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California Department of Food and Agriculture

Agricultural Commissioners' Crop Reports

Inyo-Mono Counties

2015-2018

2015 CROP AND LIVESTOCK REPORT







Counties of Inyo and Mono Agricultural Commissioner's Office 207 W South Street

Bishop, CA 93514

Counties of Inyo and Mono Agricultural Commissioner's Office 2015 Crop and Livestock Report

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The 2015 Crop and Livestock Report coincides with Inyo County's 150 year anniversary, and celebrates a long tradition of agriculture production In both Inyo and Mono Counties. Credits for the historical photos include:

Inyo County Centennial Program—cover and pages 5, 6,7, and 8. Talbot Family Collection—pages 11 and 12. Bill and Yvonne Beaver Collection—page 13.





Counties of Inyo & Mono

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Karen Ross, Secretary
California Department of Food and Agriculture

Brian Leahy, *Director*California Department of Pesticide Regulation

The Honorable Board of Supervisors, County of Inyo The Honorable Board of Supervisors, County of Mono

Jeff Griffiths, Chairman

Fred Stump, Chairman

Matt Kingsley

Rick Pucci

Tim Alpers

Stacy Corless

Mark Tillemans

Dan Totheroh

Tim Fesko

Larry Johnston

I am pleased to present the 2015 Inyo and Mono Counties' Annual Crop and Livestock Report. This report is prepared pursuant to California Food and Agriculture Code 2279, and is a statistical compilation of agriculture production in Inyo and Mono Counties. These values reflect **gross** agricultural production within the two counties, and do not represent net profit or loss.

The gross combined agricultural production values for Inyo and Mono Counties in 2015 totaled \$49,907,000, representing a decrease of nearly 15% from 2014 production values. This loss is attributable to continued drought conditions and lower pricing for some of our leading commodities. The effects of the drought on area agriculture have been, at times, exacerbated by land and water management decisions by the City of Los Angeles Department of Water and Power, which owns a large amount of private land in each county.

Drought conditions allowed for less arable land for growing alfalfa. Pricing for these commodities declined about 25% between 2014 and 2015 according to survey data. Miscellaneous field crops had sharp declines in both counties as growers chose to plant less of these crops. Feeder cattle gain continues to decline due to unavailability of pasture, although some recovery was seen for this segment in Mono County during 2015.

I would like to thank our local agricultural producers for taking time out of their busy schedules to provide the data that allows this report to be compiled.

Sincerely,

Nathan D. Reade

Agricultural Commissioner

Counties of Inyo and Mono Agricultural Commissioner's Office

The mission of the Inyo and Mono Counties Agricultural Commissioner's Office is to promote and protect the agricultural industry of the counties, protect the environment, and to ensure the health and safety of all of its citizens. The department is also responsible for fostering confidence and equity in the marketplace.

The following are the main program areas:

Human Safety and Environmental Protection

The County Agricultural Commissioner's Office protects the health and safety of all Inyo/Mono residents, its agricultural industries and its environment with a series of comprehensive regulatory programs designed to prevent the introduction of exotic pests and to ensure the safe use of pesticides. The five programs that exist to achieve these goals include:

- Pest Exclusion
- Pest Detection
- Pest Eradication
- Pest Management
- Pesticide Enforcement

Consumer Protection and Product Quality

Product quality programs are designed to ensure the production and sales of quality eggs, honey, fruits, vegetables, and nursery and seed products. Quality standards that these programs ensure include maturity, grade, size, and weight. Packaging and labeling are also examined to ensure consumer expectations are met. The six programs include:

- Fruit and Vegetable Quality Control
- Organic Food Production
- Egg Quality Control
- Certified Farmers' Markets
- Nursery Inspection
- Seed Inspection

Special Agricultural Services

The Agriculture Department also provides other mandated services, including:

- Apiary Inspection
- Crop Statistics
- Sustainable Agriculture







Administrative and Education Outreach

Staff participate in a wide range of special projects intended to benefit Inyo/Mono citizens such as the legislative process, public information, education outreach efforts, as well as joint multi-agency and inter-county cooperative activities. Continuing education efforts sponsored by the Agriculture Department for pesticide safety help to ensure that local license-holders maintain adequate training.

Eastern Sierra Weed Management Area

This division of the Agricultural Commissioner's office consists of 15 federal, state, county, and local agencies and entities. The Eastern Sierra Weed Management Area is dedicated to the eradication and control of invasive plant species in Inyo and Mono Counties through the cooperation and coordination of participating entities. The Eastern Sierra Weed Management Area participates in public outreach and education activities to ensure that people understand the threat of non-native weeds on our environment and agriculture industry.

Weights and Measures

A gallon of gasoline, a cord of firewood, a loaf of bread, or a pound of fruits or vegetables...any item purchased is sold by weight, measure, or count. We protect the public from purchasing goods that are short weight or measure, and we protect businesses from giving their products and profits away when they use devices that could be inaccurate. We also verify that prices are scanned correctly at the counter, petroleum products meet quality standards, and weighmasters provide their customers accurate weighing devices. The eight programs in this category include:

- Weight Verification
- Measurement Verification
- Petroleum
- Transaction Verification
- Electronic Meters
- Compressed Gas Meters
- Weighmaster
- Device Repairmen Regulation

See page 18 for more information on this division.

Owens Valley Mosquito Abatement Program

The purpose of this program is to provide the public with a consistent level of mosquito control that reduces the threat of disease transmission and the spread of large nuisance populations of mosquitoes. See page 19 for more information on this division.









2015

Inyo County Crop and Livestock Statistics

Inyo County General Information

County Seat: Independence

County Population: 18,546 (2010 census)

Land Area: 10,142 sq. miles

Population Density: 1.83 persons per sq. mile **Highest Elevation:** 14,505 ft. (Mount Whitney)

Lowest Elevation: -282 ft. (Badwater, D.V.N.P.)

Unincorporated Areas Incorporated Cities

Big Pine Bishop

Cartago

Land Ownership Independence

Federal: 92.0% Lone Pine

City of Los Angeles: 3.9% Olancha

State of California: 2.4% Pearsonville

Private: 1.7% Shoshone

Tecopa

22°

Inyo County, the second largest county in California is situated on the extreme eastern edge of the State and has as its boundaries, Mono County to the north, the Nevada-California State line on the east, San Bernardino and Kern Counties on the south and Tulare and Fresno Counties on the other side of the Sierras to the west. Perhaps no County in the State offers such diversified topography and geological formations for it contains the highest peak in the U.S., Et. Whitney, 14,501 ft. above sea level, from whose base the land drops away in a succession of arid and barren mountain ranges and desert plateaus housing a wealth of minerals, to Death Valley, the lowest depression, 280 ft. below sea level; the newest range of mountains on the continent, the jagged Sierras and at their foot along the western side of Owens Valley, the Alabama Hills, declared by scientists to be the oldest geologic formation.

Inyo County was created larch 22, 1866, with a land area of 10,019 square miles, of which practically 300,000 acres is under cultivation at this time. Lany of the desert valleys might be reclaimed by huge impounding dams, but this would be a gigantic undertaking for any one of them, necessitating either the services of the U. S. Reclamation Service or Department of the Interior, or almost unlimited capital from a corporation or almost unlimited capital from a corporation or private source.

- California Development Board Agricultural and Industrial Survey of Inyo County, 1917

Average Climate

Bishop:

High Low

98° 37° Death Valley: 115°



Livestock & Livestock Products

	Year	Unit	Production	Value per Unit	Total***	
O-W- 0 O-h	2015	11	7,680	\$1,243	\$9,550,000	- 1 = 0/
Cattle & Calves	2014	Head	9,640	\$1,160	\$11,175,000	▼ 15%
Ch 0 h - *	2015	11	3,080	\$154	\$474,300	— 40/
Sheep & Lambs*	2014	Head	3,430	\$145	\$496,000	▼ 4%
Fara	2015	D	4,020	\$4.50	\$18,100	A 40/
Eggs	2014	Dozen	4,300	\$4.05	\$17,400	4 %
\A/ I	2015	Lba	23,900	\$1.59	\$38,000	A 200/
Wool	2014	Lbs	21,600	\$1.35	\$29,200	▲30%
Mis salley save**	2015				\$34,000	- 60/
Miscellaneous**	2014				\$36,000	▼ 6%
Includes feeder lamb gain.			Total Value	2015	\$10,114,000	- 440/
includes beef stocker gain, goats, he Total may not calculate due to roun			Total Value	2014	\$11 754 000	▼ 14%

Inyo County is primarily a cattle and mining country and all the roney of early days was made in one or the other of these industries.

And the larger part of it still is.

It is naturally adopted to the production of livestock, possessing good range, water, meadows, protected valleys for winter pasture and a climate seemingly exceptionally adapted to the hardy and healthy development of all stock. Epidemics have from time to time swept the hords but compared with other livestock districts of California, little disease is apparent. Those coats, splendid development and high dressing percentage fare the hords of cattle and bands of sheep seem throughout Inyo Co.

⁻ California Development Board Agricultural and Industrial Survey of Inyo County, 1917

Field Crops

	Value per					
	Year	Unit	Production	Unit	Total**	
Alfalfa I Iav	2015	Tan	15,500	\$200	\$3,100,000	▼27 %
Alfalfa Hay	2014	Ton	15,700	\$270	\$4,237,000	▼ ∠1 %
Destrue Imigrated	2015	Λ	14,000	\$70	\$980,000	▼ 4%
Pasture, Irrigated	2014	Acre	14,500	\$70	\$1,017,000	▼ 4%
Docture Dengaland	2015	Aoro	1,150,000	\$1.12	\$1,288,000	▲ 5%
Pasture, Rangeland	2014	Acre	1,172,000	\$1.05	\$1,230,000	A 5%
Missellane sus*	2015		655	-	\$824,000	▼ 18%
Miscellaneous*	2014	-	807	-	\$1,010,000	▼ 1070
* Includes garlic, grain hay, sudangrass, and other hay **Total may not calculate due to rounding		ay	TatalMalas	2015	\$6,192,000	- 470/
			Total Value	2014	\$7,494,000	▼ 17%

Alfalfa in Inyo County is the backbone of the agricultural and also of the cattle industry for the stock wintered and finished in Owens Valley are fed almost exclusively on alfalfa hay in addition to the wild meadow grasses and volunteer growth of field grains. Tith increasing interest and growing importance of the dairying industry, alfalfa becomes even more necessary to the farmer in this section. There were about 32,000 acres of standing alfalfa in 1916 and the following year saw a small increase, or approximately 41,000 acres. No section in Owens Valley may be specified as best suited to its production, for nearly every ranch in the Valley has its alfalfa patch.

- California Development Board Agricultural and Industrial Survey of Inyo County, 1917

Nursery Products

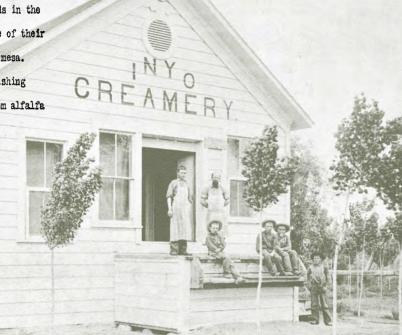
		Value per			De	
	Year	Unit	Production	Unit	Total	<i>Ø</i>
Niverson / Charlet	2015	A	121	-	\$1,620,000	— 00/
Nursery Stock*	2014	Acre	175	-	\$1,771,000	▼ 9%
* Includes cacti and succulents, palms,	and turf.		Total Malus	2015	\$1,620,000	— 00/
			Total Value	2014	\$1,771,000	▼ 9%

Apiary Production

	Value per					
	Year	Unit	Production	Unit	Total	
Uanav	2015	l h	154,000	\$2.01	\$310,000	T 200/
Honey	2014	Lb	129,000	\$3.00	\$387,000	▼ 20%
NA:II*	2015		-	-	\$5,400	7 750/
Miscellaneous*	2014	-	-	-	\$21,600	▼ 75%
Includes beeswax and pollen.			Total Wales	2015	\$315,000	- 220/
			Total Value	2014	\$409,000	▼ 23%

One of the staple crops of the valley, and one for which it is well known, is honey. In riding from one end of the valley to the other, it is noticeable that nearly everyone has a few swarms of bees, while it is not uncommon to see fifty or 100 stands in the yard. Before the sheep became so abundant, the main source of their honey was the sage brush and various bushes growing on the mesa. The wild flowers also played a very prominent part in furnishing honey. At the present time the main supply of honey is from alfalfa and occasional patches of sweet clover.

- J.S. Cotton, Agricultural Conditions of Inyo County, California, 1905



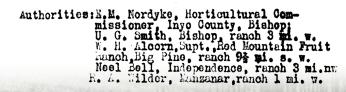
Fruit & Nut Crops

	Value per					
	Year	Unit	Production	Unit	Total	
Miscellaneous*	2015	Aoroo	32	-	\$203,000	▲ 8%
Miscellarieous	2014	Acres	32	-	\$188,000	A 0 70
* Includes almonds, apples, apricots, b figs, grapes (table), grapes (wine), nec			Total Value	2015	\$203,000	▲ 8%
pecans, persimmons, plums, pomegral berries, and walnuts.			i otai value	2014	\$188,000	A 0 70

Vegetable Crops

	Value per					
	Year	Unit	Production	Unit	Total	
Missallanasus*	2015	A ====	9	-	\$45,000	A 20/
Miscellaneous*	2014	Acres	Acres 10	-	\$43,600	▲3%
* Includes Includes artichokes, beans, bers, eggplant, garlic, herbs, leafy gree			Tatal Value	2015	\$45,000	A 20/
pers, pumpkins, radishes, squash, swe toes, and tubers.	eet corn, tomatillos	s, toma-	Total Value	2014	\$43,600	▲3%

APPLES



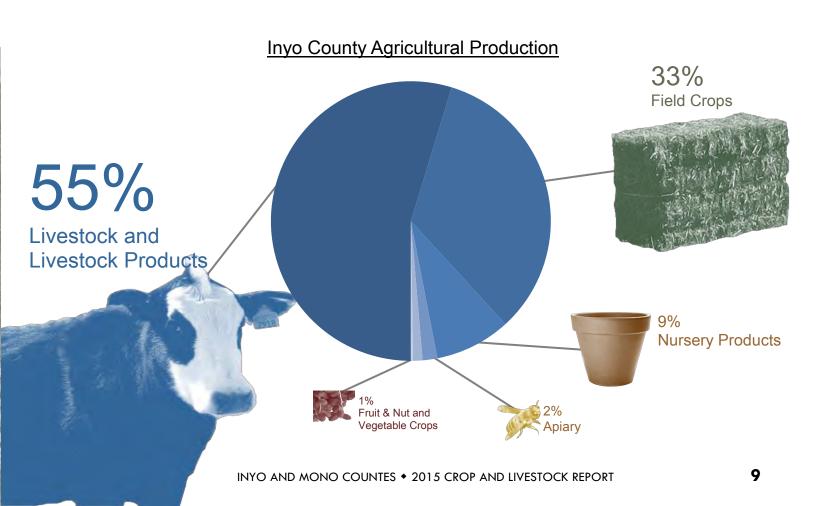
EXTENT AND ERCTIONS

Apples next to alfalfa are the most promising and important agricultural product. In 1917 there were in the County about 60,000 non-bearing and 54,000 bearing trees. There is hardly any section of the County unadapted for their production and the medals and prizes awarded to Inyo County apple in other and larger apple districts of the State as well as at expections and fairs, mark it as a section where the finest fruit may be raised. Pears are fast coming next to apples in importance and profit here.

California Development Board Agricultural and Industrial Survey of Inyo County, 1917

Inyo County Totals

	Year	Total	
	2015	\$10,114,000	— 4.40/
Livestock & Livestock Products	2014	\$11,754,000	▼14%
F: 11.0	2015	\$6,192,000	— 4.70/
Field Crops	2014	\$7,494,000	▼17%
N	2015	\$1,620,000	- 00/
Nursery Products	2014	\$1,771,000	▼ 9%
Apiary Production	2015	\$315,000	▼23%
Apiary r roduction	2014	\$409,000	▼ 25 /0
Fruit & Nut Crops	2015	\$203,000	▲ 8%
Fruit & Nut Crops	2014	\$188,000	A 0 /0
Vegetable Crops	2015	\$45,000	▲ 3%
vegetable Crops	2014	\$43,600	A 3/0
Total Value	2015	\$18,489,000	W 4 E 0 /
Total Value	2014	\$21,660,000	▼15 %



2015

Mono County Crop and Livestock Statistics

Mono County General Information

County Seat: Bridgeport

County Population: 14,202 (2010 census)

Land Area: 3,044 sq. miles

Population Density: 4.67 persons per sq. mile

Highest Elevation: 14,252 ft. (White Mountain)

Unincorporated Areas Incorporated Cities

Benton Mammoth Lakes

Bridgeport

Chalfant Valley

Coleville <u>Land Ownership</u>

Hammil Valley Federal: 84.7%

June LakeCity of Los Angeles:3.2%Lee ViningState of California:3.6%

Topaz Private: 6.5%

Tom's Place

Walker

Average Climate

High Low
Bridgeport: 81° 8°
Hammil Valley: 98° 22°

The <u>foleville-Topaz</u> area, known as Antelope Valley, is located at an elevation of 5,000 feet. It is used by some ranchers as a winter grazing area and ranch head-quarters. Other ranchers who have access to lower elevation lands use it as a summer grazing area.

