2013 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

2013 Crop and Livestock Report

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Letter from the C	ommissioner

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Agriculture and Weights & Measures Departments

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Eastern Sierra Weed Management Area

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Owens Valley Mosquito Abatement Program

Staff:

Agricultural Commissioner / Director of Weights and Measures

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Manager / Owens Valley Mosquito Abatement Program
Chris Wickham

Mosquito Control Technicians

Walter Davison Casey Freeman Bruce Mack Robert Miller

Front Cover: Date Palms at China Ranch, Tecopa, CA Left: Dates drying after harvest, China Ranch, Tecopa, CA

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:

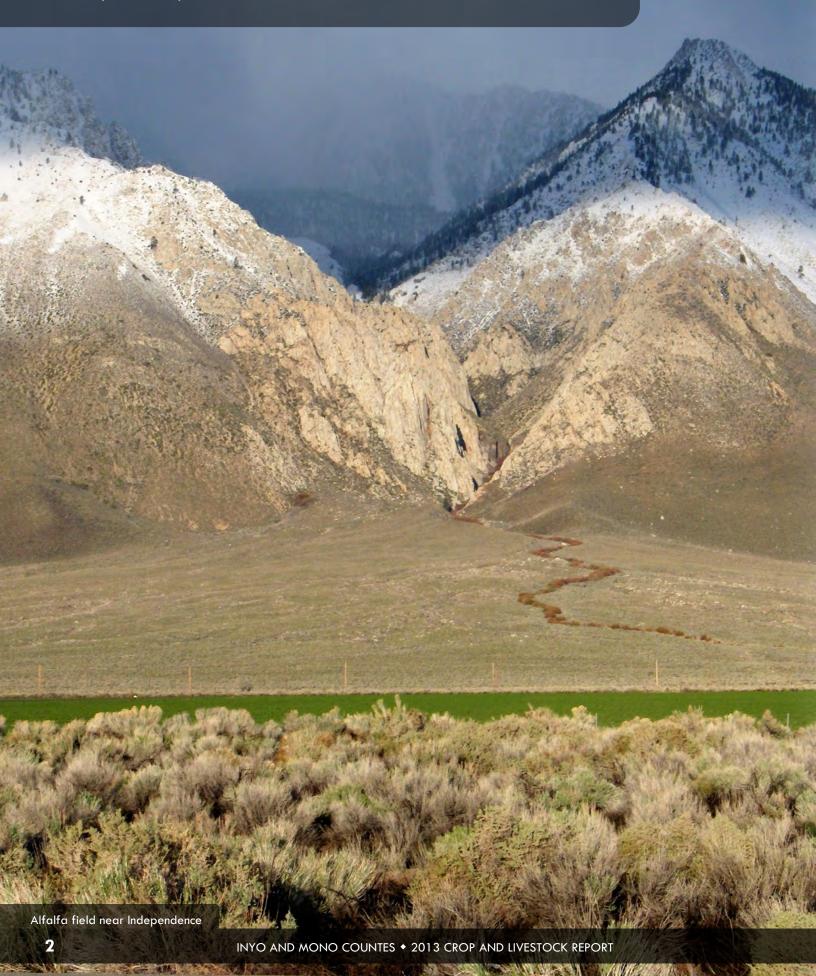
- Weight Verification
- Measurement Verification
- Petroleum
- Transaction Verification
- Electronic Meters
- Compressed Gas Meters
- Weighmaster
- Device Repairmen Regulation

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.

"And it never failed that during the dry years the people forgot about the rich years, and during the wet years they lost all memory of the dry years. It was always that way." - John Steinbeck, East of Eden





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

Rick Pucci, Chairman

Larry Johnston, Chairman

Linda Arcularius

Jeff Griffiths

Tim Alpers

Tim Fesko

Matt Kingsley

Mark Tillemans

Byng Hunt

Fred Stump

I am pleased to present the 2013 Inyo and Mono Counties' Annual Crop and Livestock Report. The 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 2013 totaled \$74,151,413, representing a decrease of 4% from 2012 production values. This decrease in value is wholly due to continuing drought conditions, which entered a second year during the 2013 growing season. Low runoff conditions affect every local agricultural producer, and this precipitation and snowpack trend continues to be a concern as we move into the 2014 growing season.

