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California Department of Food and Agriculture

Agricultural Commissioners' Crop Reports

Inyo-Mono Counties

2010-2014

Counties of Inyo and Mono Agricultural Commissioner's Office

2010 Crop and Livestock Report



Inyo and Mono Counties Agricultural Commissioner's Office

2010 Crop and Livestock Report

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Agriculture and Weights and Measures Departments

♦ Eastern Sierra Weed Management Area

♦ Owens Valley Mosquito Abatement Program

Staff:

Agricultural Commissioner / Director of Weights and Measures
George L. Milovich

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Walter Davison
Casey Freeman
Bruce Mack
David Miller
Robert Miller

This and previous year's crop reports can also be viewed online at:
<http://www.inyomonoagriculture.com/page5.html>



Front Cover: Cattle grazing at Pickel Meadows, Mono County



Counties of Inyo & Mono



George L. Milovich
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April 29, 2011

TO: Karen Ross, Secretary California Department of Food and Agriculture
And The Honorable Board of Supervisors:

County of Inyo

Linda Arcularius
Susan Cash
Richard Cervantes
Marty Fortney
Rick Pucci

County of Mono

Tim Hanson
D. "Hap" Hazard
Byng Hunt
Larry Johnson
Vikki Magee-Bauer

It is my pleasure to present the 2010 Agricultural Crop and Livestock Report. This report is a compilation of crop production and estimated values of commodities grown in Inyo and Mono Counties.

The combined Counties' agricultural production for 2010 totaled \$59,054,825. This figure represents an increase of 14% from 2009. A slow recovery of dairy prices resulting in alfalfa demand, and a beef market that remained stable, contributed to the rebound in production values.

Newly listed as an agricultural commodity in this 2010 crop report are wine grapes. This fledgling industry includes 30 acres in Mono County.

Agriculture continues as one of the integral parts of Inyo and Mono Counties' economy. Values represented here are gross agricultural values only and are submitted in accordance with Section 2279 of the California Food and Agriculture Code.

Agriculture is still one of the most important industries to the state of California and Inyo and Mono Counties. Every civilization dating back to ancient Greece was unable to endure following a demise of their agricultural production.

My appreciation goes out to the growers, ranchers and agencies that provided data and to Nathan and Jennifer for their support in assembling this report.

Sincerely,

A handwritten signature in black ink, reading "George L. Milovich".

George L. Milovich
Agricultural Commissioner

INYO and MONO COUNTIES 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 utilized 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. 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

Other special, mandated services acted upon by our department include:

- * Apiary Inspection * Crop Statistics * Sustainable Agriculture *

WEIGHTS AND MEASURES

Equity and fairness is the name of the game. Gasoline, firewood, a loaf of bread, or fruits and 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 correctly scanned 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 *

EASTERN SIERRA WEED MANAGEMENT AREA

This division consists of federal, state, county, and local agencies and entities of which the Agricultural Commissioner is the administrator. The Eastern Sierra Weed Management Area is dedicated to range management of the Eastern Sierras and the detection, eradication, and management of noxious, non-native weed species.

OWENS VALLEY MOSQUITO CONTROL PROGRAM

The overall purpose of this program is to provide the public with a consistent level of mosquito control that directly reduces the threat of disease transmission and the spread of large nuisance populations of mosquitoes.

, public information, education outreach efforts, joint multi-agencies cooperation and inter-county agencies activities.

ADMINISTRATIVE AND EDUCATION OUTREACH

The Agricultural Commissioner/Sealer of Weights and Measures is responsible for the administration of these programs. Staff also participates in a wide range of special projects intended to benefit Inyo/Mono citizens such as legislative process

THE EVOLUTION OF AGRICULTURE and WEIGHTS AND MEASURES

The California Agricultural Commissioners trace their origins back 130 years; their goal is protection of 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 derives 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 start 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. They had to do with 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.

2011 is the 130th anniversary of the California Agricultural Commissioner and Sealer Association.





Inyo County General Information

County Seat	Independence
County Population (2000 census)	17,945
Land Area (square miles)	10,142
Persons per Square Mile	1.77
Highest Elevation (Mount Whitney)	14,492 feet
Lowest Elevation (Badwater, Death Valley National Park)	282 feet below sea level
Land in Federal Ownership	92.0%
Land in State Ownership	2.4%
Land in City of Los Angeles Ownership	3.9%
Land in Private Ownership	1.7%

Incorporated Cities/Towns: Bishop

Unincorporated Areas:

Big Pine
Cartago
Independence
Lone Pine
Olancho
Pearsonville
Shoshone
Tecopa

Average Climate:

Bishop:

Summer High—98°
Winter Low—22°

Death Valley:

Summer High—115°
Winter Low—37°

"Weights and measures may be ranked among the necessities 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

Mono County General Information



County Seat	Bridgeport
County Population (2000 census)	12,853
Land Area (square miles)	3,044
Persons per Square Mile	4.22
Highest Elevation (White Mountain)	14,242 feet
Land in Federal Ownership	84.7%
Land in State Ownership	3.6%
Land in City of Los Angeles Ownership	3.2%
Land in Private Ownership	7.8%

Incorporated Cities/Towns:

Mammoth Lakes

Unincorporated Areas:

Benton
Bridgeport
Chalfant Valley
Coleville
Hammil Valley
June Lake
Lee Vining
Tom's Place
Walker

Average Climate:

Bridgeport:

Summer High—81°
Winter Low—8°

Chalfant Valley:

Summer High—98°
Winter Low—22°



Livestock

INYO COUNTY

LIVESTOCK

ITEM	YEAR	HEAD	LIVEWEIGHT	UNIT	PRICE PER UNIT	TOTAL
Calves/Steers	2010	5,650	33,960	Cwt.	\$116.00	\$3,939,360
	2009	5,650	33,960		\$100.00	\$3,396,000
Heifers	2010	5,050	29,040	Cwt.	\$112.00	\$3,252,480
	2009	5,050	29,040		\$98.00	\$2,845,920
Cows	2010	2,470	27,170	Cwt.	\$81.00	\$2,200,770
	2009	2,470	27,170		\$60.00	\$1,630,200
Bulls	2010	220	3,080	Cwt.	\$72.00	\$221,760
	2009	220	2,970		\$55.00	\$163,350
Stockers (gain)	2010	5,000	~	~	~	\$1,820,000
	2009	4,540	~		~	\$1,461,880
Sheep and Lambs	2010	5,000	5,000	Cwt.	\$140.00	\$700,000
	2009	5,000	5,000		\$100.00	\$500,000

TOTAL LIVESTOCK: **2010** **\$12,134,370**
 2009 **\$ 9,997,350**



Field Crops

FIELD CROPS							
ITEM	YEAR	HARVESTED ACREAGE	YIELD PER ACRE	TOTAL YIELD	UNIT	PRICE PER UNIT	TOTAL
Alfalfa Hay	2010	3,200	6.50	20,800	Ton	\$135.00	\$2,808,000
	2009	3,200	6.50	20,800		\$125.00	\$2,600,000
Miscellaneous Hay	2010	1,700	4.00	6,800	Ton	\$130.00	\$884,000
	2009	1,700	4.00	6,800		\$120.00	\$816,000
Irrigated Pasture	2010	17,000	~	~	Acre	\$28.00	\$476,000
	2009	17,000	~	~		\$27.50	\$467,500
Dry Grazing	2010	208,000	~	~	Acre	\$5.00	\$1,040,000
	2009	208,000	~	~		\$4.25	\$884,000
TOTAL FIELD CROP PRODUCTION:				2010			\$5,208,000
				2009			\$4,767,500

Misc. Crop Production/Apiary

INYO COUNTY

MISCELLANEOUS CROP PRODUCTION

ITEM	YEAR	HARVESTED ACREAGE	TOTAL YIELD	TOTAL
Turf	2010	195	~	\$1,613,900
	2009	250	~	\$2,285,000
Dates (Misc. Fruits)	2010	30	42,000	\$168,000
	2009	30	35,000	\$140,000

TOTAL MISCELLANEOUS CROP PRODUCTION	2010	\$1,781,900
	2009	\$2,425,000



APIARY PRODUCTION

ITEM	YEAR	PRODUCTION	UNIT	PRICE PER UNIT	TOTAL
Honey	2010	850,000	Lbs.	\$2.85	\$2,422,500
	2009	775,000		\$2.50	\$1,937,500

TOTAL APIARY PRODUCTION	2010	\$2,422,500
	2009	\$1,937,500



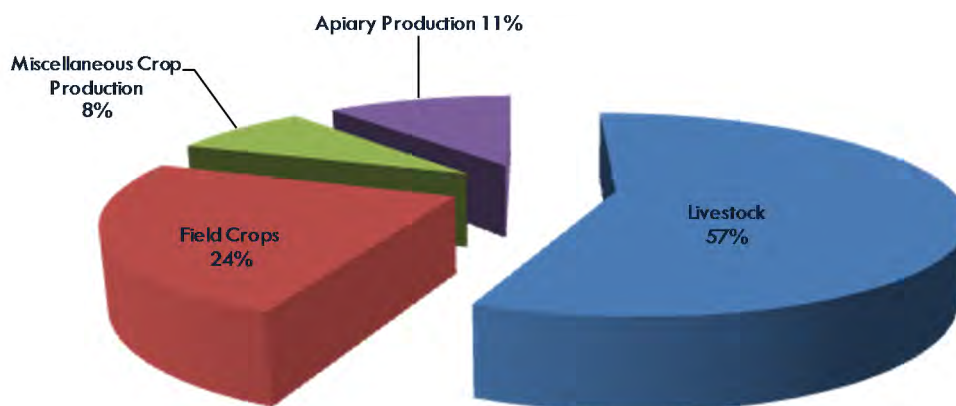
Inyo County Summary

INYO COUNTY TOTALS

	2009	2010
LIVESTOCK	\$9,997,350	\$12,134,370
FIELD CROPS	\$4,767,500	\$5,208,000
MISCELLANEOUS CROP PRODUCTION	\$2,425,000	\$1,781,900
APIARY PRODUCTION	\$1,937,500	\$2,422,500
TOTALS	2010	\$21,546,770
	2009	\$19,127,350