Meadow hay and alfalfa is raised here. The soils are sandy and gravelly. The meadows sit on a relatively high water table in some locations. Irrigation water comes from the West Walker River and its tributaries.

Bridgeport and Long Valley areas, located at 6,000 feet and above, are irrigated mountain meadows that are used for summer and fall grazing. The soils there are sandy loam to gravelly sand. They sit on relatively high water tables.

The Hammil Valley, an extension to the north of the Owens Valley, is a desert area at approximately 5,000 feet elevation. Alfalfa is grown. Cattle can be grazed here on pastures and desert brush through the winter. Like the Owens Valley, the soils are deep on the floor of the valley and become shallow and gravelly as they extend up the slopes. They range from sand on the slopes to loam on the floor of the valley. Irrigation water comes from wells and streams flowing out of the White Mountains.

The <u>Oasis</u> area is located at the extreme southeastern tip of Mono County on the east side of the White Mountains in Fish Lake Valley. Alfalfa is raised. The elevation is approximately 5,000 feet. The soils are similar in physical character to those in the Hammil Valley.

^{- &}quot;Agriculture in Inyo & Mono Counties", P. Dean Smith, Farm Advisor, 1972

Livestock & Livestock Products

	Year	Unit	Production	Value per Unit	Total***	CALIFO
Cattle 9 Calves	2015	Head	8,200	\$1,243	\$10,193,000	70/
Cattle & Calves	2014	Heau	9,400	\$1,167	\$10,971,000	▼ 7%
Chaan 9 Lamba*	2015	Lload	13,900	\$154	\$2,141,000	A 2%
Sheep & Lambs*	2014	Head	14,455	\$145	\$2,096,000	2 70
Weel	2015	1.1	107,800	\$1.59	\$171,000	▲39%
Wool	2014	Lbs	91,400	\$1.35	\$123,000	A 39 70
Missellaneous**	2015				\$1,425,000	▲ 12%
Miscellaneous**	2014				\$1,276,000	A 1270
hincludes feeder lamb gain. **includes beef stocker gain, goats, hogs, and poultry. ***Total may not calculate due to rounding			Total Value	2015	\$13,930,000	T 40/
			Total Value	2014	\$14,466,000	▼ 4%

LIVE STOCK AND GRAZING

No dollars and cents figures are at hand that will give a correct estimate of the importance of stockraising in Mono County, but the vast herds of cattle and thousands of sheep that range the rich mountain and valley pastures each year indicate this industry as a significant factor in the total commercial wealth of the county. Beef cattle are raised in large numbers, while those bred for stock run far up into the thousands. The animals fatten rapidly, grow to good size, and are very healthy, disease being little known. Cattle sell readily at good prices.

Few thoroughbred horses are raised, but large numbers of standard and common are bred each year and find a ready market.

Mono County ranges about 200,000 sheep each year, 35,000 of which belong in the county, the balance being brought in from surrounding counties and the State of Nevada. Sheep are shorn once a year, averaging eight pounds of wood to a sheep. They are a large, healthy stock, disease among them being practically unknown. The wood and mutton command the highest prices in the market.

Both mountains and valleys supply excellent grazing ground during the summer, there being over twenty different varieties of brush and fattening grasses for them to feed on. An abundance of pasturage is always assured, the snows on the higher mountains at the sources of the streams used for irrigation not melting until quite late in the season. In some of the mountains the snow is perpetual.

In winter very little feeding is necessary, and in the milder years stock pasture all winter.

Formerly stock grazing used to be carried on in the county on a much larger scale, the county deriving much revenue from this source. Some years ago, however, the government established a forest reserve throughout considerable of the mountain district, and, as a result, only a limited number of sheep are allowed grazing privileges.

- "Mono County California: The Land of Promise for the Man of Industry, F.W. McIntosh, 1908

Field Crops

	Value per					
	Year	Unit	Production	Unit	Total**	
Alfalfa I Ia.	2015	Taia	50,600	\$200	\$10,120,000	▼ 27%
Alfalfa Hay	2014	Ton	52,650	\$265	\$13,952,000	V 21 %
Destrue Indested	2015	۸۵۳۵	43,000	\$70	\$3,010,000	▼ 1%
Pasture, Irrigated	2014	Acre	43,600	\$70	\$3,049,000	▼ 170
Desture Dengaland	2015	۸۵۳۵	1,055,000	\$1.35	\$1,424,000	1 %
Pasture, Rangeland	2014	Acre	1,060,000	\$1.33	\$1,410,000	A 170
Missallanasus*	2015		2,600	-	\$2,685,000	2 200/
Miscellaneous*	2014	-	3,220	-	\$3,938,000	▼32%
Includes garlic, grain hay, sudangrass, and other hay *Total may not calculate due to rounding			Total Wales	2015	\$17,239,000	T 220/
otal may not calculate due to found	''9		Total Value	2014	\$22,349,000	▼ 23%

Droughts are unknown, the perpetual snows of the higher mountains insuring an abundance of water even in the most unfavorable years.

The lands lying contiguous to the streams are very rich, while the sagebrush lands, when put under cultivation, are found to be wonderfully productive. With the aid of irrigation the area of tillable lands has been vastly increased, and there are yet thousands of acres waiting to be reclaimed. The land yields generously wherever soil and water are united through irrigation, and it may be said without fear of contradiction that Mono County is capable of producing as great and as choice a variety of products as any other section of its size.

To specific and as choice a variety of products as any other section of its size.

- Mono County California. The Land of Promise for the Man of Industry, F.W. Molinosh, 1908

INYO AND MONO COUNTES • 2015 CROP AND LIVESTOCK REPORT



Fruit & Nut Crops

	Value per					
	Year	Unit	Production	Unit	Total	
Missallanasus*	2015	A	18	-	\$38,800	T 100/
Miscellaneous*	2014	Acres	Acres 18	-	\$44,100	▼12 %
* Includes grapes (wine), pome fruit, ar	nd stone fruit.		Total Value	2015	\$38,800	T 120/
			Total Value	2014	\$44,100	▼12%

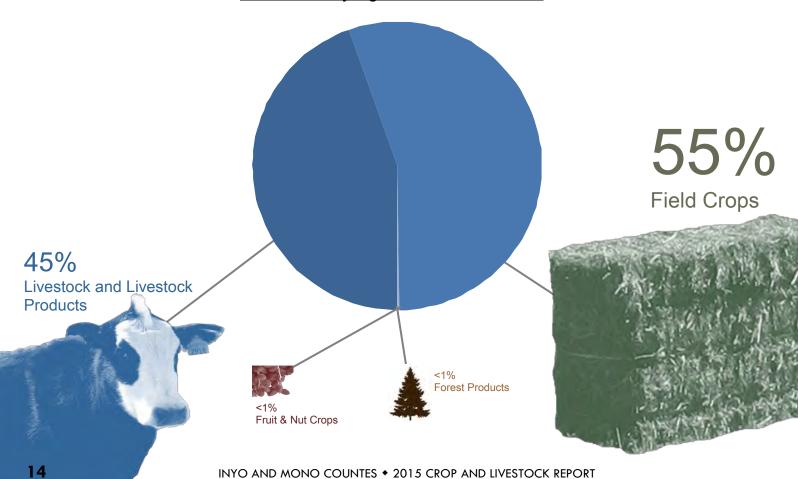
Forest Products

	Year	Total	
Timber and Firewood	2015	\$34,400	▼ 61%
Timber and Firewood	2014	\$87,400	▼ 0 1%
Total Valu	2015	\$34,400	T C10/
Total Valu	2014	\$87,400	▼ 61%

Mono County Totals

	Year	Total	
	2015	\$13,930,000	– 40/
Livestock & Livestock Products	2014	\$14,466,000	▼ 4%
	2015	\$17,239,000	— 000/
Field Crops	2014	\$22,349,000	▼ 23%
Fruit & Nut Crops	2015	\$38,800	▼12%
Truit & Nut Grops	2014	\$44,100	▼ 12 /0
Forest Products	2015	\$34,400	▼ 61%
r orest r roducts	2014	\$87,400	▼ 0 1 70
Total Value	2015	\$31,242,000	V 450/
Total Value	2014	\$36,947,000	▼15%

Mono County Agricultural Production





Inyo/Mono Combined Five Year Comparison

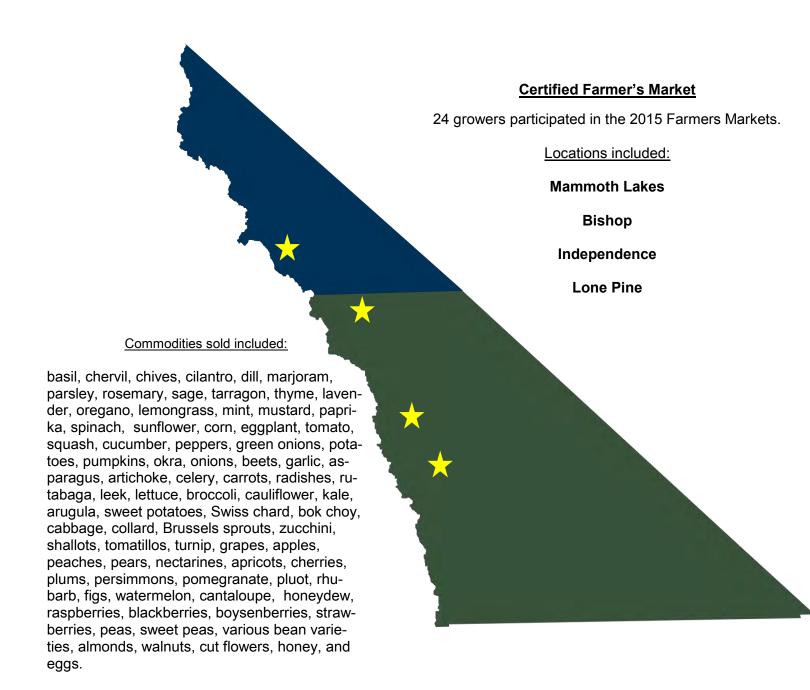


	2011	2012	2013	2014	2015
Inyo County Totals	\$26,270,000	\$25,693,000	\$25,648,000	\$21,659,000	\$18,489,000
Mono County Totals	\$53,143,000	\$51,588,000	\$48,503,000	\$36,947,000	\$31,242,000
Combined Totals	\$79,413,000	\$77,281,000	\$74,151,000	\$58,606,000	\$49,725,000

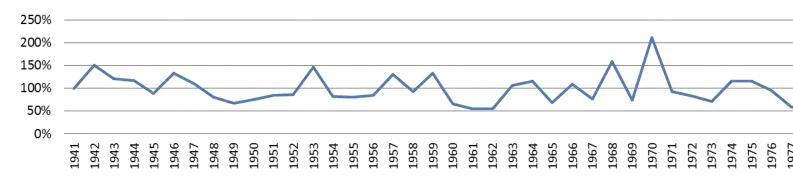
				C	ALIFORM	(IA.					
			LIVE STOC	K ON FARMS	JUNE 1, 1880				DA	IRY PRODUCTS.	51 K
Counties.	Horses.	Mules and asses.	Working oxen.	Milch cows.	Other cattle.	Sheep, exclusive of spring lambs.	Swine.	Wool, spring slip of 1880.	Milk sold, or sent to butter and cheese factories in 1879.	Butter made on farms in 1879.	Cheese made on farms in 1879.
The State	Number. 237, 710	Number. 28, 343	Number. 2, 288	Number. 210, 078	Number. 451, 941	Number. 4, 152, 349	Number. 603, 550	Pounds. 16, 798, 036	Gallons. 12, 353, 178	Pounds. 14, 084, 405	Pounds. 2, 566, 61
Alameda Alpine 4 mador Bufte Jalaveras	8, 134 226 2, 763 6, 357 1, 756	488 3 201 1, 628 82	11 43 51 38	5, 413 319 2, 248 2, 715 2, 049	6, 233 502 4, 630 8, 060 3, 523	27, 284 26 25, 008 86, 266 52, 075	7, 846 192 6, 775 15, 750 3, 458	205, 955 90 64, 808 323, 483 161, 351	7, 300 29, 928 6, 530	250, 703 32, 875 57, 412 62, 325 38, 215	5, 45 10 2, 82 29 2, 55
Colusa Contra Costa Del Norte El Dorado Fresno		4, 098 549 58 100 775	15 14 10 127 64	2, 323 4, 270 2, 189 3, 441 2, 540	3, 840 4, 746 1, 686 6, 929 42, 908	168, 528 7, 629 1, 453 18, 000 383, 243	28, 570 9, 471 1, 302 3, 954 26, 118	661, 782 27, 293 6, 462 73, 233 1, 477, 000	2, 477 607 2, 150 8, 715 8, 270	54, 585 197, 899 248, 950 192, 535 68, 754	2, 60 32, 30 57, 30 28, 65 1, 26
Humboldt	5 028	609 246 661 154 196	198 63 9 62	10, 489 1, 273 1, 576 1, 477 1, 953	17, 631 5, 997 32, 989 3, 441 19, 243	186, 038 9, 574 152, 041 49, 534 28, 649	14, 037 2, 672 18, 698 8, 691 1, 830	647, 492 35, 382 666, 427 185, 418 92, 748	65, 608 510 16, 580 3, 251 1, 118	993, 258 44, 395 48, 138 102, 831 154, 287	14, 13 2, 17 25 2, 50 14, 30
Los Angeles Marin Mariposa Mendocino Merced	8, 654 2, 630 1, 016 4, 651 3, 601	802 68 126 512 1,090	4 89 45 119 3	4, 965 24, 698 631 4, 470 2, 184	7, 061 7, 662 2, 727 8, 664 20, 504	330, 350 373 31, 265 295, 869 167, 749	33, 639 10, 252 8, 036 14, 692 12, 962	1, 499, 895 2, 080 163, 896 990, 264 631, 725	211, 850 3, 170, 524 500 4, 628 395	360, 731 2, 507, 888 8, 180 278, 493 61, 496	6, 10 65, 10 1, 78 3, 04
Modoc Mono Monterey Napa Nevada	* 00#	412 43 252 553 48	116 129 1	2, 364 669 5, 600 4, 093 1, 797	16, 884 2, 899 19, 149 5, 489 3, 238	23, 372 69 126, 644 46, 202 2, 791	3, 632 272 20, 261 10, 624 3, 195	71, 378 350 523, 612 157, 085 8, 002	500 4, 830 47, 945 37, 390	92, 610 32, 225 557, 516 181, 833 63, 957	3, 6 119, 0 62, 2 8
Placer. Plumas Sacramento San Benito San Bernardino	2, 453 1, 918 8, 525	184 99 277 183 129	74 72 1 87 57	1, 857 3, 584 7, 434 2, 712 2, 101	2, 751 5, 932 8, 982 7, 552 5, 361	58, 805 6, 517 117, 031 81, 938 48, 538	5, 893 1, 319 11, 100 7, 971 5, 019	233, 901 23, 608 509, 834 323, 285 250, 338	5, 065 3, 020 1, 244, 468 1, 550 50, 522	72, 017 398, 301 539, 339 120, 410 147, 980	5 8, 1 182, 0 173, 3 9, 3
San Diego San Francisco San Joaquin San Luis Obispo San Mateo	4, 784 800 13, 008 5, 484 4, 475	1, 706 191	25 4 12	3, 662 4, 213 3, 731 13, 177 6, 691	10, 124 439 12, 711 22, 677 7, 158	148, 252 182, 597 143, 107 629	7, 602 8, 136 18, 859 17, 981 5, 384	811, 308 446, 960 643, 853 2, 819	16, 823 5, 447, 578 105, 281 17, 400 740, 049	72, 092 13, 916 271, 084 1, 148, 028 285, 031	22, 9 198, 8 288, 2
Santa Barbara Santa Clara Santa Cruz Shasta Sierra	4, 399 9, 763 2, 625	233 90 148	15 35 8 90 92	3, 445 1, 963	5, 528 12, 054 1, 987 7, 299 2, 471	132, 923 19, 837 610 37, 685 1, 151	15, 857 16, 153 4, 265 12, 109 685	692, 415 73, 024 3, 640 88, 142 3, 625	9, 592 295, 885 42, 882 50 1, 120	194, 969 450, 370 350, 960 71, 417 171, 805	99, 6 738, 4 102, 5 1
Siskiyou Solano Sonoma Stanislaus Sutter		1, 391 393 2, 063	125	4, 075 18, 336 2, 174	23, 677 6, 763 12, 176 3, 886 2, 298	31, 841 72, 289 156, 554 113, 939 44, 484	6, 601 17, 429 24, 337 12, 788 14, 969	135, 164 290, 996 664, 721 487, 516 152, 367	3, 130 7, 998 162, 016 18, 775 1, 924	233, 043 244, 299 1, 895, 523 62, 240 77, 382	12, 4 19, 2 217, 8 4, 8 7, 6
Tehama Trinity Tulare Tuohimne Ventura	5, 147 875 6, 960 2, 244 3, 579	288	14 22 48	608 3, 773	7, 016 2, 336 7, 090 6, 531 2, 490	121, 963 24, 150 126, 176 17, 983 114, 013	18, 404 1, 064 36, 287 6, 446 25, 498	484, 763 80, 115 460, 080 58, 535 728, 932	10, 950 12, 830 8, 035 290	30, 635 6, 750 133, 482 77, 004 60, 978	4, 8 8, 3 1, 2 18, 2
Yolo	7, 747 4, 012	1, 681		3, 315	3, 458 4, 559	67, 461 61, 844	24, 353 10, 112	276, 721 194, 163	164, 520 33, 330	225, 620 42, 039	22, 9



Direct Marketing



Eastern Sierra Runoff Chart



Sustainable Agriculture and Outreach

Invasive Plant Targets			
Pest	Agent/Mechanism	Number of Sites	Gross Acres
Puncturevine	Biological Control	14 sites	~
Dalmatian Toadflax	Mechanical	2 sites	220
Yellow Starthistle	Mechanical	1 site	10
Russian Knapweed	Herbicide	3 sites	100
Canada Thistle	Herbicide	8 sites	400
Spotted Knapweed	Herbicide	3 sites	4
Halogeton	Mechanical	5 sites	4,400
Scotch Thistle	Herbicide	8 sites	1,311
Camelthorn	Herbicide	1 site	40
Saltcedar	Herbicide	1 site	80
Perennial Pepperweed	Herbicide	53 sites	12,000

Pest Exclusion

Exotic and/or target pests in incoming plant material via UPS, FedEx, and US Mail:

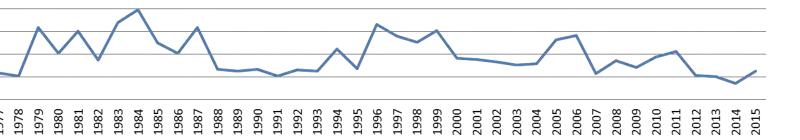
1000+ Shipments Inspected

Outreach Program

During 2015, the Inyo/Mono Counties' Agriculture Department conducted:

- 2 pesticide safety seminars with over 100 professional card holders and private applicators attending, to meet California state continuing education requirements;
- 2 educational workshops for local groups;
- 3 meetings with local Farmer's Markets;
- Participation with the Owens Lake Committee and Integrated Regional Water Management Planning Group to resolve major water issues in the Owens Valley.

