

SHASTA COUNTY

2020

*Crop &
Livestock
Report*



Zogg Fire

On the afternoon of September 27, 2020, a pine tree fell onto a power distribution line near Zogg Mine Road and Jenny Bird Lane in the Northern California community of Igo, sparking what came to be known as the Zogg fire. Fueled by tinder dry vegetation, windspeeds ranging from 30 to 40 mph, and hot, dry conditions, the fire quickly grew to 400 acres within a half hour after ignition. By the following evening, the Zogg fire had erupted into a devastating conflagration, burning across 31,237 acres and decimating nearly everything in its path. By the time the blaze was contained 16 days later, a total of 4 people had lost their lives, 204 structures were destroyed, 27 structures were damaged and 56,338 acres had burned.

Not long after the fire started, that the Shasta County Department of Agriculture (SCDA) began to receive calls from concerned beekeepers. The Igo/Ono area is a prime location for beekeepers to place hives during the summer months. Due to the speed and intensity at which the fire overtook the area, many beekeepers were unable to reach their hives in time to be saved from the fire's path. As soon as conditions within the fire zone became safe enough, the SCDA was able to coordinate with local law enforcement to allow SCDA staff behind the fire lines to survey the damage done to known apiary locations. The damage left behind by the fire was overwhelming and heartbreaking to witness, and the losses that many farmers, ranchers, beekeepers, and homeowners have suffered is devastating.

The losses within the agricultural community have been immense, including the destruction of barns, equipment, miles of fencing, the loss of tens of thousands of acres of valuable range land, and the livestock that perished in the blaze. Approximately 125 beehives were completely lost. Following the blaze, many beekeepers in the area observed a large, subsequent die off of the hives that weren't lost in the fire, primarily due to the smoke and extreme heat to which the bees were exposed. The impacts left on the community and the agricultural producers in the region will be long lasting and felt for generations to come.





SHASTA COUNTY

DEPARTMENT OF AGRICULTURE/WEIGHTS & MEASURES

Rick Gurrola
Agricultural Commissioner
Sealer of Weights & Measures

3179 Bechelli Lane, Suite 210, Redding, CA 96002
Voice: 530-224-4949
Fax: 530-224-4951

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

The Honorable Board of Supervisors, County of Shasta County

Joe Chimenti, Chair, District 1
Leonard Moty, District 2
Mary Rickert, District 3
Patrick Henry Jones, District 4
Les Baugh, District 5

Matthew P. Pontes, County Executive Officer,

It is my pleasure to present the 2020 Shasta County Crop and Livestock Report that is prepared pursuant to the provisions of Section 2279 of the California Food and Agricultural Code. This annual report summarizes the acreage, production, and gross value of agricultural commodities and livestock produced in Shasta County. All figures in the report represent gross returns only and do not reflect net income of producers.

The total gross value of Shasta County's agricultural production in 2020 was \$77,477,000, which represents a 2.6% decrease from the previous reporting year.

Commodities that increased in value in 2020 include hay, (48.3%) due to overall yield and price increases, and apiary products (5.2%), due to honey and queen production increases. Crops that decreased in value include cattle, (22.1%) due to significant price decreases, nursery stock (21.3%) due to continued production decreases, and walnuts (56.1%) due to substantial yield and price decreases.

The top three highest value agricultural crops for Shasta County in 2020 were:

1. Hay - \$24,282,000
2. Cattle - \$13,742,000
3. Apiary Products - \$10,276,000

I wish 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 Deputy Agricultural Commissioner & Sealer of Weights and Measures, John Ingram for the coordination and production of this report.

Respectfully Submitted,

Rick Gurrola
Agricultural Commissioner/Sealer of Weights & Measures

Mission Statement

The Shasta County Department of Agriculture/Weights and Measures is entrusted with the mission of promoting and protecting the County's agricultural industry while maintaining the health and beauty of our county's environment and ensuring for the health and safety of the County's citizens. The Department strives to foster confidence and equity in the marketplace through education and engagement with the community, and through the fair and uniform enforcement of laws, regulations, and ordinances that have been enacted by the people of California and the County of Shasta.