Inyo County Agriculture Production - 2010



Livestock

MONO COUNTY

LIVESTOCK

ITEM	YEAR	HEAD	LIVEWEIGHT	UNIT	PRICE PER UNIT	TOTAL
Calves/Steers	2010	7,520	45,120	Cwt.	\$116.00	\$5,233,920
	2009	7,520	45,120		\$100.00	\$4,512,000
Heifers	2010	6,540	34,335	Cwt.	\$112.00	\$3,845,520
	2009	6,540	34,335		\$98.00	\$3,364,830
Cows	2010	2,880	31,680	Cwt.	\$81.00	\$2,566,080
	2009	2,880	31,680		\$60.00	\$1,900,800
Bulls	2010	210	2,940	Cwt.	\$72.00	\$211,680
	2009	210	2,835		\$55.00	\$155,925
Stockers (gain)	2010	20,600	~	~	~	\$7,498,400
	2009	20,600	~		~	\$6,561,100
Sheep and Lambs	2010	22,000	22,000	Cwt.	\$140.00	\$3,080,000
	2009	16,500	16,500		\$100.00	\$1,650,000

TOTAL LIVESTOCK

2010

\$22,435,600

2009

\$18,144,655



Field Crops

FIELD CROPS

ITEM	YEAR	HARVESTED ACREAGE	YIELD PER ACRE	TOTAL YIELD	UNIT	PRICE PER UNIT	TOTAL
Alfalfa Hay	2010	11,000	6.50	71,500	Ton	\$135.00	\$9,652,500
	2009	11,000	6.25	68,750		\$125.00	\$8,593,750
Miscellaneous Hay	2010	5,000	4.00	20,000	Ton	\$130.00	\$2,600,000
	2009	5,000	4.00	20,000		\$120.00	\$2,400,000
Irrigated Pasture	2010	55,000	~	~	Acre	\$29.00	\$1,595,000
	2009	55,000	~	~		\$28.00	\$1,540,000
Dry Grazing	2010	80,000	~	~	Acre	\$6.75	\$540,000
	2009	80,000	~	~		\$6.50	\$520,000

TOTAL FIELD CROP PRODUCTION

2010

\$14,387,500

2009

\$13,053,750

Row Crop Production/Timber

MONO COUNTY

ROW CROP PRODUCTION

ITEM	YEAR	ACREAGE	TOTAL YIELD	TOTAL
Garlic	2010	65	~	\$245,700
	2009	8	~	\$32,000
Potatoes	2010	106	~	\$342,380
	2009	0	~	\$0
TOTAL ROW CROP PRODUCTION			2010	\$588,080
			2009	\$32,000

TIMBER PRODUCTION

ITEM	YEAR	TOTAL
Timber/Firewood	2010	\$40,000
	2009	\$15,500
TOTAL TIMBER PRODUCTION		2010
		2009
		\$40,000
		\$15,500

FRUIT CROP PRODUCTION

ITEM	YEAR	YIELD PER ACRE	TOTAL YIELD	UNIT	PRICE PER UNIT	TOTAL
Wine Grapes	2010	3.5	87.5	Ton	\$650.00	\$56,875
	2009	~	~		~	\$0
TOTAL FRUIT CROP PRODUCTION				2010		\$56,875
				2009		\$0

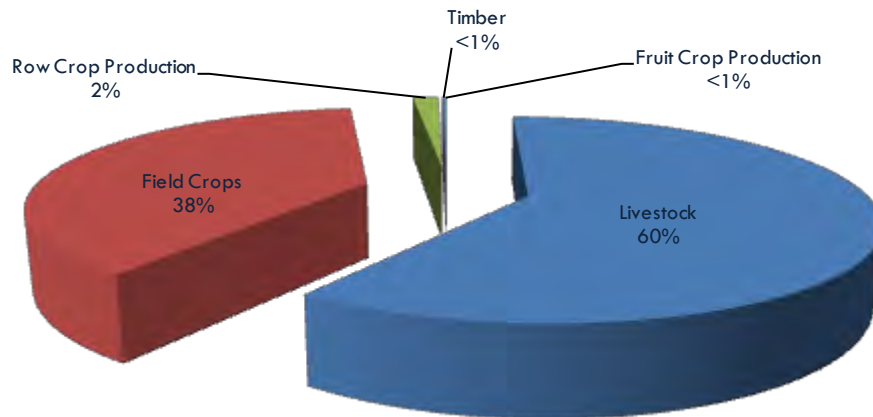


Mono County Summary

MONO COUNTY TOTALS

	2009	2010
LIVESTOCK	\$19,596,055	\$22,435,600
FIELD CROPS	\$13,053,750	\$14,387,500
ROW CROP PRODUCTION	\$32,000	\$588,080
TIMBER	\$15,500	\$40,000
FRUIT CROP PRODUCTION	\$0	\$56,875
TOTALS	2010	\$37,508,055
	2009	\$32,697,305

Mono County Agriculture Production - 2010



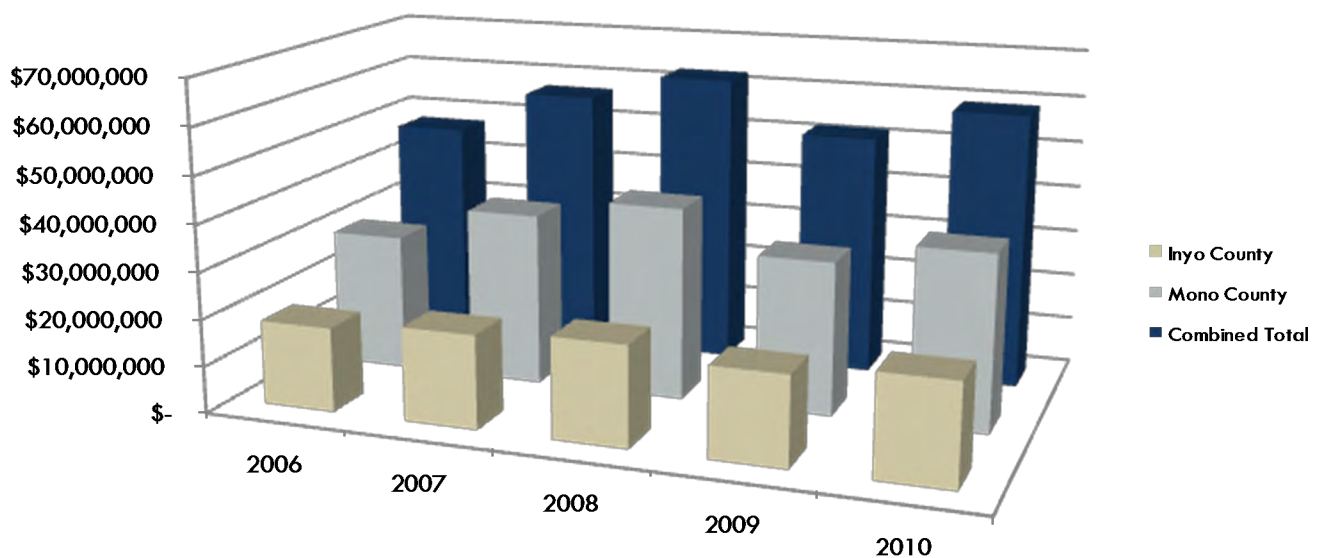
Comparison Summary

INYO AND MONO COUNTIES

COMPARISON SUMMARY

2006-2010

	2006	2007	2008	2009	2010
INYO COUNTY TOTALS	\$18,025,920	\$19,979,550	\$21,459,980	\$19,127,350	\$21,546,770
MONO COUNTY TOTALS	\$29,336,050	\$36,924,350	\$41,148,517	\$32,697,305	\$37,508,055
COMBINED TOTALS	\$47,361,970	\$56,903,900	\$62,608,497	\$51,824,655	\$59,054,825



Sustainable Agriculture

INVASIVE PLANT TARGETS

<u>PEST</u>	<u>AGENT/MECHANISM</u>	<u>NUMBER OF SITES</u>	<u>GROSS ACRES</u>
Puncturevine	Biological Control	25 sites	~
Dalmatian Toadflax	Mechanical	1 site	220
Yellow Starthistle	Mechanical	2 sites	13
Russian Knapweed	Herbicide	11 sites	3,302
Hoary Cress	Herbicide	2 sites	3
Canada Thistle	Herbicide	20 sites	3,289
Spotted Knapweed	Herbicide	3 sites	3
Halogeton	Mechanical	19 sites	4,400
Scotch Thistle	Herbicide	6 sites	1,247
Camelthorn	Herbicide	1 site	94
Saltcedar	Biological Control	3 sites	~
Saltcedar	Herbicide	100 sites	~
Perennial Pepperweed	Herbicide	129 sites	27,282

PEST EXCLUSION

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

14,005 Shipments Inspected



Organic and Outreach Programs

INYO AND MONO COUNTIES

ORGANIC FARMING STATISTICS:

There were 4 organic farms registered in 2010.