The Department's inspection surveillance area, which encompasses over 10,000 square miles, provided out-reach from northern Mono County, including several California and Nevada field crop growers located in the Antelope Valley area, to the southern tip of Inyo County, including a large commercial turf grass farm in the Sandy Valley, near Las Vegas, Nevada. The Inyo/Mono Agricultural Commissioner's office is tasked with the surveillance of 50% of the California/Nevada border for pests that could endanger the agricultural industry of California.



Weights & Measures

Device Inspection Program

We are responsible for inspection, certification, or condemnation of all commercially used meters (retail motor fuel, propane/vapor, and electric), scales (aggregate and cement hoppers, vehicle, livestock, computing, platform and spring scales); and any other type of device that is used to weigh or measure to determine a value for the purpose of sales. Enforcement actions can include issuance of citations initiating prosecution of violations. Of the 1,150+ devices inspected, 23 Notice of Violations were issued. All consumer complaints received by the Inyo/Mono Counties' Weights and Measures Department resulted in further inspections throughout the year. Regular inspections protect consumers from misrepresentation and maintain fair competition between sellers.

Petroleum Program

We ensure the quality of petroleum products sold within the two Counties including; sampling of fuels, inspection and investigation of complaints. We also oversee all commercial advertisements of such products including price signs and labeling.

Package Inspections

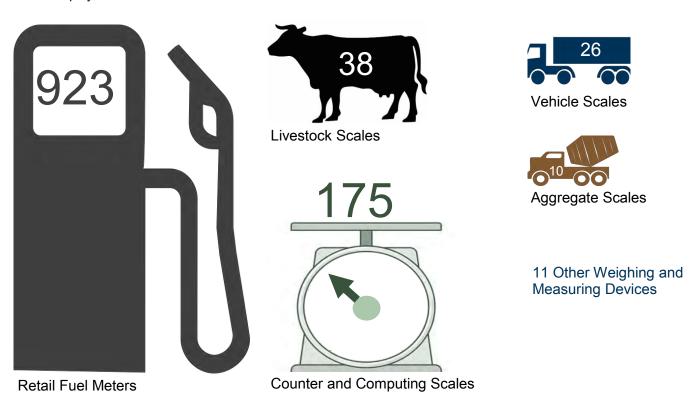
We inspect pre-packaged commodities in retail and wholesale facilities to determine proper weights, count or volume. We also verify proper sales equipment involving scanners, performing test purchases to insure accurate charges.

Weighmaster Enforcement

Weighmaster licenses are issued through our office to persons or entities that sell bulk commodities. Enforcement of weighmaster laws ensures that these transactions are accurate.

Device Repairman Regulation

Anyone who installs or repairs a weighing or measuring device in Inyo or Mono Counties must register with our office and inform our office when work takes place. This ensures that devices are not tampered with and transaction equity.



Owens Valley Mosquito Abatement

What is the mosquito control program?

The purpose of the program is to control mosquito populations throughout the Owens Valley from Olancha to Round Valley so that these pests and their associated diseases are abated adequately.



Monitoring

The Owens Valley Mosquito Abatement Program (OVMAP) conducts surveillance to determine mosquito populations using several methods. Mosquito traps are deployed in several locations throughout the Owens Valley, and are checked frequently to determine level of adult mosquito populations. Disease monitoring is component of this trapping effort, and insects caught in traps are sent to sample for the presence of certain diseases that mosquitos are known to spread. Complaints are logged and responded to, creating records that can also help with monitoring efforts. At times, staff will travel to areas where complaints are high and record landing rates of mosquitos to further gauge population density.

Biocontrol

Mosquito Fish - The mosquito fish have been one of the most effective non-insecticidal and non-chemical methods of controlling mosquitoes for over eighty years. They breed throughout the summer and new broods are produced at intervals of about six weeks, with 50 to 100 young in a single brood. They are ready to begin the work of destroying mosquito larvae at once. Mosquito fish can eat mosquito larvae as fast as the larvae hatch from eggs, as many as 100 per day. Mosquito fish live 2-3 years and can tolerate a wide range of temperatures.

Larvaciding - Routine larviciding of many hundreds of mosquito sources each week prevent immature mosquito larvae from reaching the flying and biting adult stage. This preferred first option for killing mosquitos is the cheapest and most effective method.

Adulticiding

When larvaciding does not control mosquito populations adequately, OVMAP conducts adulticiding measures to protect our local communities from irritating insect bites and the potential for spreading of disease.

Public Outreach and Cultural/Environmental Control

Outreach to residents about altering or removing conditions that best suit mosquito breeding is another effective tool in the OVMAP toolbox. These controls include proper irrigation practices, pool maintenance, and even making sure small containers or tires stored outside do not fill with stagnant water. Reducing the habitat conducive to mosquito breeding in the very areas where we live is a large step toward fewer itchy bites. Outreach efforts occur throughout the year through personal contact and social media, as well as at community events such as the Tri-County Fair.

The Evolution of California Agricultural Commissioners and Sealers

The California Agricultural Commissioners trace their origins back 135 years. The goal of the Agricultural Commissioners is to protect the State's crops from the ravages of pests both domestic and imported. Then, as now, one of the principle weapons employed was a legal device called a "quarantine", which is derived from the French word "quarante", meaning "forty". The quarantine came about as a detention device, its first use being in the year 1340 when passengers on ships bound for Venice, Italy, were detained on board ship for 40 days. This was considered a long enough period to determine whether or not those passengers carried with them the Black Plague, which was killing many people in Europe in the mid-14th century.

California's first statewide program, which was the beginning of the present Department of Food and Agriculture, began with "An Act For the Promotion of Viticultural Industries of the State" on April 5,1880. It provides for the appointment of a Board of State Viticultural Commissioners whose duties included the study of the grape root rot disease, *Phylloxera*. The Act specified that the University of California was responsible for instruction and experiments - a concept still existing today - giving the University the authority for research and the Department the regulatory functions. The Act provided for seven viticultural districts.

Until the year 1911, the duties of the State Board of Horticulture, the State Commissioner of Horticulture, county boards of horticulture commissioners and the county horticulture commissioners were limited to just a few obligations. These obligations consisted of preventing the introduction into the state of the pests from outside its boundaries, prevention of spread of insect pests and plant diseases through the media of nursery stock, fruit boxes, and other containers, and the inspection of nurseries. The years that followed would find the duties not only intensified in the same areas, but expanded into many other aspects of agriculture.

In the beginning the regulatory concern was to protect the California farmer from the depredations of exotic pests. After 1911, these duties were to be expanded to include concerns of the market place (standardization), and such cultural aids as assistance to the farmer in weed control and control of rodents and other damaging creatures. Later, they would enlarge to assure the farmer honest weights and measures, and protection from unscrupulous middlemen. Finally, the regulations would blossom into the full relationship of the farmer and the consumer.

Today, the California Department of Food and Agriculture and County Agricultural Commissioners are as busy helping the consumer as they are the farmer. They keep exotic pests away from the farmer's fields by fighting them in city gardens, where they nearly always are found first in the State. By so doing, they are affording city people as much protection as farmers, for these pests generally can wreak as much havoc in the city as in the country. They provide for, and oversee, standardization practices, thus insuring the farmers good markets for their products and insuring quality for consumers. They promote marketing of goods in a variety of ways, also assuring quality and quantity to consumers. They look after the health of livestock and plants, and the same benefits accrue to the consumer. They insist on measurement standards that also have dual blessings; and they assure the consumer and the farmer protection against the careless use of pesticides, thus affording protection to both people and the environment.



A meeting of Horticultural Commissioners, early 1900's



WEIGHTY ISSUES—The Southern California Assn. of Weights and Measures officials met in Bishop last week, with Ezio Delfino, state chief of measurement standards

(left) presiding. Officials discussed new ruling that will require all service stations to post their prices by Jan. 1, 1981.

		HORTICULTURE COMMISSIONER			
NAME		Date Appt or Elected	Date Resigned or Term Ended		
ROBINSON,	Elijah	Jan 8, 1896 (A) 0 264	100		
		Apr 9, 1897 (A) D 378			
SMITH,	A.P.		Jan 6, 1909 Resigned		
33.35		Feb 4, 1908 (A)			
WELLS,	н. н.	Jan 6, 1909 (A) P 159			
NEWMAN,	L. M.	Jan 6, 1909 (A) = 159			
STEWART,	J. J.	Jan 6, 1909 (A) F159			
BAIRD,	Richard	Apr 2, 1912 (A) = 4/3	May 12, 1913 Discharged		
BAIRD,	Ricahrd	Sept 16, 1912 (A) F463	June 11, 1913 Resigned		
NORDYKE,	E, M.	Sept 22, 1914 (A) 6 76			
NORDYKE,	E° M.	Dec 14, 1915 (A) 622	Jan 16, 1919 Resigned		
DIXON,	J. W.	Mar 18, 1918 (A) 6477			
DIXON,	J. W.	Dec 9, 1919 (A) 12 432			

Listing of early Inyo County Horticultural Commissioners



Counties of Inyo and Mono Department of Agriculture and Weights & Measures 207 W South Street Bishop, CA 93514





Counties of Inyo and Mono Agricultural Commissioner's Office 2016 Crop and Livestock Report

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Field Technician - Weed Management

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Manager / Owens Valley Mosquito Abatement Program

Chris Wickham

Mosquito Control Technicians

Bruce Mack

Robert Miller





Counties of Inyo & Mono

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Karen Ross, Secretary
California Department of Food and Agriculture

Brian Leahy, *Director*California Department of Pesticide Regulation

The Honorable Board of Supervisors, County of Inyo The Honorable Board of Supervisors, County of Mono

Mark Tillemans, Chair

Stacy Corless, Chair

Matt Kingsley

Rick Pucci

Bob Gardener

Fred Stump

Jeff Griffiths

Dan Totheroh

John Peters

Larry Johnston

I am pleased to present the 2016 Inyo and Mono Counties' Annual Crop and Livestock Report. This report is prepared pursuant to California Food and Agriculture Code 2279, and is a statistical compilation of agriculture production in Inyo and Mono Counties. These values reflect **gross** agricultural production within the two counties, and do not represent net profit or loss.

The gross combined agricultural production values for Inyo and Mono Counties in 2016 totaled \$44,155,000, representing a decrease of 11.3% from 2015 production values. Drought continued to weight on production, with cumulative losses representing a 44.4% reduction in total value for our region since the beginning of the multi-year drought period.

Cattle production remained relatively stable in 2016 as herd sizes were reduced to minimal levels due to poor forage conditions during the extended drought period. Beef pricing, however, declined for Inyo and Mono ranchers, driving production value down over 2015. Livestock value losses were tempered somewhat by a return of feeder cattle to local range.

Alfalfa and other hay production was impacted by low pricing, reducing this commodity group as well. Some Irrigated pasture production loss occurred in Mono County as a result of LADWP decisions to not irrigate a vast portion of Long Valley due to drought, and acreage associated with these lands was moved into the rangeland commodity category for 2016.

Bright spots included both sheep production value increases, as well as more thorough reporting that resulted in increases in the fruit and nut category for both counties, and the inclusion of nursery production values for Mono County.

Sincerely,

Nathan D. Reade Agricultural Commissioner

Counties of Inyo and Mono Agricultural Commissioner's Office

The mission of the Inyo and Mono Counties Agricultural Commissioner's Office is to promote and protect the agricultural industry of the counties, protect the environment, and to ensure the health and safety of all of its citizens. The department is also responsible for fostering confidence and equity in the marketplace.

The following are the main program areas:

Human Safety and Environmental Protection

The County Agricultural Commissioner's Office protects the health and safety of all Inyo/Mono residents, its agricultural industries and its environment with a series of comprehensive regulatory programs designed to prevent the introduction of exotic pests and to ensure the safe use of pesticides. The five programs that exist to achieve these goals include:

- Pest Exclusion
- Pest Detection
- Pest Eradication
- Pest Management
- Pesticide Enforcement

Consumer Protection and Product Quality

Product quality programs are designed to ensure the production and sales of quality eggs, honey, fruits, vegetables, and nursery and seed products. Quality standards that these programs ensure include maturity, grade, size, and weight. Packaging and labeling are also examined to ensure consumer expectations are met. The six programs include:

- Fruit and Vegetable Quality Control
- Organic Food Production
- Egg Quality Control
- Certified Farmers' Markets
- Nursery Inspection
- Seed Inspection

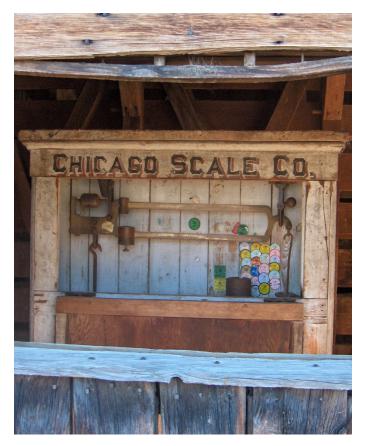
Special Agricultural Services

The Agriculture Department also provides other mandated services, including:

- Apiary Inspection
- Crop Statistics
- Sustainable Agriculture







Administrative and Education Outreach

Staff participate in a wide range of special projects intended to benefit Inyo/Mono citizens such as the legislative process, public information, education outreach efforts, as well as joint multi-agency and inter-county cooperative activities. Continuing education efforts sponsored by the Agriculture Department for pesticide safety help to ensure that local license-holders maintain adequate training.

Eastern Sierra Weed Management Area

This division of the Agricultural Commissioner's office consists of 15 federal, state, county, and local agencies and entities. The Eastern Sierra Weed Management Area is dedicated to the eradication and control of invasive plant species in Inyo and Mono Counties through the cooperation and coordination of participating entities. The Eastern Sierra Weed Management Area participates in public outreach and education activities to ensure that people understand the threat of non-native weeds on our environment and agriculture industry.

Weights and Measures

A gallon of gasoline, a cord of firewood, a loaf of bread, or a pound of fruits or vegetables...any item purchased is sold by weight, measure, or count. We protect the public from purchasing goods that are short weight or measure, and we protect businesses from giving their products and profits away when they use devices that could be inaccurate. We also verify that prices are scanned correctly at the counter, petroleum products meet quality standards, and weighmasters provide their customers accurate weighing devices. The eight programs in this category include:

- Weight Verification
- Measurement Verification
- Petroleum
- Transaction Verification
- Electronic Meters
- Compressed Gas Meters
- Weighmaster
- Device Repairmen Regulation

See page 15 for more information on this division.

Owens Valley Mosquito Abatement Program

The purpose of this program is to provide the public with a consistent level of mosquito control that reduces the threat of disease transmission and the spread of large nuisance populations of mosquitoes. See page 16 for more information on this division.











County	Seat:
County	Population:

Land Area: Population Density:

Highest Elevation: Lowest Elevation: Independence

18,546 (2010 census)

10,142 sq. miles

1.83 persons per sq. mile

14,505 ft. (Mount Whitney)

-282 ft. (Badwater, D.V.N.P.)

