2014 CROP AND LIVESTOCK REPORT



2014 Crop and Livestock Report

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Certified Farmer's Market/Sierra Nevada

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Eastern Sierra Weed Management Area

Owens Valley Mosquito Abatement Program

Staff:

Agricultural Commissioner / Director of Weights and Measures

Nathan Reade

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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

We protect 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

The Agricultural Commissioner/Sealer of Weights and Measures is responsible for the administration of these programs. Staff also participate in a wide range of special projects intended to benefit Inyo/Mono citizens such as legislative process, public information, education outreach efforts, joint multi-agency and inter-county cooperative activities.

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 facilitates goals also through public outreach and education activities.

WEIGHTS AND MEASURES

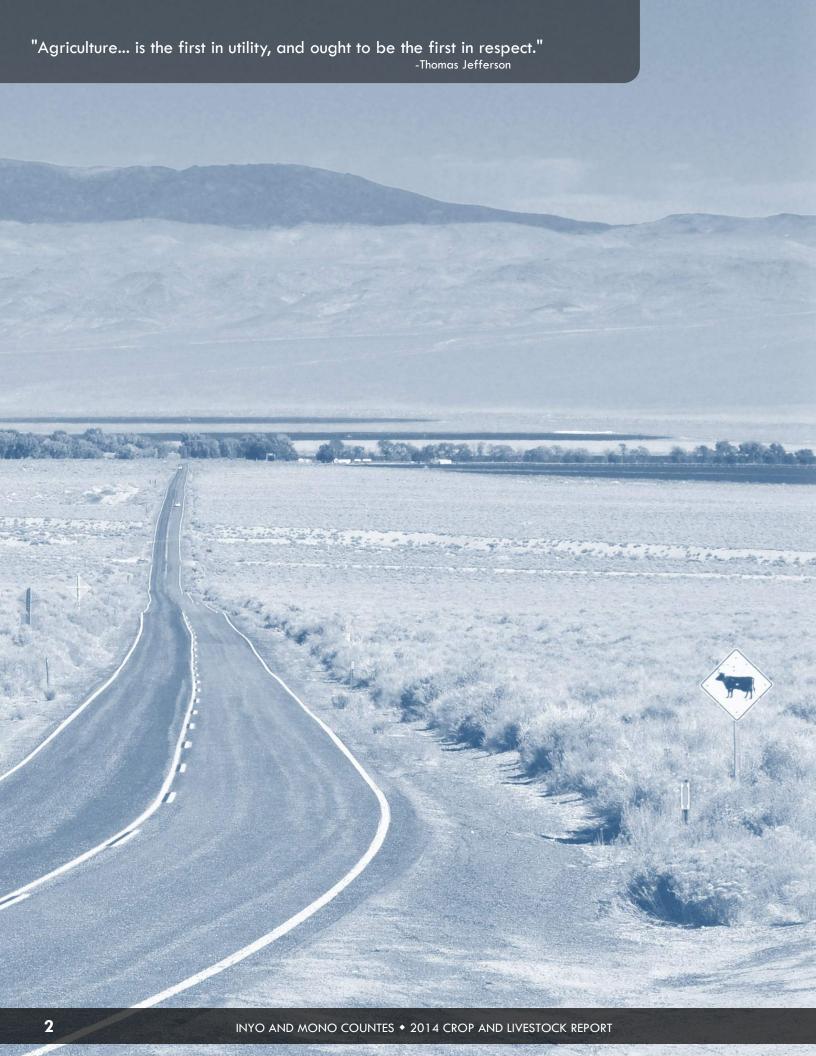
Equity and fairness is the name of the game. A gallon of gasoline, a cord of firewood, a loaf of bread, or a pound of fruits or vegetables...any item purchased is sold by weight, measure, or count. We protect the public from purchasing goods that are short weight or measure, and we protect businesses 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 20 for more information on this division.

OWENS VALLEY MOSQUITO CONTROL 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 21 for more information on this division.