EASTERN SIERRA CERTIFIED FARMERS MARKET:

12 Growers participated in the 2010 Farmers Markets. Commodities sold included: eggs, apples, peaches, pears, grapes, berries, plums, cherries, pumpkins, cabbage, lettuce, squash, onions, eggplant, tomatoes, beets, peppers, carrots, corn, cucumbers, tomatillos, beans, cantaloupe, watermelons, zucchini, Swiss chard, radishes, kale, broccoli, potatoes, rhubarb, shallots, turnips, celery, cut flowers, collards, lentils, green beans, wheat, arugula, garlic, alfalfa sprouts, cucumbers, gourds, artichokes, cauliflower, okra, bok choy, and herbs.

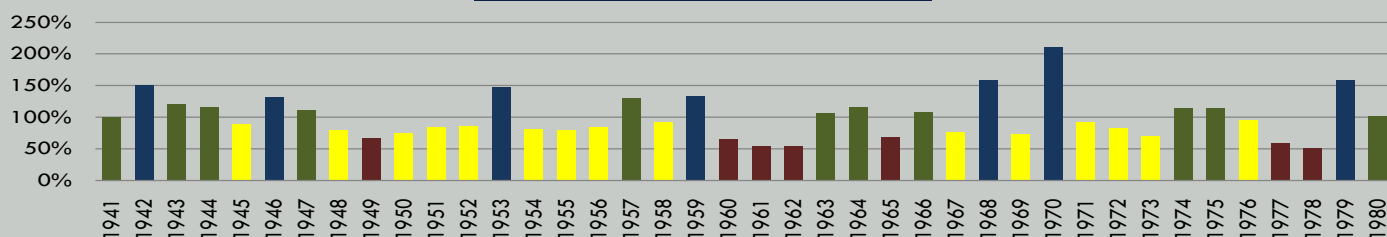
OUTREACH PROGRAM

During 2010, the Inyo/Mono Counties' Agriculture Department sponsored:

- 3 pesticide safety seminars with 110 professional card holders and private applicators attending, to meet California state continuing education requirements;
- 5 educational workshops for local groups;
- Participation with the Owens Lake Committee 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



Weights and Measures

WEIGHTS AND MEASURES ENFORCEMENT

Over 1,100 devices were inspected in 2010 to ensure accuracy within California state tolerances. These devices included:

- 1,135 retail fuel meters;
- 126 small retail scales;
- 43 livestock scales;
- 23 vehicle scales;
- 10 hopper scales;
- 8000 vapor and electric meters (10 year cycle).

Of the 1,100+ devices inspected, 29 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. The Weights and Measures Department also conducted several scanner audits to ensure accuracy of price scanners in stores, and labeling audits to ensure the accuracy of labeled contents of pre-packaged goods. Regular inspections protect consumers from misrepresentation and maintain fair competition between sellers.





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 2011 Crop and Livestock Report



2011 Crop and Livestock Report

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Agriculture and Weights & Measures Departments



Eastern Sierra Weed Management Area



Owens Valley Mosquito Abatement Program

Staff:

Agricultural Commissioner / Director of Weights and Measures

George L. Milovich

Deputy Agricultural Commissioner / Deputy Director of Weights and Measures

John Schrader

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This and previous year's crop reports can also be viewed online at:

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Counties of Inyo & Mono

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Karen Ross, Secretary
California Department of Food and Agriculture

The Honorable Board of Supervisors, County of Inyo

Marty Fortney, Chairman

Linda Arcularius Susan Cash
Richard Cervantes Rick Pucci

The Honorable Board of Supervisors, County of Mono

Vikki Magee-Bauer, Chairman

Tim Hanson D. “Hap” Hazard
Byng Hunt Larry Johnson

It is my pleasure to present the 2011 Agricultural Crop and Livestock Report. The figures herein are in accordance with section 2279 of the California Food and Agriculture Code, and only represent gross agricultural values.

Agriculture continues to be an integral part of the economics of the Eastern Sierra region, and over the years one of its most stable components.

The combined agricultural production for 2011 is \$79,412,962, which is an increase of 26% from 2010 totals, and represents our highest vales ever recorded.

Beef cattle remained strong in 2011, including increases in the export market. Alfalfa and other hay had major increases compared to the previous year. Our high protein, high elevation hay is desired by the California dairy industry.


Other products showing an increase in value include the lamb and honey markets. Honey production, although lower statewide, was stable in Inyo County and prices for honey continue to climb.

Abundant precipitation in 2011 aided the high crop production in both counties; however, this coming year’s run-off is trending lower.

My appreciation goes out to the growers, ranchers and agencies that provided data and to Nathan and Jennifer for their support in assembling this report.

Sincerely,

George L. Milovich
Agricultural Commissioner



“I know of no pursuit in which more real and important services can be rendered to any country than by improving its agriculture, its breed of useful animals, and other branches of a husbandman’s cares”

George Washington

THE EVOLUTION OF AGRICULTURE and WEIGHTS AND MEASURES

The California Agricultural Commissioners trace their origins back 130 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 derives 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 start 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.

2011 is the 130th anniversary of the California Agricultural Commissioner and Sealer Association.

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 participates 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.

OWENS VALLEY MOSQUITO CONTROL PROGRAM

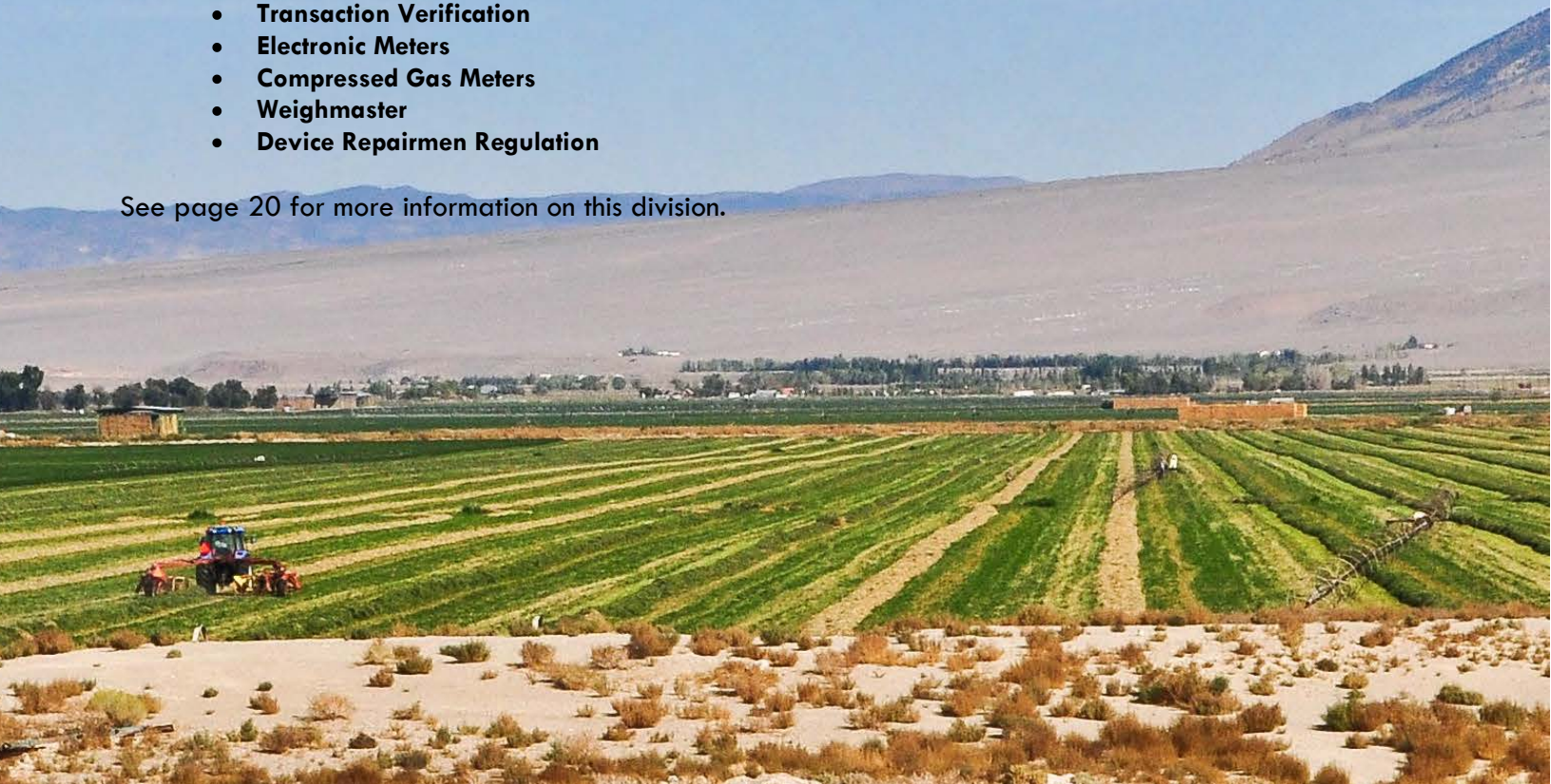
The purpose of this program is to provide the public with a consistent level of mosquito control that reduces the threat of disease transmission and the spread of large nuisance populations of mosquitoes. See page 21 for more information on this division.

