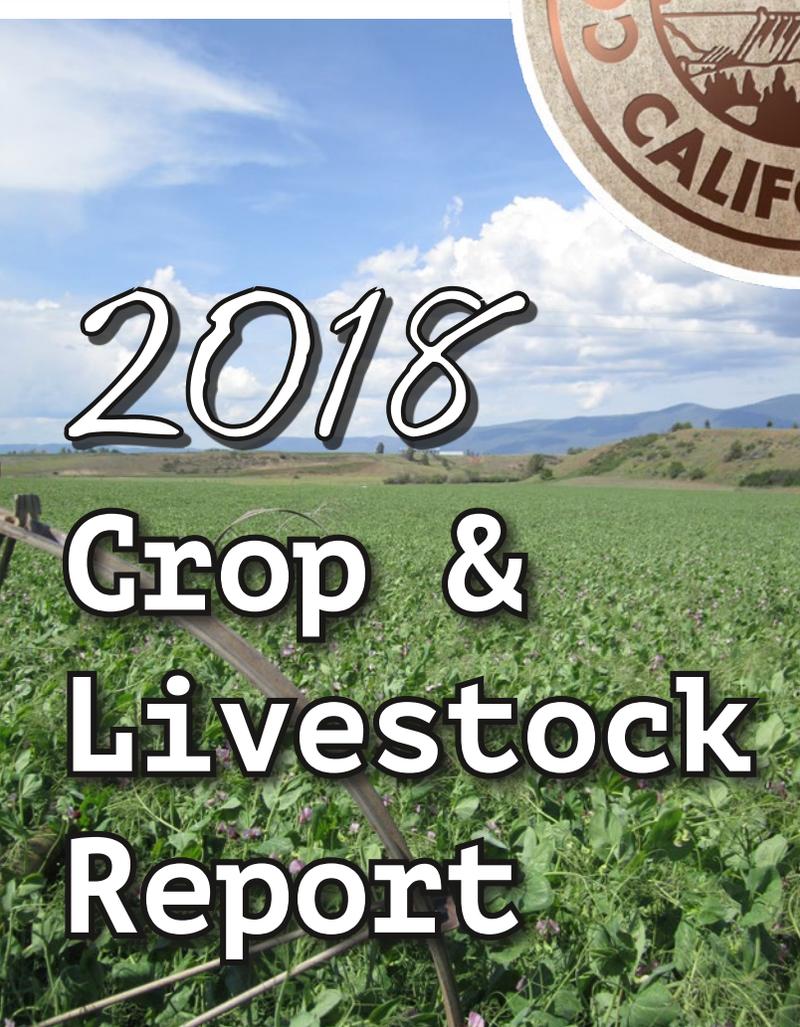
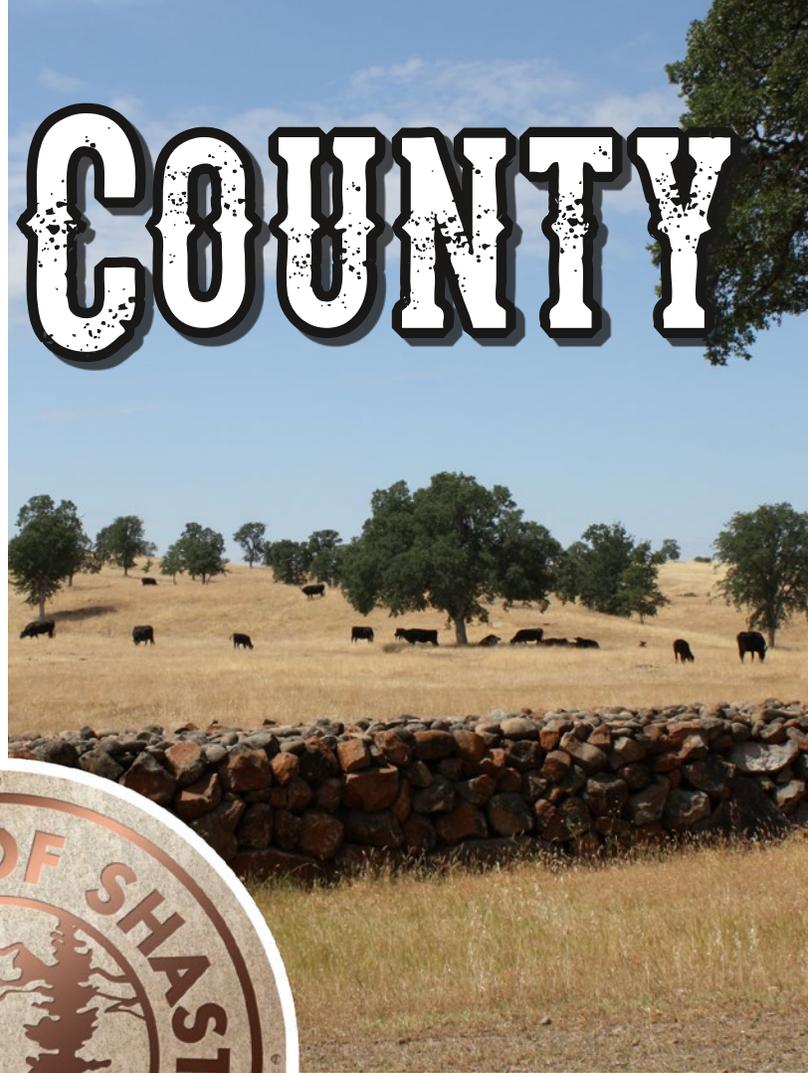