High beef and alfalfa pricing through 2013 minimized potential production value losses during 2013. These two commodities represent our two largest local industry segments. Concern exists that the repercussions of several consecutive drought years have not yet been felt due to higher pricing, and that herd reduction in particular will lead to sluggish recovery when better precipitation conditions return.

Despite adverse precipitation and runoff conditions, agriculture continues to provide the second largest contribution to our local economy. For the first time this report features poultry products and row crop statistics for Inyo County. I would like to thank our local agricultural producers and my staff for providing data and assisting with the compilation of this report.

Sincerely,

Nathan D. Reade
Agricultural Commissioner



OF THE PORTING

County Seat:

y 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

Big Pine

Cartago

Independence

Lone Pine

Olancha

Pearsonville

Shoshone

Tecopa

Incorporated Cities

Bishop

<u>Average Climate</u>

Summer High Winter Low

Bishop: 98° 22°

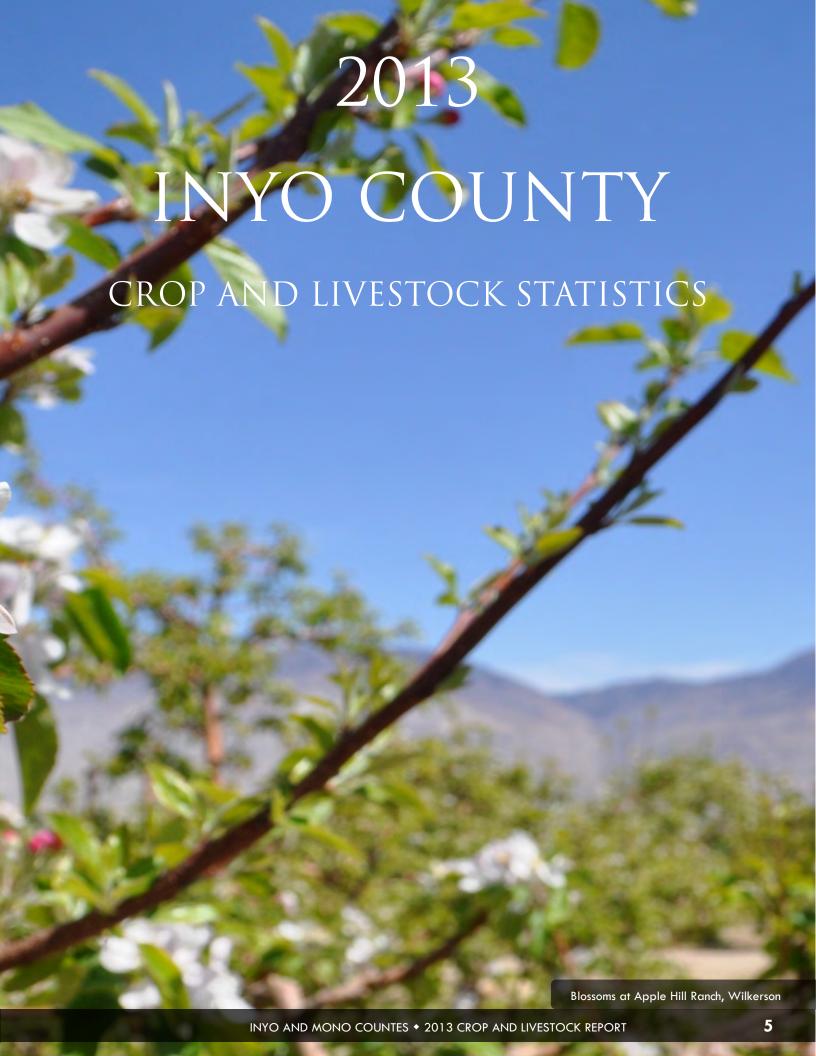
Death Valley: 115° 37°

Land Ownership

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

Private: 1.7%







	LIVESTOCK					
ITEM	YEAR	HEAD	LIVEWEIGHT	UNIT	PRICE PER UNIT	TOTAL
Calves/Steers	2013	4,700	28,200	Cwt.	\$154.00	\$4,342,800
Calves/ Sieers	2012	5,220	31,320	Cwt.	\$144.00	\$4,510,080
Calves/Heifers	2013	4,180	22,990	6 .	\$150.00	\$3,448,500
Caives/ Heirers	2012	4,640	25,520	Cwt.	\$140.00 \$3,57 \$114.00 \$2,03 \$107.00 \$2,11	\$3,572,800
Cows	2013	1,620	1 <i>7,</i> 820	Cwt.	\$114.00	\$2,031,480
Cows	2012	1,800	19,800	Cwt.	\$107.00	\$2,118,600