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.





Inyo County General Information

County Seat	Independence
County Population (2010 census)	18,546
Land Area (square miles)	10,142
Persons per Square Mile	1.83
Highest Elevation (Mount Whitney)	14,492 feet
Lowest Elevation (Badwater, Death Valley National Park)	282 feet below sea level
Land in Federal Ownership	92.0%
Land in State Ownership	2.4%
Land in City of Los Angeles Ownership	3.9%
Land in Private Ownership	1.7%

Incorporated Cities/Towns:

Bishop

Unincorporated Areas:

Big Pine
Cartago
Independence
Lone Pine
Olancho
Pearsonville
Shoshone
Tecopa

Average Climate:

Bishop:

Summer High—98°
Winter Low—22°

Death Valley:

Summer High—115°
Winter Low—37°



Mono County General Information

County Seat	Bridgeport
County Population (2010 census)	14,202
Land Area (square miles)	3,044
Persons per Square Mile	4.67
Highest Elevation (White Mountain)	14,242 feet
Land in Federal Ownership	84.7%
Land in State Ownership	3.6%
Land in City of Los Angeles Ownership	3.2%
Land in Private Ownership	7.8%

Incorporated Cities/Towns:

Mammoth Lakes

Unincorporated Areas:

Benton
 Bridgeport
 Chalfant Valley
 Coleville
 Hammil Valley
 June Lake
 Lee Vining
 Tom's Place
 Walker

Average Climate:

Bridgeport:

Summer High—81°
 Winter Low—8°

Chalfant Valley:

Summer High—98°
 Winter Low—22°

Livestock

LIVESTOCK						
ITEM	YEAR	HEAD	LIVEWEIGHT	UNIT	PRICE PER UNIT	TOTAL
Calves/Steers	2011	5,800	34,800	Cwt.	\$135.00	\$4,698,000
	2010	5,650	33,960		\$116.00	\$3,939,360
Calves/Heifers	2011	5,160	28,380	Cwt.	\$131.00	\$3,717,780
	2010	5,050	29,040		\$112.00	\$3,252,480
Cows	2011	2,000	22,000	Cwt.	\$100.00	\$2,200,000
	2010	2,470	27,170		\$81.00	\$2,200,770
Bulls	2011	225	3,150	Cwt.	\$95.00	\$299,250
	2010	220	3,080		\$72.00	\$221,760
Stockers (gain)	2011	5,500	~	~	~	\$2,341,625
	2010	5,000	~		~	\$1,820,000
Sheep and Lambs	2011	5,000	5,000	Cwt.	\$190.00	\$950,000
	2010	5,000	5,000		\$140.00	\$700,000
TOTAL LIVESTOCK:				2011	\$14,206,655	
				2010	\$12,134,370	



Field Crops



FIELD CROPS							
ITEM	YEAR	HARVESTED ACREAGE	YIELD PER ACRE	TOTAL YIELD	UNIT	PRICE PER UNIT	TOTAL
Alfalfa Hay	2011	3,280	6.50	21,320	Ton	\$225.00	\$4,797,000
	2010	3,200	6.50	20,800		\$135.00	\$2,808,000
Miscellaneous Field Crops	2011	1,750	4.00	6,820	Ton	\$225.00	\$1,534,500
	2010	1,700	4.00	6,800		\$130.00	\$884,000
Irrigated Pasture	2011	17,000	~	~	Acre	\$29.00	\$493,000
	2010	17,000	~	~		\$28.00	\$476,000
Dry Grazing	2011	208,000	~	~	Acre	\$5.25	\$1,092,000
	2010	208,000	~	~		\$5.00	\$1,040,000
TOTAL FIELD CROP PRODUCTION:				2011			\$7,916,500
				2010			\$5,208,000



Miscellaneous Crop Production/Apiary

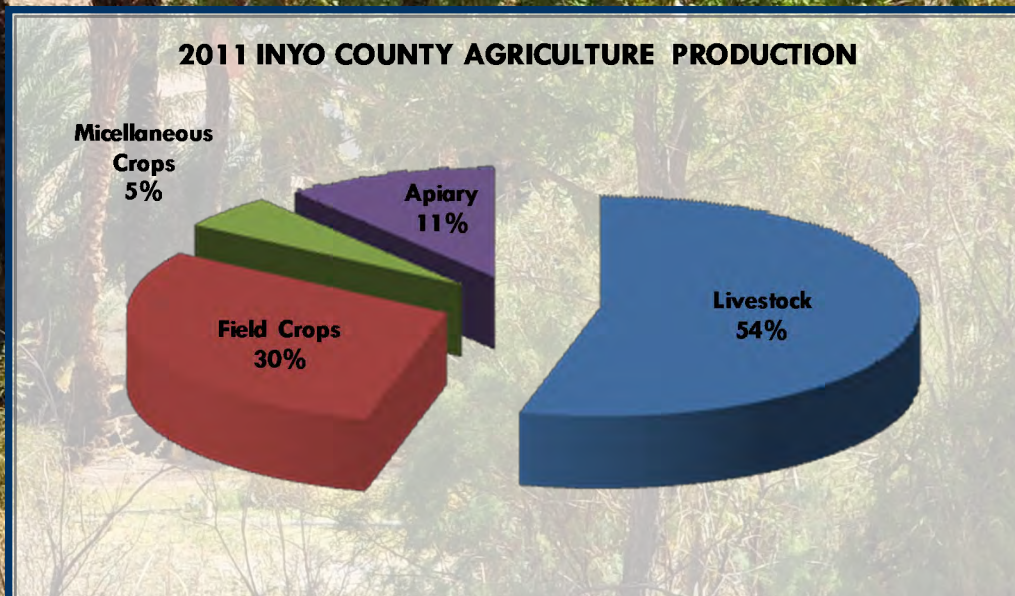
MISCELLANEOUS CROP PRODUCTION				
ITEM	YEAR	HARVESTED ACREAGE	TOTAL YIELD	TOTAL
Turf	2011	116	~	\$1,111,651
	2010	195	~	\$1,613,900
Dates and other misc. Fruits	2011	40	85,000	\$207,250
	2010	30	42,000	\$168,000
TOTAL MISCELLANEOUS CROP PRODUCTION			2011	\$1,318,901
			2010	\$1,781,900

APIARY PRODUCTION					
ITEM	YEAR	PRODUCTION	UNIT	PRICE PER UNIT	TOTAL
Honey	2011	975,000	Lbs.	\$2.90	\$2,827,500
	2010	850,000		\$2.85	\$2,422,500
TOTAL APIARY PRODUCTION				2011	\$2,827,500
				2010	\$2,422,500

Inyo County Summary



INYO COUNTY TOTALS		
	2010	2011
LIVESTOCK	\$12,134,370	\$14,206,655
FIELD CROPS	\$5,208,000	\$7,916,500
MISCELLANEOUS CROPS	\$1,781,900	\$1,318,901
APIARY	\$2,422,500	\$2,827,500
TOTALS	2011 2010	\$26,269,556 \$21,546,770