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

Matt Kingsley, Chairman

Tim Fesko, Chairman

Jeff Griffiths

Rick Pucci

Tim Alpers

Stacy Corless

Mark Tillemans

Dan Totheroh

Larry Johnston

Fred Stump

I am pleased to present the 2014 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 2014 totaled \$58,606,000, representing a decrease of nearly 21% from 2013 production values.

Drought conditions continue to significantly impact area agricultural businesses, and are the reason for the majority of decrease in value over last year. Livestock herd reductions began in 2011 with the drought and have continued each year thereafter. Herd sizes are now so small that rising beef prices no longer mask production losses when viewed in terms of dollars. Feeder cattle gain is also in sharp decline due to unavailability of pasture. Field crops continue to suffer as water supply diminishes. This year does not look to be the end of this downward trend as we enter another year with even lower runoff projections.

This report features both wool production as well as fruit and nut statistics for the first time for Inyo and Mono Counties. Additionally, Inyo county is now reporting nursery stock production.

I would like to thank our local agricultural producers and Oliver Hardwick of my staff for providing data and assisting with the compilation of this report.

Sincerely,

Nathan D. Reade

Agricultural Commissioner



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:

14,492 ft. (Mount Whitney)

Lowest Elevation:

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

Unincorporated Areas

Incorporated Cities

Big Pine

Bishop

Cartago

Independence

Lone Pine

Olancha

Pearsonville

INYO COUNTY GENERAL INFORMATION

Shoshone

Тесора

<u>Average Climate</u>

Summer High Winter Low
Bishop: 98° 22°

Death Valley: 115° 37°

Land Ownership

Federal: 92.0%
City of Los Angeles: 3.9%
State of California: 2.4%
Private: 1.7%

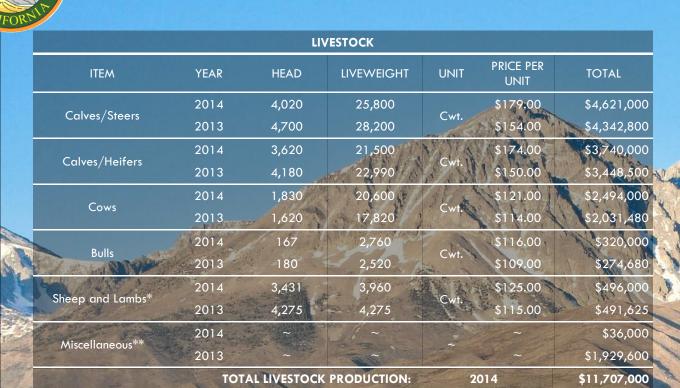




INYO COUNTY

CROP AND LIVESTOCK STATISTICS





^{*}Includes feeder lamb gain.

^{**} includes beef stocker gain, goats, hogs, and poultry.

		TRY	

Later of	ITEM	YEAR	PRODUCTION	UNIT	PRICE PER UNIT	TOTAL
		2014	4,300		\$4.05	\$17,400
BAT THE	Eggs	2013	2,500	Doz.	\$4.00	\$10,000
4	Wool*	2014	21,600	Lbs.	\$135.00	\$29,200
		2013				A LONG

TOTAL LIVESTOCK & POULTRY PRODUCTS:

2014 2013

2013

\$46,600 \$10,000

\$12,518,685

Not previously reported.

ALL FIGURES MAY NOT ADD DUE TO ROUNDING

FRUIT & NUT CROPS										
ITEM	YEAR	BEARING ACRES	YIELD PER ACRE	TOTAL YIELD	UNIT	PRICE PER UNIT	TOTAL			
AA:X	2014	32	~	~	~	~	\$188,000			
Miscellaneous* -	2013	45	~		The same of the sa	~	\$287,000			
ТО	TOTAL FRUIT & NUT CROP PRODUCTION: 2014 \$188.000									

* Includes almonds, apples, apricats, blackberries, cherries, dates, figs, grapes (table), grapes (wine), nectarines, peaches, pears, pecans, persimmons, plums, pomegranates, raspberries, strawberries, and walnuts.