SHASTA

COUNTY



2018

Crop & Livestock Report





SHASTA AGRICULTURE



SHASTA COUNTY

DEPARTMENT OF AGRICULTURE/WEIGHTS & MEASURES

PAUL KJOS
Agricultural Commissioner
Sealer of Weights & Measures

3179 Bechelli Lane, Suite 210, Redding, CA 96002
Voice: 530-224-4949 Toll Free: 1-800-479-8009
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TO: Karen Ross, Secretary
California Department of Food and Agriculture

The Honorable Board of Supervisors, County of Shasta County
Leonard Moty, District 2, Chairman
Joe Chimenti, District 1
Mary Rickert, District 3
Steve Morgan, District 4
Les Baugh, District 5

Lawrence G. Lees, County Executive Officer,

I am pleased to submit, in accordance with Section 2279 of the California Food and Agricultural Code, Shasta County's Annual Crop and Livestock Report for 2018. This report summarizes the acreage, production, and gross values of agricultural commodities and livestock produced in Shasta County. It does not attempt to show county inventory, cost of production, or net return to growers.

The value of agricultural products produced in the county decreased slightly from the previous year to a total value of \$81,402,000. This represents a decrease of just under 4% from the previous reporting year.

The Livestock and Field Crops segments saw slight decreases while both Apiary and Nursery segments saw slight increases from the previous year. The Fruit & Nut Crop segment saw a decrease of over 33% in overall values, as a result of plummeting prices for walnuts.

The bright spot for the 2018 Crop and Livestock Report continues to be the bee production components of the Apiary industry. While values are down for both honey production and pollination services, increases in production and value of package bees, queens, and nuclei resulted in an overall segment increase. Shasta County's grass and timothy hay crops saw overall values increase in spite of decreased acreage, due to increased yields in both sectors. Depressed cattle prices throughout the year led to an overall decrease in livestock value but increased numbers sold kept the value within 3% of the 2017 value.

I would like to thank the producers, agricultural business representatives, and public agencies that cooperated in supplying the data necessary to produce this report. I would also like to give special recognition to Agricultural Investigator John Ingram for his leadership in the development of this report.

Sincerely,

PAUL KJOS
Agricultural Commissioner

Mission Statement

The Shasta County Department of Agriculture/Weights and Measures is entrusted with the mission of promoting and protecting the agricultural industry of the County and its environment, ensuring the health and safety of the County's citizens, and fostering confidence and equity in the marketplace through education and the fair and uniform enforcement of laws, regulations, and ordinances enacted by the people of the State of California and the County of Shasta.

