ac)	Value (\$) / 1 (ton)	Total
BEANS, DRY EDIBLE	2016	849	1,658	0.86	\$1,046	\$1,734,268
	2015	1,235	1,482	1.20	\$1,270	\$1,882,140
ALFALFA	2016	1,349	10,649	7.90	\$137	\$1,458,913
	2015	1,597	9,103	5.70	\$182	\$1,656,746
PASTURE, IRRIGATED	2016	14,013	--	--	\$150	\$2,101,950
	2015	14,013	--	--	\$150	\$2,101,950
PASTURE, OTHER	2016	200,000	--	--	\$10	\$2,000,000
	2015	200,000	--	--	\$10	\$2,000,000
RICE	2016	95,045	446,712	4.70	\$275	\$122,845,800
	2015	87,700	409,121	4.67	\$339	\$138,692,019
SAFFLOWER	2016	219	399	1.83	\$440	\$175,560
	2015	337	404	1.20	\$505	\$204,020
WHEAT	2016	3,839	4,950	1.30	\$140	\$693,000
	2015	1,360	2,584	1.90	\$191	\$493,544
MISC. *	2016	6,618	--	--	--	\$5,294,400
	2015	4,819	--	--	--	\$3,983,171
TOTAL	2016	321,932	--	--	--	\$136,303,891
	2015	311,061	--	--	--	\$151,013,590

2016 APIARY PRODUCTS, PRODUCTION & VALUE

	YEAR	PRODUCTION (COLONIES)	VALUE PER COLONY	TOTAL
POLLINATION	2016	46,388	\$176.52	\$8,188,410
	2015	57,332	\$168.92	\$9,684,521
OTHER APIARY PRODUCTS	2016	--	--	\$918,000
	2015	--	--	\$901,600
TOTAL	2016			\$9,106,410
	2015			\$10,586,121



2016 Registered Organic Statistics

12,158 Acres • 86 Producers • 8 Handlers • 1 Processor • 1 Retailer

\$23,759,940 Total Value

Includes alfalfa, almonds, apples, berries, cherries, cut flowers, grapes, herbs, kiwi fruit, livestock, dairy, mandarins, nursery stock, olives, peaches, persimmons, prunes, rice, safflower, tomatoes, vegetables, vetch, walnuts and wild rice.

2016 VEGETABLE VALUE

2016 Total Value - \$1,524,973

2015 Total Value - \$1,743,626

**Vegetable Values reflect Certified Producer commodities such as asparagus, broccoli, corn, cucumbers, melons, onions, squash, tomatoes, strawberries, etc.*

2016 NURSERY ACREAGE & VALUE

2016 Total Acres - 137 ---\$11,664,000

2015 Total Acres - 137 --- \$14,111,000

**Nursery data includes broad leaved evergreens, coniferous evergreens, deciduous fruit, nut and shade trees, shrubs, kiwi vines, herbaceous perennials, indoor decorative plants, bulbs, rhizomes, bedding plants, and specimen trees.*

2016 HARVEST TIMBER PRODUCTION & VALUE

	YEAR	PRODUCTION (BFT)	VALUE
HARVESTED TIMBER	2016	43,811,000	\$8,518,497
	2015	60,559,000	\$13,717,316
OTHER TIMBER PRODUCTS	2016	--	\$6,507
	2015	--	\$11,356
TOTAL	2016	--	\$8,525,004
	2015	--	\$13,728,672

**Board feet is the quantity of timber cut and scaled.*

***Timber production and value data are provided by State Board of Equalization, Timber Tax Division.*

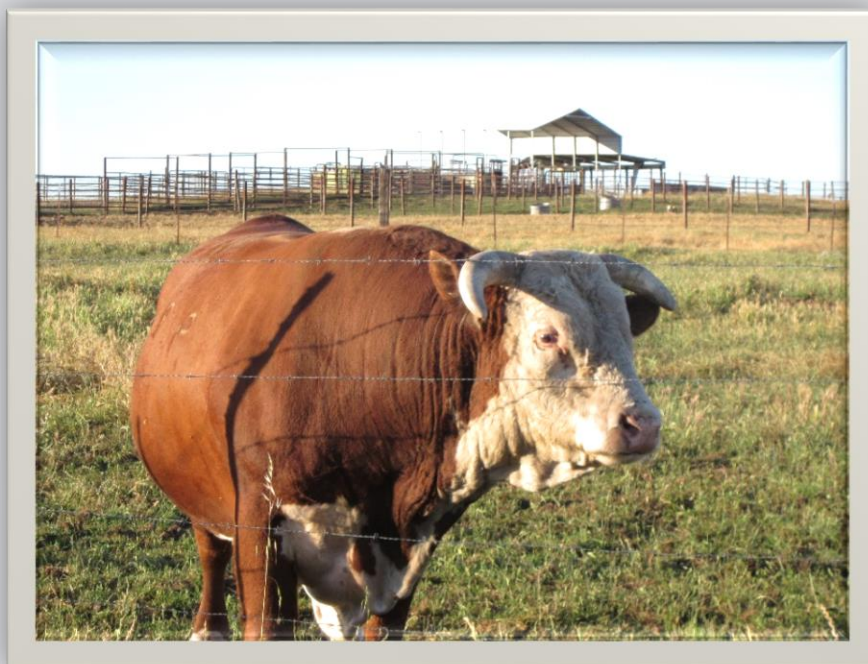


2016 LIVESTOCK & POULTRY

	YEAR	NUMBER OF HEAD	TOTAL LIVE WEIGHT (CWT)	VALUE/CWT	TOTAL
CATTLE & CALVES	2016	12,600	63,504	\$212.00	\$13,462,848
	2015	12,500	63,000	\$185.00	\$11,655,000
SHEEP	2016	1,800	2,400	\$142.00	\$340,800
	2015	1,800	2,400	\$157.00	\$376,800
MISC.	2016	--	--	--	\$675,000
	2015	--	--	--	\$750,000
TOTAL	2016	--	--	--	\$14,478,648
	2015	--	--	--	\$12,781,800