Staff

Agricultural Commissioner/ Sealer of Weights and Measures

Rick Gurrola

Assistant Agricultural Commissioner/ Sealer of Weights and Measures

Carl Yingst

Deputy Agricultural Commissioner/ Sealer of Weights & Measures

John Ingram

Agricultural and Standards Investigators

James Staggs

Adam Davy

Karen Ennenga

Michael Bowles

Jennifer Tiehm

Kevin Mautz

Agricultural and Standards Program Associate

Wendi Hart

Agricultural and Standards Program Assistant

Kathleen Parks

Administrative Staff

Lori Peisker, Agency Staff Service Analyst II

Brittany Walker, Admin Secretary II

Melissa Havens, Typist Clerk III

Seasonal Aides

Donna Rice

Sedar Kane

Ceres Phillips

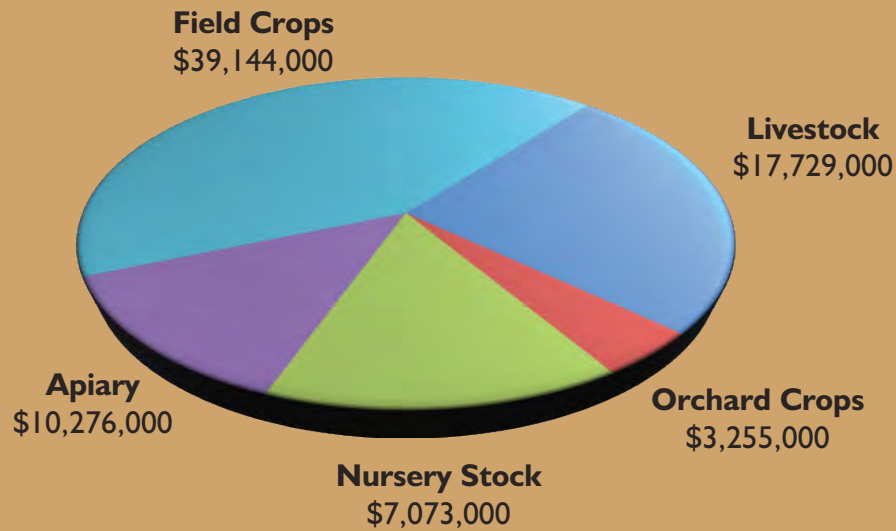
Guiseppe Trovato

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Cover Photo Taken By: John Ingram. Remnants and remaining bee hives resulting from the Zogg Fire - Ono, California.