Average Climate

High Bishop:

Death Valley

Big Pine Cartago Independence Lone Pine

Olancha Pearsonville

Shoshone

Land Ownership

Federal: 92.0% City of Los Angeles: State of California: 2.4% Private: 1.7%

Incorporated Cities

Bishop

Livestock & Livestock Products

	Year	Unit	Production	Value per Unit	Total****	CALIFO	
Cattle & Calves	2016	Head	7,670	\$1,045	\$8,013,000	▼ 16%	
Callie & Calves	2015	пеац	7,680	\$1,243	\$9,550,000	▼ 10 70	
Chaon 9 Lamba**	2016	Head	3,815	\$164	\$625,700	▲ 26%	
Sheep & Lambs**	2015	пеац	3,670*	\$154	\$496,000*	A 20%	
Fare	2016	D	4,350	\$4.75	\$20,600	A 1 1 0 /	
Eggs	2015	Dozen	4,020	\$4.50	\$18,100	▲ 14%	
Wool	2016	Lbs	26,700	\$1.54	\$41,000	A 70/	
Wool	2015	LDS	23,900	\$1.59	\$38,000	▲ 7%	
Miccellaneoue***	2016				\$186,000	A 4470/	
Miscellaneous***	2015				\$34,000	▲ 447%	
* Adjusted figure			Total Value	2016	\$8,886,000	T 120/	
** Includes feeder lamb gain. *** includes beef stocker gain, goats, h ****Total may not calculate due to roun			Total Value	2015	\$10,136,000*	▼ 12%	

Field Crops

				Value per		
	Year	Unit	Production	Unit	Total**	
Alfalfa Hay	2016	Ton	15,100	\$180	\$2,718,000	▼ 12%
Alfalfa Hay	2015	1011	15,100	\$200	\$3,100,000	▼ 12 %
Docture Irrigated	2016	A oro	14,000	\$70	\$980,000	- 00/
Pasture, Irrigated	2015	Acre	14,000	\$70	\$980,000	= 0%
Dacture Dangeland	2016	A oro	1,150,000	\$1.12	\$1,288,000	- 00/
Pasture, Rangeland	2015	Acre	1,150,000	\$1.12	\$1,288,000	= 0%
Missellenseus*	2016		280	-	\$758,000	V 00/
Miscellaneous*	2015	-	655	-	\$824,000	▼ 8%
* Includes garlic, grain hay, sudangrass, and other hay		ay	Total Value	2016	\$5,744,000	7 0/
**Total may not calculate due to rou	nding		Total Value	2015	\$6,192,000	▼ 7%

Nursery Products

1000	Year	Unit	Production	Value per Unit	Total		
Nursory Stock*	2016	Acre	121	P. Contract	\$1,032,000	▼36%	
Nursery Stock*	2015	121		- \$1,620,00		0 70 70	
* Includes cacti and succulents, palms,	and turf.	1	Total Value	2016	\$1,032,000	▼ 36%	
			Total Value	2015	\$1,620,000	V 30%	

Apiary Production

		The same		Value per			
	Year	Unit Pro	oduction	Unit	Total		
Honov	2016		155,600	\$2.09	\$325,200	A 50/	
Honey	2015	Lb	154,000	\$2.01	\$310,000	A 5%	
Miscellaneous*	2016				\$5,600	A 4%	
Miscellarieous	2015				\$5,400	4 70	
* Includes beeswax and pollen.	1		tal Value	2016	\$330,800	A 5%	
All De la		10	tal Value	2015	\$315,000	A 5%	

Fruit & Nut Crops

	Year	Unit	Production	Value per Unit	Total	35
Miscellaneous*	2016	Aoroo	35	-	\$333,200	▲ 64%
Miscellarieous	2015	Acres	32 -		\$203,000	
* Includes almonds, apples, apricots, b figs, grapes (table), grapes (wine), nec			Total Value	2016	\$333,200	▲ 64%
pecans, persimmons, plums, pomegral berries, and walnuts.			Total Value	2015	\$203,000	▲ 04%

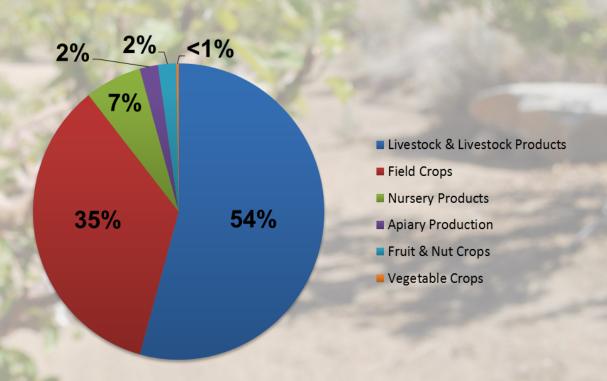
Vegetable Crops

	Year	Unit	Production	Value per Unit	Total		
Missallanaous*	2016	Aaroo	7	1900 -	\$42,000		70/
Miscellaneous*	2015	Acres	9	- \$45,		000	
* Includes Includes artichokes, beans, bers, eggplant, garlic, herbs, leafy gree			Tatal Wales	2016	\$42,000		70/
pers, pumpkins, radishes, squash, swe toes, and tubers.	eet corn, tomatillo	os, toma-	Total Value	2015	\$45,000		1%

Inyo County Totals

	Year	Total	EIFOR
	2016	\$8,886,000	- 400/
Livestock & Livestock Products	2015	\$10,136,000	▼12%
FILLS	2016	\$5,744,000	= 470/
Field Crops	2015	\$6,192,000	▼17%
Numary - Deady sta	2016	\$1,032,000	W 200/
Nursery Products	2015	\$1,620,000	▼36%
Apiary Production	2016	\$330,800	A 5%
Apary Freduction	2015	\$315,000	A 570
Fruit & Nut Crops	2016	\$333,200	▲ 64%
Truit a Nut Grops	2015	\$203,000	2 0470
Vegetable Crops	2016	\$42,000	▼ 7%
V Ogoldono Oropo	2015	\$45,000	V 170
Total Value	2016	\$16,368,000	▼12%
Total Value	2015	\$18,511,000	V 12/0

Inyo County Agricultural Production



2016

Mono County Crop and Livestock Statistics

Mono County General Information

County Seat:	Bridgeport	Average Climate		
County Population:	14,202 (2010 census)		High	Low
Land Area:	3,044 sq. miles	Bridgeport:	81°	8°
Population Density:	4.67 persons per sq. mile	Hammil Valley:	98°	22°
Highest Elevation:	14,252 ft. (White Mountain)			
Unincorporated Areas		Land Ownership		
Benton	June Lake	Federal:		84.7%
Bridgeport	Lee Vining	City of Los Angele	s:	3.2%
Chalfant Valley	Topaz	State of California:		3.6%
Coleville	Tom's Place	Private:		6.5%
Hammil Valley	Walker			

Incorporated Cities

Mammoth Lakes

Livestock & Livestock Products

	Year	Unit	Production	Value per Unit	Total***	CALIF
Cattle 9 Calves	2016	Hood	8,230	\$1,045	\$8,603,000	▼ 16%
Cattle & Calves	2015	Head	8,200	\$1,243	\$10,193,000	▼ 10 %
Sheep & Lambs*	2016	Hood	14,870	\$164	\$2,439,000	▲ 14%
Sneep & Lambs	2015	Head	13,900	\$154	\$2,141,000	A 14 %
Wool	2016	Lbs	119,300	\$1.54	\$183,700	▲ 7%
VVOOI	2015	LUS	107,800	\$1.59	\$171,000	A 1 70
Missellaneous**	2016				\$2,570,000	▲80%
Miscellaneous**	2015				\$1,425,000	A 00%
Includes feeder lamb gain. includes beef stocker gain, goats, ho	ogs, and poultry.		Total Value	2016	\$13,796,000	1 0/
**Total may not calculate due to rounding			Total Value	2015	\$13,930,000	▼ 1%

Field Crops

	Year	Unit	Production	Value per Unit	Total**	
Alfolfo Hov	2016	Ton	47,200	\$180	\$8,496,000	▼ 16%
Alfalfa Hay	2015	1011	50,600	\$200	\$10,120,000	▼ 10 %
Pasture, Irrigated	2016	Acre	26,000	\$70	\$1,820,000	▼ 40%
	2015	Acre	43,000	\$70	\$3,010,000	▼ 40%
Posturo Bangaland	2016	Acre	1,072,000	\$1.39	\$1,490,000	▲ 5%
Pasture, Rangeland	2015	Acre	1,055,000	\$1.35	\$1,424,000	A 5%
Missellaneous*	2016		1,473	-	\$2,063,000	▼ 23%
Miscellaneous*	2015	-	2,600	-	\$2,685,000	▼ 23%
* Includes garlic, grain hay, sudangrass, and other hay **Total may not calculate due to rounding			Total Value	2016	\$13,869,000	T 200/
			Total Value	2015	\$17,239,000	▼ 20%

Fruit & Nut Crops

	Value per					
	Year	Unit	Production	Unit	Total	
Missollaneous*	2016	Aoroo	18	-	\$43,300	A 120/
Miscellaneous*	2015	Acres	18	-	\$38,800	A //O
* Includes grapes (wine), pome fruit, and stone fruit.		Total Value	2016	\$43,300	A 100/	
			Total Value	2015	\$38,800	▲ 12%

Forest Products

	Year		Total	
Timber and Fire	wood	2016	\$59,000	A 720/
Timber and Fire	wood	2015	\$34,400	▲ 72%
	Total Value	2016	\$59,000	A 720/
THURSDAY AND	Total Value	2015	\$34,400	▲72%

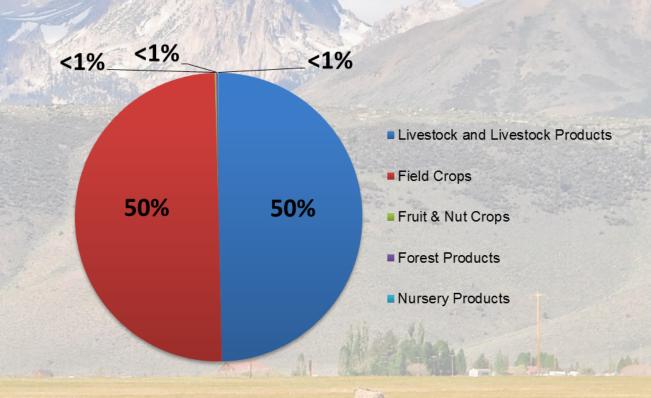
Nursery Products

	Year	Unit	Production Va	llue per Unit	Total	
Nursery Stock*	2016 2015	Acre	1	7	\$20,000 \$0	N/A
* Includes various ornamental plants			Total Value	2016	\$20,000 \$0	N/A

Mono County Totals

	Year	Total	ALIFO
	2016	\$13,796,000	- 40/
Livestock & Livestock Products	2015	\$13,930,000	▼ 1%
Field Owner	2016	\$13,869,000	- 2000/
Field Crops	2015	\$17,239,000	▼20%
Fruit & Nut Crops	2016	\$43,300	▲12 %
Truit & Nut Grops	2015	\$38,800	12/0
Forest Products	2016	\$59,000	▲72 %
Torest Froducts	2015	\$34,400	A 1270
	2016	\$20,000	NI/A
Nursery Products	2015	\$0	N/A
	2016	\$27,787,000	- 4407
Total Value	2015	\$31,242,000	▼11%

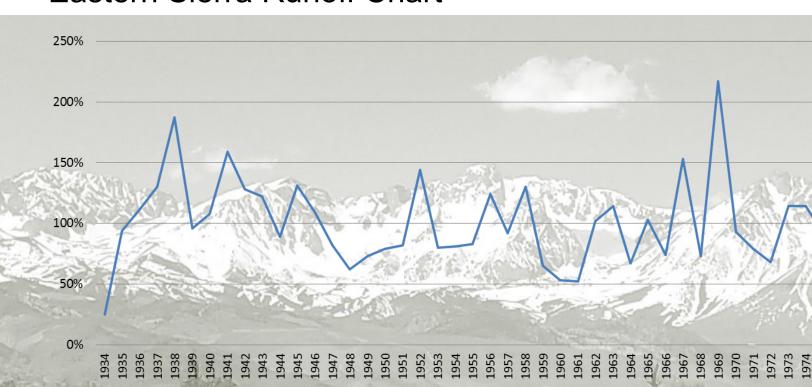
Mono County Agricultural Production



Five Year Comparison

	2012	2013	2014	2015	2016
Inyo County Totals	Inyo County Totals \$25,693,000		\$25,648,000 \$21,659,000		\$16,368,000
Mono County Totals	\$51,588,000	\$48,503,000	\$36,947,000	\$31,242,000	\$27,787,000
Combined Totals	\$77,281,000	\$74,151,000	\$58,606,000	\$49,753,000	\$44,155,000
\$90,000,000					■ Inyo
\$80,000,000	_				■ Mono
\$70,000,000					■ Combined
\$60,000,000					Combined
\$50,000,000			_		
\$40,000,000		_			
\$30,000,000					_
\$20,000,000					
\$10,000,000					
\$-					

Eastern Sierra Runoff Chart



Direct Marketing

Certified Farmer's Market

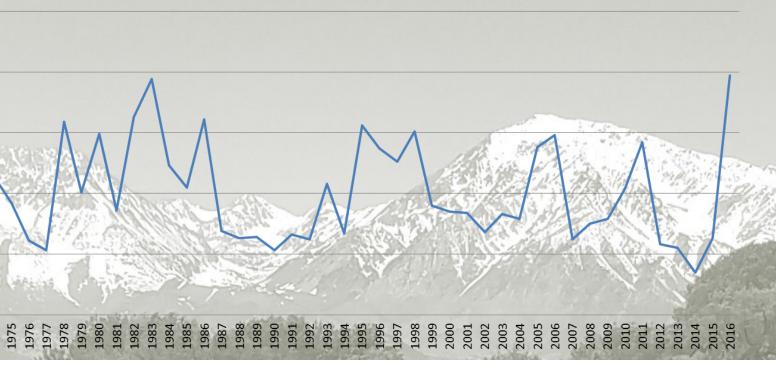
26 growers registered as Certified Producers in 2016.

Certified Farmer's Market locations included:

- Mammoth Lakes
- Bishop
- Independence

Commodities Grown by Certified Producers

Basil, chervil, chives, cilantro, dill, marjoram, parsley, rosemary, sage, tarragon, thyme, lavender, oregano, lemongrass, mint, mustard, paprika, spinach, sunflower, corn, eggplant, tomato, squash, cucumber, peppers, green onions, potatoes, pumpkins, okra, onions, beets, garlic, asparagus, artichoke, celery, carrots, radishes, rutabaga, leek, lettuce, broccoli, cauliflower, kale, arugula, sweet potatoes, Swiss chard, bok choy, cabbage, collard, Brussels sprouts, zucchini, shallots, tomatillos, turnip, grapes, apples, peaches, pears, nectarines, apricots, cherries, plums, persimmons, pomegranate, pluot, rhubarb, figs, watermelon, cantaloupe, honeydew, raspberries, blackberries, boysenberries, strawberries, peas, sweet peas, various bean varieties, almonds, walnuts, cut flowers, honey, and eggs.



Sustainable Agriculture and Outreach

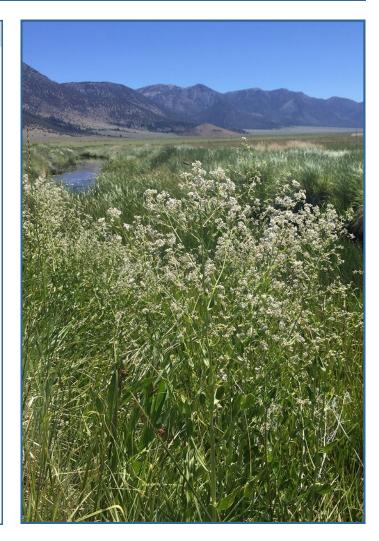
Invasive Plant Targets								
Pest	Agent/Mechanism	Number of Sites	Gross Acres					
Puncturevine	Biological Control	14 sites	~					
Dalmatian Toadflax	Mechanical	2 sites	220					
Yellow Starthistle	Mechanical/Herbicide	2 sites	10					
Russian Knapweed	Herbicide	3 sites	100					
Canada Thistle	Herbicide	8 sites	400					
Spotted Knapweed	Herbicide	3 sites	4					
Halogeton	Mechanical	5 sites	4,400					
Scotch Thistle	Herbicide	8 sites	1,311					
Camelthorn	Herbicide	1 site	40					
Saltcedar	Herbicide	1 site	80					
Perennial Pepperweed	Herbicide	53 sites	12,000					

Outreach Program

During 2016, the Inyo/Mono Counties' Agriculture Department conducted:

- 2 pesticide safety seminars with over 100 professional card holders and private applicators attending, to meet California state continuing education requirements;
- 2 educational workshops for local groups;
- Participation with the Owens Lake Committee and Integrated Regional Water Management Planning Group to resolve major water issues in the Owens Valley.

The Department's inspection surveillance area, which encompasses over 10,000 square miles, provided outreach from northern Mono County, including several California and Nevada field crop growers located in the Antelope Valley area, to the southern tip of Inyo County, including a large commercial turf grass farm in the Sandy Valley, near Las Vegas, Nevada. The Inyo/Mono Agricultural Commissioner's office is tasked with the surveillance of 50% of the California/Nevada border for pests that could endanger the agricultural industry of California.