2016 LIVESTOCK PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	\$ PER UNIT	TOTAL
MILK, MARKET	2016	42,988	Cwt	\$16.65	\$715,750
	2015	52,636	Cwt	\$16.83	\$885,864
MILK, MAUFACTURING	2016	--	Cwt	--	\$9,500
	2015	--	Cwt	--	\$11,700
TOTAL	2016	--	Cwt	--	\$725,250
	2015	--	Cwt	--	\$897,564



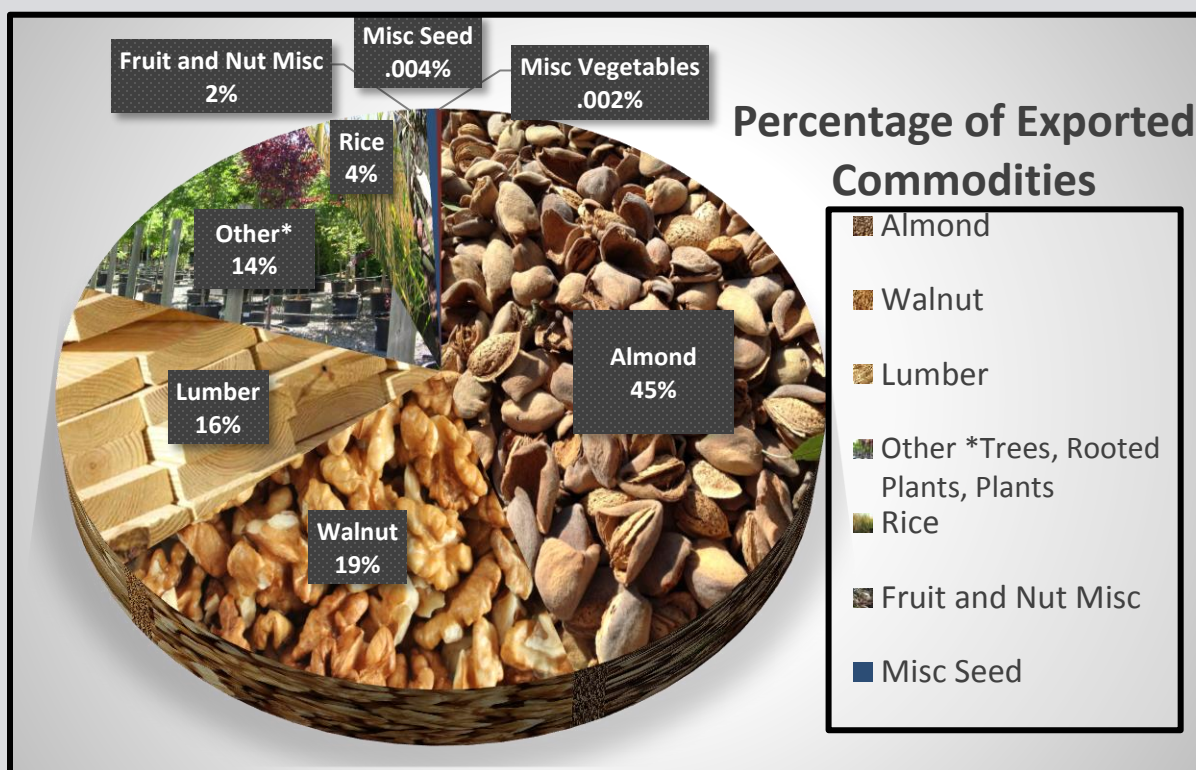
2016 SEED ACREAGE, PRODUCTION & VALUE

CROP	YEAR	ACREAGE	YIELD / ACRE	TOTAL	UNIT	VALUE	TOTAL
RICE	2016	4,639	9,965	46,227,635	lbs.	\$0.27	\$12,481,461
	2015	4,639	8,044	37,316,116	lbs.	\$0.31	\$11,567,996
MISC.	2016	1,537	--	--	--	--	\$2,196,373
	2015	2,008	--	--	--	--	\$2,538,037
TOTAL	2016	6,176	--	--	--	--	\$14,677,834
	2015	6,647	--	--	--	--	\$14,106,033

*Miscellaneous includes onion, carrot, sunflower, pumpkin, watermelon, squash, cucumber, bean, alfalfa and melon seed.

2016 PHYTOSANITARY EXPORTS

In 2016, a total of 2,859 phytosanitary certificates were issued and exported to 73 countries and 8 states within the United States. Shipments included a variety of fruits, vegetables, grains, beans, lumber and plants. In addition, approximately 804 seed field acres were inspected and certified during the 2016 season.



2016 SUSTAINABLE AGRICULTURAL REPORT

This report summarizes the varied activities and the methods used to prevent and control the spread of exotic pests in Butte County.

The Pest Exclusion, Detection, Management, and Eradication programs serve to protect the County from an infestation of introduced pests. Through monitoring and quick response to small infestations, damaging pest populations can be controlled before they require a large-scale response.

Biological Control provides a method of sustainable pest control with a minimum impact to the environment.

