



Lassen County
2016 CROP & LIVESTOCK
REPORT

COUNTY OF LASSEN



AGRICULTURAL COMMISSIONER/SEALER

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Karen Ross, Secretary

California Department of Food & Agriculture

The Honorable Board of Supervisors of Lassen County

Jim Chapman, Chairman, *District 2*

Bob Pyle, *District 1*

Jeff Hemphill, *District 3*

Aaron Albaugh, *District 4*

Tom Hammond, *District 5*

Pursuant to Section 2272 & Section 2279 of the California Food and Agriculture Code, I am pleased to submit the 2016 Annual Crop and Livestock Report for Lassen County.

This report lists gross production and value of products and does not reflect net income to the producer. The value of agricultural products produced in Lassen County for 2016 was \$120,721,847. This is a 5% decrease in the overall value of Lassen County's agriculture. The increase in wild rice acres and saw timber production was not sufficient to offset low cattle prices and the static price of hay.

Respectfully Submitted,

A handwritten signature in black ink that reads "Craig A. Hemphill".

Craig A. Hemphill

Agriculture Commissioner/Sealer of Weights & Measures



OUR MISSION

The Agriculture Commissioner promotes Lassen County agriculture production by protecting it from injurious pests & diseases, to ensure the safety and wholesomeness of food and other products for the consumer, and to build consumer and business confidence in the market place through the maintenance of equity.

PERSONNEL & ASSOCIATES

Craig A. Hemphill, *Agriculture Commissioner/Sealer of Weights & Measures*

Tina Hilburn, *Biologist II*

Cheryl Lauritsen, *Biologist II*

Mike Stewart, *Seasonal*

Robin Skelton-Snipes, *Seasonal*

Kevin Ostmeyer, *Seasonal*

George Affonso, *USDA Wildlife Specialist*

Special thanks to all of the farmers and ranchers who provided the valuable information and photos used to compile this report.