Livestock

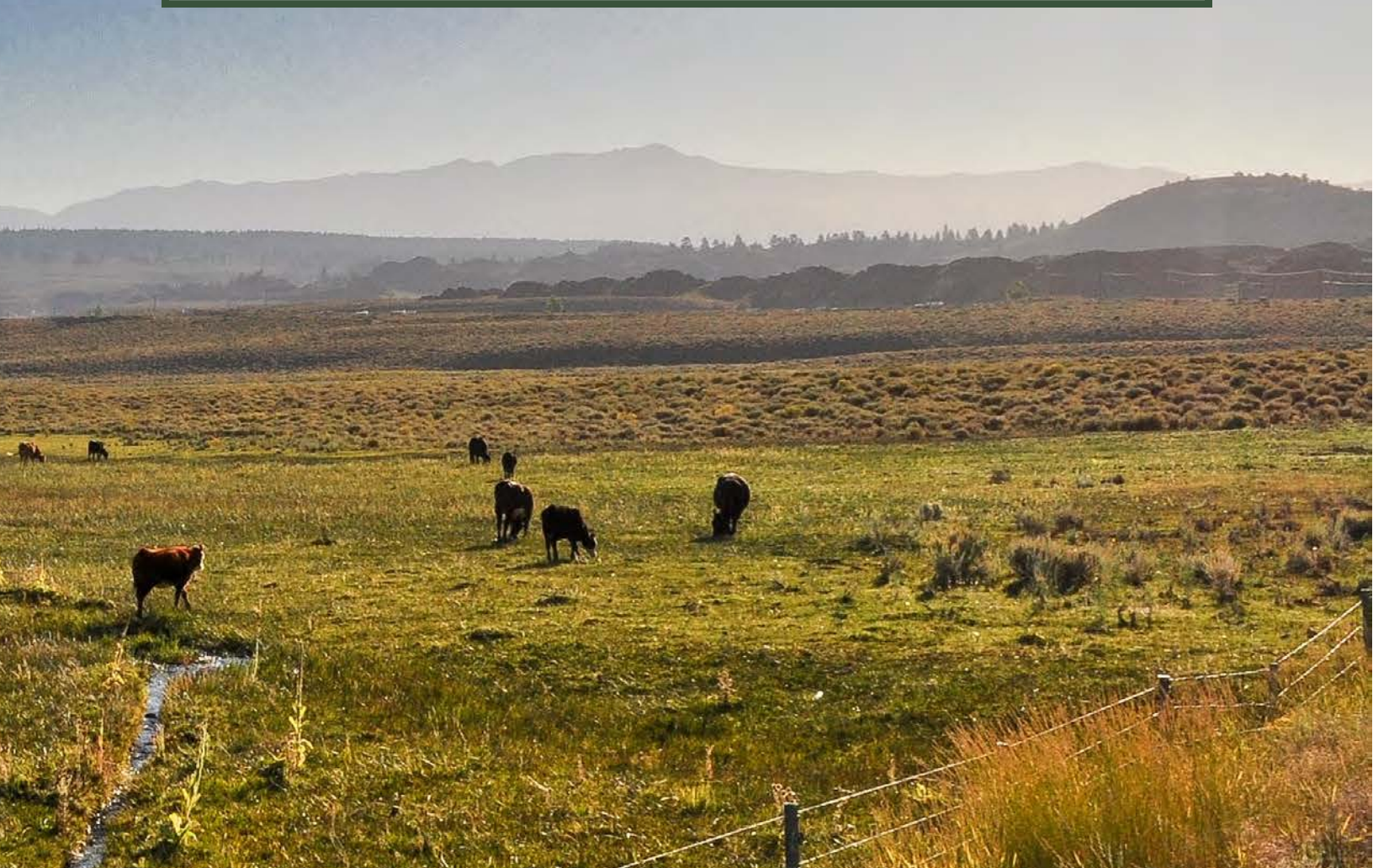
LIVESTOCK						
ITEM	YEAR	HEAD	LIVEWEIGHT	UNIT	PRICE PER UNIT	TOTAL
Calves/Steers	2011	8,000	48,000	Cwt.	\$135.00	\$6,480,000
	2010	7,520	45,120		\$116.00	\$5,233,920
Calves/Heifers	2011	6,800	37,400	Cwt.	\$131.00	\$4,899,400
	2010	6,540	34,335		\$112.00	\$3,845,520
Cows	2011	2,760	30,360	Cwt.	\$100.00	\$3,036,000
	2010	2,880	31,680		\$81.00	\$2,566,080
Bulls	2011	305	4,270	Cwt.	\$95.00	\$405,650
	2010	210	2,940		\$72.00	\$211,680
Stockers (gain)	2011	22,500	~	~	~	\$9,579,375
	2010	20,600	~		~	\$7,498,400
Sheep and Lambs	2011	21,000	21,000	Cwt.	\$190.00	\$3,990,000
	2010	22,000	22,000		\$140.00	\$3,080,000
TOTAL LIVESTOCK:				2011	\$28,390,425	
				2010	\$22,435,600	



Field Crops



FIELD CROPS							
ITEM	YEAR	HARVESTED ACREAGE	YIELD PER ACRE	TOTAL YIELD	UNIT	PRICE PER UNIT	TOTAL
Alfalfa Hay	2011	11,000	6.50	71,500	Ton	\$225.00	\$16,087,500
	2010	11,000	6.50	71,500		\$135.00	\$9,652,500
Miscellaneous Hay	2011	5,000	4.00	20,000	Ton	\$225.00	\$4,500,000
	2010	5,000	4.00	20,000		\$130.00	\$2,600,000
Irrigated Pasture	2011	55,000	~	~	Acre	\$35.00	\$1,925,000
	2010	55,000	~	~		\$29.00	\$1,595,000
Dry Grazing	2011	80,000	~	~	Acre	\$7.00	\$560,000
	2010	80,000	~	~		\$6.75	\$540,000
TOTAL FIELD CROP PRODUCTION:				2011		\$23,072,500	
				2010		\$14,387,500	



Row Crop, Fruit Crop and Timber Production

ROW CROP PRODUCTION				
ITEM	YEAR	ACREAGE	TOTAL YIELD	TOTAL
Garlic	2011	220	~	\$739,200
	2010	65	~	\$245,700
Potatoes	2011	220	~	\$803,000
	2010	106	~	\$342,380
TOTAL ROW CROP PRODUCTION:			2011	\$1,542,200
			2010	\$588,080

FRUIT CROP PRODUCTION						
ITEM	YEAR	YIELD PER ACRE	TOTAL YIELD	UNIT	PRICE PER UNIT	TOTAL
Wine Grapes	2011	3.75	93.75	Ton	\$675.00	\$63,281
	2010	3.5	87.5		\$650.00	\$56,875
TOTAL FRUIT CROP PRODUCTION:				2011		\$63,281
				2010		\$56,875

TIMBER PRODUCTION		
ITEM	YEAR	TOTAL
Timber/Firewood	2011	\$75,000
	2010	\$40,000
TOTAL TIMBER PRODUCTION:	2011	\$75,000
	2010	\$40,000

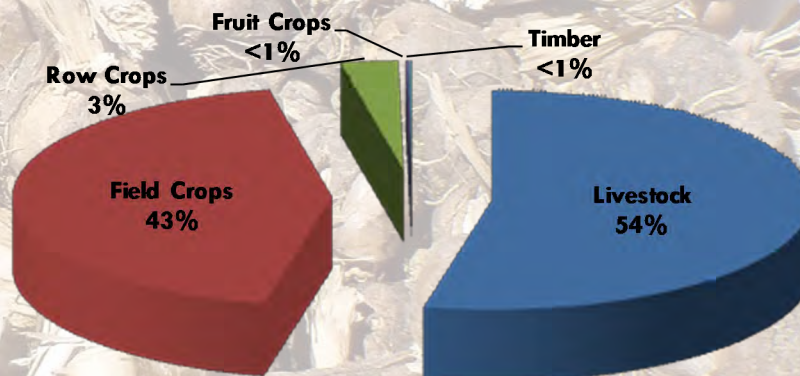
Mono County Summary



MONO COUNTY TOTALS

	2010	2011
LIVESTOCK	\$22,435,600	\$28,390,425
FIELD CROPS	\$14,387,500	\$23,072,500
ROW CROPS	\$588,080	\$1,542,200
FRUIT CROPS	\$56,875	\$63,281
TIMBER	\$40,000	\$75,000
TOTALS	2011 2010	\$53,143,406 \$37,508,055