Bulls	2013	180	2,520	Cwt.	\$109.00	\$274,680
DUIIS	2012	205	2,870		\$102.00	\$292,740
Stockers (gain)	2013	4,450	~		~	\$1,929,600
Stockers (gain)	2012	4,950	~ // 5	~	~	\$2,251,200
Sheep and Lambs	2013	4,275	4,275	C	\$115.00	\$491,625
Sneep and Lambs	2012	4,500	4,500	Cwt.	\$165.00	\$742,500
TOTAL LIVESTOCK PRODUCTION:				20	013	\$12,518,685
				20	012	\$13,487,920

		POULTRY PRODUC	CTS		
ITEM	YEAR	PRODUCTION	UNIT	PRICE PER UNIT	TOTAL
	2013	2,500		\$4.00	\$10,000
Eggs	2012	~	Doz.	~	
	тот	AL POULTRY PRODU	ICTS:	2013	\$10,000
SOUND MARKET		2000	A	2012	\$0

			FIELD CR	OPS			
ITEM	YEAR	HARVESTED ACREAGE	YIELD PER ACRE	TOTAL YIELD	UNIT	PRICE PER UNIT	TOTAL
AIC-IC-II-	2013	3,100	6.50	20,150	T	\$240.00	\$4,836,000
Alfalfa Hay	2012	3,260	6.50	21,190	Ton	\$235.00	\$4,979,650
Miscellaneous	2013	1,725	4.00	6,900	Ton	\$235.00	\$1,621,500
Field Crops	2012	1,725	4.00	6,900	Ion	\$230.00	\$1,587,000
Irrigated	2013	14,500	~	~	A	\$34.00	\$493,000
Pasture	2012	15,300			Acre	\$31.00	\$474,300
Dry Grazing	2013	177,800	~	~	٨٥٧٥	\$6.00	\$1,066,800
	2012	187,200	~		— Acre	\$5.50	\$1,029,600
16 B	тот	AL FIELD CROP	PRODUCTION		2013	1888	\$8,017,300
LINE CAR	SECTION SECTION	4 9 1 1 1 1 1	4 4 4 5 5 6 7	A STATE OF THE PARTY OF THE PAR	2010	THE VALUE	¢0.070.FF0





ROW CROP PRODUCTION

ITEM	YEAR	ACREAGE	TOTAL YIELD	TOTAL
Datata	2013	160	~	\$800,000
Potatoes	2012	0	~	\$0
	TOTAL	ROW CROP PRODUCTION	2013	\$800,000
			2012	. \$0

MISCELLANEOUS CROP PRODUCTION

ITEM	YEAR	HARVESTED ACREAGE	TOTAL YIELD	TOTAL
Turf	2013	126	~	\$1,152,598
TOTT	2012	116	~	\$1,010,592
Dates and other	2013	45	97,500	\$28 7, 1 <i>75</i>
misc. Fruits	2012	43	89,500	\$25 4, 950
	TOTAL MISCELL	ANEOUS CROP PRODUCTION	2013	\$1,439,773
			2012	\$1,265,542