Weights & Measures

Device Inspection Program

We are responsible for inspection, certification, or condemnation of all commercially used meters (retail motor fuel, propane/vapor, and electric), scales (aggregate and cement hoppers, vehicle, live-stock, computing, platform and spring scales); and any other type of device that is used to weigh or measure to determine a value for the purpose of sales. Enforcement actions can include issuance of citations initiating prosecution of violations. Of the 1,200+ devices inspected, 20 Notice of Violations were issued. All consumer complaints received by the Inyo/Mono Counties' Weights and Measures Department resulted in further inspections throughout the year. Regular inspections protect consumers from misrepresentation and maintain fair competition between sellers.

Petroleum Program

We ensure the quality of petroleum products sold within the two Counties including; sampling of fuels, inspection and investigation of complaints. We also oversee all commercial advertisements of such products including price signs and labeling.

Package Inspections

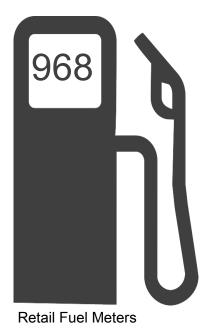
We inspect pre-packaged commodities in retail and wholesale facilities to determine proper weights, count or volume. We also verify proper sales equipment involving scanners, performing test purchases to insure accurate charges.

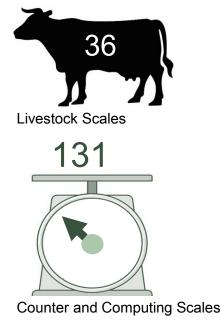
Weighmaster Enforcement

Weighmaster licenses are issued through our office to persons or entities that sell bulk commodities. Enforcement of weighmaster laws ensures that these transactions are accurate.

Device Repairman Regulation

Anyone who installs or repairs a weighing or measuring device in Inyo or Mono Counties must register with our office and inform our office when work takes place. This ensures that devices are not tampered with and transaction equity.









32 Other Weighing and Measuring Devices

Owens Valley Mosquito Abatement

What is the mosquito control program?

The purpose of the program is to control mosquito populations throughout the Owens Valley from Olancha to Round Valley so that these pests and their associated diseases are abated adequately.

<u>Monitoring</u>

The Owens Valley Mosquito Abatement Program (OVMAP) conducts surveillance to determine mosquito populations using several methods. Mosquito traps are deployed in several locations throughout the Owens Valley, and are checked frequently to determine level of adult mosquito populations. Disease monitoring is component of this trapping effort, and insects caught in traps are sent to sample for the presence of certain diseases that mosquitos are known to spread. Complaints are logged and responded to, creating records that can also help with monitoring efforts. At times, staff will travel to areas where complaints are high and record landing rates of mosquitos to further gauge population density.

Biocontrol

Mosquito Fish - The mosquito fish have been one of the most effective non-insecticidal and non-chemical methods of controlling mosquitoes for over eighty years. They breed throughout the summer and new broods are produced at intervals of about six weeks, with 50 to 100 young in a single brood. They are ready to begin the work of destroying mosquito larvae at once. Mosquito fish can eat mosquito larvae as fast as the larvae hatch from eggs, as many as 100 per day. Mosquito fish live 2-3 years and can tolerate a wide range of temperatures.

Larvaciding - Routine larviciding of many hundreds of mosquito sources each week prevent immature mosquito larvae from reaching the flying and biting adult stage. This preferred first option for killing mosquitos is the cheapest and most effective method.

Adulticiding

When larvaciding does not control mosquito populations adequately, OVMAP conducts adulticiding measures to protect our local communities from irritating insect bites and the potential for spreading of disease.

Public Outreach and Cultural/Environmental Control

Outreach to residents about altering or removing conditions that best suit mosquito breeding is another effective tool in the OVMAP toolbox. These controls include proper irrigation practices, pool maintenance, and even making sure small containers or tires stored outside do not fill with stagnant water. Reducing the habitat conducive to mosquito breeding in the very areas where we live is a large step toward fewer itchy bites. Outreach efforts occur throughout the year through personal contact and social media, as well as at community events such as the Tri-County Fair.







The Evolution of California Agricultural Commissioners and Sealers

The California Agricultural Commissioners trace their origins back 136 years. The goal of the Agricultural Commissioners is to protect the State's crops from the ravages of pests both domestic and imported. Then, as now, one of the principle weapons employed was a legal device called a "quarantine", which is derived from the French word "quarante", meaning "forty". The quarantine came about as a detention device, its first use being in the year 1340 when passengers on ships bound for Venice, Italy, were detained on board ship for 40 days. This was considered a long enough period to determine whether or not those passengers carried with them the Black Plague, which was killing many people in Europe in the mid-14th century.

California's first statewide program, which was the beginning of the present Department of Food and Agriculture, began with "An Act For the Promotion of Viticultural Industries of the State" on April 5,1880. It provides for the appointment of a Board of State Viticultural Commissioners whose duties included the study of the grape root rot disease, *Phylloxera*. The Act specified that the University of California was responsible for instruction and experiments - a concept still existing today - giving the University the authority for research and the Department the regulatory functions. The Act provided for seven viticultural districts.

Until the year 1911, the duties of the State Board of Horticulture, the State Commissioner of Horticulture, county boards of horticulture commissioners and the county horticulture commissioners were limited to just a few obligations. These obligations consisted of preventing the introduction into the state of the pests from outside its boundaries, prevention of spread of insect pests and plant diseases through the media of nursery stock, fruit boxes, and other containers, and the inspection of nurseries. The years that followed would find the duties not only intensified in the same areas, but expanded into many other aspects of agriculture.

In the beginning the regulatory concern was to protect the California farmer from the depredations of exotic pests. After 1911, these duties were to be expanded to include concerns of the market place (standardization), and such cultural aids as assistance to the farmer in weed control and control of rodents and other damaging creatures. Later, they would enlarge to assure the farmer honest weights and measures, and protection from unscrupulous middlemen. Finally, the regulations would blossom into the full relationship of the farmer and the consumer.

Today, the California Department of Food and Agriculture and County Agricultural Commissioners are as busy helping the consumer as they are the farmer. They keep exotic pests away from the farmer's fields by fighting them in city gardens, where they nearly always are found first in the State. By so doing, they are affording city people as much protection as farmers, for these pests generally can wreak as much havoc in the city as in the country. They provide for, and oversee, standardization practices, thus insuring the farmers good markets for their products and insuring quality for consumers. They promote marketing of goods in a variety of ways, also assuring quality and quantity to consumers. They look after the health of livestock and plants, and the same benefits accrue to the consumer. They insist on measurement standards that also have dual blessings; and they assure the consumer and the farmer protection against the careless use of pesticides, thus affording protection to both people and the environment.





Counties of Inyo and Mono Agricultural Commissioner's Office 2017 Crop and Livestock Report

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COUNTIES OF INYO AND MONO



AGRICULTURE • WEIGHTS & MEASURES • OWENS VALLEY MOSQUITO ABATEMENT PROGRAM • EASTERN SIERRA WEED MANAGEMENT AREA MAMMOTH LAKES MOSQUITO ABATEMENT DISTRICT • INYO COUNTY COMMERCIAL CANNABIS PERMIT OFFICE

Karen Ross, Secretary California Department of Food and Agriculture

Brian Leahy, Director California Department of Pesticide Regulation

The Honorable Board of Supervisors, County of Inyo The Honorable Board of Supervisors, County of Mono

Dan Totheroh, Chair

Bob Gardner, Chair

Matt Kingsley

Rick Pucci

Stacy Corless

Fred Stump

Jeff Griffiths

Mark Tillemans

John Peters

Larry Johnston

I am pleased to present the 2017 Inyo and Mono Counties' Annual Crop and Livestock Report. This report is prepared pursuant to California Food and Agriculture Code 2279, and is a statistical compilation of agriculture production in Inyo and Mono Counties. These values reflect **gross** agricultural production within the two counties, and do not represent net profit or loss.

The gross combined agricultural production values for lnyo and Mono Counties in 2017 totaled \$50,227,000, representing an increase of 14% from 2016 production values. This is the first increase since 2011. Drought conditions that began in 2012 and extended into 2016 removed nearly 56% of all gross agriculture value from the two counties combined. Although the improved conditions in 2017 bring us back to 2015 production value levels, the agriculture industry in our two counties has a long road ahead to recover to pre-drought status.

The two primary commodity groups in Inyo and Mono (livestock & livestock products and field crops) both had strong numbers in 2017 due to production increases resulting from good irrigation conditions following an abundant snow-pack year. Beef, lamb, and alfalfa pricing were all up according to data, which coupled with production increases, substantially bolstered our agriculture value.

A few commodity groups suffered including apiary, vegetable crops, and rangeland. We continue to see declines in apiary production as out of state companies utilize local bee sites prior to pollination in the Central Valley, which leaves less opportunity for use by our local beekeepers. Vegetable crops, while never a major contributor to overall value, did experience a drop in value as fewer certified producers reported production 2017. Rangeland value was reduced slightly due to rent changes.

I would like to thank my staff for assisting with the creation of this report. I'd also like to thank our local agricultural industry for their input, without which this report would not be possible.

Sincerely,

Nathan D. Reade

Agricultural Commissioner

Counties of Inyo and Mono Agricultural Commissioner's Office

The mission of the Inyo and Mono Counties Agricultural Commissioner's Office is to promote and protect the agricultural industry of the counties, protect the environment, and to ensure the health and safety of all of its citizens. The department is also responsible for fostering confidence and equity in the marketplace.

The following are the main program areas:

Human Safety and Environmental Protection

The County Agricultural Commissioner's Office protects the health and safety of all Inyo/Mono residents, its agricultural industries and its environment with a series of comprehensive regulatory programs designed to prevent the introduction of exotic pests and to ensure the safe use of pesticides. The five programs that exist to achieve these goals include:

- Pest Exclusion
- Pest Detection
- Pest Eradication
- Pest Management
- Pesticide Enforcement

Consumer Protection and Product Quality

Product quality programs are designed to ensure the production and sales of quality eggs, honey, fruits, vegetables, and nursery and seed products. Quality standards that these programs ensure include maturity, grade, size, and weight. Packaging and labeling are also examined to ensure consumer expectations are met. The six programs include:

- Fruit and Vegetable Quality Control
- Organic Food Production
- Egg Quality Control
- Certified Farmers' Markets
- Nursery Inspection
- Seed Inspection

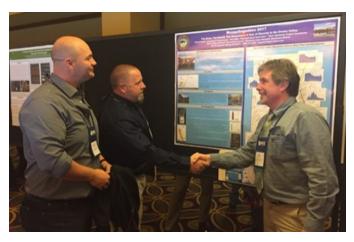
Special Agricultural Services

The Agriculture Department also provides other mandated services, including:

- Apiary Inspection
- Crop Statistics
- Sustainable Agriculture









Administrative and Education Outreach

Staff participate in a wide range of special projects intended to benefit Inyo/Mono citizens such as the legislative process, public information, education outreach efforts, as well as joint multi-agency and inter-county cooperative activities. Continuing education efforts sponsored by the Agriculture Department for pesticide safety help to ensure that local license-holders maintain adequate training.

Invasive Plant Management

This division of the Agricultural Commissioner's office consists of 15 federal, state, county, and local agencies and entities. The Eastern Sierra Weed Management Area is dedicated to the eradication and control of invasive plant species in Inyo and Mono Counties through the cooperation and coordination of participating entities. The Eastern Sierra Weed Management Area participates in public outreach and education activities to ensure that people understand the threat of nonnative weeds on our environment and agriculture industry.

Weights and Measures

A gallon of gasoline, a cord of firewood, a loaf of bread, or a pound of fruits or vegetables...any item purchased is sold by weight, measure, or count. We protect the public from purchasing goods that are short weight or measure, and we protect businesses from giving their products and profits away when they use devices that could be inaccurate. We also verify that prices are scanned correctly at the counter, petroleum products meet quality standards, and weighmasters provide their customers accurate weighing devices. The eight programs in this category include:

- Weight Verification
- Measurement Verification
- Petroleum
- Transaction Verification
- Electronic Meters
- Compressed Gas Meters
- Weighmaster
- Device Repairmen Regulation

See page 15 for more information on this division.

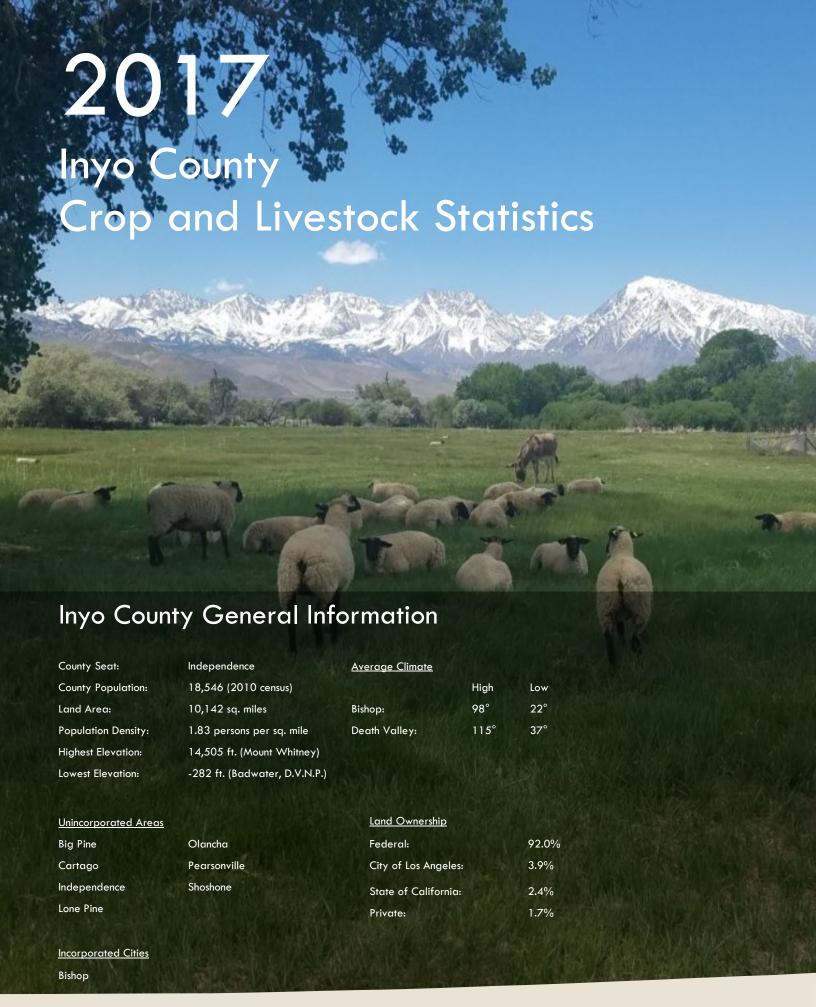
Mosquito Abatement

The purpose of this program is to provide the public with a consistent level of mosquito control that reduces the threat of disease transmission and the spread of large nuisance populations of mosquitoes. The Inyo/Mono Counties Agricultural Commissioner's Office administers the Owens Valley Mosquito Abatement Program and the Mammoth Lakes Mosquito Abatement District. See page 16 for more information on this division.









