

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

CONTENTS

- 1 Letter from the Commissioner
- 2 Functions of the Agricultural Commissioner's Office

Agricultural Statistics—Inyo County

- 4 General Information
- 5 Livestock and Livestock Products, Field Crops
- 6 Nursery, Apiary, Fruit & Nut, Vegetable Production
- 7 Inyo County Totals

Agricultural Statistics—Mono County

- 8 General Information
- Livestock and Livestock Products, Field Crops
- 10 Fruit & Nut, Forestry, Nursery Production
- 11 Mono County Totals

Combined Statistics—Inyo and Mono Counties

12 Five Year Comparison, Sierra Nevada Runoff Chart

Department Programs

- 14 Direct Marketing/Sustainable Agriculture/Outreach Program
- 15 Weights and Measures Enforcement
- 16 Owens Valley Mosquito Abatement

17 CACASA History

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COUNTIES OF INYO AND MONO



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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

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Mark Tillemans

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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 lnyo 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	A 7%
Sheep & Lambs*	2018	l la sual	4,410	\$158	\$697,000	V 140/
	2017	Head	4,415	\$187	\$825,400	▼ 16%
	2018	Dozen	3,250	\$4.75	\$1 <i>5</i> ,400	▼14%
Eggs	2017		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%
icludes feeder lamb gain. Includes 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		
Alfailfa I I a	2018	Т	16,200	\$206	\$3,337,000	A 1	6%
Alfalfa Hay	2017	Ton	15,184	\$190	\$2,885,000		0%
Davis and Jackson and	2018	A	14,000	\$66	\$924,000		6%
Pasture, Irrigated	2017	Acre	14,000	\$70	\$980,000	▼ 0%	
Destrue Descriptional	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%
/wiscellaneous ·	2017	-	625	-	\$1,696,000		370
fincludes garlic, grain hay, sudangrass, and other hay		er hay	T . 13/ 1	2018	\$7,247,000	•	/ 0 /
			Total Value	2017	\$6,826,000		6%

Nursery Products

				Value per		
	Year	Unit	Production	Unit	Total	
VI C. 1*	2018		181	-	\$2,582,000	A 100/
Nursery Stock*	2017	Acre	139	-	\$2,582,000 \$1,185,000	▲ 18%
des palms, turf, and miscellaneous 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	I Ia	56,100	\$3.00	\$168,000	V 2.40/
Honey	2017	Lb	88,400	\$2.49	\$219,800	▼ 24%
***	2018		-	-	\$5,400	= 0%
Miscellaneous*	2017	-	-	-	\$5,400	
ncludes beeswax and pollen.			Tatal Value	2018	\$173,000	V 220/
			Total Value	2017	\$225,000	▼ 23%

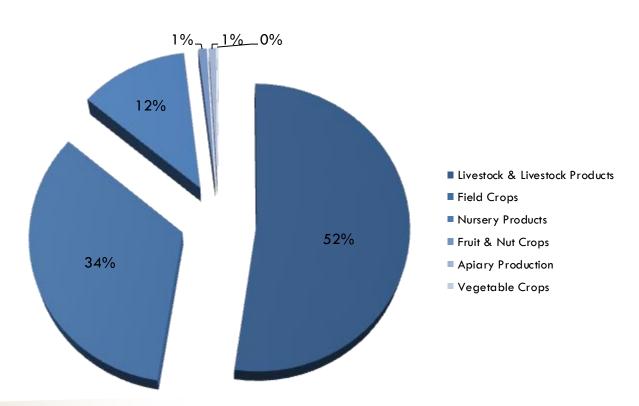
VEGETABLE CROPS

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



	Year	Total	IL IFOR	
	2018	\$11,269,000	4 00/	
Livestock & Livestock Products	2017	\$10,338,000	A 9%	
Etald Crans	2018	\$7,247,000	A 6%	
Field Crops	2017	\$6,826,000	A 0%	
	2018	\$2,582,000	A 100/	
Nursery Products	2017	\$1,185,000	▲ 18%	
Fruit & Nut Crops	2018	\$203,000	▼ 43%	
riuli & Nui Crops	2017	\$358,200	▼ 43 70	
Apiary Production	2018	\$173,000	▼ 23%	
Apidi y i Todociion	2017	\$225,200	V 23/0	
Vegetable Crops	2018	\$25,000	▼ 1%	
vegerable Crops	2017	\$25,200	▼ 170	
Tatal Value	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

County Population:	14,202 (2010 census)	The second	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)		1	
				L. i.
<u>Unincorporated Areas</u>	S. W. W. C.	Land Ownership		to the second
Benton	June Lake	Federal:		84.7%
Bridgeport	Lee Vining	City of Los Angeles:	The second	3.2%
Chalfant Valley	Topaz	State of California:		3.6%
Coleville	Tom's Place	Private:		6.5%
Hammil Valley	Walker		1 × 1	A service
	The second second	THE STATE OF THE S	- Cole	12