PEST DETECTION

A total of 991 traps were placed throughout the County to detect the presence of pests. The trap total included 300 Mediterranean, Oriental and Melon Fruit Fly traps, 77 Japanese Beetles traps, 214 traps for the Gypsy Moth, 243 Glassy-winged Sharpshooter traps, and 157 Asian Citrus Psyllid traps.

PEST EXCLUSION

Approximately 4,383 shipments were inspected for live exotic pests including the Glassy-winged Sharpshooter and Sudden Oak Death resulting in the issuance of 37 Notice of Rejections.

PEST MANAGEMENT

Weed Control Projects

		Control Activity	Chemical	Distribution
Skeleton Weed	<i>Chondrilla juncea</i>	Herbicide	Aminnopyralid	5 sites ~ 15 acres
Knap Weed, species	<i>Centaurea species</i>	Herbicide	Aminnopyralid	3 sites ~ 35 acres
Oblong Spurge	<i>Euphorbia oblongata</i>	Herbicide	Triclopyr	Paradise 1 site in Thermalito 1 site Chico
Sesbania	<i>Sebania punicea</i>	Herbicide	Triclopyr	Multiple locations in Oroville
Broom, species – In 2016 a total of 92 linear miles were treated with herbicide in Butte County				
Spanish	<i>Spartium junceum</i>	Herbicide	Triclopyr	Multiple County Locations
French	<i>Genista monspessulana</i>	Herbicide	Triclopyr	Multiple County Locations
Scotch	<i>Cytisus scoparius</i>	Herbicide	Triclopyr	Multiple County Locations
Purple Loosestrife	<i>Lythrum salicaria</i>	Bio-control	Various Agents	>500 acres in Oroville
White Horsenettle	<i>Solanum elaeagnifolium</i>	Herbicide	Triclopyr	1 site South Gridley Hwy 99
Winged Water Primrose	<i>Ludwigia decurrens</i>	Herbicide	Glyphosate	Limited locations in Richvale
		Control Activity	Chemical	Distribution
Glassy-winged Sharpshooter	<i>Homalodisca vitripennis</i>	Insecticide	Imidacloprid	Chico, Eradicated

Butte County Weights and Measures and its Significance

Agriculture, commerce, manufacturing and trade, play an important role in Butte County. Business transactions between buyers and sellers are what fuels our economic engine. These transactions must be equitable in order for both parties to share approval and the source of fair and honest trade comes from the use of accurate weights and measures. Since 1915 weights and measures has played an important part in the economic vitality of the County by the diligent efforts of our hard working officials who examine the means and process by which monetary transactions occur to ensure equity in the marketplace. So, the next time you're at the grocery store purchasing bread, butter and milk you can rest assured you're receiving the quantity you paid for because of the efforts of Weights and Measures Officials.

Weights & Measures Inspections Performed in 2016

Scales

367	Computing
88	Counter
96	Dormant & Platform
2	Forklift
6	Hopper & Tank
75	Hanging
11	Livestock & Animal
1	Monorail & Meat
11	Prescription & Jeweler
92	Vehicle Truck

Weighmaster

7	Scrap Metal Businesses
---	---------------------------

Meters

18	Carpet/Fabric/Rope/Wire
2	Compressed Natural Gas
301	Electrical Utility
215	Gas Utility
16	Petroleum Trucks
2	Retail Meters
1,959	Retail Motor Fuel
12	Stationary Propane
55	Taxi
14	Truck Propane
208	Water Utility
12	Water Vending
43	Wholesale Gas