Staff

Agricultural Commissioner/ Sealer of Weights and Measures

Paul Kjos

Deputy Agricultural Commissioner/Deputy Sealer

Carl Yingst

Agricultural and Standards Investigators

James Staggs

John Ingram

Adam Davy

Karen Ennenga

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Melissa Havens

Sandra Overling

Holly Quinby

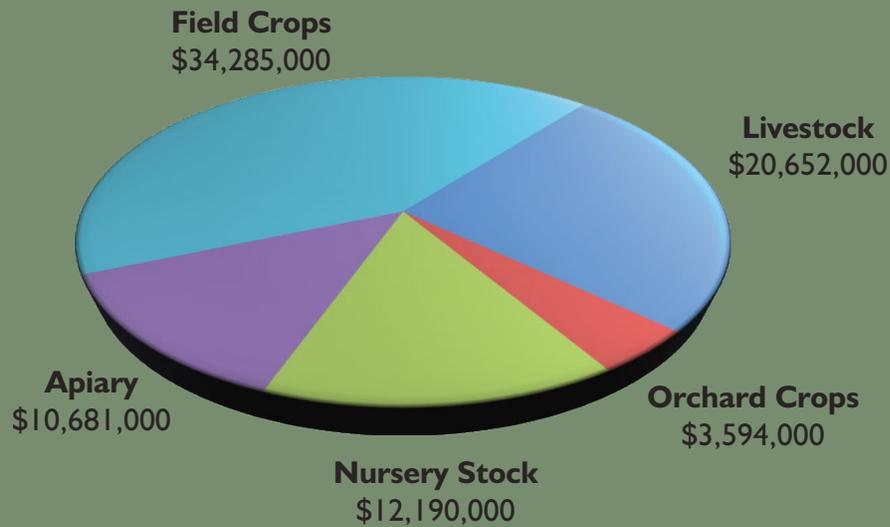
Cheryl Wieland-Foulke



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Shasta County Livestock & Crop Summary