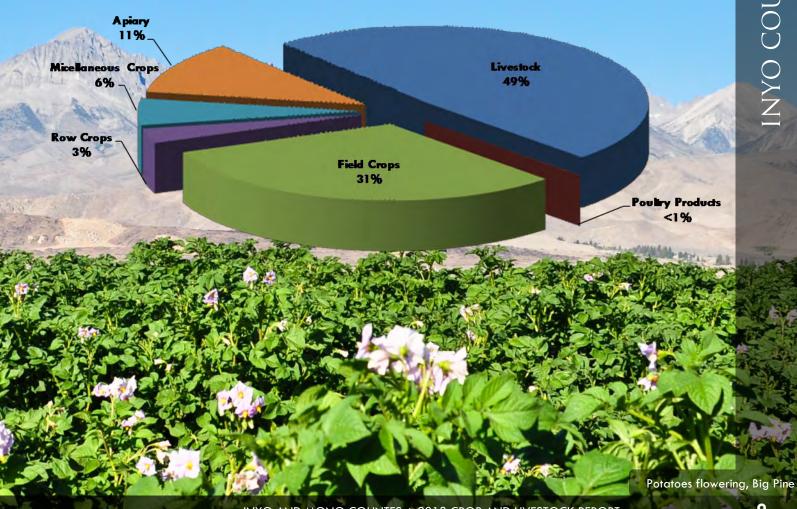
APIARY PRODUCTION

2/2		TOTAL APIARY PR	ODUCTION	2013	\$2,862,230 \$2,869,425
Honey	2012	877,500	LDS.	\$3.27	\$2,869,425
Шатал	2013	824,850	Lbs.	\$3.47	\$2,862,230
ITEM	YEAR	PRODUCTION	UNIT	PRICE PER UNIT	TOTAL

INYO COUNTY TOTALS

	2012	2013
LIVESTOCK	\$13,487,920	\$12,518,685
POULTRY PRODUCTS	~	\$10,000
FIELD CROPS	\$8,070,550	\$8,017,300
ROW CROPS	~	\$800,000
MISCELLANEOUS CROPS	\$1,265,542	\$1,439,773
APIARY	\$2,869,425	\$2,862,230
TOTALS	2013	\$25,647,988
	2012	\$25,693,437

2013 INYO COUNTY AGRICULTURE PRODUCTION





GENERAL INFORMATI

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

Walker

<u>Average Climate</u>

Summer High Bridgeport: 81°

Chalfant Valley:

98°

22°

Land Ownership

Federal:

84.7%

State of California:

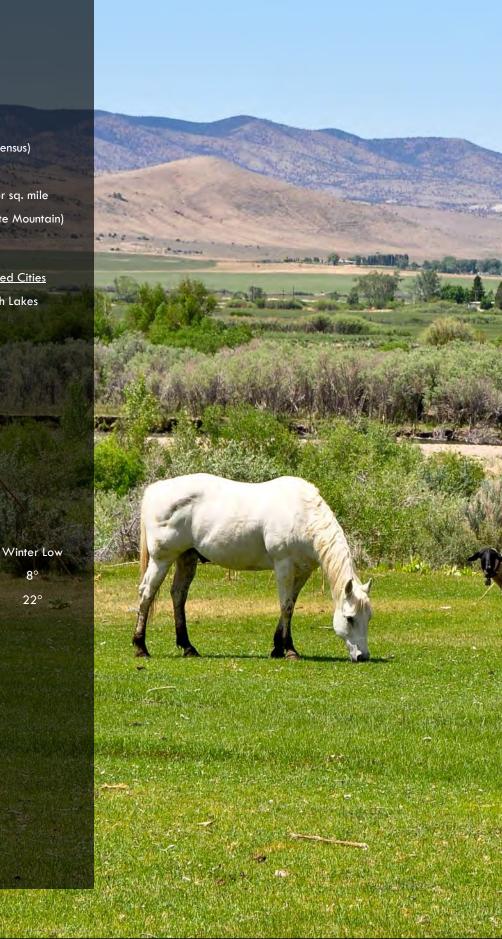
3.6%

City of Los Angeles:

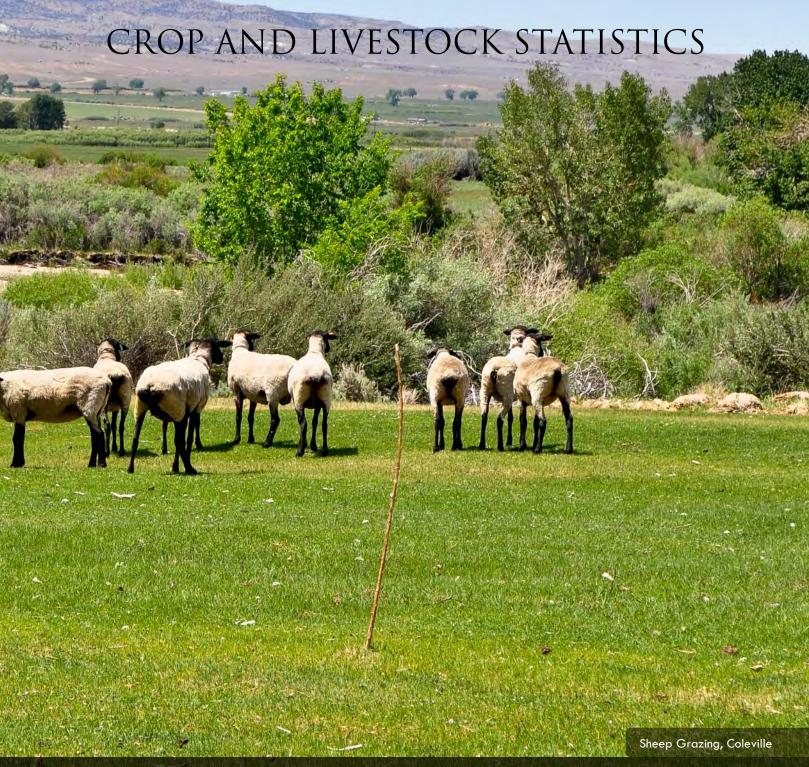
3.2%

Private:

6.5%



2013 MONO COUNTY





LIVESTOCK

ITEM	YEAR	HEAD	LIVEWEIGHT	UNIT	PRICE PER UNIT	TOTAL
Calvas /Stansa	2013	6,480	38,880	<u> </u>	\$154.00	\$ <i>5</i> ,987,520
Calves/Steers	2012	7,200	43,200	Cwt.	\$144.00	\$6,220,800
Calves/Heifers	2013	5,500	30,250	6.1	\$150.00	\$4,537,500
Caives/ neiters	2012	6,120	33,660	Cwt.	\$140.00	\$4,712,400
Comm	2013	2,230	24,530	.	\$114.00	\$2,796,420
Cows	2012	2,480	27,280	Cwt.	\$107.00	\$2,918,960
D. II.	2013	250	3,500	6 .	\$109.00	\$381,500
Bulls	2012	275	3,850	Cwt.	\$102.00	\$392,700
C: 1 / · · ›	2013	12,150	~		~	\$7,897,200
Stockers (gain)	2012	20,250	~	~	~	\$9,213,400
Character and Land	2013	17,955	1 7, 955	6	\$115.00	\$2,064,830
Sheep and Lambs	2012	18,900	18,900	Cwt.	\$165.00	\$3,118,500
		TOTAL LIVEST	OCK PRODUCTIO	N:	2013	\$23,664,970
					2012	\$26,576,760



FIELD CROPS

ITEM	YEAR	HARVESTED ACREAGE	YIELD PER ACRE	TOTAL YIELD	UNIT	PRICE PER UNIT	TOTAL
A 16 16 1 1	2013	10,200	6.50	66,300	Ton	\$240.00	\$1 <i>5</i> ,912,000
Alfalfa Hay	2012	10,520	6.50	68,380		\$235.00	\$16,069,300
Miscellaneous	2013	4,980	4.00	19,920	Ton	\$235.00	\$4,681,200
Hay	2012	4,980	4.00	19,920		\$230.00	\$4,581,600
Irrigated	2013	44,550	~	~		\$40.00	\$1,782,000
Danatarina	2012	49,500	~	~	Acre	\$37.00	\$1,831,500
Dry Grazing	2013	68,400	~	~	-	\$8.00	\$547,200
	2012	72,000	~	- N - Contract	Acre	\$7.25	\$522,000

TOTAL FIELD CROP PRODUCTION:

2013 \$22,922,400

2012 \$23,004,400



ROW CROP PRODUCTION

THE RESERVE	of the State of th	A STATE OF THE STATE OF		ALC: A STATE OF
ITEM	YEAR	ACREAGE	TOTAL YIELD	TOTAL
C!:-	2013	250	~	\$1,120,000
Garlic	2012	230	~	\$993,600
Detectors	2013	145	~	\$725,000
Potatoes	2012	220	~	\$935,000
	TOTAL ROW CRO	P PRODUCTION:	2013	\$1,845,000
			2012	\$1,928,600