VEGETABLE CROPS

ITEM	YEAR	HARVESTED ACREAGE	YIELD PER ACRE	TOTAL YIELD	UNIT	PRICE PER UNIT	TOTAL
	2014	10			70	~	\$43,600
Miscellaneous* **	2013		71	The Late of the La		The same of the sa	The state of

TOTAL VEGETABLE CROP PRODUCTION: \$43,600 2014 2013

* Not previously reported.

** Includes Includes artichokes, beans, brassicas, carrots, cucumbers, eggplant, garlic, herbs, leafy greens, melons, onions, peppers, pumpkins, radishes, squash, sweet corn, tomatillos, romatoes, and tubers.



	FIELD CROPS										
ITEM	YEAR	HARVESTED ACREAGE	YIELD PER ACRE	TOTAL YIELD	UNIT	PRICE PER UNIT	TOTAL				
Alfalfa Hay	2014	2,420	6.50	15,700	Ton	\$270.00	\$4,237,000				
All all a riay	2013	3,100	6.50	20,150	Ton	\$240.00	\$4,836,000				
Pasture,	2014	14,500	~	~	A	\$70.00	\$1,017,000				
Irrigated	2013	14,500			Acre	\$34.00	\$493,000				
Pasture,	2014	1,172,000	~	~	A	\$1.05	\$1,230,000				
Rangeland	2013	177,800			Acre	\$6.00	\$1,066,800				
Miscellaneous*	2014	807	~	~		~	\$1,010,000				
/viscellaneous ·	2013	1,885					\$2,421,500				
THE RESERVE OF THE PERSON OF T	TOTAL FIELD CROP PRODUCTION: 2014										
				20	013		\$8,817,300				

^{*} Includes garlic, grain hay, sudangrass hay, and other hay.

NURSERY PRODUCTS									
ITEM	YEAR	YEAR ACREAGE TOTAL							
N C. 1*	2014	175	\$1,771,000						
Nursery Stock*	2013	126	\$1,152,598						
TOTA	L NURSERY PRODUCTION	N: 2014	\$1,771,000						
		2013	\$1,152,598						

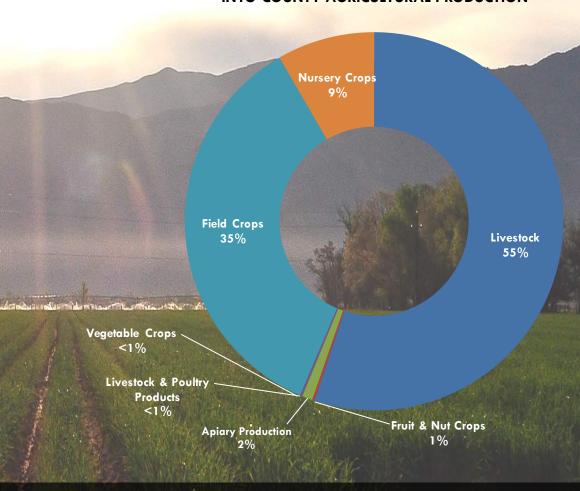
^{*} Includes cacti and succulents, palms, and turf.

APIARY PRODUCTION									
ITEM	YEAR	PRODUCTION	UNIT	PRICE PER UNIT	TOTAL				
Honey	2014	129,000		\$3.00	\$387,000				
	2013	824,850	Lbs.	\$3.47	\$2,862,230				
Miscellaneous*	2014	C participation and a second	a tella	disculation of	\$21,600				
Miscellaneous	2013			~	~				
	TOTAL	APIARY PRODUC	TION:	2014	\$409,000				
				2013	\$2,862,230				

^{*} Includes beeswax and pollen.