2018 TOTAL PRODUCTION VALUE: \$81,402,000

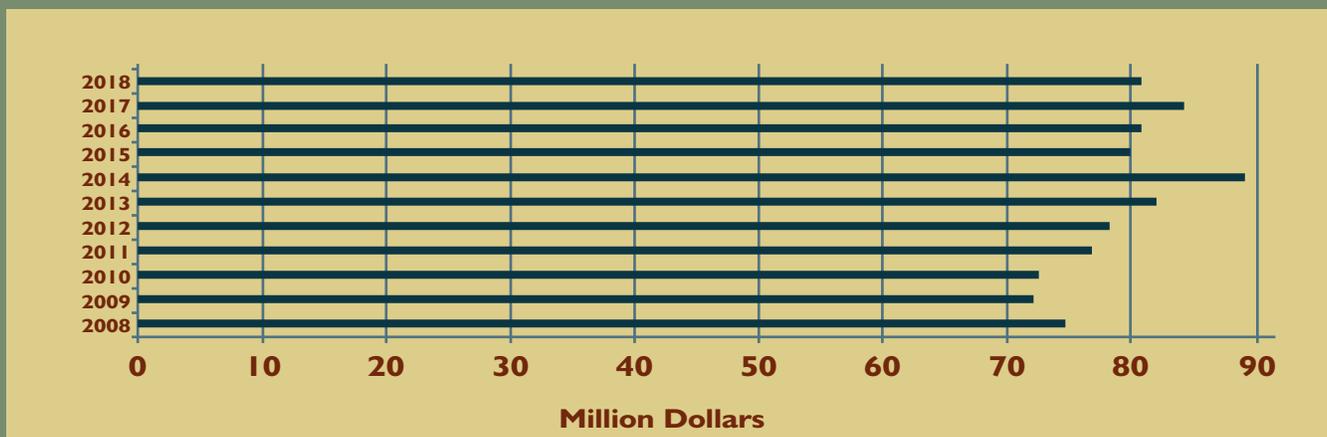


COMPARISON SUMMARY

	2018	2017	2016	2015
LIVESTOCK	\$20,652,000	\$21,927,000	\$20,976,000	\$27,884,000
APIARY	10,681,000	10,356,000	8,777,000	7,900,000
FIELD CROPS	34,285,000	34,800,000	33,023,000	33,034,000
NURSERY STOCK	12,190,000	12,181,000	14,347,000	6,579,000
FRUIT & NUT CROPS	3,594,000	5,474,000	4,010,000	5,518,000
TOTALS	81,402,000	\$84,738,000	\$81,133,000	\$80,915,000
TIMBER	\$51,315,661	\$39,645,935	\$37,004,537	\$37,454,055
OTHER FOREST PRODUCTS	\$3,878,097	\$2,251,605	\$3,073,158	\$9,681,694

Totals may not add due to rounding.

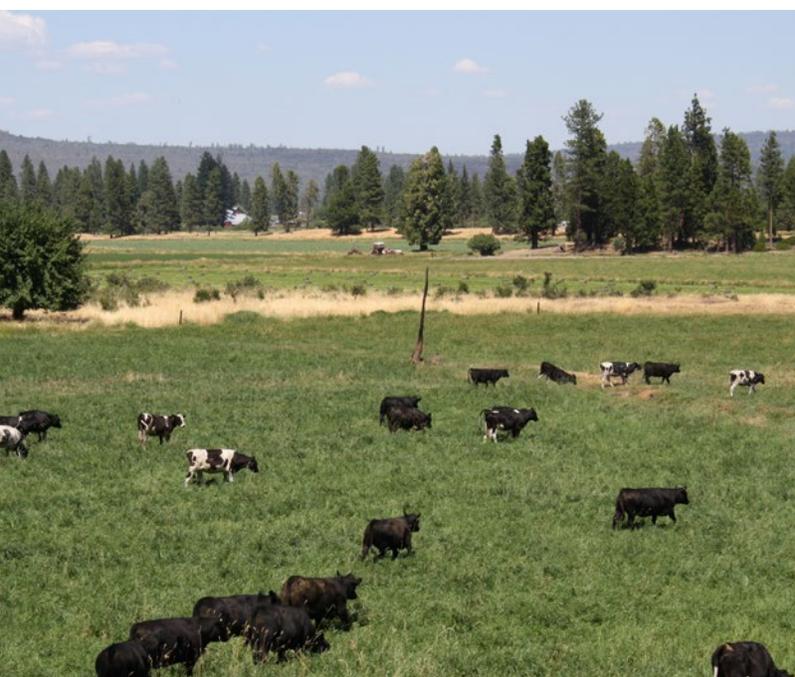
TOTAL VALUE OF AGRICULTURAL PRODUCTS 2008-2018



Livestock Production

ITEM	YEAR	NO. HEAD	TOTAL LIVEWEIGHT	UNIT	AVG/UNIT	TOTAL
CATTLE & CALVES						
Calves and Yearlings	2018	11,500	74,750	cwt	135.69	\$10,143,000
	2017	11,100	72,150	cwt	142.84	\$10,306,000
Culled Cattle	2018	2,300	28,750	cwt	52.75	1,517,000
	2017	2,500	31,250	cwt	64.98	2,031,000
Breeding Stock	2018	2,600		head	1,664.00	4,326,000
	2017	2,800		head	1,475.00	4,130,000
Stocker/Pasture Cattle	2018	8,800	11,440	cwt	128.25	1,467,000
	2017	8,800	11,440	cwt	136.50	1,562,000
TOTAL CATTLE	2018					\$17,453,000
	2017					\$18,029,000
SHEEP & LAMBS						
	2018	2,200	2,640	cwt	152.50	403,000
	2017	2,200	2,662	cwt	161.25	429,000
SWINE						
All Classes	2018	800	1,800	cwt	61.25	110,000
	2017	800	1,800	cwt	62.50	113,000
OTHER LIVESTOCK*						
	2018					2,686,000
	2017					3,356,000
TOTAL LIVESTOCK	2018					\$20,652,000
	2017					\$21,927,000

*Fish, Poultry, Goats, Livestock Products, Alpacas etc.