2011 MONO COUNTY AGRICULTURE PRODUCTION



Inyo and Mono Counties

Comparison Summary



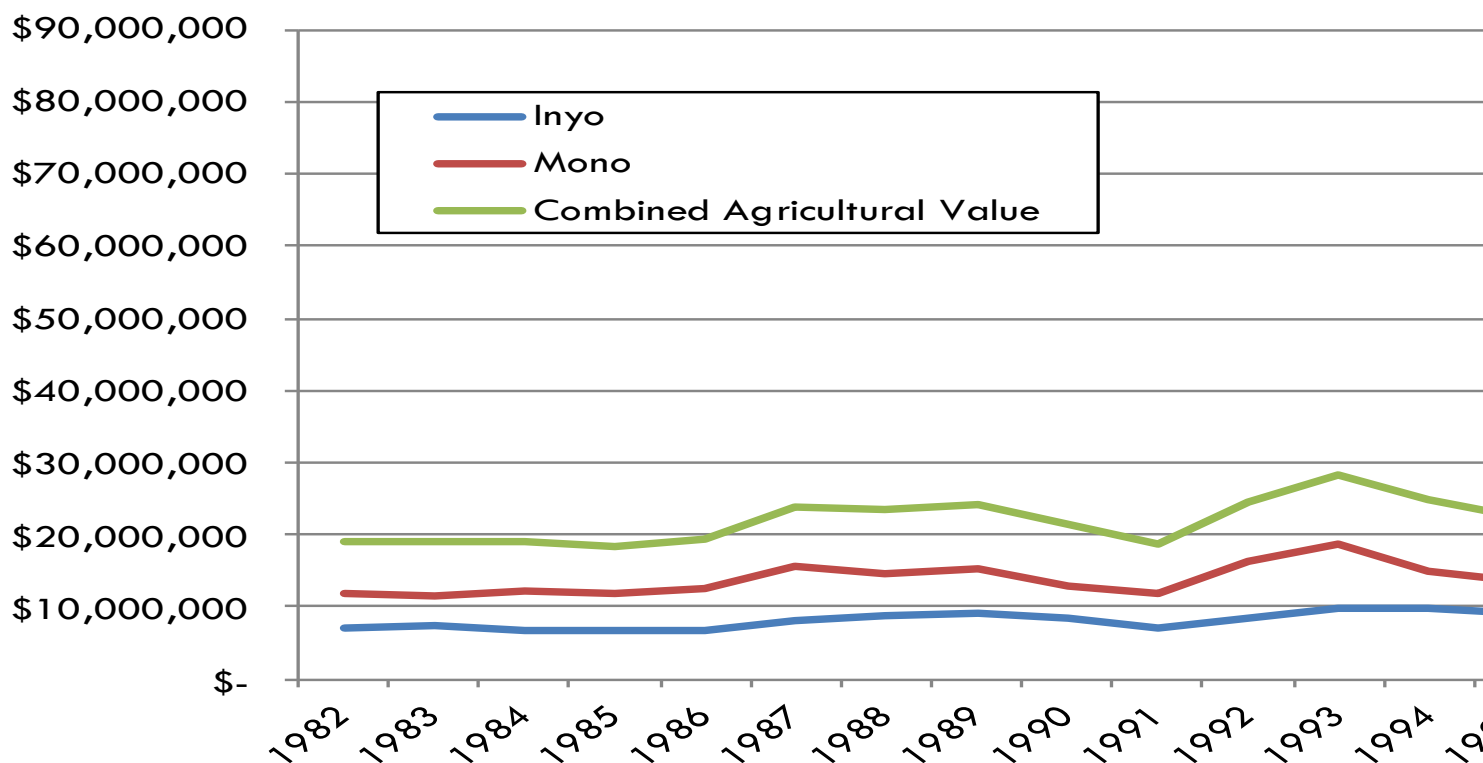
COMPARISON SUMMARY

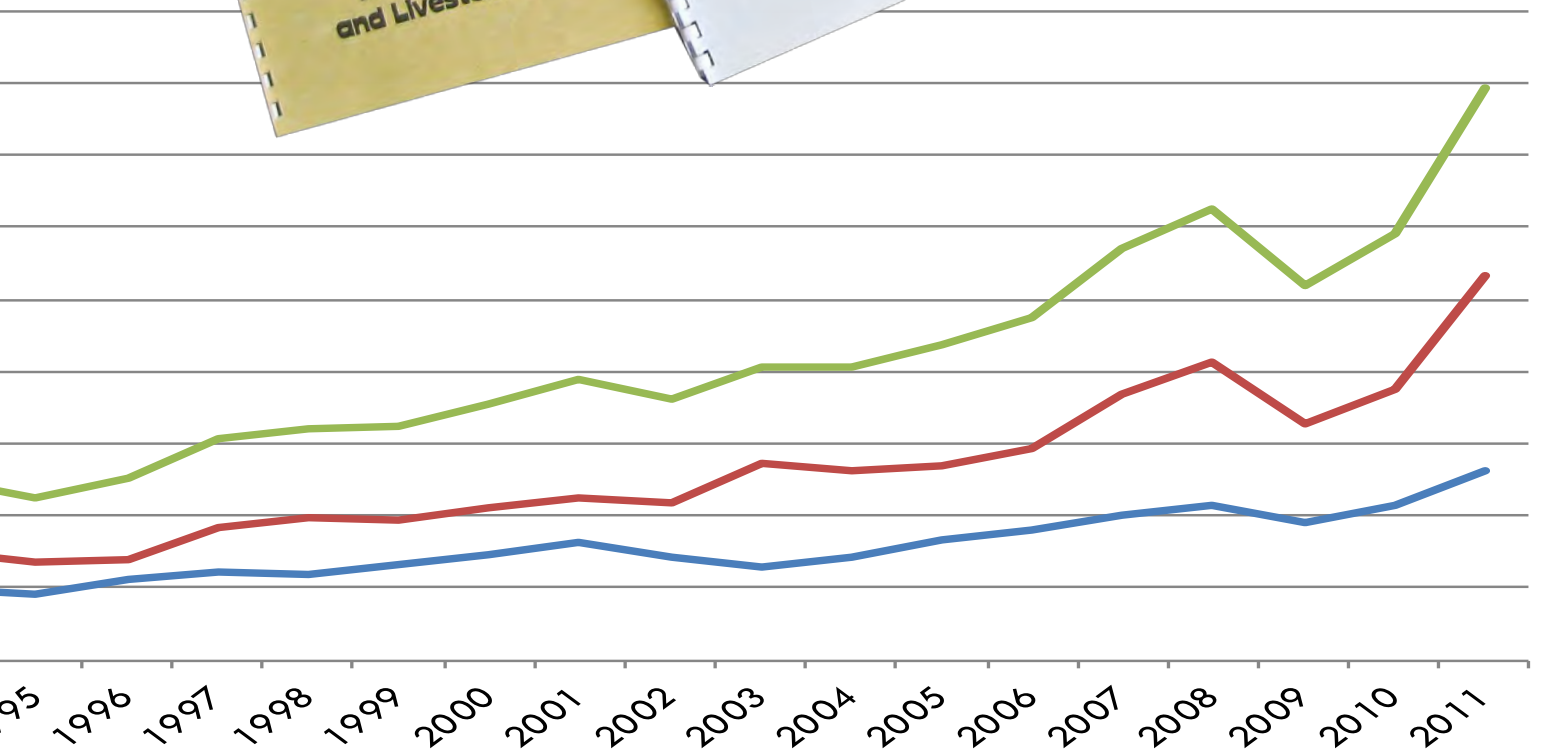
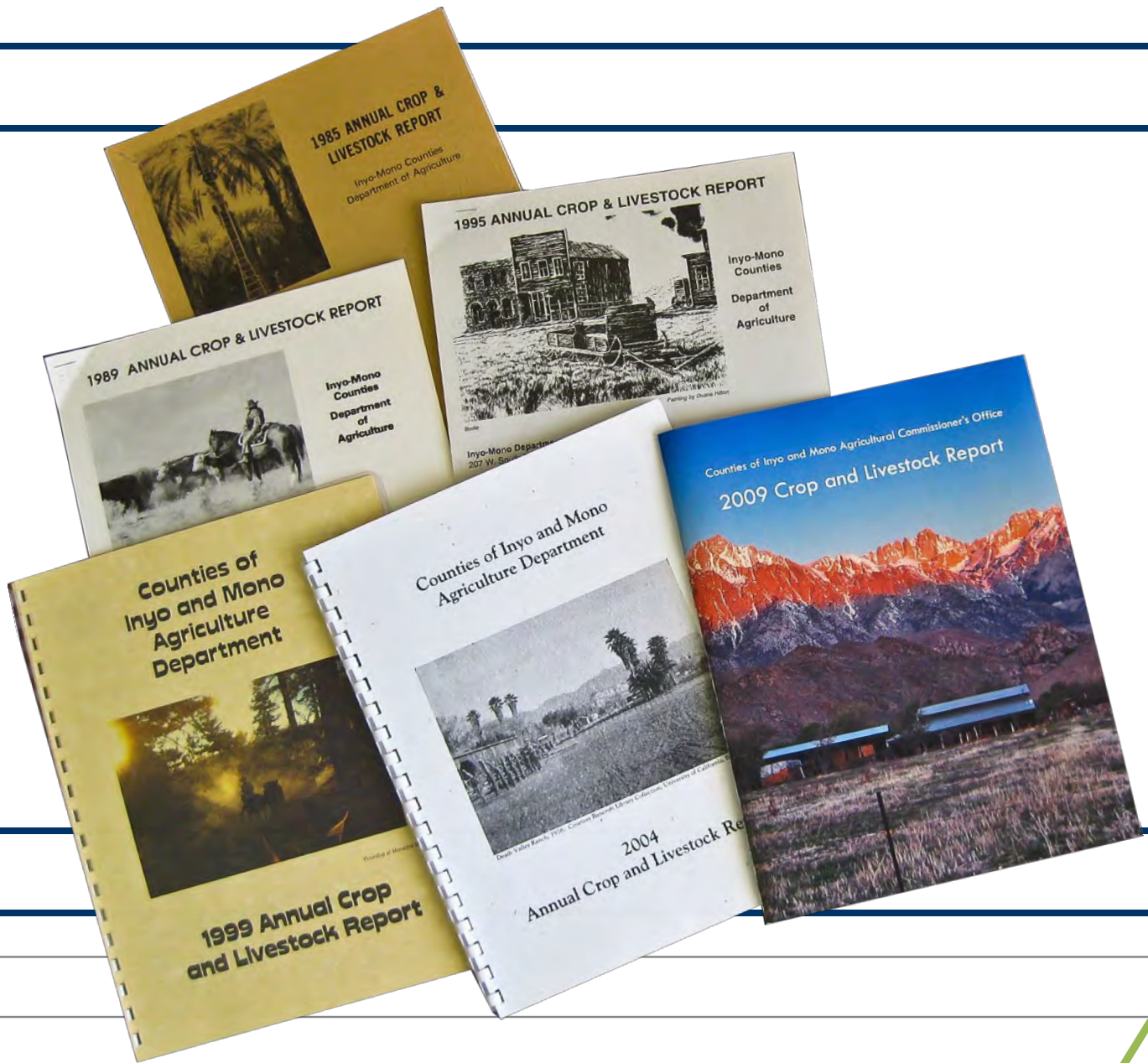
2007-2011



	2007	2008	2009	2010	2011
INYO COUNTY TOTALS	\$19,979,550	\$21,459,980	\$19,127,350	\$21,546,770	\$26,269,556
MONO COUNTY TOTALS	\$36,924,350	\$41,148,517	\$32,697,305	\$37,508,055	\$53,143,406
COMBINED TOTALS	\$56,903,900	\$62,608,497	\$51,824,655	\$59,054,825	\$79,412,962

30 Year Comparison





Organic and Outreach Programs

ORGANIC FARMING STATISTICS:

There were 5 organic farms registered in 2011.

EASTERN SIERRA CERTIFIED FARMERS MARKET:

15 Growers participated in the 2011 Farmers Markets. Commodities sold included: basil, chives, cilantro, dill marjoram, parsley, rosemary, sage, tarragon, thyme, lavender, lemongrass, paprika, spinach, corn, eggplant, tomato, squash, cucumber, peppers, green onions, potatoes, pumpkins, onions, beets, garlic, carrots, radishes, lettuce, broccoli, kale, arugula, sweet potatoes, Swiss chard, bok choy, cabbage, Brussels sprouts, zucchini, shallots, tomatillos, grapes, apples, peaches, pears, nectarines, apricots, cherries, plums, figs, watermelon, cantaloupe, honeydew, gourds, beans, raspberries, blackberries, boysenberries, sweet peas, various bean varieties, walnuts, cut flowers, and eggs.