LIVESTOCK & LIVESTOCK PRODUCTS

				Value per		CALIFO
	Year	Unit	Production	Unit	Total***	
Carrie & Calicas	2017	l l a a al	8,230	\$1,130	\$9,300,000	A 1 4 0 /
Cattle & Calves	2016	Head	7,670	\$1,045	\$8,013,000	▲ 16%
Cl 9	2017	l l a a al	4,415	\$187	\$825,400	A 22 0/
Sheep & Lambs*	2016	Head	3,815	\$164	\$625,700	▲ 32%
_	2017	D	3,765	\$4.75	\$17,900	▼ 13%
Eggs	2016	Dozen	4,350	\$4.75	\$20,600	▼ 13%
\\/I	2017	Haa	22,700	\$2.17	\$49,200	▲ 20%
Wool	2016	Lbs	26,700	\$1.54	\$41,000	
AA:!!**	2017				\$145,000	▼ 22%
Miscellaneous**	2016				\$186,000	▼ ∠∠ 70
ncludes feeder lamb gain. Includes beef stocker gain, goats, hogs, and poultry. *Total may not calculate due to rounding			Takal Malasa	2017	\$10,338,000	A 1 4 0 /
		Total Value	2016	\$8,886,000	▲ 16%	

FIELD CROPS

	Value per					
	Year	Unit	Production	Unit	Total**	
A 16 16 11	2017	Т	15,184	\$190	\$2,885,000	A 6 0/
Alfalfa Hay	2016	Ton	15,100	\$180	\$2,718,000	A 6%
Dantona lorianata d	2017	A	14,000	\$70	\$980,000	- 00/
Pasture, Irrigated	2016	Acre	14,000	\$70	\$980,000	= 0%
Deal or Deal deal	2017		1,150,000	\$1.10	\$1,265,000	▼ 2%
Pasture, Rangeland	2016	Acre	1,150,000	\$1.12	\$1,288,000	▼ 2 %
***********	2017		625	-	\$1,696,000	A 10 40/
Miscellaneous*	2016	-	280	-	\$758,000	▲ 124%
fincludes garlic, grain hay, sudangrass, and other hay **Total may not calculate due to rounding		T . 137 1	2017	\$6,826,000	A 10 0/	
		Total Value	2016	\$5,744,000	▲ 19%	

Nursery Products

				Value per		
	Year	Unit	Production	Unit	Total	
N Cr. l*	2017	A	139	-	\$1,185,000	▲ 15%
Nursery Stock*	2016	Acre	121	-	\$1,185,000 \$1,032,000	1 5%
ncludes palms, turf, and miscellaneous plants.			Takal Malas	2017	\$1,185,000	A 1 F0/
			Total Value	2016	\$1,185,000 \$1,032,000	▲ 15%

FRUIT & NUT CROPS

	Value per							
	Year	Unit	Production	Unit	Total			
AA*	2017	A	35	-	\$358,200		8%	
Miscellaneous*	2016	Acres	35	-	\$333,200		0%	
* Includes almonds, apples, apri cherries, dates, figs, grapes (tab	•	•	Takul Walaa	2017	\$358,200	_	00/	
nectarines, peaches, pears, pecc pomegranates, raspberries, stra	ıns, persimmons	, plums,	Total Value	2016	\$333,200		8%	

APIARY PRODUCTION

		Value per				
	Year	Unit	Production	Unit	Total	
	2017		88,400	\$2.49	\$219,800	T 220/
Honey	2016	Lb	155,600	\$2.09	\$325,200	▼32%
Miscellaneous*	2017		-	-	\$5,400	▼ 4%
	2016	-	-	-	\$5,600	▼ 4%
* Includes beeswax and pollen.			Tatal Value	2017	\$225,200	V 220/
			Total Value	2016	\$225,200 \$330,800	▼32%

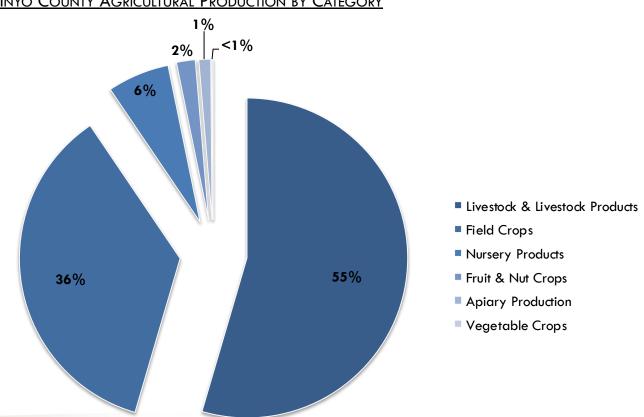
VEGETABLE CROPS

	Value per						
	Year	Unit	Production	Unit	Total		
AA: *	2017	Acres	3	-	\$25,200	V 400/	
Miscellaneous*	2016		7	-	\$25,200 \$42,000	V 40%	
* Includes Includes artichokes, beans, brassicas, carrots, cucumbers, eggplant, garlic, herbs, leafy greens, melons, onions, peppers, pumpkins, radishes, squash, sweet corn, tomatillos, tomatoes, and tubers.		Takul Walaa	2017	\$25,200	V 400/		
		Total Value	2016	\$25,200 \$42,000	▼ 40%		



			Trop.
	Year	Total	ALIFOR
	2017	\$10,338,000	A 1 (0)
Livestock & Livestock Products	2016	\$8,886,000	▲ 16%
Field Corre	2017	\$6,826,000	▲ 19%
Field Crops	2016	\$5,744,000	A 1970
N. D. I.	2017	\$1,185,000	A 1.50/
Nursery Products	2016	\$1,032,000	▲ 15%
Fruit & Nut Crops	2017	\$358,200	▲ 8%
Troil & Noi Crops	2016	\$333,200	A 6/0
Apiary Production	2017	\$225,200	▼32%
Apidi y Frodoction	2016	\$330,800	▼ 32/0
Vegetable Crops	2017	\$25,200	V 40%
vegelable Crops	2016	\$42,000	▼ 40%
Total Value	2017	\$18,958,000	▲16 %
iotai value	2016	\$16,368,000	A 10%

INYO COUNTY AGRICULTURAL PRODUCTION BY CATEGORY



2017

Mono County Crop and Livestock Statistics

Mono County General Information

County Seat:

County Population:

Land Area:

Population Density:

Highest Elevation:

Unincorporated Areas

Benton

Bridgeport

Chalfant Valley

Coleville

Hammil Valley

Incorporated Cities

Mammoth Lakes

Bridgeport

14,202 (2010 census)

3,044 sq. miles

4.67 persons per sq. mile

14,252 ft. (White Mountain)

人。"第2000 miles 1993"

June Lake Lee Vining

Topaz

Tom's Place

Walker

Average Climate

High

Bridgeport: 81° 8°

Hammil Valley: 98° 2

Land Ownership

Federal: 84.7%

City of Los Angeles: 3.2%

State of California: 3.6%

Private: 6.5%

<u>Livestock & Livestock Products</u>

	Year	Unit	Production	Value per Unit	Total***	CALIF
6 9 6 1	2017		8,830	\$1,130	\$9,978,000	A 1 4 0 /
Cattle & Calves	2016	Head	8,230	\$1,045	\$8,603,000	▲ 16%
	2017		16,705	\$187	\$3,124,000	A 200/
Sheep & Lambs*	2016	Head	14,870	\$164	\$2,439,000	▲ 28%
	2017		98,306	\$2.17	\$213,300	▲16%
Wool	2016	Lbs	119,300	\$1.54	\$183,700	
11. II	2017				\$2,440,000	T 50/
Miscellaneous**	2016				\$2,570,000	▼5%
cludes feeder lamb gain. Includes beef stocker gain, goats, hogs, and poultry. Total may not calculate due to rounding				2017	\$15,755,000	A 1 40/
		Total Value	2016	\$13,796,000	▲ 14%	

Field Crops

				Value per		
	Year	Unit	Production	Unit	Total**	
A1C-1C-11-	2017	т	56,100	\$170	\$9,537,000	▲ 12%
Alfalfa Hay	2016	Ton	47,200	\$180	\$8,496,000	A 1 2 7 0
	2017	۸ ۵۰۰۵	26,000	\$70	\$1,820,000	- 00/
Pasture, Irrigated	2016	Acre	26,000	\$70	\$1,820,000	= 0%
D	2017		1,072,000	\$1.36	\$1,458,000	▼ 2%
Pasture, Rangeland	2016	Acre	1,072,000	\$1.39	\$1,490,000	▼ ∠%0
Miscellaneous*	2017		868	-	\$2,565,000	▲ 24%
	2016	-	1,473	-	\$2,063,000	24 %0
*Includes garlic, grain hay, sudangrass, and other hay **Total may not calculate due to rounding		er hay	Takul Walaa	2017	\$15,380,000	A 11 0/
		Total Value	2016	\$13,869,000	▲ 11%	

Forest Products

	Year	Total	
Timber and Figure a	201	\$70,10	19%
Timber and Firewood	201	\$59,00	19%
T-	201	\$70,10	1 9%
10	tal Value 201	\$59,00	19%

Fruit & Nut Crops

	Value per						
	Year	Unit	Production	Unit	Total		
II *	2017	Acres	18	-	\$44,200	A 00/	
Miscellaneous*	2016		18	-	\$43,300	▲ 2%	
des grapes (wine), pome fruit, and stone fruit.		T . 13/ 1	2017	\$44,200	A 20/		
			Total Value	2016	\$43,300	▲ 2%	

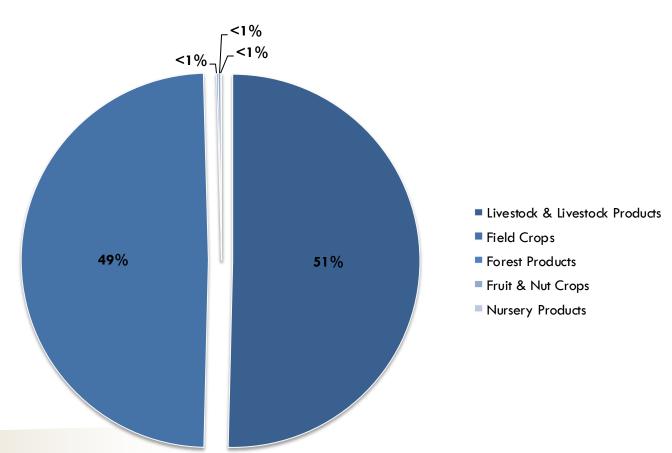
Nursery Products

		Value per				
	Year	Unit	Production	Unit	Total	
), C. 1*	2017		1	-	\$20,000	– 00/
Nursery Stock*	2016	Acre	1	-	\$20,000	= 0%
* Includes various ornamental pl	cludes various ornamental plants		T . 13/ 1	2017	\$20,000	– 00/
			Total Value	2016	\$20,000	= 0%

Mono County Totals

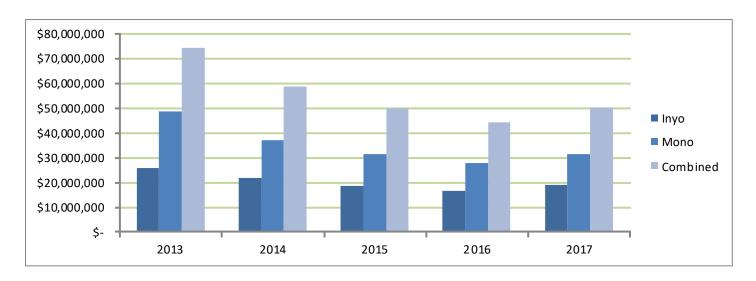
	Year	Total	1701
	2017	\$1 <i>5</i> ,7 <i>55</i> ,000	A 7 40/
Livestock & Livestock Products	2016	\$13,796,000	▲ 14%
5.116	2017	\$15,380,000	A 110 /
Field Crops	2016	\$13,869,000	▲ 11%
Forest Products	2017	\$70,100	1 9%
Totesi Floducis	2016	\$59,000	A 1 7 / 0
Fruit & Nut Crops	2017	\$44,200	A 2%
Truit & Nut Crops	2016	\$43,300	A 2/0
	2017	\$20,000	- 00/
Nursery Products	2016	\$20,000	= 0%
	2017	\$31,269,000	A
Total Value	2016	\$27,787,000	▲ 13%

Mono County Agricultural Production



FIVE YEAR COMPARISON

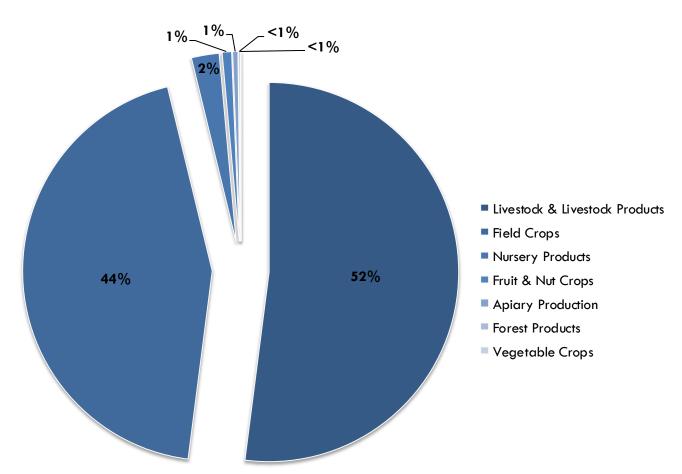
	2013	2014	2015	2016	2017
Inyo County Totals	\$25,648,000	\$21,659,000	\$18,511,000	\$16,368,000	\$18,958,000
Mono County Totals	\$48,503,000	\$36,947,000	\$31,242,000	\$27,787,000	\$31,269,000
Combined Totals	\$74,151,000	\$58,606,000	\$49,753,000	\$44,155,000	\$50,227,000

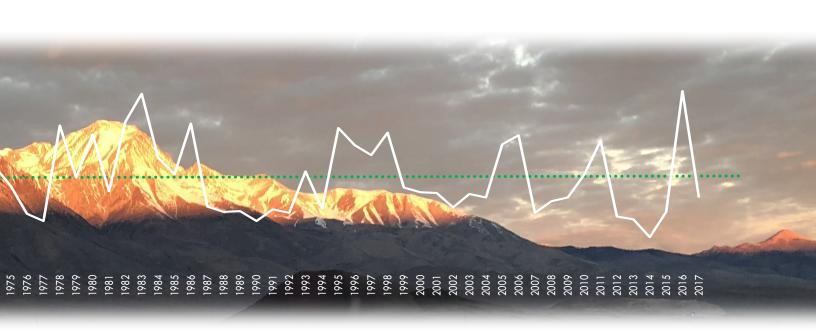


EASTERN SIERRA RUNOFF CHART



Combined Agricultural Production





DIRECT MARKETING

Commodities Grown by Certified Producers

Basil, chives, cilantro, dill, epazote, parsley, rosemary, sage, savory, tarragon, thyme, lemon balm, lavender, lovage, oregano, mint, spinach, watercress, corn, eggplant, tomato, squash, cucumber, peppers, green onions, potatoes, pumpkins, okra, onions, beets, fennel, garlic, artichoke, carrots, radishes, leek, lettuce, broccoli, kale, kohlrabi, chard, bok choy, cabbage, collard, parsnips, shallots, turnip, grapes, apples, peaches, pears, pecans, nectarines, apricots, cherries, plums, pomegranates, pluots, rhubarb, figs, watermelons, cantaloupes, honeydew, raspberries, blackberries, elderberries, currants, peas, sweet peas, various bean varieties, almonds, pistachios, walnuts, cut flowers, and eggs.

SUSTAINABLE AGRICULTURE AND OUTREACH

	Invasive Plant Targets						
<u>Pest</u>	Agent/Mechanism	Number of Sites	Gross Acres				
Puncturevine	Biological Control	14 sites	~				
Dalmatian Toadflax	Mechanical	3 sites	250				
Yellow Starthistle	Mechanical/Herbicide	3 sites	12				
Russian Knapweed	Herbicide	3 sites	100				
Canada Thistle	Herbicide	2 sites	20				
Spotted Knapweed	Herbicide	2 sites	3				
Halogeton	Mechanical	5 sites	4,400				
Scotch Thistle	Herbicide	8 sites	1,311				
Camelthorn	Herbicide	1 site	40				
Saltcedar	Herbicide	2 sites	85				
Perennial Pepperweed	Herbicide	53 sites	12,000				

Outreach Program

During 2017, the Inyo/Mono Counties' Agriculture Department conducted:

- 2 SpraySafe events with over 100 professional card holders and private applicators attending, to meet California state continuing education requirements;
- 6 educational workshops for local groups;

The Department's inspection surveillance area, which encompasses over 10,000 square miles, provided outreach from northern Mono County, including several California and Nevada field crop growers located in the Antelope Valley area, to the southern tip of Inyo County, including a large commercial turf grass farm in the Sandy Valley, near Las Vegas, Nevada. The Inyo/Mono Agricultural Commissioner's office is tasked with the surveillance of 50% of the California/Nevada border for pests that could endanger the agricultural industry of California.

WEIGHTS & MEASURES

Device Inspection Program

We are responsible for inspection, certification, or condemnation of all commercially used meters (retail motor fuel, propane/vapor, and electric), scales (aggregate and cement hoppers, vehicle, livestock, computing, platform and spring scales); and any other type of device that is used to weigh or measure to determine a value for the purpose of sales. Enforcement actions can include issuance of citations initiating prosecution of violations. Of the 1,200+ devices inspected, 16 Notices of Violation were issued. Six consumer complaints were received and investigated by the Inyo/Mono Counties' Weights and Measures Department throughout the year. Regular inspections protect consumers from misrepresentation and maintain fair competition between sellers.

Petroleum Program

We ensure the quality of petroleum products sold within the two Counties including; sampling of fuels, inspection and investigation of complaints. We also oversee all commercial advertisements of such products including price signs and labeling.

Package Inspections

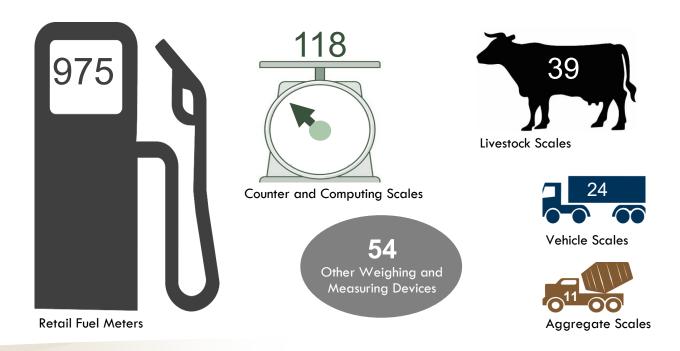
We inspect pre-packaged commodities in retail and wholesale facilities to determine proper weights, count or volume. We also verify proper sales equipment involving scanners, performing test purchases to insure accurate charges.

Weighmaster Enforcement

Weighmaster licenses are issued through our office to persons or entities that sell bulk commodities. Enforcement of weighmaster laws ensures that these transactions are accurate.

Device Repairman Regulation

Anyone who installs or repairs a weighing or measuring device in lnyo or Mono Counties must register with our office and inform our office when work takes place. This ensures that devices are not tampered with and transaction equity.



MOSQUITO ABATEMENT

What is the mosquito control program?

The purpose of the program is to control mosquito populations throughout the Owens Valley from Olancha to Round Valley and in Mammoth Lakes so that these pests and their associated diseases are abated adequately.