Shasta County Livestock & Crop Summary

2020 TOTAL PRODUCTION VALUE: \$77,477,000

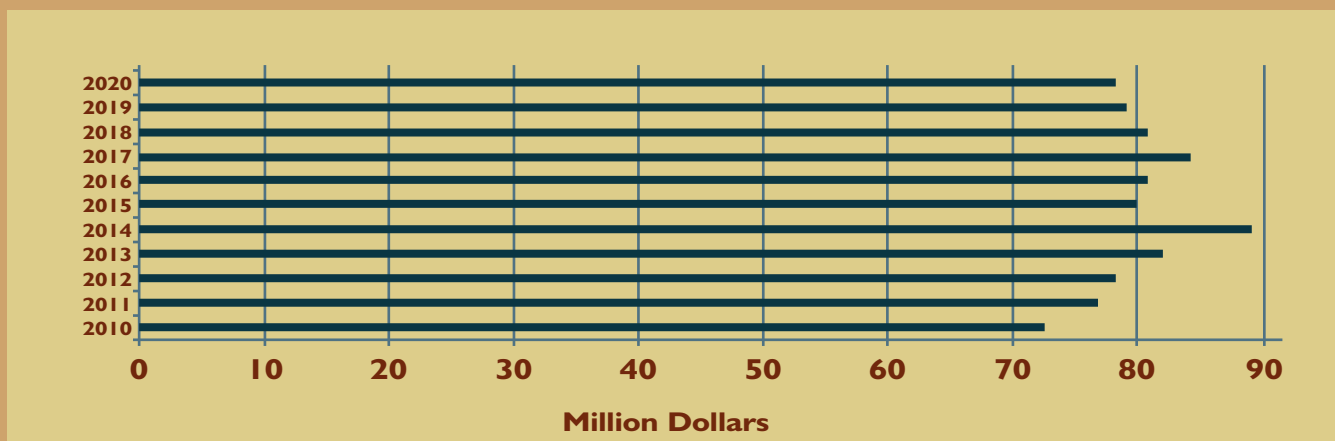


COMPARISON SUMMARY

	2020	2019	2018	2017
LIVESTOCK	\$17,729,000	\$23,367,000	\$20,652,000	\$21,927,000
APIARY	10,276,000	9,765,000	10,681,000	10,356,000
FIELD CROPS	39,144,000	30,919,000	34,285,000	34,800,000
NURSERY STOCK	7,073,000	8,989,000	12,190,000	12,181,000
FRUIT & NUT CROPS	3,255,000	6,507,000	3,594,000	5,474,000
TOTALS	\$77,477,000	\$79,547,000	\$81,402,000	\$84,738,000
TIMBER	\$37,486,268	\$39,721,204	\$51,315,661	\$39,645,935
OTHER FOREST PRODUCTS	\$2,930,016	\$2,633,996	\$3,878,097	\$2,251,605

Totals may not add due to rounding.

TOTAL VALUE OF AGRICULTURAL PRODUCTS 2010-2020



Livestock Production

ITEM	YEAR	NO. HEAD	TOTAL LIVEWEIGHT	UNIT	AVG/UNIT	TOTAL
CATTLE & CALVES						
Steers & Heifers*	2020	13,000	91,000	cwt	\$134.50	\$12,240,000
	2019	10,500	69,005	cwt	\$152.72	\$10,538,000
Cows & Bulls**	2020	2,500	31,250	cwt	48.07	1,502,000
	2019	2,000	25,000	cwt	58.23	1,456,000
Breeding Stock	2020					***
	2019	2,600		head	1,589.00	4,131,000
Stocker/Pasture Cattle	2020					***
	2019	9,000	11,700	cwt	130.00	1,521,000
TOTAL CATTLE	2020					\$13,742,000
	2019					\$17,646,000
SHEEP & LAMBS	2020	1,800	2,160	cwt	165.00	356,000
	2019	1,800	2,160	cwt	135.00	329,000
SWINE All Classes	2020	750	1,688	cwt	58.00	98,000
	2019	750	1,688	cwt	65.00	110,000
OTHER LIVESTOCK****	2020					3,533,000
	2019					5,282,000
TOTAL LIVESTOCK	2020					\$17,729,000
	2019					\$23,367,000

*Previously listed as Calves and Yearlings

**Previously listed as Cull Cattle

***Now combined in Steers & Heifers and Cows & Bulls categories

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



Forest Products

ITEM	YEAR	PRODUCTION	UNIT	TOTAL
TIMBER	2020	188,572	million bd. ft.	\$37,486,268
	2019	196,175	million bd. ft.	\$39,721,204
MISC. FOREST* PRODUCTS	2020			\$2,930,016
	2019			\$2,633,996

*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	2020	1,400	1.4	1,960	ton	\$1,341.00	\$2,628,000
	2019	1,400	2.2	3,080	ton	\$1,944.00	\$5,988,000
MISC CROPS*	2020						127,000
	2019						230,000
WINE GRAPES	2020	200	2.5	500	ton	1,000.00	500,000
	2019	170	1.7	289	ton	1,000.00	289,000
TOTAL	2020						\$3,255,000
FRUIT & NUT CROPS	2019						\$6,507,000