FRUIT CROP PRODUCTION

ITEM	YEAR	ACREAGE	YIELD PER ACRE	UNIT	PRICE PER UNIT	TOTAL
\\/: C	2013	25	3.00	Ton	\$637.00	\$47 , 775
Wine Grapes	2012	25	3.00	ion	\$650.00	\$48,750
	TOTAL FR	UIT CROP PRO	DUCTION:	2013		\$47,775
				2012		\$48,750

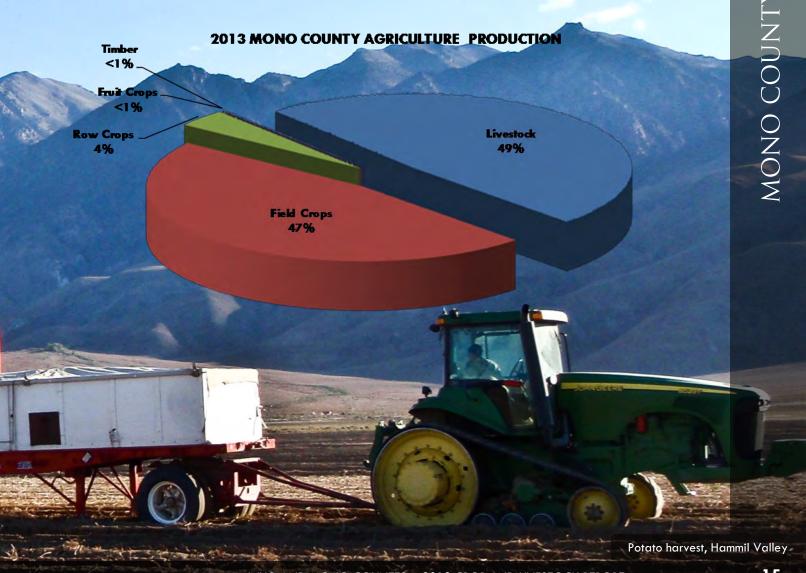
TIMBER PRODUCTION

ITEM	YEAR	TOTAL	
T*	2013		\$23,280
Timber/Firewood	2012		\$29,350
	TOTAL TIMBER PRODUCTION:	2013	\$23,280
		2012	\$29,350



MONO COUNTY TOTALS

	2012	2013
LIVESTOCK	\$26,576,760	\$23,664,970
FIELD CROPS	\$23,004,400	\$22,922,400
ROW CROPS	\$1,928,600	\$1,845,000
FRUIT CROPS	\$48,750	\$47,775
TIMBER	\$29,350	\$23,280
TOTAL	\$51,587,860	\$48,503,425