INYO COUNTY TOTALS									
	2013	2014							
LIVESTOCK	\$12,518,685	\$11,707,000							
LIVESTOCK & POULTRY PRODUCTS	\$10,000	\$46,600							
FRUIT & NUT CROPS	\$287 , 175	\$188,000							
VEGETABLE CROPS	~	\$43,600							
FIELD CROPS	\$8,817,300	\$7,494,000							
NURSERY CROPS	\$1,152,598	\$1,771,000							
apiary production	\$2,862,230	\$409,000							
TOTALS	\$25,647,988	\$21,659,000							

INYO COUNTY AGRICULTURAL PRODUCTION



Garlic, Big Pine



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:

14,242 ft. (White Mountain)

Unincorporated Areas

Incorporated Cities

Benton

Mammoth Lakes

Bridgeport

Chalfant Valley

Coleville

Hammil Valley

June Lake

Lee Vining

Tom's Place

Topaz

Walker

Average Climate

Summer High

Winter Low

Bridgeport:

MONO COUNTY GENERAL INFORMATION

81°

8°

Chalfant Valley:

98°

22°

Land Ownership

Federal:

84.7%

State of California:

3.6%

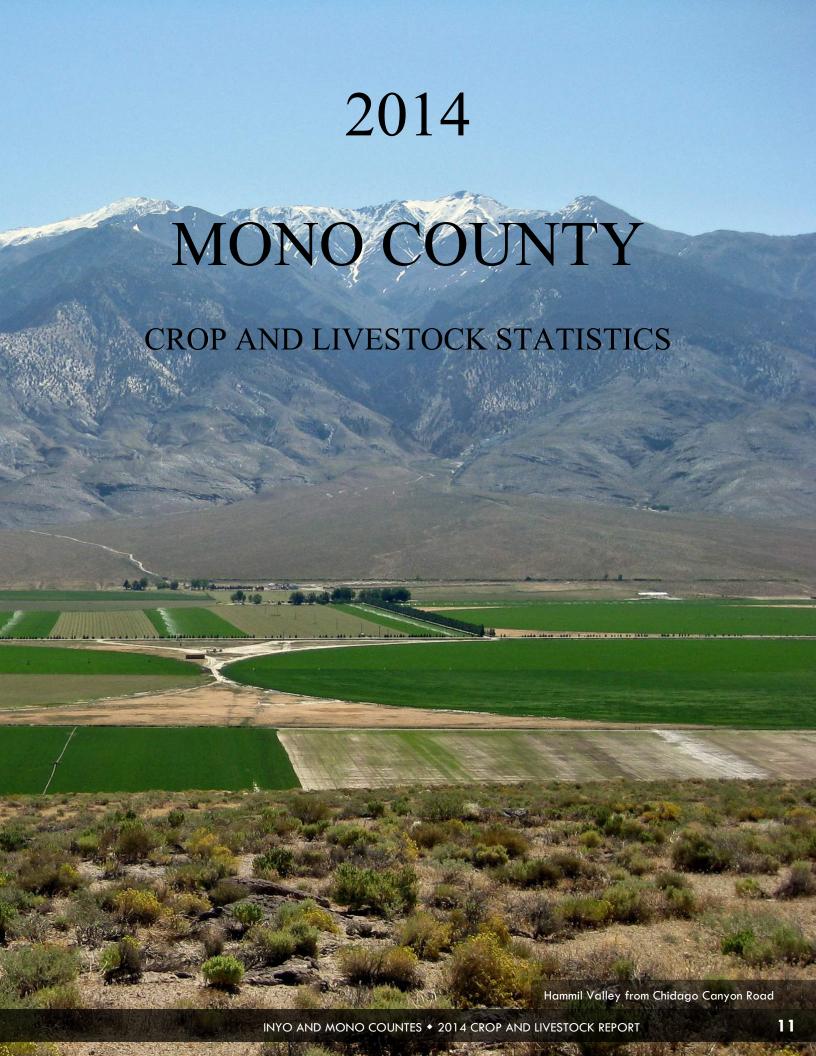
City of Los Angeles:

3.2%

Private:

6.5%







ALL FIGURES MAY NOT ADD DUE TO ROUNDING

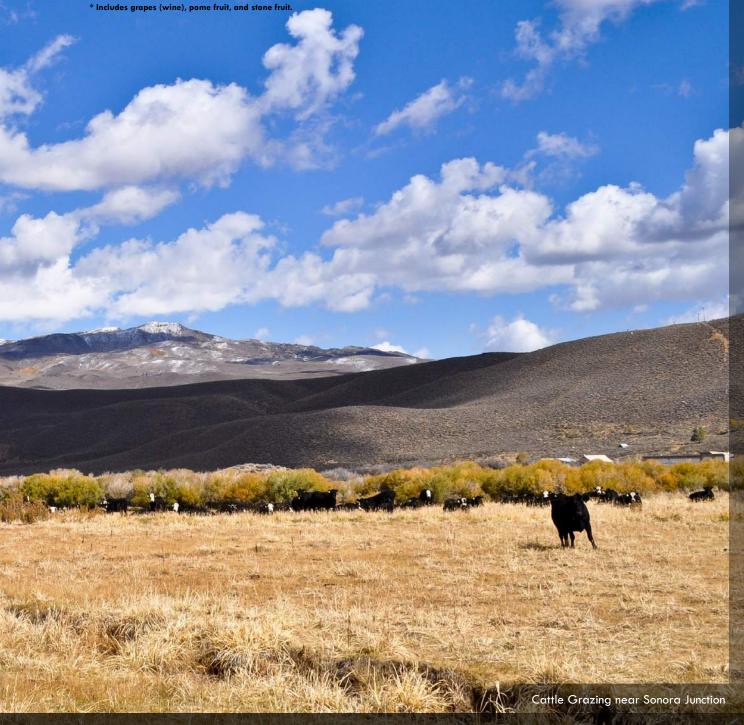
	-	LIVES	TOCK & POULTRY F	RODUCTS	27	
ITEM	-	YEAR	PRODUCTION	UNIT	PRICE PER UNIT	TOTAL
\A/ I*		2014	91,400		\$135.00	\$123,000
Wool*	-	2013	~	Lbs.	~	~
	TOTA	L LIVESTOCK	& POULTRY PRODU	JCTS:	2014	\$123,000
					2013	

^{*} Not previously reported.

^{*} Includes feeder lamb gain. ** includes beef stocker gain, goats, hogs, and poultry.

	FRUIT & NUT CROPS								
ITEM	YEAR	BEARING ACRES	YIELD PER ACRE	TOTAL YIELD	UNIT	PRICE PER UNIT	TOTAL		
AA:aaallamaana*	2014	18	~	~	~	~	\$44,100		
Miscellaneous*	2013	25	~	~		~ 6	\$47,775		
TOTAL FRUIT & NUT CROP PRODUCTION:				201	4	1 3	\$44,100		

2013 \$47,775





FIELD CROPS							
ITEM	YEAR	HARVESTED ACREAGE	YIELD PER ACRE	TOTAL YIELD	UNIT	PRICE PER UNIT	TOTAL
Alfalfa Hay	2014	8,100	6.50	52,700	Ton Acre	\$265.00	\$13,952,000
Airdira nay	2013	10,200	6.50	66,300		\$240.00	\$15,912,000
Pasture,	2014	43,600	~	~	Acre	\$70.00	\$3,049,000
Irrigated	2013	44,550		~		\$40.00	\$1,782,000
Pasture,	2014	1,060,000	~	~	1 18 5	\$1.33	\$1,410,000
Rangeland	2013	68,400			Acre	\$8.00	\$547,200
Miscellaneous*	2014	3,220	~	~	~	~	\$3,938,000
	2013	5,375	~			~	\$6,526,200
TOTAL FIELD CROP PRODUCTION: 2014 \$22,349,000							

^{*} Includes garlic, grain hay, sudangrass hay, other hay, and potato.