LASSEN COUNTY'S MILLION DOLLAR CROPS

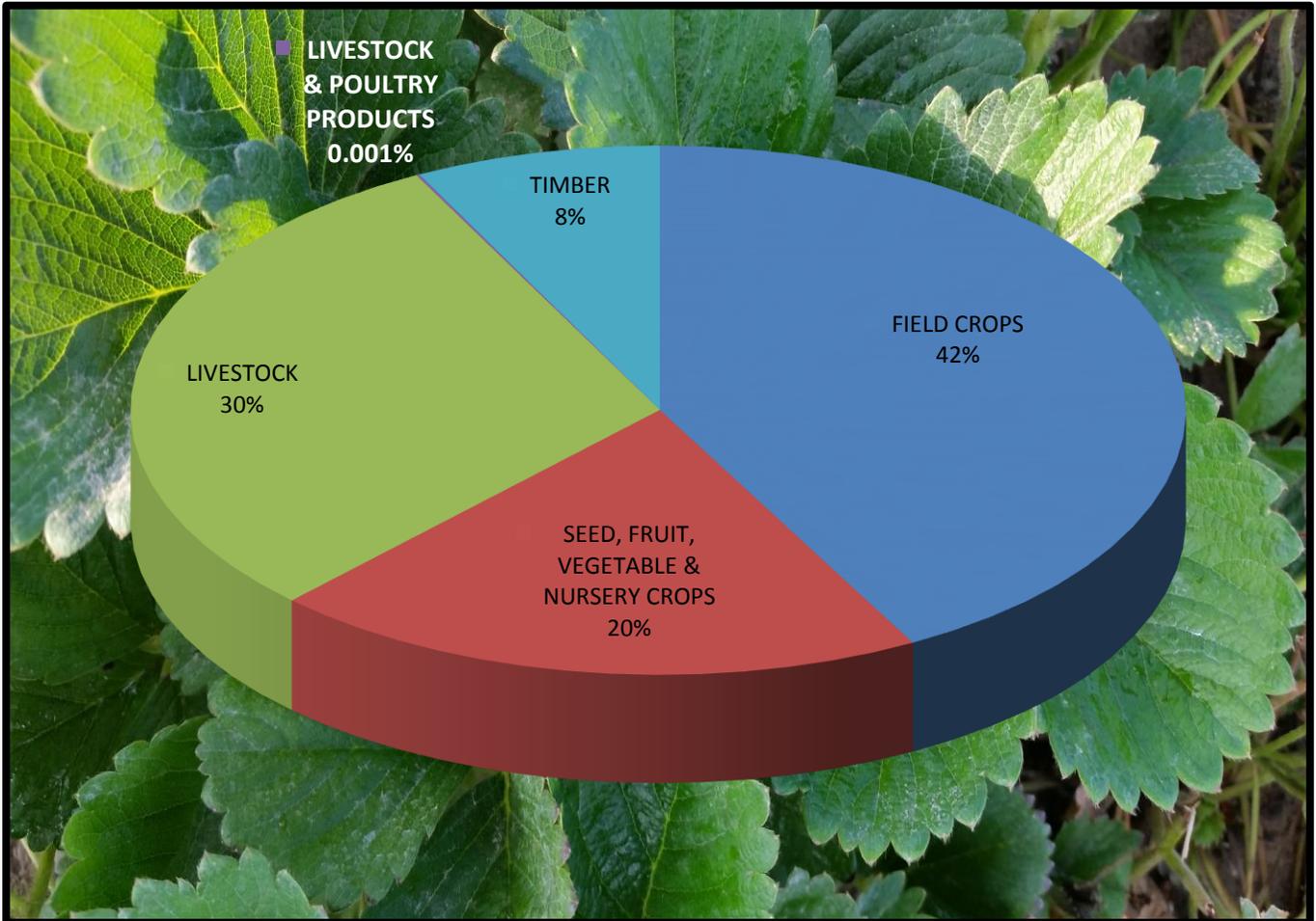
Crop	Value	2016 Ranking	2015 Ranking
All Beef Cattle	\$27,242,678	1	1
Other Hay	\$24,026,440	2	2
Misc. Seed, Fruit, Vegetable & Nursery Crops	\$23,191,490	3	4
Alfalfa Hay	\$18,964,058	4	3
Timber	\$11,063,779	5	5
Irrigated Pasture	\$5,520,000	6	6
Grain Hay	\$3,170,876	7	7
Wild Rice	\$2,790,744	8	9
Sheep and Lambs	\$1,946,760	9	8
Wheat	\$1,111,500	10	~

FIVE YEAR SUMMARY OF PRODUCTION VALUES

YEAR	FIELD CROPS	SEED, FRUIT, VEGETABLE & NURSERY	LIVESTOCK & POULTRY	LIVESTOCK PRODUCTS	TIMBER HARVEST	TOTAL
2016	54,273,848	25,982,234	29,253,438	129,000	11,083,367	\$120,721,887
2015*	60,707,113	17,293,893	38,900,335	129,000	9,735,464	\$126,765,805
2014	63,204,412	18,475,580	37,407,120	129,000	6,309,432	\$125,525,544
2013**	66,773,524	18,421,542	27,347,842	129,000	11,349,943	\$124,021,851
2012	52,082,620	11,378,673	25,024,594	129,000	12,997,465	\$101,612,352

*2015 Timber Harvest and Total adjusted to include Christmas tree values

**2013 figures corrected for accuracy



SUMMARY OF PRODUCTION VALUES

COMMODITY GROUP	2016
Field Crops	\$54,273,848
Seed, Fruit, Vegetable & Nursery	25,982,234
Livestock & Poultry	29,253,438
Livestock & Poultry Products	129,000
Timber Harvest	11,083,367
Total	\$120,721,887