Forest Products

ITEM	YEAR	PRODUCTION	UNIT	TOTAL
TIMBER	2018	161,058	million bd. ft.	\$51,315,661
	2017	140,284	million bd. ft.	\$39,645,935
MISC. FOREST PRODUCTS	2018			\$3,878,097
	2017			\$2,279,077

*Cull Logs, Pulp Chips & Hardwood Logs, Wood Produced Fuel Chips, Poles & Pilings, Misc. Small Sawlogs, Misc. Conifer Species.

Fruit & Nut Crops

CROP	YEAR	HARVESTED ACRES	PER ACRE	TOTAL	UNIT	AVG/UNIT	TOTAL
WALNUTS	2018	1,300	1.4	1,820	ton	\$1,637.00	\$2,979,000
	2017	1,300	1.4	1,820	ton	\$2,594.00	\$4,721,000
MISC CROPS*	2018						112,000
	2017						271,000
WINE GRAPES Black and White	2018	170	2.6	442	ton	1,137.00	503,000
	2017	170	2.5	425	ton	1,135.00	482,000
TOTAL ORCHARD CROPS	2018						\$3,594,000
	2017						\$5,474,000

*Apples, Olives, Stone Fruit, Pistachios, Berries etc.



Field Crops

CROP	YEAR	HARVESTED ACRES	PER ACRE	TOTAL	UNIT	AVG/UNIT	TOTAL
WILD RICE	2018	5,800	1,465	8,497,000	lb	\$.66	\$5,608,000
	2017	5,800	1,526	8,850,800	lb	\$.69	\$6,107,000
MINT	2018	700	86	60,200	lb	19.64	1,182,000
	2017	700	104	72,800	lb	19.95	1,452,000
MISC CROPS*	2018						979,000
	2017						886,000
HAY							
Grass	2018	3,500	5.0	17,500	ton	245.00	4,288,000
	2017	3,800	4.1	15,580	ton	245.00	3,817,000
Alfalfa	2018	3,000	6.0	18,000	ton	203.00	3,654,000
	2017	3,500	6.5	22,750	ton	224.00	5,096,000
Other Hay	2018	11,000	2.7	29,700	ton	174.00	5,168,000
	2017	13,000	2.7	35,100	ton	124.00	4,352,000
Timothy Hay	2018	2,800	6.2	17,360	ton	297.00	5,156,000
	2017	3,200	5.5	17,600	ton	275.00	4,840,000
PASTURE							
Irrigated	2018	28,000			acre	140.00	3,920,000
	2017	28,000			acre	140.00	3,920,000
Improved	2018	100,000			acre	14.00	1,400,000
	2017	100,000			acre	14.00	1,400,000
Rangeland	2018	293,000			acre	10.00	2,930,000
	2017	293,000			acre	10.00	2,930,000
TOTAL	2018						\$34,285,000
FIELD CROPS	2017						\$34,800,000

* Grain, Seed, Vegetables, Garlic etc.