ALL FIGURES MAY NOT ADD DUE TO ROUNDING

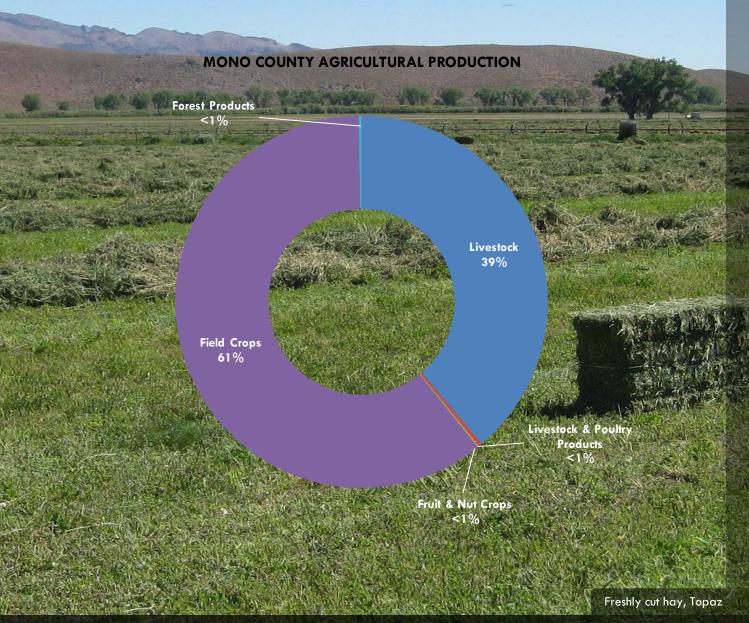
REST		

2013

\$24,767,400

ITEM	YEAR		TOTAL
Till and I find the second	2014		\$87,400
Timber and Firewood	2013	SOLUTION AND THE	\$23,280
TOTAL FOREST PRODUCTS:		2014	\$8 7 ,400
	A STATE OF THE STA	2013	\$23,280

MONO COUNTY TOTALS				
	2013	2014		
LIVESTOCK	\$23,664,970	\$14,343,000		
LIVESTOCK & POULTRY PRODUCTS	~	\$123,000		
FRUIT & NUT CROPS	\$47,775	44,100		
FIELD CROPS	24,767,400	\$22,349,000		
FOREST PRODUCTS	\$23,280	\$8 7, 400		
TOTALS	48,503,425	\$36,947,000		