TOP LASSEN COUNTY CROPS

2016	COMMODITY	VALUE	2015
1	All Hay	\$46,161,334	1
2	Livestock	\$29,253,438	2
3	Misc. Nursery Crops	\$23,191,490	4
4	Timber	\$11,083,367	3
5	Pastureland	\$6,750,974	5
6	Wild Rice	\$2,790,744	6
7	Livestock Products	\$129,000	7

10 YEAR COMPARATIVE PRODUCTION VALUES

2016	\$120,721,887
*2015	\$126,765,805
2014	\$115,835,558
**2013	\$124,550,196
2012	\$101,653,576
2011	\$101,712,856
2010	\$74,500,023
2009	\$69,091,500
2008	\$91,424,832
2007	\$65,633,696

* 2015 figures corrected to include Christmas tree values

**2013 figures corrected for accuracy

FIELD CROPS

CROP	YEAR	HARVESTED	PRODUCTION		PRODUCTION	VALUE	TOTAL
		ACRES	PER ACRE	UNIT	TOTAL	PER UNIT	VALUE
Hay, Alfalfa	2016	26,378	4.32	Ton	133,953	166.42	\$18,964,058
	2015	28,000	4.50	Ton	126,000	154.73	\$19,495,980
Hay, Grain	2016	9,775	3.23	Ton	31,573	100.43	3,170,876
	2015	10,000	2.92	Ton	25,000	85.00	2,125,000
*Hay, Other	2016	29,797	4.53	Ton	134,980	178.00	24,026,440
	2015	29,000	5.73	Ton	166,170	190.00	31,572,300
Wheat	2016	2,600	1.50	Ton	3,900	285.00	1,111,500
	2015	2,600	1.96	Ton	5,096	177.42	904,132
Pasture (irrigated)	2016	23,000	6.00	AUM	138,000	40.00	5,520,000
	2015	23,000	6.00	AUM	138,000	40.00	5,520,000
Pasture (non-irrigated)	2016	22,000	1.00	AUM	22,000	22.66	498,520
	2015	22,000	1.00	AUM	22,000	17.00	374,000
Pasture (range)	2016	1,291,253	0.10	AUM	129,125	2.11	272,454
	2015	1,291,253	0.10	AUM	129,125	1.69	218,221
Aftermath (stubble-all)	2016	20,000	1.00	AUM	20,000	23.00	460,000
	2015	20,000	1.00	AUM	20,000	25.00	500,000
**Miscellaneous	2016						250,000
	2015						
Total	2016						\$54,273,848
	2015						\$60,732,113



*Grass Alfalfa Mix, Timothy Hay, Orchard Grass Hay & Meadow Grass Hay
 ** Includes Straw, barley, oats, and corn for fodder; no figures available for 2015

SEED, FRUIT, VEGETABLE AND NURSERY CROPS

CROP	YEAR	HARVESTED	PRODUCTION	PRODUCTION	PRODUCTION	VALUE PER	TOTAL VALUE
		ACREAGE	PER ACRE	UNIT	TOTAL	UNIT	
Wild Rice	2016	1760	1705	Lbs.	3,000,800	\$.93/green lb.	\$2,790,744
	2015	1,460	1,203	Lbs.	1,756,380	\$.93/green lb.	\$1,633,433
*Misc. Crops (alfalfa seed, apples, Belgian endive, garlic seed, blueberries, coriander, mint, pumpkins, seed peas, watermelon, strawberries, peaches, carrots, misc. vegetables & ornamental flowers)	2016						23,191,490
	2015						15,660,460
Total	2016						\$25,982,234
	2015						\$17,293,893