Monitoring

The Owens Valley Mosquito Abatement Program (OVMAP) and Mammoth Lakes Mosquito Abatement District (MLMAD) conduct surveillance to determine mosquito populations using several methods. Mosquito traps are deployed in several locations throughout the Owens Valley and in the Town of Mammoth Lakes, and are checked frequently to determine level of adult mosquito populations. Disease monitoring is component of this trapping effort, and insects caught in traps are sent to sample for the presence of certain diseases that mosquitos are known to spread. Complaints are logged and responded to, creating records that can also help with monitoring efforts. At times, staff will travel to areas where complaints are high and record landing rates of mosquitos to further gauge population density.

Biocontrol

Mosquito Fish - The mosquito fish have been one of the most effective non-insecticidal and non-chemical methods of controlling mosquitoes for over eighty years. They breed throughout the summer and new broods are produced at intervals of about six weeks, with 50 to 100 young in a single brood. They are ready to begin the work of destroying mosquito larvae at once. Mosquito fish can eat mosquito larvae as fast as the larvae hatch from eggs, as many as 100 per day. Mosquito fish live 2-3 years and can tolerate a wide range of temperatures.

Larvaciding - Routine larviciding of many hundreds of mosquito sources each week prevent immature mosquito larvae from reaching the flying and biting adult stage. This preferred first option for killing mosquitos is the cheapest and most effective method.

Adulticiding

When larvaciding does not control mosquito populations adequately, OVMAP and MLMAD conduct adulticiding measures to protect our local communities from irritating insect bites and the potential for spreading of disease.

Public Outreach and Cultural/Environmental Control

Outreach to residents about altering or removing conditions that best suit mosquito breeding is another effective tool in the OVMAP/MLMAD toolbox. These controls include proper irrigation practices, pool maintenance, and even making sure small containers or tires stored outside do not fill with stagnant water. Reducing the habitat conducive to mosquito breeding in the very areas where we live is a large step toward fewer itchy bites. Outreach efforts occur throughout the year through personal contact and social media, as well as at community events such as the Tri-County Fair.











The Evolution of California Agricultural Commissioners and Sealers

The California Agricultural Commissioners trace their origins back 136 years. The goal of the Agricultural Commissioners is to protect the State's crops from the ravages of pests both domestic and imported. Then, as now, one of the principle weapons employed was a legal device called a "quarantine", which is derived from the French word "quarante", meaning "forty". The quarantine came about as a detention device, its first use being in the year 1340 when passengers on ships bound for Venice, Italy, were detained on board ship for 40 days. This was considered a long enough period to determine whether or not those passengers carried with them the Black Plague, which was killing many people in Europe in the mid-14th century.

California's first statewide program, which was the beginning of the present Department of Food and Agriculture, began with "An Act For the Promotion of Viticultural Industries of the State" on April 5,1880. It provides for the appointment of a Board of State Viticultural Commissioners whose duties included the study of the grape root rot disease, *Phylloxera*. The Act specified that the University of California was responsible for instruction and experiments - a concept still existing today - giving the University the authority for research and the Department the regulatory functions. The Act provided for seven viticultural districts.

Until the year 1911, the duties of the State Board of Horticulture, the State Commissioner of Horticulture, county boards of horticulture commissioners and the county horticulture commissioners were limited to just a few obligations. These obligations consisted of preventing the introduction into the state of the pests from outside its boundaries, prevention of spread of insect pests and plant diseases through the media of nursery stock, fruit boxes, and other containers, and the inspection of nurseries. The years that followed would find the duties not only intensified in the same areas, but expanded into many other aspects of agriculture.

In the beginning the regulatory concern was to protect the California farmer from the depredations of exotic pests. After 1911, these duties were to be expanded to include concerns of the market place (standardization), and such cultural aids as assistance to the farmer in weed control and control of rodents and other damaging creatures. Later, they would enlarge to assure the farmer honest weights and measures, and protection from unscrupulous middlemen. Finally, the regulations would blossom into the full relationship of the farmer and the consumer.

Today, the California Department of Food and Agriculture and County Agricultural Commissioners are as busy helping the consumer as they are the farmer. They keep exotic pests away from the farmer's fields by fighting them in city gardens, where they nearly always are found first in the State. By so doing, they are affording city people as much protection as farmers, for these pests generally can wreak as much havoc in the city as in the country. They provide for, and oversee, standardization practices, thus insuring the farmers good markets for their products and insuring quality for consumers. They promote marketing of goods in a variety of ways, also assuring quality and quantity to consumers. They look after the health of livestock and plants, and the same benefits accrue to the consumer. They insist on measurement standards that also have dual blessings; and they assure the consumer and the farmer protection against the careless use of pesticides, thus affording protection to both people and the environment.





Counties of Inyo and Mono Agricultural Commissioner's Office 2018 Crop and Livestock Report

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Ryan Cappello Alan Dominguez

Chris Leeson Gabriel Mesquitez

Carl Olsen **Aaron Parker**





COUNTIES OF INYO AND MONO



AGRICULTURE • WEIGHTS & MEASURES • OWENS VALLEY MOSQUITO ABATEMENT PROGRAM • EASTERN SIERRA WEED MANAGEMENT AREA MAMMOTH LAKES MOSQUITO ABATEMENT DISTRICT • INYO COUNTY COMMERCIAL CANNABIS PERMIT OFFICE

Karen Ross, Secretary California Department of Food and Agriculture

Teresa Marks, Acting Director California Department of Pesticide Regulation

The Honorable Board of Supervisors, County of Inyo The Honorable Board of Supervisors, County of Mono

Rick Pucci, Chair

John Peters, Chair

Matt Kingsley

Mark Tillemans

Stacy Corless

Jennifer Halferty

Jeff Griffiths

Dan Totheroh

Bob Gardner

Fred Stump

I am pleased to present the 2018 Inyo and Mono Counties' Annual Crop and Livestock Report. This report is prepared pursuant to California Food and Agriculture Code 2279, and is a statistical compilation of agriculture production in Inyo and Mono Counties. These values reflect **gross** agricultural production within the two counties, and do not represent net profit or loss.

The gross combined agricultural production values for Inyo and Mono Counties in 2018 totaled \$53,846,000, representing an increase of more than 7% from 2017 production values. It is important to note that despite overall increases over two consecutive years, our local industry still has a long way to go to recover from losses incurred in the extended 2011-2016 drought.

The two most significant commodity groups for both counties continue to be livestock and livestock products, and field crops. Both of these commodity groups maintained increases in 2018. In Inyo County, the increases in these two commodity groups coupled with an increase in the nursery products group led to an overall 13% growth in production value. Total production in Inyo was valued at \$21,499,000. Mono County saw increases in every reporting commodity group except for nursery products, which remained static. Mono County's overall increase was 4%, bringing total production value to \$32,347,000.

I would like to thank my staff for assisting with the creation of this report. I'd also like to thank our local agricultural industry for their input, without which this report would not be possible.

Sincerely,

Nathan D. Reade

Agricultural Commissioner

Counties of Inyo and Mono Agricultural Commissioner's Office

The mission of the Inyo and Mono Counties Agricultural Commissioner's Office is to promote and protect the agricultural industry of the counties, protect the environment, and to ensure the health and safety of all of its citizens. The department is also responsible for fostering confidence and equity in the marketplace. The following are the main program areas:

Human Safety and Environmental Protection

The County Agricultural Commissioner's Office protects the health and safety of all Inyo/Mono residents, its agricultural industries and its environment with a series of comprehensive regulatory programs designed to prevent the introduction of exotic pests and to ensure the safe use of pesticides. The five programs that exist to achieve these goals include:

- Pest Exclusion
- Pest Detection
- Pest Eradication
- Pest Management
- Pesticide Enforcement

Consumer Protection and Product Quality

Product quality programs are designed to ensure the production and sales of quality eggs, honey, fruits, vegetables, and nursery and seed products. Quality standards that these programs ensure include maturity, grade, size, and weight. Packaging and labeling are also examined to ensure consumer expectations are met. The six programs include:

- Fruit and Vegetable Quality Control
- Organic Food Production
- Egg Quality Control
- Certified Farmers' Markets
- Nursery Inspection
- Seed Inspection

Special Agricultural Services

The Agriculture Department also provides other mandated services, including:

- Apiary Inspection
- Crop Statistics
- Sustainable Agriculture

Administrative and Education Outreach

Staff participate in a wide range of special projects intended to benefit Inyo/Mono citizens such as the legislative process, public information, education outreach efforts, as well as joint multiagency and inter-county cooperative activities. Continuing education efforts sponsored by the Agriculture Department for pesticide safety help to ensure that local license-holders maintain adequate training.









Invasive Plant Management

This division of the Agricultural Commissioner's office consists of 15 federal, state, county, and local agencies and entities. The Eastern Sierra Weed Management Area is dedicated to the eradication and control of invasive plant species in Inyo and Mono Counties through the cooperation and coordination of participating entities. The Eastern Sierra Weed Management Area participates in public outreach and education activities to ensure that people understand the threat of nonnative weeds on our environment and agriculture industry.

Weights and Measures

A gallon of gasoline, a cord of firewood, a loaf of bread, or a pound of fruits or vegetables...any item purchased is sold by weight, measure, or count. We protect the public from purchasing goods that are short weight or measure, and we protect businesses from giving their products and profits away when they use devices that could be inaccurate. We also verify that prices are scanned correctly at the counter, petroleum products meet quality standards, and weighmasters provide their customers accurate weighing devices. The eight programs in this category include:

- Weight Verification
- Measurement Verification
- Petroleum
- Transaction Verification
- Electronic Meters
- Compressed Gas Meters
- Weighmaster
- Device Repairmen Regulation

See page 15 for more information on this division.

Mosquito Abatement

The purpose of this program is to provide the public with a consistent level of mosquito control that reduces the threat of disease transmission and the spread of large nuisance populations of mosquitoes. The Inyo/Mono Counties Agricultural Commissioner's Office administers the Owens Valley Mosquito Abatement Program and the Mammoth Lakes Mosquito Abatement District. See page 16 for more information on this division.

Inyo County Commercial Cannabis Permitting Office

This division of our office coordinates the Commercial Cannabis Business License issuance, renewal, and oversight activities in Inyo County. Licensed activities include retail, manufacturing, distribution, testing, and cultivation. This office coordinates with the state of California Bureau of Cannabis Control as well as the CDFA CalCannabis to regulate local cannabis businesses.









2018

Inyo County Crop and Livestock Statistics



LIVESTOCK & LIVESTOCK PRODUCTS

	Year	Unit	Production	Value per Unit	Total	CALIF
Caula 9 Calara	2018	111	8,550	\$1,182	\$10,106,000	A 70/
Cattle & Calves	2017	Head	8,230	\$1,130	\$9,300,000	▲ 7%
Sheep & Lambs*	2018	l la sual	4,410	\$158	\$697,000	V 140/
	2017	Head	4,415	\$187	\$825,400	▼ 16%
_	2018		3,250	\$4.75	\$1 <i>5</i> ,400	▼14%
Eggs	2017	Dozen	3,765	\$4.75	\$17,900	
\A/ I	2018	11	37,000	\$2.82	\$104,000	▲ 112%
Wool	2017	Lbs	22,700	\$2.17	\$49,200	
**	2018				\$347,000	A 1000/
Miscellaneous**	2017				\$145,000	▲ 139%
ncludes feeder lamb gain. ncludes beef stocker gain, goats, hogs, and poultry.		Takal Wal	2018	\$11,269,000	A 00/	
		Total Value	2017	\$10,338,000	A 9%	

FIELD CROPS

				Value per			
	Year	Unit	Production	Unit	Total		
A f = f = 1 =	2018	Т	16,200	\$206	\$3,337,000	A 1	6%
Alfalfa Hay	2017	Ton	15,184	\$190	\$2,885,000		070
Danis a laterated	2018	A	14,000	\$66	\$924,000		6%
Pasture, Irrigated	2017	Acre	14,000	\$70	\$980,000	•	070
Davetone Demonstrat	2018		1,150,000	\$1.08	\$1,242,000	▼ 2%	20/
Pasture, Rangeland	2017	Acre	1,150,000	\$1.10	\$1,265,000		2 %0
Miscellaneous*	2018		842	-	\$1,744,000	A 20/	3%
Miscellaneous	2017	-	625	-	\$1,696,000		370
acludes garlic, grain hay, sudangrass, and other hay		er hay	Takal Malaa	2018	\$7,247,000	_	40/
			Total Value	2017	\$6,826,000		6%

Nursery Products

				Value per		
	Year	Unit	Production	Unit	Total	
V. C. 1*	2018		181	-	\$2,582,000	A 100/
Nursery Stock*	2017	Acre	139	-	\$2,582,000 \$1,185,000	▲ 18%
ides palms, turf, and miscell	aneous plants.		T . 13/ 1	2018	\$2,582,000	A 100/
			Total Value	2017	\$1,185,000	▲ 18%

FRUIT & NUT CROPS

	Value per					
	Year	Unit	Production	Unit	Total	
************	2018	A	32	-	\$203,000	V 420/
Miscellaneous*	2017	Acres	35	-	\$203,000 \$358,200	▼ 43%
* Includes almonds, apples, apri cherries, dates, figs, grapes (tab	•	•	Tatal Value	2018	\$203,000	V 420/
nectarines, peaches, pears, pecc pomegranates, raspberries, stra	ıns, persimmons	, plums,	Total Value	2017	\$203,000 \$358,200	▼ 43%

APIARY PRODUCTION

	Value per					
	Year	Unit	Production	Unit	Total	
Hanaii	2018	l la	56,100	\$3.00	\$168,000	₩ 2.40/
Honey	2017	Lb	88,400	\$2.49	\$219,800	▼ 24%
***	2018		-	-	\$5,400	= 0%
Miscellaneous*	2017	-	-	-	\$5,400	
ncludes beeswax and pollen.			Takal Malas	2018	\$173,000	V 220/
			Total Value	2017	\$225,000	▼ 23%

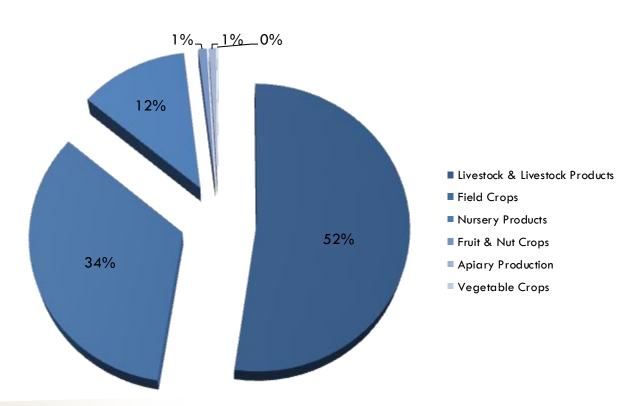
VEGETABLE CROPS

		Value per						
	Year	Unit	Production	Unit	Total			
******	2018	A	3	-	\$25,000		10/	
Miscellaneous*	2017	Acres	3	-	\$25,200	▼ 1%	1 %	
* Includes Includes artichokes, be cucumbers, eggplant, garlic, her	, ,	•	Takul Walaa	2018			1%	
ons, onions, peppers, pumpkins, corn, tomatillos, tomatoes, and to	radishes, squas		Total Value	2017	\$25,200	•	1 70	



	Year	Total	CIFO
	2018	\$11,269,000	A 00/
Livestock & Livestock Products	2017	\$10,338,000	A 9%
Field Com	2018	\$7,247,000	▲ 6%
Field Crops	2017	\$6,826,000	A 0%
N. B. L.	2018	\$2,582,000	A 100/
Nursery Products	2017	\$1,185,000	▲ 18%
Fruit & Nut Crops	2018	\$203,000	▼ 43%
Fruit & Nui Crops	2017	\$358,200	▼ 43 %
Apiary Production	2018	\$173,000	▼ 23%
Apidity Production	2017	\$225,200	▼ 23 /0
Vagatable Crops	2018	\$25,000	▼ 1%
Vegetable Crops	2017	\$25,200	▼ 170
Tatal Walas	2018	\$21,499,000	A 120/
Total Value	2017	\$18,958,000	▲13 %

INYO COUNTY AGRICULTURAL PRODUCTION BY CATEGORY



2018

Mono County Crop and Livestock Statistics

Mono County General Information

			The Later of the
County Population:	14,202 (2010 census)	Hig	h Low
Land Area:	3,044 sq. miles	Bridgeport: 81°	8°
Population Density:	4.67 persons per sq. mile	Hammil Valley: 98°	22°
Highest Elevation:	14,252 ft. (White Mountain)		
			4000
<u>Unincorporated Areas</u>		Land Ownership	A STATE OF THE STA
Benton	June Lake	Federal:	84.7%
Bridgeport	Lee Vining	City of Los Angeles:	3.2%
Chalfant Valley	Topaz	State of California:	3.6%
Coleville	Tom's Place	Private:	6.5%
Hammil Valley	Walker		Z AND THE STATE OF
	The second secon	10000000000000000000000000000000000000	The state of the s