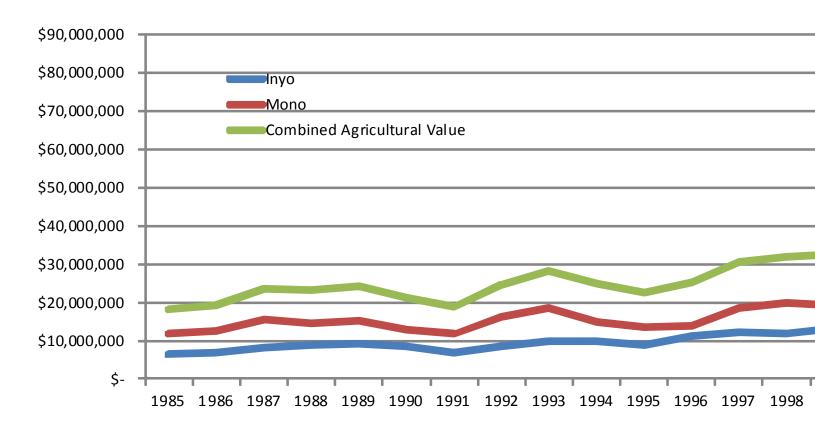


COMPARISON SUMMARY 2010-2014

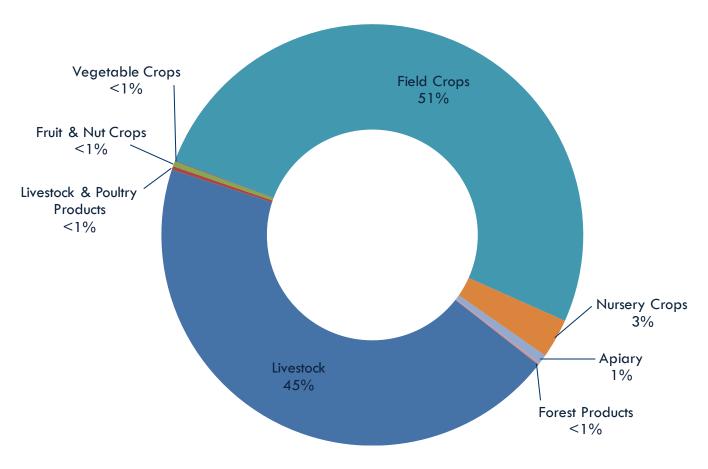


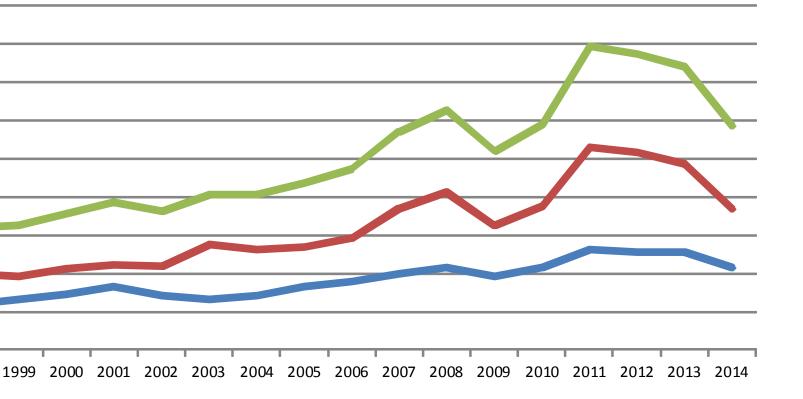
	2010	2011	2012	2013	2014
INYO COUNTY TOTALS	\$21,546,770	\$26,269,556	\$25,693,437	\$25,647,988	\$21,659,000
MONO COUNTY TOTALS	\$37,508,055	\$53,143,406	\$51,587,860	\$48,503,425	\$36,947,000
COMBINED TOTALS	\$59,054,825	\$79,412,962	\$77,281,297	\$74,151,413	\$58,606,000

30 YEAR COMPARISON



COMBINED AGRICULTURAL PRODUCTION





FARMER'S MARKET

CERTIFIED FARMERS MARKETS:

25 growers participated in the 2014 Farmers Markets.

Locations included:

Mammoth Lakes

Bishop

Independence

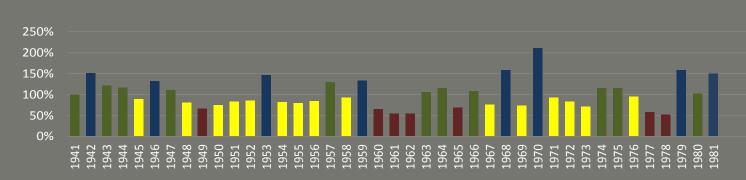
Lone Pine



Commodities sold included:

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.

EASTERN SIERRA RUNOFF CHART



SUSTAINABLE AGRICULTURE AND OUTREACH

INVASIVE PLANT TARGETS

<u>PEST</u>	AGENT/MECHANISM	NUMBER OF SITES	GROSS ACRES
Puncturevine	Biological Control	12 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 2014, the Inyo/Mono Counties' Agriculture Department conducted:

- 2 pesticide safety seminars with 120 professional card holders and private applicators attending, to meet California state continuing education requirements;
- 2 educational workshops for local groups;
- 2 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 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 AND MEASURES

DEVICE INSPECTION PROGRAM

Over 1,250 devices were inspected in 2014 to ensure accuracy within California state tolerances. These devices included:

1,001 retail fuel meters

167 retail scales

44 livestock scales

24 vehicle scales

8 hopper scales

8 misc. measuring devices

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 1,250+ devices inspected, 19 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.

QUALITY 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.



"Weights and measures may be ranked among the necessaries of life to every individual of human society. They enter into the economical arrangements and daily concerns of every family. They are necessary to every occupation of human industry; to the distribution and security of every species of property; to every transaction of trade and commerce; to the labors of the husbandman; to the ingenuity of the artificer; to the studies of the philosopher; to the researches of the antiquarian; to the navigation of the mariner, and the marches of the soldier; to all the exchanges of peace, and all the operations of war. The knowledge of them, as in established use, is among the first elements of education, and is often learned by those who learn nothing else, not even to read and write. This knowledge is riveted in the memory by the habitual application of it to the employments of men throughout life."

John Quincy Adams

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 larvaciding 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.