COMPARISON SUMMARY

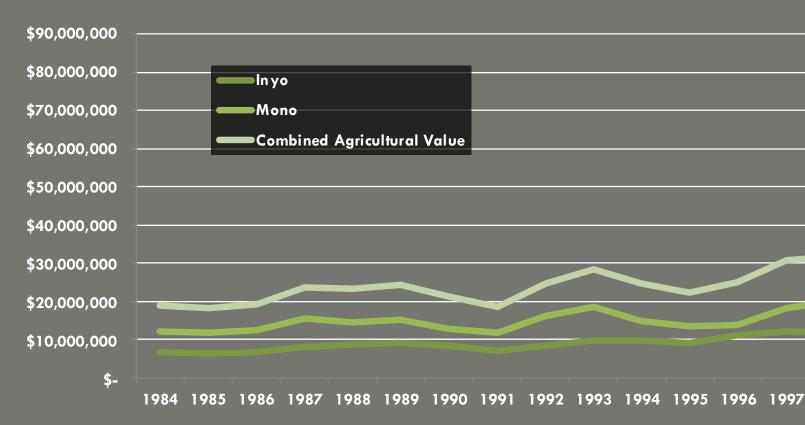


COMPARISON SUMMARY 2009-2013

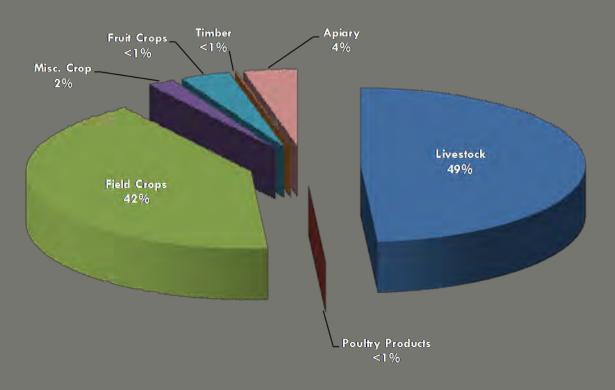


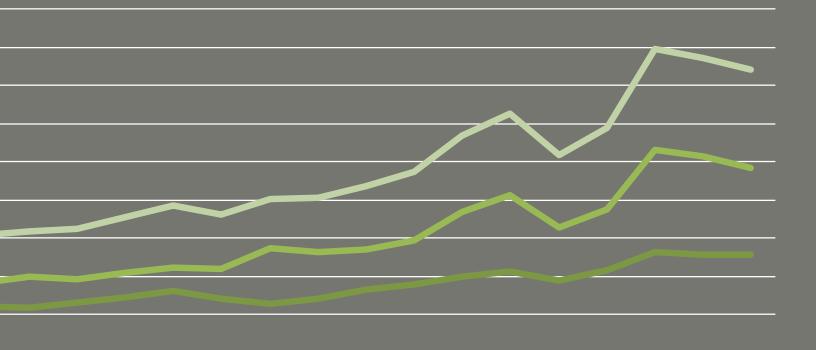
	2009	2010	2011	2012	2013
INYO COUNTY TOTALS	\$19,127,350	\$21,546,770	\$26,269,556	\$25,693,437	\$25,647,988
MONO COUNTY TOTALS	\$32,697,305	\$37,508,0 <i>55</i>	\$53,143,406	\$51,587,860	\$48,503,425
COMBINED TOTALS	\$51,824,655	\$59,054,825	\$79,412,962	\$ <i>77</i> ,281,297	\$ <i>74</i> ,1 <i>5</i> 1,413

30 YEAR COMPARISON



COMBINED AGRICULTURE PRODUCTION





1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013

FARMER'S MARKET AND OUTREACH







EASTERN SIERRA CERTIFIED FARMERS MARKET:

16 growers participated in the 2013 Farmers Markets. 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.

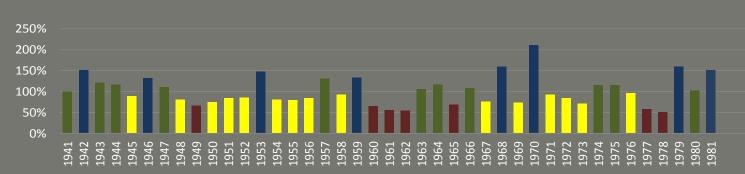
OUTREACH PROGRAM

During 2013, the Inyo/Mono Counties' Agriculture Department sponsored:

- 2 pesticide safety seminars with 125 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.

EASTERN SIERRA RUNOFF CHART



SUSTAINABLE AGRICULTURE

INVASIVE PLANT TARGETS

<u>PEST</u>	<u>AGENT/MECHANISM</u>	<u>NUMBER OF SITES</u>	GROSS ACRES
Puncturevine	Biological Control	5 sites	
Dalmatian Toadflax	Mechanical	1 site	220
Yellow Starthistle	Mechanical	1 sites	10
Russian Knapweed	Herbicide	3 sites	100
Canada Thistle	Herbicide	8 sites	400
Spotted Knapweed	Herbicide	4 sites	4
Halogeton	Mechanical	19 sites	4,400
Scotch Thistle	Herbicide	8 sites	1,311
Camelthorn	Herbicide	1 site	40
Saltcedar	Biological Control	3 sites	
Saltcedar	Herbicide	100 sites	
Perennial Pepperweed	Herbicide	53 sites	12,000

PEST EXCLUSION

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

5000+ Shipments Inspected



WEIGHTS AND MEASURES









DEVICE INSPECTION PROGRAM

Over 1,400 devices were inspected in 2013 to ensure accuracy within California state tolerances. These devices included:

- 1,022 retain fuel meters:
- 176 retail scales;
- 44 livestock scales;
- 19 vehicle scales;
- 10 hopper scales;
- 6,525 vapor and electric meters (10 year cycle).

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 1,400+ devices inspected, 5 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 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.

"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.



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