Incorporated Cities

Mammoth Lakes

<u>Livestock & Livestock Products</u>

	Year	Unit	Production	Value per Unit	Total	CALIF
Caula 9 Calaa	2018	111	9,180	\$1,182	\$10,851,000	A 00/
Cattle & Calves	2017	Head	8,830	\$1,130	\$9,978,000	A 9%
Sheep & Lambs*	2018	111	16,370	\$158	\$2,586,000	V 170/
	2017	Head	16,705	\$187	\$3,124,000	▼ 17%
\\/. al	2018	Haa	76,800	\$2.82	\$217,000	A 1 4 0 /
Wool	2017	Lbs	98,306	\$2.17	\$213,300	▲ 16%
74. II **	2018				\$2,290,000	V 40/
Miscellaneous**	2017				\$2,440,000	▼ 6%
ludes feeder lamb gain. cludes beef stocker gain, goats, hogs, and poultry.		T . 137 1	2018	\$15,944,000	A 10/	
		Total Value	2017	\$15,755,000	1 %	

Field Crops

	Year	Unit	Production	Value per Unit	Total	
Alfalfa Hay	2018	Т	58,100	\$198	\$11,504,000	▲ 21%
	2017	Ton	56,100	\$170	\$9,537,000	A 21%
Pasture, Irrigated	2018	۸ میرم	20,500	\$70	\$1,435,000	▼ 21%
	2017	Acre	26,000	\$70	\$1,820,000	▼ 21%
Destrue Description	2018	A	1,078,000	\$1.39	\$1,498,000	A 3%
Pasture, Rangeland	2017	Acre	1,072,000	\$1.36	\$1,458,000	3 %
***********	2018		1,532	-	\$1,798,000	▼30%
Miscellaneous*	2017	-	1,473**	-	\$2,565,000	▼ 30%
*Includes garlic, grain hay, suda	ngrass, and oth	er hay	Takul Mulaa	2018	\$16,235,000	A 40/
**Corrected			Total Value	2017	\$15,380,000	A 6%

Forest Products

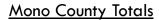
	Year	Total	
The board Fire and	2018	\$86,300	▲ 23%
Timber and Firewood	2017	\$70,100	A 23%
Takul	2018	\$86,300	A 220/
Ισται	Value 2017	\$70,100	▲ 23%

Fruit & Nut Crops

	Value per					
	Year	Unit	Production	Unit	Total	
11. II &	2018	A	1 <i>7</i>	-	\$61,200	A 200/
Miscellaneous*	2017	Acres	18	-	\$61 ,200 \$44 , 200	▲ 39%
ludes grapes (wine), pome f	ruit, and stone	fruit.	Takal Walaa	2018	\$61,200	A 200/
			Total Value	2017	\$61,200 \$44,200	▲ 39%

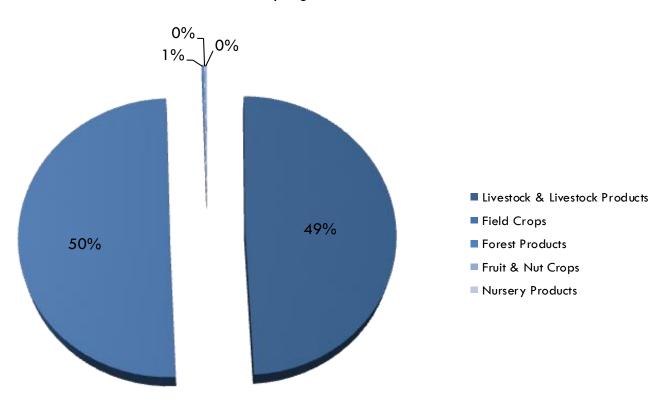
Nursery Products

		Value per				
	Year	Unit	Production	Unit	Total	
N C *	2018	A	1	-	\$20,000	= 0%
Nursery Stock*	2017	Acre	1	-	\$20,000	
* Includes various ornamental pl	ncludes various ornamental plants		T . 13/ 1	2018	\$20,000	– 00/
			Total Value	2017	\$20,000	= 0%



	Year	Total	CIFOR
	2018	\$15,944,000	A 10/
Livestock & Livestock Products	2017	\$15,755,000	1 %
Fills	2018	\$16,235,000	A /0/
Field Crops	2017	\$15,380,000	▲ 6%
Forest Products	2018	\$86,300	▲ 23%
Torest Froducts	2017	\$70,100	A 25 / 0
Fruit & Nut Crops	2018	\$61,200	▲ 39%
Troil & Not Crops	2017	\$44,200	A 37/0
	2018	\$20,000	- 00/
Nursery Products	2017	\$20,000	= 0%
	2018	\$32,347,000	A 40.4
Total Value	2017	\$31,269,000	A 4%

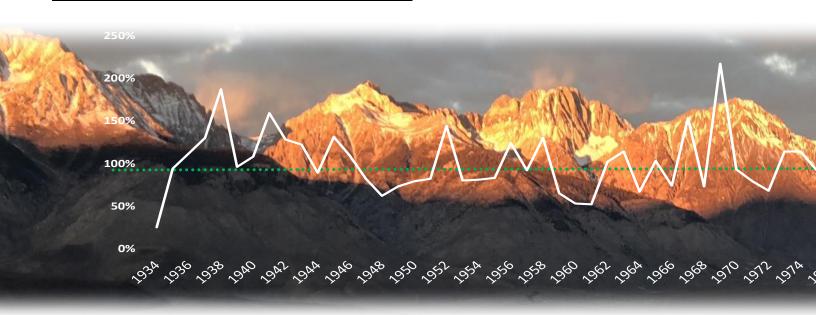
Mono County Agricultural Production



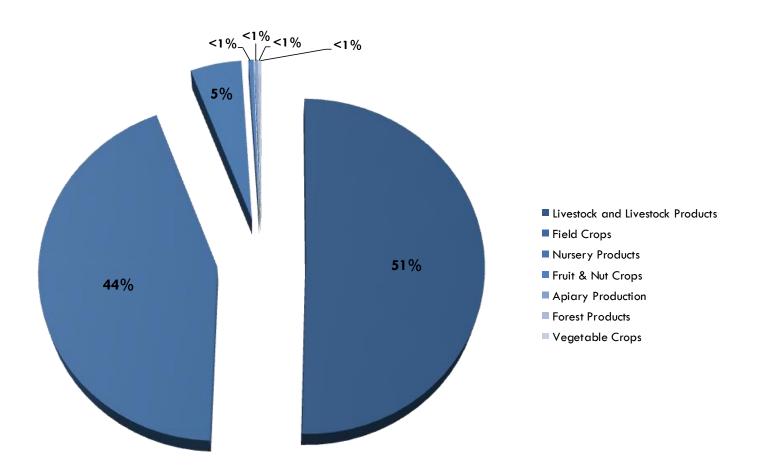
FIVE YEAR COMPARISON

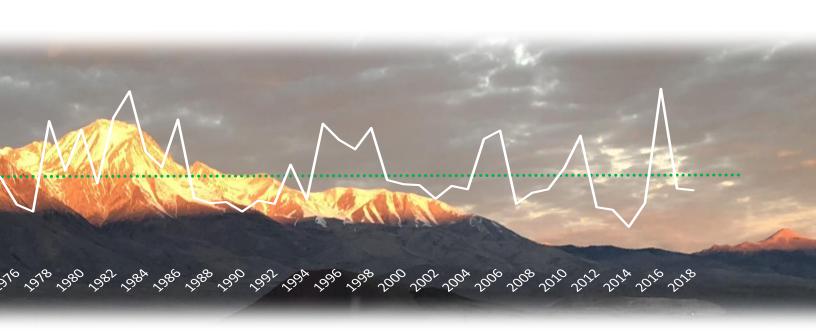
	2014	2015	2016	2017	2018	
Inyo County Totals	\$21,659,000	\$18,511,000	\$16,368,000	\$18,958,000	\$21,499,000	
Mono County Totals	\$36,947,000	\$31,242,000	\$27,787,000	\$31,269,000	\$32,347,000	
Combined Totals	\$58,606,000	\$49,753,000	\$44,155,000	\$50,227,000	\$53,846,000	
\$70,000,000						
\$60,000,000						
\$50,000,000						
\$40,000,000	-		_		■ Inyo	
\$30,000,000			_		Mono	
\$20,000,000	_	_	_		■ Combined	
\$10,000,000			_			

EASTERN SIERRA RUNOFF CHART



Combined Agricultural Production





DIRECT MARKETING

Commodities Grown by Certified Producers

Basil, chives, cilantro, dill, epazote, parsley, rosemary, sage, savory, tarragon, thyme, lemon balm, lavender, lovage, oregano, mint, spinach, watercress, corn, eggplant, tomato, squash, cucumber, peppers, green onions, potatoes, pumpkins, okra, onions, beets, fennel, garlic, artichoke, carrots, radishes, leek, lettuce, broccoli, kale, kohlrabi, chard, bok choy, cabbage, collard, parsnips, shallots, turnip, grapes, apples, peaches, pears, pecans, nectarines, apricots, cherries, plums, pomegranates, pluots, rhubarb, figs, watermelons, cantaloupes, honeydew, raspberries, blackberries, elderberries, currants, peas, sweet peas, various bean varieties, almonds, pistachios, walnuts, cut flowers, and eggs.

SUSTAINABLE AGRICULTURE AND OUTREACH

Invasive Plant Targets					
<u>Pest</u>	Agent/Mechanism	Number of Sites	Gross Acres		
Puncturevine	Biological Control	14 sites	~		
Dalmatian Toadflax	Mechanical	3 sites	250		
Yellow Starthistle	Mechanical/Herbicide	3 sites	12		
Russian Knapweed	Herbicide	3 sites	100		
Canada Thistle	Herbicide	2 sites	20		
Spotted Knapweed	Herbicide	2 sites	3		
Halogeton	Mechanical	5 sites	4,400		
Scotch Thistle	Herbicide	8 sites	1,311		
Camelthorn	Herbicide	1 site	40		
Saltcedar	Herbicide	2 sites	85		
Perennial Pepperweed	Herbicide	53 sites	12,000		

Outreach Program

During 2018, the Inyo/Mono Counties' Agriculture Department conducted:

- 2 SpraySafe events in Inyo and Mono Counties with over 100 professional card holders and private applicators attending, to meet California state continuing education requirements;
- 6 educational workshops for local groups;

The Department's inspection surveillance area, which encompasses over 10,000 square miles, provided outreach from northern Mono County, including several California and Nevada field crop growers located in the Antelope Valley area, to the southern tip of Inyo County, including a large commercial turf grass farm in the Sandy Valley, near Las Vegas, Nevada. The Inyo/Mono Agricultural Commissioner's office is tasked with the surveillance of 50% of the California/Nevada border for pests that could endanger the agricultural industry of California.

WEIGHTS & MEASURES

Device Inspection Program

We are responsible for inspection, certification, or condemnation of all commercially used meters (retail motor fuel, propane/vapor, and electric), scales (aggregate and cement hoppers, vehicle, livestock, computing, platform and spring scales); and any other type of device that is used to weigh or measure to determine a value for the purpose of sales. Enforcement actions can include issuance of citations initiating prosecution of violations. Of the 1,200+ devices inspected, six Notices of Violation were issued. Two consumer complaints were received and investigated by the Inyo/Mono Counties' Weights and Measures Department throughout the year. Regular inspections protect consumers from misrepresentation and maintain fair competition between sellers.

Petroleum Program

We ensure the quality of petroleum products sold within the two Counties including; sampling of fuels, inspection and investigation of complaints. We also oversee all commercial advertisements of such products including price signs and labeling. While conducting these inspections, staff will also check for credit card skimming devices. Several such devices were discovered and removed in 2018.

Package Inspections

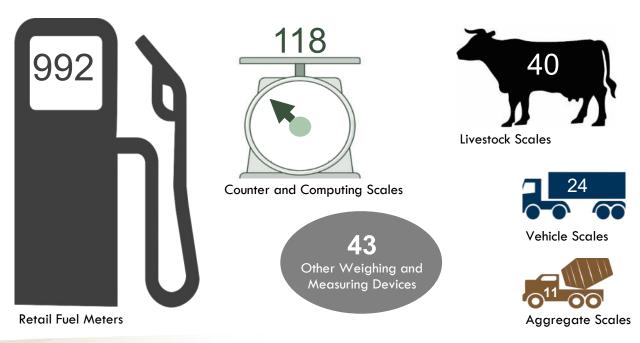
We inspect pre-packaged commodities in retail and wholesale facilities to determine proper weights, count or volume. We also verify proper sales equipment involving scanners, performing test purchases to insure accurate charges.

Weighmaster Enforcement

Weighmaster licenses are issued through our office to persons or entities that sell bulk commodities. Enforcement of weighmaster laws ensures that these transactions are accurate.

Device Repairman Regulation

Anyone who installs or repairs a weighing or measuring device in lnyo or Mono Counties must register with our office and inform our office when work takes place. This ensures that devices are not tampered with and transaction equity.



MOSQUITO ABATEMENT

What is the mosquito control program?

The purpose of the program is to control mosquito populations throughout the Owens Valley from Olancha to Round Valley and in Mammoth Lakes so that these pests and their associated diseases are abated adequately.

Monitoring

The Owens Valley Mosquito Abatement Program (OVMAP) and Mammoth Lakes Mosquito Abatement District (MLMAD) conduct surveillance to determine mosquito populations using several methods. Mosquito traps are deployed in several locations throughout the Owens Valley and in the Town of Mammoth Lakes, and are checked frequently to determine level of adult mosquito populations. Disease monitoring is component of this trapping effort, and insects caught in traps are sent to sample for the presence of certain diseases that mosquitos are known to spread. Complaints are logged and responded to, creating records that can also help with monitoring efforts. At times, staff will travel to areas where complaints are high and record landing rates of mosquitos to further gauge population density.

Biocontrol

Mosquito Fish - The mosquito fish have been one of the most effective non-insecticidal and non-chemical methods of controlling mosquitoes for over eighty years. They breed throughout the summer and new broods are produced at intervals of about six weeks, with 50 to 100 young in a single brood. They are ready to begin the work of destroying mosquito larvae at once. Mosquito fish can eat mosquito larvae as fast as the larvae hatch from eggs, as many as 100 per day. Mosquito fish live 2-3 years and can tolerate a wide range of temperatures.

Larvaciding - Routine larviciding of many hundreds of mosquito sources each week prevent immature mosquito larvae from reaching the flying and biting adult stage. This preferred first option for killing mosquitos is the cheapest and most effective method.

Adulticiding

When larvaciding does not control mosquito populations adequately, OVMAP and MLMAD conduct adulticiding measures to protect our local communities from irritating insect bites and the potential for spreading of disease.

<u>Public Outreach and Cultural/Environmental Control</u>

Outreach to residents about altering or removing conditions that best suit mosquito breeding is another effective tool in the OVMAP/MLMAD toolbox. These controls include proper irrigation practices, pool maintenance, and even making sure small containers or tires stored outside do not fill with stagnant water. Reducing the habitat conducive to mosquito breeding in the very areas where we live is a large step toward fewer itchy bites. Outreach efforts occur throughout the year through personal contact and social media, as well as at community events such as the Tri-County Fair.











The Evolution of California Agricultural Commissioners and Sealers

The California Agricultural Commissioners trace their origins back 139 years. The goal of the Agricultural Commissioners is to protect the State's crops from the ravages of pests both domestic and imported. Then, as now, one of the principle weapons employed was a legal device called a "quarantine", which is derived from the French word "quarante", meaning "forty". The quarantine came about as a detention device, its first use being in the year 1340 when passengers on ships bound for Venice, Italy, were detained on board ship for 40 days. This was considered a long enough period to determine whether or not those passengers carried with them the Black Plague, which was killing many people in Europe in the mid-14th century.

California's first statewide program, which was the beginning of the present Department of Food and Agriculture, began with "An Act For the Promotion of Viticultural Industries of the State" on April 5,1880. It provided for the appointment of a Board of State Viticultural Commissioners whose duties included the study of the grape root rot disease, *Phylloxera*. The Act specified that the University of California was responsible for instruction and experiments - a concept still existing today - giving the University the authority for research and the Department the regulatory functions. The Act provided for seven viticultural districts.

Until the year 1911, the duties of the State Board of Horticulture, the State Commissioner of Horticulture, county boards of horticulture commissioners and the county horticulture commissioners were limited to just a few obligations. These obligations consisted of preventing the introduction into the state of pests from outside its boundaries, prevention of spread of insect pests and plant diseases through the media of nursery stock, fruit boxes, and other containers, and the inspection of nurseries. The years that followed would find the duties not only intensified in the same areas, but expanded into many other aspects of agriculture.

In the beginning the regulatory concern was to protect the California farmer from the depredations of exotic pests. After 1911, these duties were to be expanded to include concerns of the marketplace (standardization), and such cultural aids as assistance to the farmer in weed control and control of rodents and other damaging creatures. Later, they would enlarge to assure the farmer honest weights and measures, and protection from unscrupulous middlemen. Finally, the regulations would blossom into the full relationship of the farmer and the consumer.

Today, the California Department of Food and Agriculture and County Agricultural Commissioners are as busy helping the consumer as they are the farmer. They keep exotic pests away from the farmer's fields by fighting them in city gardens, where they nearly always are found first. By so doing, they are affording city people as much protection as farmers, for these pests generally can wreak as much havoc in the city as in the country. They provide for, and oversee, standardization practices, thus insuring the farmer's good markets for their products and insuring quality for consumers. They promote marketing of goods in a variety of ways, also assuring quality and quantity to consumers. They look after the health of livestock and plants, and the same benefits accrue to the consumer. They insist on measurement standards that also have dual blessings; and they assure the consumer and the farmer protection against the careless use of pesticides, thus affording protection to both people and the environment.