Quantity Control

4	Bulk Commodity
5	Labeling
10	Overcharges
1,680	Package Audits
33	Packages put Off Sale
350	Packages Scanned

Petroleum

10	Antifreeze/Diesel
78	Initial Inspections

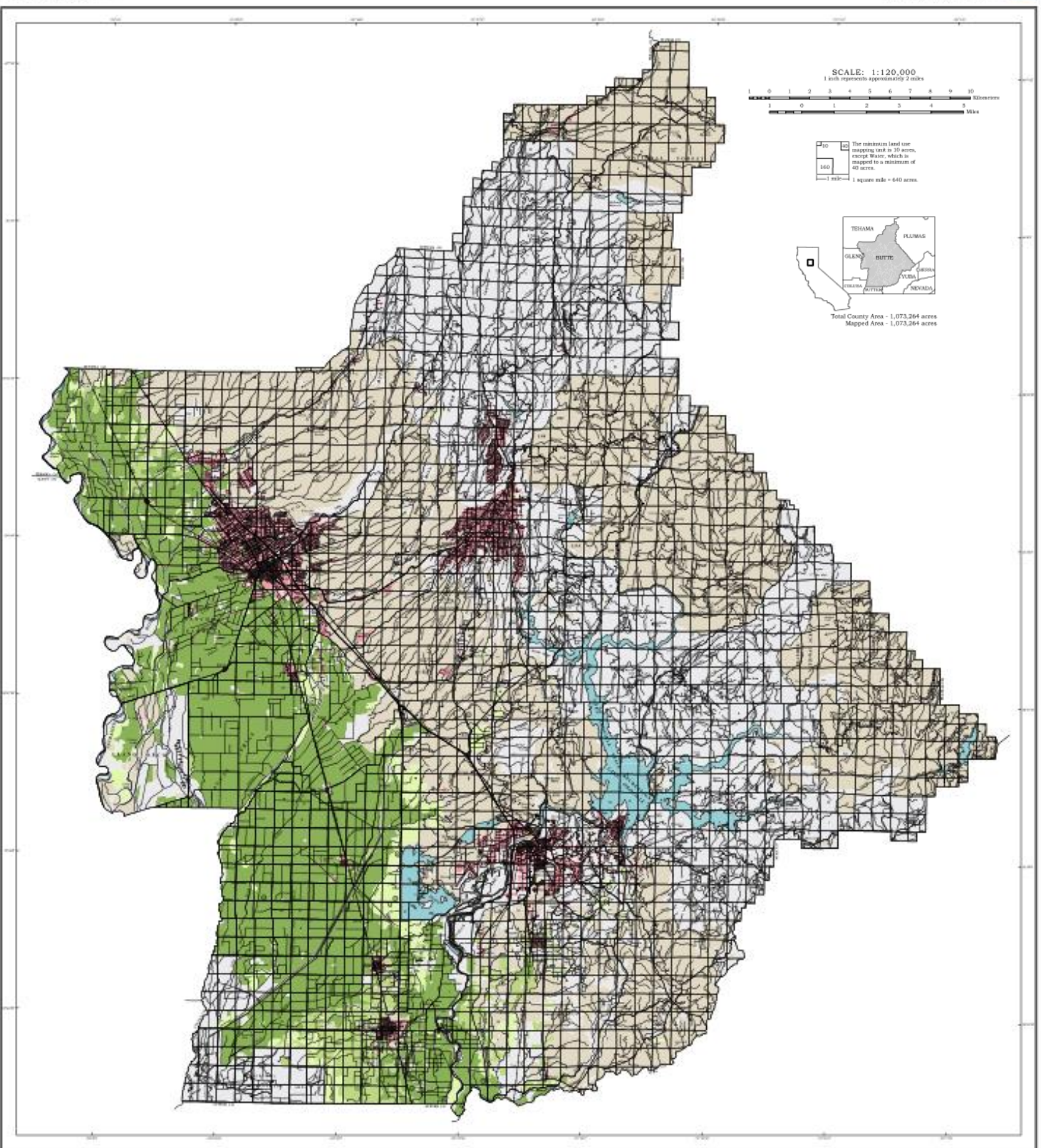


Left Photo:
Dan Shrout testing
gas utility submeters
using a five cubic
foot American
Standard Bell Prover.








Right Photo:
Uriah Johnson
testing an animal
scale for the
Butte County Fair.



BUTTE COUNTY IMPORTANT FARMLAND 2016



Legend

-  Prime Farmland has the best combination of physical and chemical features able to sustain long-term agricultural production. This land has the soil quality, growing season, and moisture supply needed to produce sustained high yields. Land must have been used for irrigated agricultural production at some time during the four years prior to the mapping date.
-  Farmland of Statewide Importance is similar to prime farmland but with minor shortcomings, such as greater slopes or less ability to store soil moisture. Land must have been used for irrigated agricultural production at some time during the four years prior to the mapping date.
-  Unique Farmland consists of lesser quality soils used for the production of the state's leading agricultural crops. This land is usually irrigated, but may include nonirrigated orchards or vineyards as found in some climatic zones in California. Land must have been cropped at some time during the four years prior to the mapping date.
-  Grazing land is land on which the existing vegetation is suited to the grazing of livestock.
-  Urban and Built-Up Land is occupied by structures with a building density of at least 1 unit to 1.5 acres or approximately 6 structures to a 10 acre parcel. Common examples include residential, industrial, commercial, institutional facilities, cemeteries, airports, golf courses, sanitary landfills, sewage treatment, and water control structures.
-  Other Land is land not included in any other mapping category. Common examples include low density rural developments, brush, timber, wetland, and riparian areas not suitable for livestock grazing, confined livestock, poultry, or aquaculture facilities, strip mines, borrow pits, and water bodies smaller than 40 acres. Vacant and nonagricultural land surrounded on all sides by urban development and greater than 40 acres is mapped as other land.
-  Perennial Water Bodies with an extent of at least 40 acres.

BUTTE COUNTY
2004-2016 Land Use Summary
 Farmland Mapping and Monitoring Program
 CALIFORNIA DEPARTMENT OF CONSERVATION

LAND USE CATEGORY	ACREAGE BY CATEGORY							2004-2016 NET ACREAGE CHANGED	ANNUAL AVERAGE CHANGE
	2004*	2006**	2008	2010	2012	2014	2016***		
Prime Farmland	197,557	196,217	194,689	193,289	192,643	192,293	192,561	-4,996	-416
Farmland of Statewide Importance	22,323	21,602	22,794	21,872	21,699	21,575	21,598	-725	-60
Unique Farmland	24,957	24,236	23,078	22,189	22,044	22,430	23,279	-1,678	-140
Farmland of Local Importance	0	0	0	0	0	0	0	0	0
Important Farmland Subtotal	244,837	242,055	240,561	237,350	236,386	236,298	237,438	-7,399	-617
Grazing Land	406,401	407,680	401,859	402,999	403,741	401,751	400,165	-6,236	-520
Agricultural Land Subtotal	651,238	649,735	642,420	640,349	640,127	638,049	637,603	-13,635	-1,136
Urban and Built-Up Land	43,820	44,804	45,350	45,913	46,030	46,329	46,647	2,827	236
Other Land	355,572	355,895	362,624	364,131	364,219	366,013	365,964	10,392	866
Water Area	22,624	22,818	22,858	22,859	22,876	22,873	23,050	426	36
Total Area Inventoried	1,073,254	1,073,252	1,073,252	1,073,252	1,073,252	1,073,264	1,073,264	10	1

- (1) Prior to the availability of digital soil data (SSURGO) in 2004, the county was mapped using Interim Farmland categories. See other worksheet.
 (2) Water acreage changed in 2006 due to improved delineation along the Sacramento River and addition of Philbrook Reservoir.
 (3) Water acreage changed in 2016 due to improved delineation along the Sacramento River.