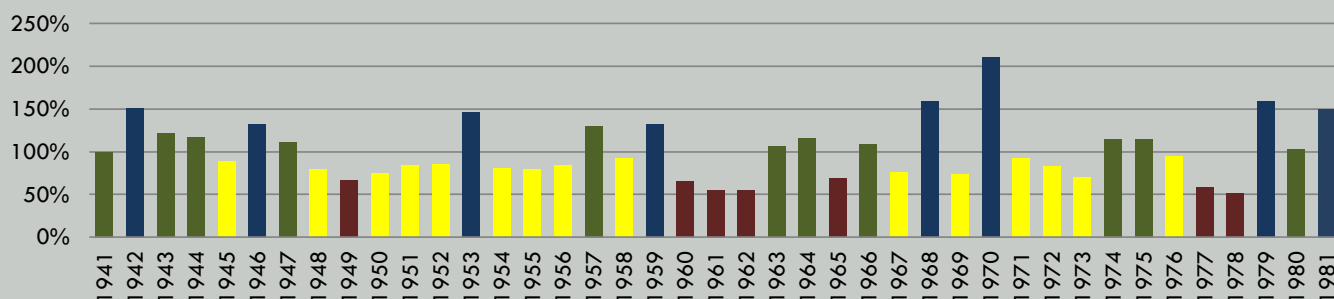
OUTREACH PROGRAM

During 2011, the Inyo/Mono Counties' Agriculture Department sponsored:

- 3 pesticide safety seminars with 130 professional card holders and private applicators attending, to meet California state continuing education requirements;
- 5 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.

EASTERN SIERRA RUNOFF CHART



Sustainable Agriculture

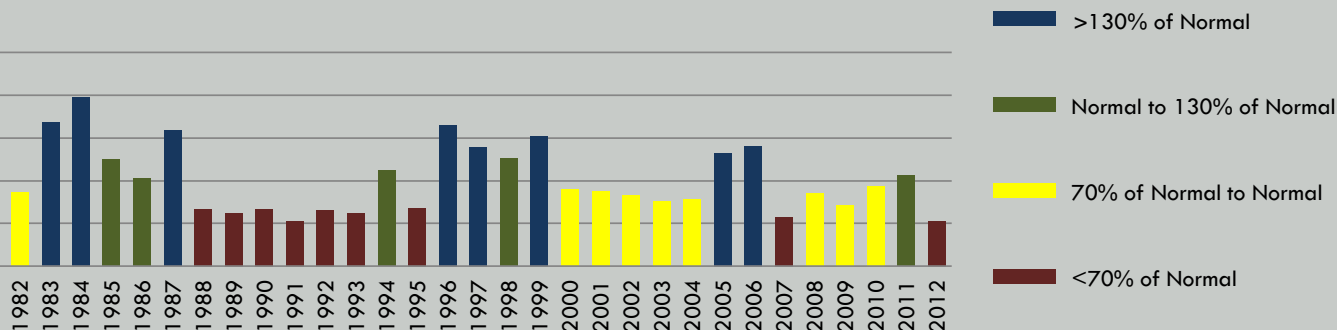
INVASIVE PLANT TARGETS

<u>PEST</u>	<u>AGENT/MECHANISM</u>	<u>NUMBER OF SITES</u>	<u>GROSS ACRES</u>
Puncturevine	Biological Control	25 sites	~
Dalmatian Toadflax	Mechanical	1 site	220
Yellow Starthistle	Mechanical	2 sites	13
Russian Knapweed	Herbicide	11 sites	3,302
Hoary Cress	Herbicide	2 sites	3
Canada Thistle	Herbicide	20 sites	3,289
Spotted Knapweed	Herbicide	3 sites	3
Halogeton	Mechanical	19 sites	4,400
Scotch Thistle	Herbicide	8 sites	1,311
Camelthorn	Herbicide	1 site	94
Saltcedar	Biological Control	3 sites	~
Saltcedar	Herbicide	100 sites	~
Perennial Pepperweed	Herbicide	133 sites	27,299

PEST EXCLUSION

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

14,500 Shipments Inspected



Inyo and Mono Counties

Weights and Measures



DEVICE INSPECTION PROGRAM

Over 1,100 devices were inspected in 2011 to ensure accuracy within California state tolerances. These devices included:

- 893 retail fuel meters;
- 156 small retail scales;
- 35 livestock scales;
- 21 vehicle scales;
- 10 hopper scales;
- 8000 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 1,100+ devices inspected, 31 Notice of Violations were issued. All 60 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 necessities 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.

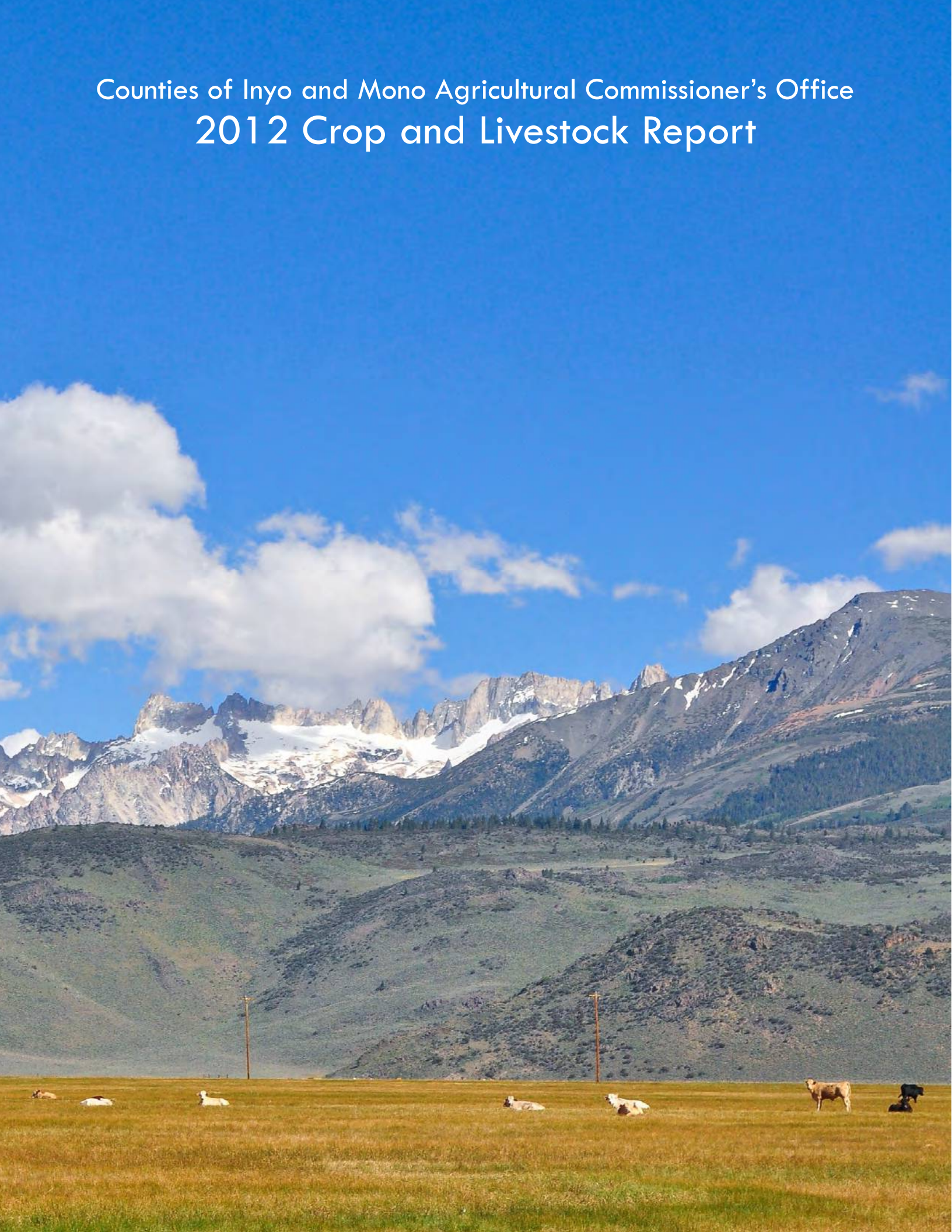




Counties of Inyo and Mono
Department of Agriculture and Weights & Measures
207 W South Street
Bishop, CA 93514



Counties of Inyo and Mono Agricultural Commissioner's Office
2012 Crop and Livestock Report



2012 Crop and Livestock Report

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Agriculture and Weights & Measures Departments

Eastern Sierra Weed Management Area

Owens Valley Mosquito Abatement Program

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Field Technician II – Weed Management
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Field Assistant – Weed Management
Scott Gadea
Joshua Tyerman

Manager / Owens Valley Mosquito Abatement Program
Chris Wickham

Mosquito Control Technicians
Walter Davison
Casey Freeman
Bruce Mack
David Miller
Robert Miller

Front Cover: Cattle grazing near Bridgeport, Mono County

Current year as well as previous year's crop reports can also be viewed online at:
<http://www.inyomonoagriculture.com/reports.html>



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**

Linda Arcularius, Chairman

Jeff Griffiths

Rick Pucci

Matt Kingsley

Mark Tillemans

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

Byng Hunt, Chairman

Tim Alpers

Larry Johnston

Tim Fesko

Fred Stump

It is my pleasure to present the 2012 Agricultural Crop and Livestock Report. The figures herein are in accordance with section 2279 of the California Food and Agriculture Code, and only represent gross agricultural values.