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	▼ 17%
	2017	Head	16,705	\$187	\$3,124,000	▼ 1/% ₀
\\/l	2018		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	▼ ∠ 1 %0
Destrue Description	2018		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	Takal Malaa	2018	\$16,235,000	A 40/
**Corrected			Total Value	2017	\$15,380,000	A 6%

Forest Products

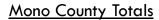
	Year	Total	
The board Fire and	2018	\$86,300	▲ 23%
Timber and Firewood	2017	\$70,100	A 23%
Takul	2018	\$86,300	A 220/
Ισται	Value 2017	\$70,100	▲ 23%

Fruit & Nut Crops

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

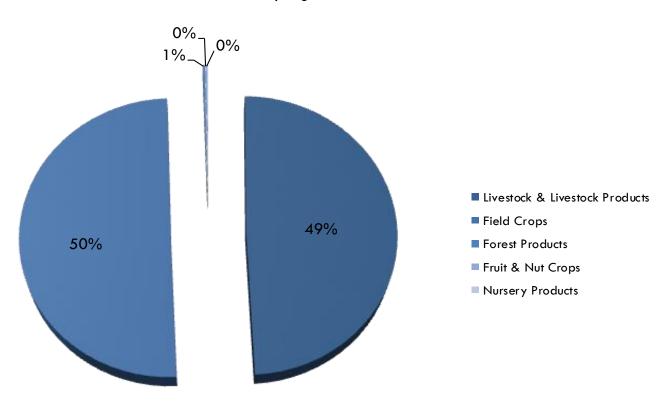
Nursery Products

			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 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%

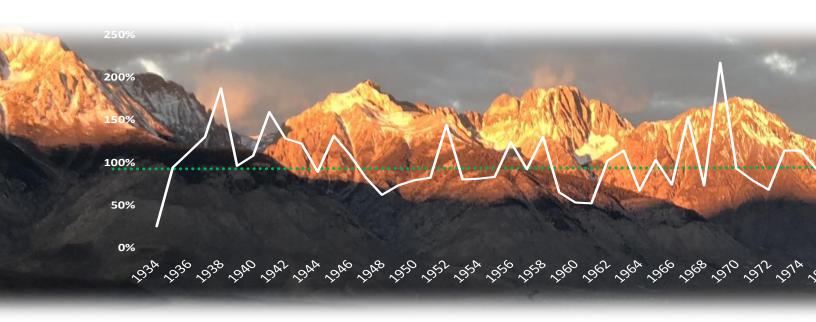
Mono County Agricultural Production



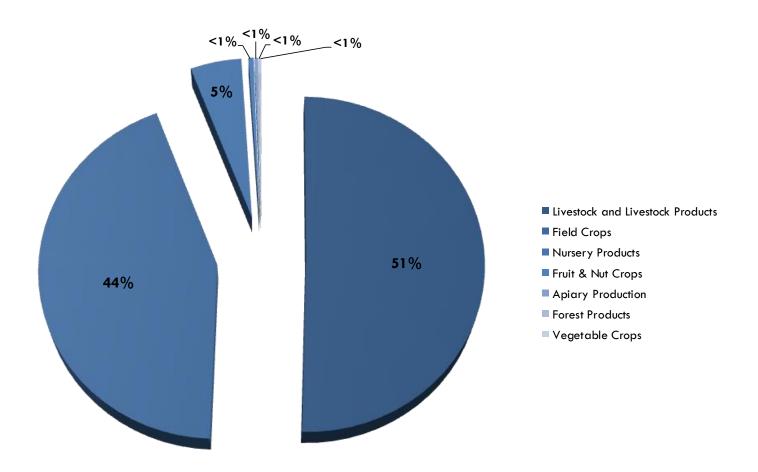
FIVE YEAR COMPARISON

	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■ Combined
\$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

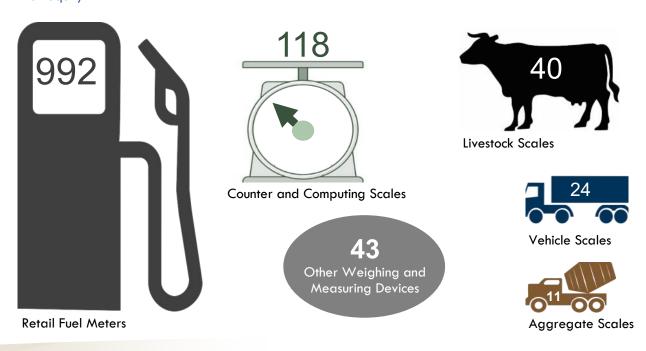
We inspect pre-packaged commodities in retail and wholesale facilities to determine proper weights, count or volume. We also verify proper sales equipment involving scanners, performing test purchases to insure accurate charges.

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.

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 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.