* Crops with less than 3 producers

LIVESTOCK & POULTRY

COMMODITY	YEAR	# OF HEAD	LIVEWEIGHT	*UNIT	PER UNIT	TOTAL
Cows	2016	6,659	66,590	Cwt.	\$74.59	\$4,966,948
	2015	6,280	62,800	Cwt.	\$99.00	\$6,217,200
Calves	2016	6,055	30,275	Cwt.	131.76	3,989,034
	2015	5,995	29,975	Cwt.	210.00	6,294,750
Heifers	2016	6,927	51,953	Cwt.	136.63	7,098,338
	2015	6,535	49,013	Cwt.	195.00	9,557,535
Steers	2016	9,419	70,643	Cwt.	136.63	9,651,953
	2015	8,886	66,645	Cwt.	195.00	12,995,775
Bulls	2016	1,177	20,598	Cwt.	74.59	1,536,405
	2015	1,110	19,425	Cwt.	99.00	1,923,075
Sheep/Lambs	2016	10,000	12,000	Cwt.	162.23	1,946,760
	2015	10,000	12,000	Cwt.	154.00	1,848,000
Misc. Livestock (bison, pheasant, goats, chickens, alpaca, hogs)	2016					64,000
	2015					64,000
Total	2016					\$29,253,438
	2015					\$38,900,335

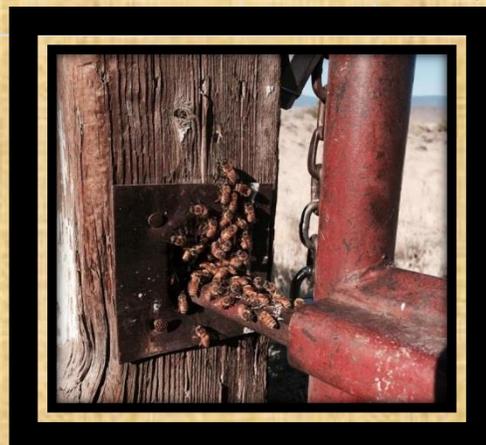


*Unit is per 100 lbs. (Cwt)



LIVESTOCK PRODUCTS

COMMODITY	YEAR	TOTAL
Includes: wool, eggs	2016	\$129,000
apiary & rabbits	2015	\$129,000
Total	2016	\$129,000
	2015	\$129,000



TIMBER HARVEST

COMMODITY	YEAR	PRODUCTION	UNIT	VALUE	TOTAL
*Saw Timber	2016	67,519	NET MBF	163.862	\$11,063,779
	2015	57,822	NET MBF	167.675	\$9,695,302
*Christmas Trees	2016	13,992	LINEAR FEET	1.400	\$19,588
	2015	30,230	LINEAR FEET	1.330	\$40,162
**Total	2016				\$11,083,367
	2015				\$9,735,464

* Figures provided by the Timber Tax Division, California State Board of Equalization

** Figures adjusted for inclusion of Christmas Tree information



Left: Harvesting Christmas trees in Lassen County.

Right: Antique Fruit Growers Supply logging truck.



2016 ORGANIC FARMING STATISTICS

Alfalfa Hay	2,169.00	Acres Certified
Grain Hay	160.00	Acres Certified
Meadow Grass Hay	300.00	Acres Certified
Hay, other	266.00	Acres Certified
Rye	151.80	Acres Certified
Endive	41.40	Acres Certified
Quinoa	300.00	Acres Certified
Corriander	100.00	Acres Certified
Peas, dried	164.20	Acres Certified
Wheat	124.00	Acres Certified
Pasture & Rangeland	40,219.91	Acres Certified
Fallow Ground	343.46	Acres Certified
Wild Rice	80.00	Acres Certified
Covercrop	51.40	Acres Certified
Cattle	700.00	Certified Organic (# of head)
Total Organic Acres:	45,171.17	Total # of Cattle: 700
	Total Value: \$2,433,249	



Top Right: Wild rice at Alturas Ranches, Madeline CA. *Bottom right:* Wild rice harvest

PEST MANAGEMENT

Pest Exclusion

Exotic Pests and/or Target Pests	Incoming plant material via UPS, Air, Truck or Mail	100 Shipments Inspected
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Pest Detection