*Apples, Olives, Stone Fruit, Pistachios, Berries



Field Crops

CROP	YEAR	HARVESTED ACRES	PER ACRE	TOTAL	UNIT	AVG/UNIT	TOTAL
WILD RICE	2020	5,500	1,360	7,480,000	lb	\$.51	\$3,815,000
	2019	5,200	1,695	8,814,000	lb	\$.51	\$4,495,000
MINT	2020						*
	2019	600	81	48,600	lb	19.06	926,000
MISC CROPS**	2020						2,797,000
	2019						873,000
HAY							
Grass	2020	3,500	4.0	14,000	ton	205.00	2,870,000
	2019	3,500	4.6	16,100	ton	195.00	3,140,000
Alfalfa	2020	3,100	7.3	22,630	ton	232.00	5,250,000
	2019	2,800	6.0	18,000	ton	220.00	3,696,000
Other Hay	2020	12,000	4.3	51,600	ton	238.00	12,281,000
	2019	12,000	3.1	37,200	ton	170.00	6,324,000
Timothy Hay	2020	2,000	6.2	12,400	ton	313.00	3,881,000
	2019	2,000	5.7	11,400	ton	282.00	3,215,000
PASTURE							
Irrigated	2020	28,000			acre	140.00	3,920,000
	2019	28,000			acre	140.00	3,920,000
Improved	2020	100,000			acre	14.00	1,400,000
	2019	100,000			acre	14.00	1,400,000
Rangeland	2020	293,000			acre	10.00	2,930,000
	2019	293,000			acre	10.00	2,930,000
TOTAL FIELD CROPS	2020						\$39,144,000
	2019						\$30,919,000

* Mint now counted in Misc. Crops

** Grain, Seed, Vegetables, Garlic



Apiary Products

ITEM	YEAR	PRODUCTION	UNIT	AVG/UNIT	TOTAL
HONEY	2020	42,750	lb	\$2.48	\$106,000
	2019	30,455	lb	\$2.77	\$84,000
QUEENS	2020	231,878	ea	26.91	6,240,000
	2019	201,779	ea	27.95	5,640,000
POLLINATION	2020	8,878	colonies	201.59	1,790,000
	2019	12,614	colonies	195.81	2,470,000
MISC APIARY PRODUCTS*	2020				2,140,000
	2019				1,571,000
TOTAL	2020				\$10,276,000
APIARY PRODUCTS	2019				\$9,765,000

* Package Bees, Beeswax, Nuclei and Medicinal Bees



Shasta County's - 2020 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. The Department issued 286 certificates for the export of commodities produced in Shasta County to destinations around the world. Shasta County exported agricultural commodities to the following 23 countries in 2020.

Albania
Argentina
Canada
China
Colombia
Cyprus
Dominican Republic
Ecuador

Ethiopia
Haiti
Jordan
Republic of Korea
Kuwait
Lao People's Democratic Republic
Mexico
Panama

Qatar
Singapore
Saudi Arabia
Spain
Tunisia
United Kingdom
Uruguay



Nursery Stock

CROP	YEAR	TOTAL	AVG/ UNIT	UNIT	TOTAL
NURSERY STOCK*	2020				\$6,953,000
	2019				\$8,815,000
CHRISTMAS TREES	2020	7,747	each	15.49	120,000
	2019	11,116	each	15.69	174,000
TOTAL NURSERY STOCK	2020				\$7,073,000
	2019				\$8,989,000

* Strawberry Nursery Stock, Ornamentals



2020 Sustainable

In 2020, ten “A” rated pests were intercepted and identified as Lesser Snow Scale, Boxwood Scale, Mango Shield Scale, Sansevieria Scale, Oriental Scale, Black Thread Scale, Ochettellus Glaber (ant), Pacific Mealybug, Trilobe Scale, and Jackbeardsleyi Mealybug. An “A” rated pest is one of known economic or environmental detriment. Other significant pest interceptions included Scotch Thistle, Diffuse Knapweed, Skeleton Weed, Dagger Flower, Gray Pineapple Mealybug, Pacific Mealybug, Pineapple Mealybug, Citrus Mealybug, Western Flower Thrips, Cottony Cushion Scale, Longtailed Mealybug, Purple Scale, Brown Soft Scale, Citrus Leaf Miner, Citrus Mealybug, and Hawaiian Flower Thrips, .

CDFA (California Department of Food and Agriculture) pest rating system lists an “A” rated pest as one of known economic or environmental detriment and is either not known to be established in California, or it is present in a limited distribution that allows for the possibility of eradication. “B” rated pest is one of known economic or environmental detriment and if present in California, it is of limited distribution. “C” rated pest is a pest of known economic or environmental detriment and if present in California, it is usually widespread. “Q” rated pest is suspected to be of economic or environmental detriment, but the status is uncertain due to an incomplete identification or inadequate information. A temporary “A” rating is put in place pending determination of a permanent rating.