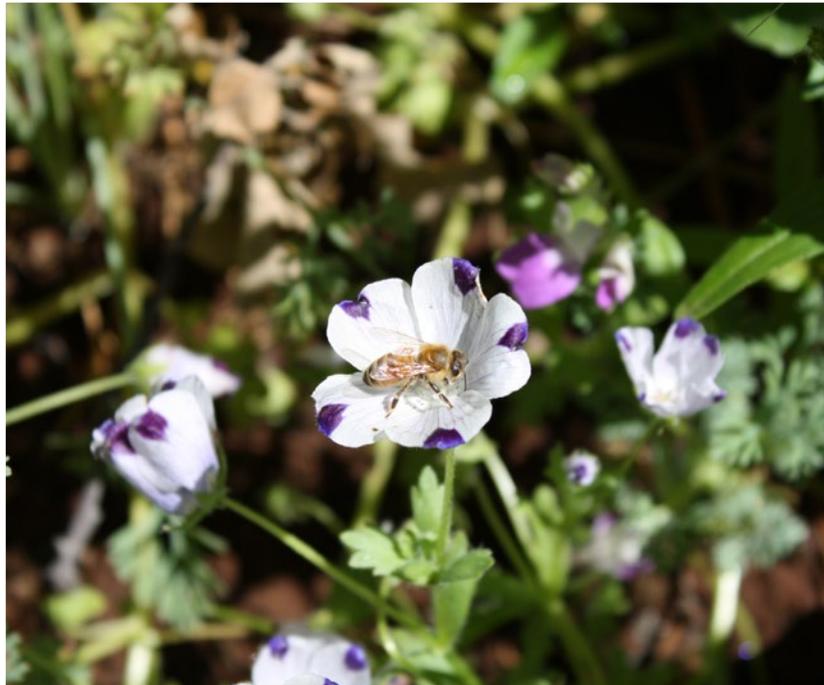




Apiary Products

ITEM	YEAR	PRODUCTION	UNIT	AVG/UNIT	TOTAL
HONEY	2018	48,283	lb	3.61	\$174,000
	2017	144,928	lb	1.96	\$285,000
QUEENS	2018	209,236	ea	25.73	5,384,000
	2017	219,845	ea	24.28	5,339,000
POLLINATION	2018	18,056	colonies	194.57	3,513,000
	2017	18,423	colonies	192.87	3,464,000
MISC APIARY PRODUCTS*	2018				1,610,000
	2017				1,268,000
TOTAL	2018				\$10,681,000
APIARY PRODUCTS	2017				\$10,356,000

* Includes Package Bees, Beeswax, Nuclei and Medicinal Bees



Shasta County's - 2018 Agricultural Export Trade Partners

International trade is a vital component of Shasta County's agricultural economy, with strawberry nursery plants and timber for poles being the majority of products exported. There were over 250 certificates issued to ship commodities produced here around the world. Shasta County exported agricultural commodities to the following twenty-nine countries in 2018.

Albania
Guatemala
Mozambique
Argentina
Haiti
Panama
Canada
India
Singapore
China

Indonesia
Spain
Cyprus
Jordan
Sri Lanka
Dominican Republic
Korea, Republic of
Tunisia
Ecuador
Kuwait

Ukraine
Finland
Lebanon
United Kingdom
Germany
Mexico
Uruguay
Greece
Morocco



Nursery Stock

CROP	YEAR	TOTAL	AVG/ UNIT	UNIT	TOTAL
NURSERY STOCK*	2018				\$11,957,000
	2017				\$11,978,000
CHRISTMAS TREES	2018	16,373	each	14.25	233,000
	2017	13,798	each	14.69	203,000
TOTAL NURSERY STOCK	2018				\$12,190,000
	2017				\$12,181,000

* Strawberry Nursery Stock, Ornamentals



Direct Marketing & Organic Farming

Direct Marketing Program

Direct marketing allows the sale of agricultural products from producers and certified producers within the state directly to consumers or to individuals, organizations, or entities that later sell or distributes the products directly to end users. This all takes place while maintaining sufficient regulatory control to ensure that the agricultural products are of acceptable quality and that the selling activities are conducted honestly and fairly.

Certified Farmers' Markets - 7

Certified Producers - 50

Certified Farmers' Markets

Tuesday Churn Creek Market

Wednesday Burney Market

Thursday Anderson Market

Saturday Redding Market

Sunday Turtle Bay Market

The Market, Grown & Made

Palo Cedro 50 Mile Market

Registered Organic Program

Organic Products

Fruits, Vegetables, Nuts, Grains, Seed Crops,
Nursery Stock, Pasture, Rangeland, Hay, Wild Rice

Number of Farms

28

Acres

8,651



Weights and Measures

REGISTERED DEVICES 2018:

Computing/Electronic	444	Hopper Scale	1	LPG Stationary Meters	67
Hanging/Spring Scale	26	Wire/Cordage/Rope	37	LPG Vehicle Meters	29
Monorail/Meat Beam	3	Taxi	20	Electric Meters	2313
Livestock	32	Retail Water Dispenser	13	Vapor Meters	2258
Vehicle Scales	52	Retail Motor Fuel	2867	Water Meters	1252
Railroad Scales	2	Wholesale Fuel	20		
Platform Scale	95	Vehicle Meters	66	Total Devices	9,597



2018 Sustainable

During the course of 2018, 8 “A” rated pests were intercepted. An “A” rated pest is one of known economic or environmental detriment. Significant pest interceptions included a first ever Oriental Fruit Fly, Scotch Thistle, Diffuse Knapweed, Skeleton Weed, Dagger Flower, Gray Pineapple Mealybug, Pacific Mealybug, and Pineapple Mealybug.