PERCENTAGE OF COUNTY INVENTORIED: 100%
 National Forest areas were added when soil survey data became available.



BUTTE COUNTY

2017

CROP REPORT

The cover photo is from Windmill Farm of Gridley, CA owned by Frank & Paula Carli, and is a representation of small farms and direct marketing of agriculture in Butte County. Small farmers provide consumers with locally grown commodities such as nectarines, apples and flowers. Whether they belong to a Community Supported Ag Program, Certified Farmers' Market or utilize a roadside stand, they are all an important part of our community.

When you buy from local farmers, you contribute to the local economy and in turn, benefit from the freshness and variety of seasonally grown crops.





BUTTE COUNTY
DEPARTMENT OF AGRICULTURE / WEIGHTS & MEASURES
316 NELSON AVE.
OROVILLE, CA 95965
P: (530) 538-7381 F: (530) 538-7594
butteag@buttecounty.net

Louie B. Mendoza Jr.
Agricultural Commissioner / Sealer

Tom Pisani
Assistant Agricultural Commissioner / Sealer

September 11, 2018

Karen Ross
Secretary of the California Department of Food and Agriculture

The Honorable Butte County Board of Supervisors
Steve Lambert, Chair Larry Wahl
Maureen Kirk Doug Teeter
Bill Connelly

Shari McCracken,
Chief Administrative Officer

Dear Sirs and Madams,

In accordance with provisions of the California Food and Agriculture Code section 2279, I am submitting the 78th annual crop report that shows the agricultural production and agricultural value in Butte County for the 2017 calendar year. Our department has been providing annual crop reports since 1939.

This report is a summary estimate of the acreage, production and gross value of Butte County agricultural products. The values presented in this report are gross values only, and do not reflect net farm income or costs of production and marketing.

The estimated gross value of agricultural production in Butte County for 2017 totaled **\$696,563,214**. This is a \$775,897 increase over the 2016 gross value total of \$695,787,317. The total gross value of agriculture during 2017 is slightly less than our county 10-year average of \$696,650,123.

I wish to extend my appreciation to the many producers, processors and agencies, both private and governmental, who assist with this report by providing us with specific information pertaining to their business. I would also like to thank the staff of the Butte County Agriculture Department for compiling this report.

Respectfully submitted,

Louie B. Mendoza Jr.

Agricultural Commissioner
Director of Weights & Measures



A Sincere Thank You!

The Butte County Agriculture Department would like to take this opportunity to recognize Sally Loker. Sally worked for the department for eleven years as our Geographic Information System (GIS) Specialist. Sally's knowledge and expertise using established GIS software programs, commands and compilation methods, and her ability to generate and utilize spatial overlays was a huge benefit to the department. Some of Sally's duties included providing request for special services, producing special purpose maps used to determine sensitive pesticide application sites and buffer distances, data compilation and retrieval of GIS data for the department.

Sally felt that her most rewarding project was being able to use ArcGIS to benefit the Agricultural Biologists performing inspections in the field, and on their iPads. In addition to working for the department, Sally has been busy volunteering with the Butte County UC Extension Master Gardening program and the Sierra Club. In the above photo Sally was participating in ice plant eradication at Point Reyes, near San Francisco. Way to go Sally!

In her retirement, Sally has been able to dedicate more time to traveling, playing tennis, yoga, and spending time with her family.

Sally's mantra, "I do it because it's fun!" Well Sally, we hope you are still having fun! We miss you and wish you a very happy and blissful retirement!

Agricultural and Weights & Measures Staff and Associates

Agricultural Commissioner / Director of Weights & Measures

Louie B. Mendoza Jr.

Assistant Agricultural Commissioner / Director of Weights & Measures

Tom A. Pisani

Deputy Directors of Agriculture / Weights & Measures

Rob Hill & Katharine Quist

Administrative Analyst, Associate

Charmagne Damron

Accounting Specialists

Friede Violante & Janice Wallick

Supervisor, Agricultural Biologist / Weights & Measures

Randy Hartman & Ramon Jauregui

Agricultural Biologist / Weights & Measures Inspector, Senior

Anastacia Allen, Eric Jennings, Uriah Johnson, Eric Pittman, Dan Shrout, Robbie Towne, Sonia Zarate

Agricultural Biologist / Weights & Measures Inspector III

Apolinar Barrales

Agricultural Technicians

Lee Hunt, George Mendoza, Evan Padgett, Jose Torres, Cierra Venegas & Brandon Williams

GIS Technician

Sally Loker

USDA Wildlife Specialist

Matt Albertsen

Butte County Agricultural Commissioner's Mission Statement

Protect and perpetuate Agriculture, the #1 industry in Butte County, by ensuring a safe and healthy agriculture product. Promote and provide confidence of buyers and sellers by ensuring fairness in local, national and international trade. Protect and promote the wellbeing of all our customers and our community through the fair, equitable application of agricultural and weights and measures standards, emphasizing education and cooperation, including the use of technology to enhance customer service.