Pest Exclusion

Inspection Type	Premise Visited	Shipments Inspected	Rejections	Pest Interceptions
Post Office	120	376	1	0
Parcel Service	678	18,860	268	98
Truck	42	79	0	0

Pest Detection

Trap Type	Number of Traps Deployed
Jackson Trap	
Mediterranean Fruit Fly	182
Melon Fruit Fly	60
Oriental Fruit Fly	60
Delta Trap	
Gypsy Moth	365
Japanese Beetle Trap	
Japanese Beetle	80
Glassy-winged Sharpshooter	299
Light Brown Apple Moth	190
European Grapevine Moth	21

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 promotes compatible, desirable, stable vegetation cover through the use of appropriate, environmentally sound, and cost-effective control methods. These methods can include a combination of chemical (herbicides), mechanical (mowing), manual (hand-cutting), or other treatments.

Scope of Program

In 2020 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*

Direct Marketing & Organic Farming

Direct Marketing Program

Direct Marketing allows producers and certified producers within the state to sell their agricultural products directly to consumers, or to individuals, organizations, and entities that then sell or distribute the products directly to the end user. Direct Marketing occurs while still allowing for 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 - 34

Certified Farmers' Markets

Tuesday Churn Creek Market

Wednesday Burney Market

Thursday Anderson Market

Saturday Redding Market

Sunday Turtle Bay Market

Palo Cedro 50 Mile Market

Shingletown Farmers' Market

Registered Organic Program

Organic Products

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

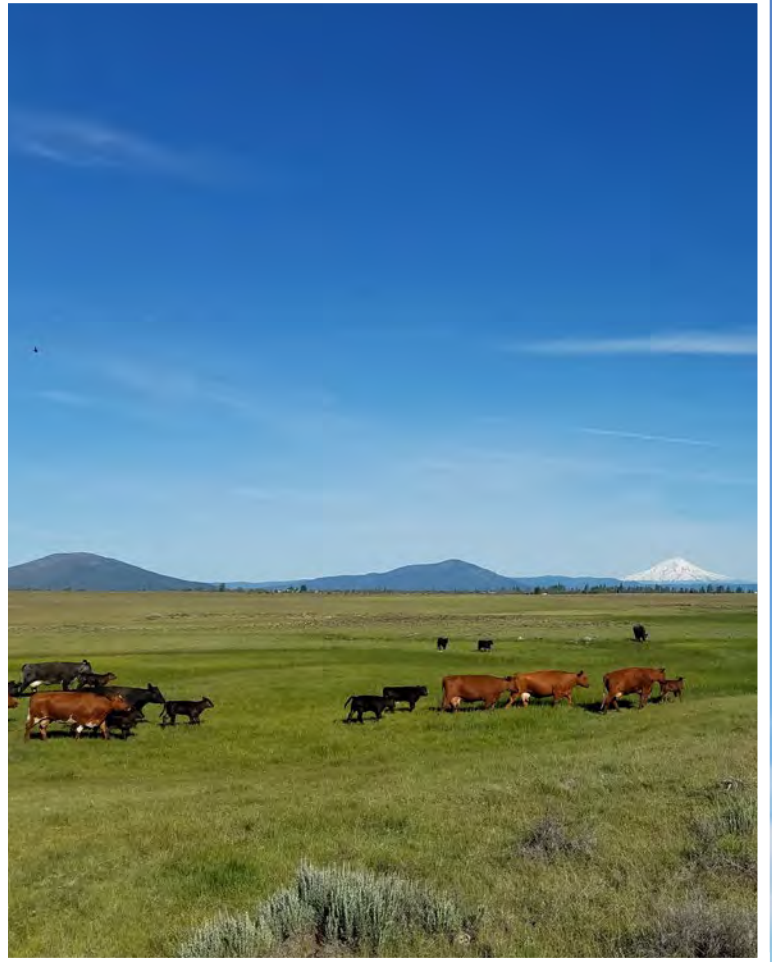
Number of Farms

32

Acres

8,384





Shasta Agriculture



Shasta County

Department of Agriculture / Weights and Measures

3179 Bechelli Lane, Suite 210
Redding, California 96002

Telephone: 530.224.4949
Fax: 530.224.4951

Email: shastaag@co.shasta.ca.us
<https://agwm.co.shasta.ca.us>