Pest Exclusion

Inspection Type	Premise Visited	Shipments Inspected	Rejections	Pest Interceptions
Post Office	137	316	0	0
Parcel Service	224	2075	19	19
Gypsy Moth	8	8	0	0
Truck	37	290	0	0

Pest Detection

In July 2018, Shasta County Department of Agriculture staff trapped an Oriental Fruit Fly in one of the routine pest detection traps deployed throughout the county. The find was in SW Redding. A second fly was trapped in August. These represent the first exotic fruit flies ever detected in the County.

With assistance of California Department of Agriculture staff, county personnel deployed a total of 429 traps to determine if a breeding population and infestation was present and the extent of any infestation. The result of six months of negative finds in the traps was that the two isolated finds were unrelated and no infestation was declared. How they arrived in the County and where they originated was never determined.

Trap Type	Number of Traps Deployed
Jackson Trap	
Mediterranean Fruit Fly	165
Melon Fruit Fly	57
Oriental Fruit Fly	57
Delta Trap	
Gypsy Moth	300
Japanese Beetle Trap	
Japanese Beetle	80
Glassy-winged Sharpshooter	300
Light Brown Apple Moth	190
European Grapevine Moth	19

Pest Eradication

Pest

Ailanthus, Canada Thistle, Chinese Wisteria, Dalmation Toadflax, Diffuse Knapweed, Marlahan Mustard, Mediterranean Sage, Musk Thistle, Oblong Spurge, Perennial Pepperweed, Scotch Broom, Scotch Thistle, Skeletonweed, Spotted Knapweed, Squarrose Knapweed, Stinkwort.

Agent/Mechanism

Integrated Vegetation Management

Scope of Program

528 sites spread over 40,934 acres throughout the County

Agriculture Report

Pest Management – Biological Control

Pest

Yellow Starthistle,
Centaurea solstitialis



Agent/Mechanism

Flower Weevil - *Larinus curtus*, Seed Weevil - *Bangasternus orientalis*, Hairy Weevil *Eustenopus villosus*, Gall Fly - *Urophora sirunaseva*, Peacock Fly – *Chaetorellia australis*, YST Rust Fungus - *Puccinia jaceae* var *solstitialis*

Bull Thistle,
Cirsium vulgare



Gall Fly - *Urophora stylata*

Spotted Knapweed,
Centaurea maculosa



Gall Fly - *Urophora quadrifasciata*, Gall Fly - *Urophora affinis*, Lesser Knapweed Weevil *Larinus minutus*, Root Moth - *Agapeta zoegana*, Root Boring Weevil – *Cyphocleonus achates*, Seedhead Weevil - *Bangasternus fausti*, Seedhead Fly - *Terellia virens*

Squarrose Knapweed,
Centaurea squarrosa



Lesser Knapweed Weevil - *Larinus minutus*, Bronze Rootborer – *Sphenoptera jugoslavica*

Purple Loosestrife,
Lythrum salicaria



Leaf Beetles - *Galerucella californiensis*, *Galerucella pusilla*, Seed Weevil - *Nanophyes marmoratus*, Root Weevil - *Hylobius transversovittatus*

Puncture Vine,
Tribulus terrestris



Seed Weevil - *Micolarinus lareynii*, Stem Weevil - *Micolarinus lypriformis*

St. Johnswort,
Hypericum perforatum



Klamath Weed Beetle - *Chrysolina* sp.

Red Gum Lerp Psyllid,
Glycaspis brimblecombei



Psyllid Parasitoid Wasp - *Psyllaephagus bliteous*



Shasta County

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