MILLION DOLLAR CROPS

Walnuts	\$254,980,804
Rice	\$145,548,516
Almonds	\$138,194,736
Prunes	\$35,206,770
Nursery Stock	\$13,877,606
Harvested Timber	\$13,529,289
Cattle & Calves	\$11,617,452
Rice, Seed	\$11,054,400
Apiary, Pollination	\$8,622,212
Peaches	\$7,940,700
Fruit & Nut, Misc.	\$5,282,640
Olive, Oil	\$2,899,160
Field Crops, Misc.	\$2,868,800
Apiary, Other Products	\$2,576,000
Kiwifruit	\$2,222,025
Pistachios	\$2,187,850
Almond, Hulls	\$2,160,000
Pasture, Irrigated	\$1,950,000
Pasture, Dry	\$1,950,000
Vegetables	\$1,601,222
Citrus	\$1,484,000
Milk, Market	\$1,187,210
Seed, Misc.	\$1,131,768
Olive, Table	\$1,052,952

FIVE YEAR SUMMARY OF CROP VALUES

CROP	2013	2014	2015	2016	2017
APIARY PRODUCTS	\$7,977,000	\$10,865,340	\$10,586,121	\$10,586,121	\$11,198,212
FIELD CROPS	\$220,799,346	\$168,290,698	\$151,013,590	\$135,340,039	\$153,907,456
FRUIT & NUT CROPS	\$557,225,178	\$556,649,028	\$532,653,396	\$475,230,758	\$453,611,637
LIVESTOCK	\$12,099,000	\$12,520,000	\$12,781,800	\$14,478,648	\$12,744,180
NURSERY STOCK	\$29,458,000	\$17,819,000	\$14,111,000	\$11,664,000	\$13,877,606
SEED CROPS	\$18,510,000	\$18,683,294	\$14,091,107	\$14,677,834	\$12,186,168
VEGETABLE CROPS	\$1,785,000	\$1,503,000	\$1,743,626	\$1,524,973	\$1,601,222
ORGANIC CROPS	\$13,448,637	\$15,935,500	\$21,930,572	\$23,759,940	\$23,902,017
CROP TOTALS	\$861,302,161	\$802,265,860	\$758,911,212	\$687,262,313	\$683,028,498
TIMBER	\$8,292,000	\$8,639,538	\$13,728,672	\$8,525,004	\$13,534,716
GRAND TOTAL	\$869,594,161	\$810,905,398	\$772,639,884	\$695,787,317	\$696,563,214

FIVE YEAR SUMMARY OF PLANT CROP ACRES

CROP	2013	2014	2015	2016	2017
FIELD CROPS	367,783	337,989	311,061	321,932	309,483
FRUIT & NUT CROPS	96,928	97,237	101,486	101,446	101,409
SEED CROPS	6,923	6,590	6,647	6,176	5,492
VEGETABLE CROPS	844	708	817	674	603
GRAND TOTAL	472,478	442,524	420,011	430,228	416,987



2017 FRUIT & NUT CROPS ACREAGE STATISTICS

ORCHARD CROPS	BEARING	NON-BEARING	TOTAL
ALMONDS	39,575	1,143	40,718
APPLES	47	9	56
APRICOTS	19	0	19
AVOCADOS	3	0	3
CHERRIES	3	0	3
CHESTNUTS	46	43	89
GRAPES (Table & Raisin)	5	0	5
GRAPES (Wine)	137	0	137
KIWIFRUIT	579	5	584
MANDARINS	94	0	94
NECTARINES	5	0	5
OLIVES (Oil)	998	0	998
OLIVES (Table)	333	0	333
ORANGES	118	0	118
PEACHES, CLINGSTONE	1384	221	1605
PEACHES, FREESTONE	40	0	40
PEARS	11	0	11
PECANS	326	105	431
PERSIMMONS	64	38	102
PISTACHIOS	765	67	832
PLUMS	108	0	108
PRUNES	6,719	1,413	8,132
WALNUTS, ENGLISH	49,832	5,218	55,050
WALNUTS, BLACK	18	0	18
TOTAL	101,229	8,262	109,491

Data from California Crop and Livestock Reporting Service and other sources



2017 FRUIT & NUT CROPS ACREAGE, PRODUCTION AND VALUE

Crop	Year	Bearing (ac)	Yield (tons)	Yield (tons) / Bearing (ac)	Value (\$) / 1 (ton)	Total (\$)
ALMONDS	2017	39,575	29,681	0.75	\$4,656	\$138,194,736
	2016	39,475	33,554	0.85	\$5,600	\$187,902,400
HULLS	2017	--	36,000	--	\$60	\$2,160,000
	2016	--	40,000	--	\$90	\$3,600,000
CITRUS	2017	212	742	3.50	\$2,000	\$1,484,000
	2016	223	491	2.20	\$2,950	\$1,448,450
KIWIFRUIT	2017	579	3,445	5.95	\$645	\$2,222,025
	2016	693	5,891	8.50	\$645	\$3,799,695
OLIVES (OIL)	2017	998	4,840	4.85	\$599	\$2,899,160
	2016	1,499	5,396	3.60	\$584	\$3,151,264
OLIVES (TABLE)	2017	333	1,202	3.61	\$876	\$1,052,952
	2016	505	1,616	3.20	\$874	\$1,412,384
PEACHES	2017	1,384	18,684	13.50	\$425	\$7,940,700
	2016	1,384	21,452	15.50	\$575	\$12,334,900
PISTACHIOS	2017	765	490	0.64	\$4,465	\$2,187,850
	2016	765	765	1.00	\$3,826	\$2,926,890
PRUNES	2017	6,719	16,529	2.46	\$2,130	\$35,206,770
	2016	6,571	7,885	1.20	\$2,359	\$18,600,715
WALNUTS	2017	49,832	119,597	2.40	\$2,132	\$254,980,804
	2016	49,293	138,021	2.80	\$1,700	\$234,635,700
MISC. *	2017	1,012	--	--	--	\$5,282,640
	2016	1,038	--	--	--	\$5,418,360
TOTAL	2017	101,409	--	--	--	\$453,611,637
	2016	101,446	--	--	--	\$475,230,758

* Misc. includes apples, apricots, cherry, chestnut, fig, nectarine, pear, asian pear, pecan, plum, pomegranate, etc.