Gypsy Moth	110 Traps in Lassen County	None Detected
Japanese Beetle	2 Traps in Lassen County	None Detected
Brown Marmorated Stink Bug	4 Traps in Lassen County	None Detected

Pest Eradicated	Control Method	2016 Net Acres	2015 Net Acres
Scotch thistle	Chemical/Mechanical	176.9	123.36
Dalmatian toadflax	Chemical/Mechanical/Biological	12.91	14.22
Spotted knapweed	Chemical/Mechanical	8.94	3.51
Diffuse knapweed	Chemical	0	0
Squarrose knapweed	Chemical	3.58	3.43
Leafy spurge	Chemical	0.13	0
Rush skeletonweed	Chemical	0.13	0
Musk thistle	Chemical	0.23	0.98
Russian knapweed	Chemical/Biological	13.63	2.33
Yellow starthistle	Chemical/Mechanical	37.7	26.91
Tall whitetop	Chemical	5.29	6.54
Mediterranean sage	Chemical	12.78	16.39
Hoary cress	Chemical	0	0.68
Puncturevine	Chemical	18.23	5
Canada thistle	Chemical	6.97	0.53
Wavyleaf thistle	Chemical	0	0.55
Dyer's woad	Chemical	12.05	7.71
Sulfur cinquefoil	Chemical	0.08	0
Yellow spine wavyleaf thistle hybrid	Chemical	0.15	0
Bull thistle	Chemical	2.84	0
Klamath weed	Chemical	0.6	0

Pest management in Lassen County consists of the use of pesticides, mechanical methods and biocontrol agents – a long term strategy used to control invasive weeds. These organisms are brought in from the plant’s native range where they feed on the invasive plant.

In 2010, *Mecinus janthinus Germar*, a stem-boring weevil, was found at a known Dalmatian toadflax site. It was an exciting find, as this weevil eliminates the seed producing shoots of the plant. The most amazing thing about this find is that the weevils had migrated to this site from an unknown area. Six years later, the weevil is still working hard to help in our fight against this A-rated pest.

Russian knapweed is a B-listed noxious weed within California, and Lassen is one of the counties with an established population. Unlike other invasive knapweeds found on the noxious weed list, Russian knapweed is a creeping perennial plant with an extensive root system. It can be problematic in various agronomic settings, from irrigated alfalfa and pasture, to rangeland. The organisms which are introduced are referred to as biological control species or “biocontrol” species. Certain biocontrol species have been established on Russian knapweed in other states, such as Montana and Colorado, where Russian knapweed populations are extensive.

The California Department of Food and Agriculture (CDFA) has released two Russian knapweed biocontrol species within the state: a gall midge (*Jaapiella ivannikovi*) and, recently, a gall wasp (*Aulacidea acroptilonica*). Both insects form galls (growths) on the stems of Russian knapweed plants reducing plant vigor and, in high populations, the ability of Russian knapweed to produce as many seeds. Talking with a biologist for CDFA, populations of the gall midge failed to establish after multiple releases in the state. However, recent releases of the gall wasp have shown initial promise for establishment.

Adult gall wasps were released in the spring of 2017 at multiple Russian knapweed infestations in Lassen and Siskiyou counties. In the fall of 2017, release sites were visited to assess if the wasps had laid eggs on the stems of the knapweed plants, and if any galls were formed. Not at all sites, but at multiple sites in both counties, galls were found on the stems of some Russian knapweed plants! Next year’s sites will be monitored to determine if the gall wasp population has become established. Hopefully, the insects survive the winter and continue feeding on the Russian knapweed patches well into the future. Stay tuned.

Biocontrol information provided by Thomas J. Getts, Weed ecology and Cropping Systems advisor, UC Cooperative Extension



Gall in Russian knapweed

Picture provided by Thomas J Getts



Stem boring weevil in Lassen County 2011

Lassen County Agriculture Commissioner picture