2017 FIELD CROP ACREAGE, PRODUCTION AND VALUE

Crop	Year	Bearing (ac)	Yield (tons)	Yield (tons) / Bearing (ac)	Value (\$) / 1 (ton)	Total
BEANS, DRY EDIBLE	2017	429	558	1.30	\$1,098	\$612,684
	2016	849	730	0.86	\$1,046	\$763,580
ALFALFA	2017	470	3,135	6.67	\$156	\$489,060
	2016	1,349	10,657	7.90	\$137	\$1,460,009
PASTURE, IRRIGATED	2017	13,000	--	--	\$150	\$1,950,000
	2016	14,013	--	--	\$150	\$2,101,950
PASTURE, OTHER	2017	195,000	--	--	\$10	\$1,950,000
	2016	200,000	--	--	\$10	\$2,000,000
RICE	2017	93,444	411,154	4.40	\$354	\$145,548,516
	2016	95,045	446,712	4.70	\$275	\$122,845,800
SAFFLOWER	2017	122	92	0.75	\$300	\$27,600
	2016	219	399	1.82	\$440	\$175,560
WHEAT	2017	3,432	4,702	1.37	\$98	\$460,796
	2016	3,839	4,991	1.30	\$140	\$698,740
MISC. *	2017	3,586	--	--	--	\$2,868,800
	2016	6,618	--	--	--	\$5,294,400
TOTAL	2017	309,483	--	--	--	\$153,907,456
	2016	321,932	--	--	--	\$135,340,039

* Misc. includes barley, corn, forage hay, hops, mustard, oat, ryegrass, sorghum milo, sudan grass, vetch etc.

2017 APIARY PRODUCTS, PRODUCTION & VALUE

	YEAR	PRODUCTION (COLONIES)	VALUE PER COLONY	TOTAL
POLLINATION	2017	46,506	\$185.40	\$8,622,212
	2016	46,388	\$176.52	\$8,188,410
OTHER APIARY PRODUCTS	2017	--	--	\$2,576,000
	2016	--	--	\$2,092,000*
TOTAL	2017			\$11,198,212
	2016			\$10,280,410*

*Corrected





2017 REGISTERED ORGANIC STATISTICS

13,104 Acres • 106 Producers • 20 Handlers • 3 Processors • 1 Retailer

\$23,902,017 Total Value

Includes alfalfa, almonds, apples, berries, cherries, cut flowers, grapes, herbs, kiwi fruit, livestock, dairy, mandarins, nursery stock, olives, peaches, persimmons, prunes, rice, safflower, tomatoes, vegetables, vetch, walnuts and wild rice.

2017 VEGETABLE VALUE

2017 Total Value - \$1,601,222

2016 Total Value - \$1,524,973

**Vegetable Values reflect Certified Producer commodities such as asparagus, broccoli, corn, cucumbers, melons, onions, squash, tomatoes, strawberries, etc.*

2017 NURSERY ACREAGE & VALUE

2017 Total Acres - 163 ---\$13,877,606

2016 Total Acres - 137 --- \$11,664,000

**Nursery data includes broad leaved evergreens, coniferous evergreens, deciduous fruit, nut and shade trees, shrubs, kiwi vines, herbaceous perennials, indoor decorative plants, bulbs, rhizomes, bedding plants, and specimen trees.*

2017 HARVEST TIMBER PRODUCTION & VALUE

	YEAR	PRODUCTION (BFT)	VALUE
HARVESTED TIMBER	2017	61,485,000	\$13,529,289
	2016	43,811,000	\$8,518,497
OTHER TIMBER PRODUCTS	2017	--	\$5,427
	2016	--	\$6,507
TOTAL	2017	--	\$13,534,716
	2016	--	\$8,525,004

**Board feet is the quantity of timber cut and scaled.*

***Timber production and value data are provided by State Board of Equalization, Timber Tax Division.*



2017 LIVESTOCK & POULTRY

	YEAR	NUMBER OF HEAD	TOTAL LIVE WEIGHT (CWT)	VALUE/CWT	TOTAL
CATTLE & CALVES	2017	12,700	64,008	\$181.50	\$11,617,452
	2016	12,600	63,504	\$212.00	\$13,462,848
SHEEP	2017	1,800	2,664	\$164.50	\$438,228
	2016	1,800	2,400	\$142.00	\$340,800
MISC.	2017	--	--	--	\$688,500
	2016	--	--	--	\$675,000
TOTAL	2017				\$12,744,180
	2016	--	--	--	\$14,478,648

Misc. may include hogs, poultry, goats, etc.

2017 LIVESTOCK PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	\$ PER UNIT	TOTAL
MILK, MARKET	2017	65,411	Cwt	\$18.15	\$1,187,210
	2016	42,988	Cwt	\$16.65	\$715,750
MILK, MANUFACTURING	2017	--	Cwt	--	\$9,500
	2016	--	Cwt	--	\$9,500
TOTAL	2017	--	Cwt	--	\$1,196,710
	2016	--	Cwt	--	\$725,250



2017 SEED ACREAGE, PRODUCTION & VALUE

CROP	YEAR	ACREAGE	YIELD / ACRE	TOTAL	UNIT	VALUE	TOTAL
RICE	2017	4,700	9,800	46,060,000	lbs.	\$0.24	\$11,054,400
	2016	4,639	9,965	46,227,635	lbs.	\$0.27	\$12,481,461
MISC.	2017	792					\$1,131,768
	2016	1,537					\$2,196,373
TOTAL	2017	5,492					\$12,186,168
	2016	6,176					\$14,677,834

*Miscellaneous may include bean, carrot, cucumber, melon, onion, pumpkin, squash, sunflower, watermelon seed, etc.

2017 PHYTOSANITARY EXPORTS

In 2017, a total of 2,142 phytosanitary certificates were issued and exported to 63 countries and 10 states within the United States. Shipments included a variety of fruits, vegetables, grains, beans, lumber and plants. In addition, approximately 792 seed field acres were inspected and certified during the 2017 season.

Algeria	Argentina	Australia
Austria	Bahrain	Bosnia and Herzegovina
Brazil	Bulgaria	Cambodia
Canada	China	Costa Rica
Croatia	Czech Republic	Denmark
Egypt	France	French Polynesia
Georgia	Germany	Greece
Hong Kong	Iceland	India
Indonesia	Iraq	Israel
Italy	Japan	Jordan
Kazakhstan	Korea, Republic of	Kuwait
Latvia	Lebanon	Lithuania
Malaysia	Mexico	Morocco
Netherlands	New Zealand	Nicaragua
Norway	Pakistan	Philippines
Poland	Portugal	Samoa
Saudi Arabia	Serbia	Singapore
South Africa	Spain	Sweden
Switzerland	Taiwan	Thailand
Turkey	Ukraine	United Arab Emirates
United Kingdom	Uzbekistan	Viet Nam

2017 SUSTAINABLE AGRICULTURAL REPORT

This report summarizes the varied activities and the methods used to prevent and control the spread of exotic pests in Butte County.

The Pest Exclusion, Detection, Management, and Eradication programs serve to protect the County from an infestation of introduced pests. Through monitoring and quick response to small infestations, damaging pest populations can be controlled before they require a large-scale response.

Biological Control provides a method of sustainable pest control with a minimum impact to the environment.

PEST DETECTION

A total of 1,026 traps were placed throughout the County to detect the presence of pests. The trap total included 300 Mediterranean, Oriental and Melon Fruit Fly traps, 77 Japanese Beetles traps, 214 traps for the Gypsy Moth, 243 Glassy-winged Sharpshooter traps, 157 Asian Citrus Psyllid traps, and 35 European Grapevine Moth traps.

PEST EXCLUSION

Approximately 4,068 shipments were inspected for live exotic pests including the Glassy-winged Sharpshooter and Sudden Oak Death resulting in the issuance of 8 Notice of Rejections.

PEST MANAGEMENT

Weed Control Projects

		Control Activity	Chemical	Distribution
Skeleton Weed	<i>Chondrilla juncea</i>	Herbicide	Aminopyralid	5 sites ~ 15 acres
Knap Weed, species	<i>Centaurea species</i>	Herbicide	Aminopyralid	3 sites ~ 35 acres
Oblong Spurge	<i>Euphorbia oblongata</i>	Herbicide	Triclopyr	Paradise 1 site in Thermalito 1 site Chico
Sesbania	<i>Sebania punicea</i>	Herbicide	Triclopyr	Multiple locations in Oroville
Broom, species – In 2016 a total of 92 linear miles were treated with herbicide in Butte County				
Spanish	<i>Spartium junceum</i>	Herbicide	Triclopyr	Multiple County Locations
French	<i>Genista monspessulana</i>	Herbicide	Triclopyr	Multiple County Locations
Scotch	<i>Cytisus scoparius</i>	Herbicide	Triclopyr	Multiple County Locations
Purple Loosestrife	<i>Lythrum salicaria</i>	Bio-control	Various Agents	>500 acres in Oroville
White Horsenettle	<i>Solanum elaeagnifolium</i>	Herbicide	Triclopyr	1 site South Gridley Hwy 99
Winged Water Primrose	<i>Ludwigia decurrens</i>	Herbicide	Glyphosate	Limited locations in Richvale

Insect Control Projects

		Control Activity	Chemical	Distribution
Glassy-winged Sharpshooter	<i>Homalodisca vitripennis</i>	Insecticide	Imidacloprid	Chico, Eradicated

Butte County Weights and Measures

Happy Over Hopper Scales

Hopper scales play an important role in determining the weighing accuracy of commodities in Butte County. Annually, millions of dollars of commodity sales occur using hopper scales and the Butte County Weights & Measures Division is all too enthusiastic to test them to make sure they are correct. A hopper scale is generally a scale that has a containment vessel, the design influenced by the physical properties of the commodity being weighed. Hopper scales can weigh continuous amounts of commodities that flow into batches for packing and or bulk purposes where the product must stay within a closed compartment to prevent any product loss from occurring. For example, when weighing products like stone aggregates, rice grains, granular fertilizers or pesticides. Load cells attached to the hopper scale send the weight readings to a weight indicator, which displays the mass. The design of the hopper can vary according to the needs of the operation. The shape of the load- receiving element is generally a funnel-type that allows materials that are loaded into the hopper to discharge from the bottom of the hopper. Afterwards, the commodity is typically loaded into trucks or railway cars.

The unique design of the weighing element along with their weight capacity range makes testing hopper scales a challenging task. Hopper scales are tested in accordance with national standards and test weights are used in combination with the product material to determine scale accuracy. During the inspection, test weights are connected to the hopper load-receiving element with the use of chains, hoisted off the ground with come-a-longs and pulleys, and suspended freely. The readout display must agree with the amount of the hanging weights. With the test weights lowered back down onto the ground, product material is added into the hopper equaling the weight of the previously tested weights. This process is repeated up to three times if necessary to reach scale capacity, sometimes up to 50,000 pounds! In order to test a single hopper scale it typically takes between two to three hours if everything goes smoothly and when it does, it makes us very happy.