The combined agricultural production for 2012 is \$77,281,297, which is a decrease of 2.7% from 2011 totals. Agriculture continues to be an integral part of the economics of the Eastern Sierra region, and over the years one of its most stable components.

The value of Inyo and Mono Counties' two largest crops, cattle and alfalfa, remained stable; however, drought conditions contributed to the decrease from the previous year. Other agricultural production was also affected by the shorter season due to drought conditions. A second year of drought is upon us, which will further challenge our agricultural resources in the year to come.

It has been my privilege to serve Inyo and Mono Counties for the last 36 years, and I thank all of the agricultural producers and my staff for many years of support of not only providing data for this report, but also for the great working relationship we have maintained.

Sincerely,

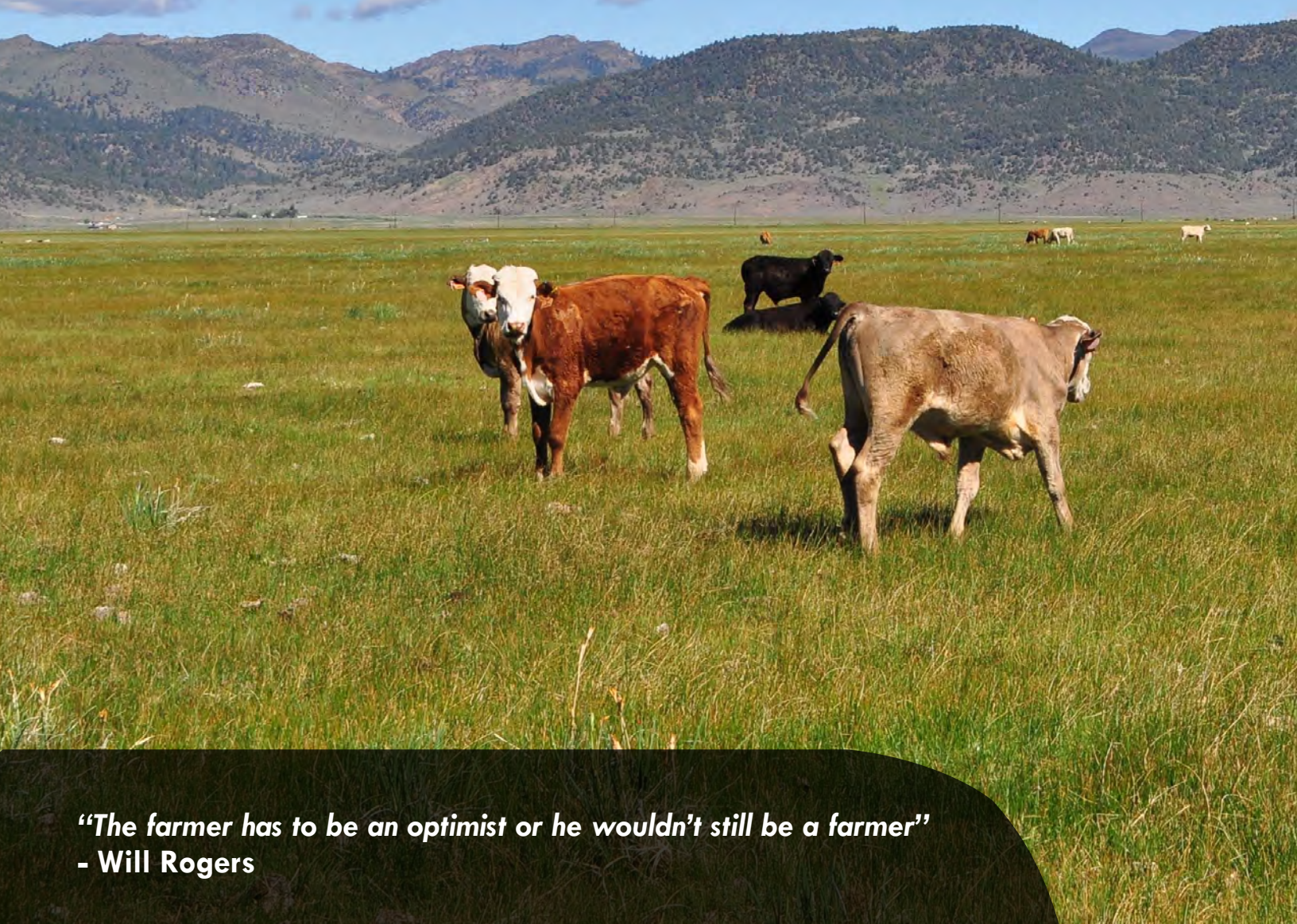
George L. Milovich
Agricultural Commissioner

THE EVOLUTION OF AGRICULTURE and WEIGHTS AND MEASURES

The California Agricultural Commissioners trace their origins back 131 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.



"The farmer has to be an optimist or he wouldn't still be a farmer"
- Will Rogers

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.

2012 was the 131st anniversary of the California Agricultural Commissioner and Sealer Association.





Best Wishes on Your Retirement George!

Inyo and Mono Counties Agricultural Commissioner George Milovich is retiring this year after 36 years of service. George began work with the Inyo and Mono Counties Agricultural Commissioner's office in 1976 as a seasonal employee. George worked his way through the many

county weights & measures and agricultural biologist licenses, eventually becoming Deputy Agricultural Commissioner/Sealer in 1986.

After working 11 years as Deputy Agricultural Commissioner, George was appointed the Agricultural Commissioner and Director of Weights & Measures in 1997. George then filled this role until June of 2013, completing four terms.

During this time, George worked to foster agricultural opportunities in the area such as the creation of a seed garlic quarantine area in Mono County, development of local farmer's markets, and the introduction other types of crops outside of the hay and alfalfa that are traditionally grown in the area. His efforts over the years also built one of the most geographically wide-ranging and comprehensive invasive weed management area groups in the State of California.



Deputy sealer George Milovich from the Department of Weights and Measures demonstrates with a tape measure what a cord of wood looks like: 4 feet by 4 feet by 8 feet. *Inyo Register photo by Adele Gysin*

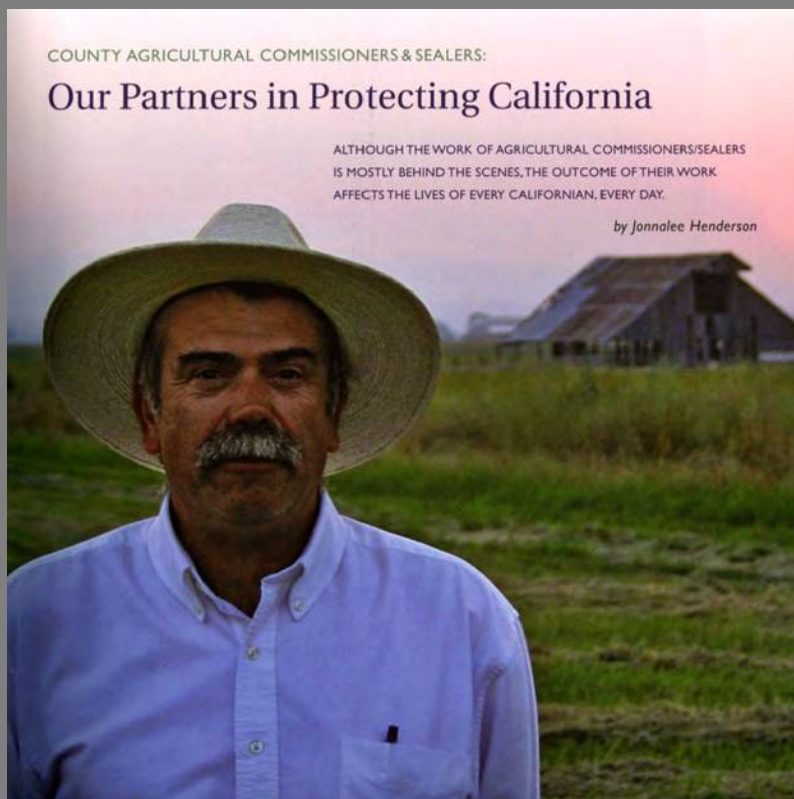


George's insistence on equality in the marketplace and outreach to industry over the years has literally paid off for residents of Inyo and Mono Counties. Always mindful of the roots of weights and measures laws, his work in this regard over the decades has developed into a high level of voluntary compliance from local businesses.

In addition to the office's core programs of agriculture and weights and measures, George also administered the Owens Valley Mosquito Abatement Program for the past ten years. During this time under his direction, the mosquito program has refined its methods and grown to encompass specialty work such as monitoring and control within the Lower Owens River Project Area, the largest river re-watering project in history.



All of us with the Inyo/Mono Counties Agriculture, Weights and Measures, Owens Valley Mosquito Control, and Eastern Sierra Weed Management programs would like to wish George a happy retirement and good luck in his future endeavors. Whether it's golfing, fishing, or spending more time with the grandkids, we hope George has a great time.



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 participates 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.

OWENS VALLEY MOSQUITO CONTROL PROGRAM

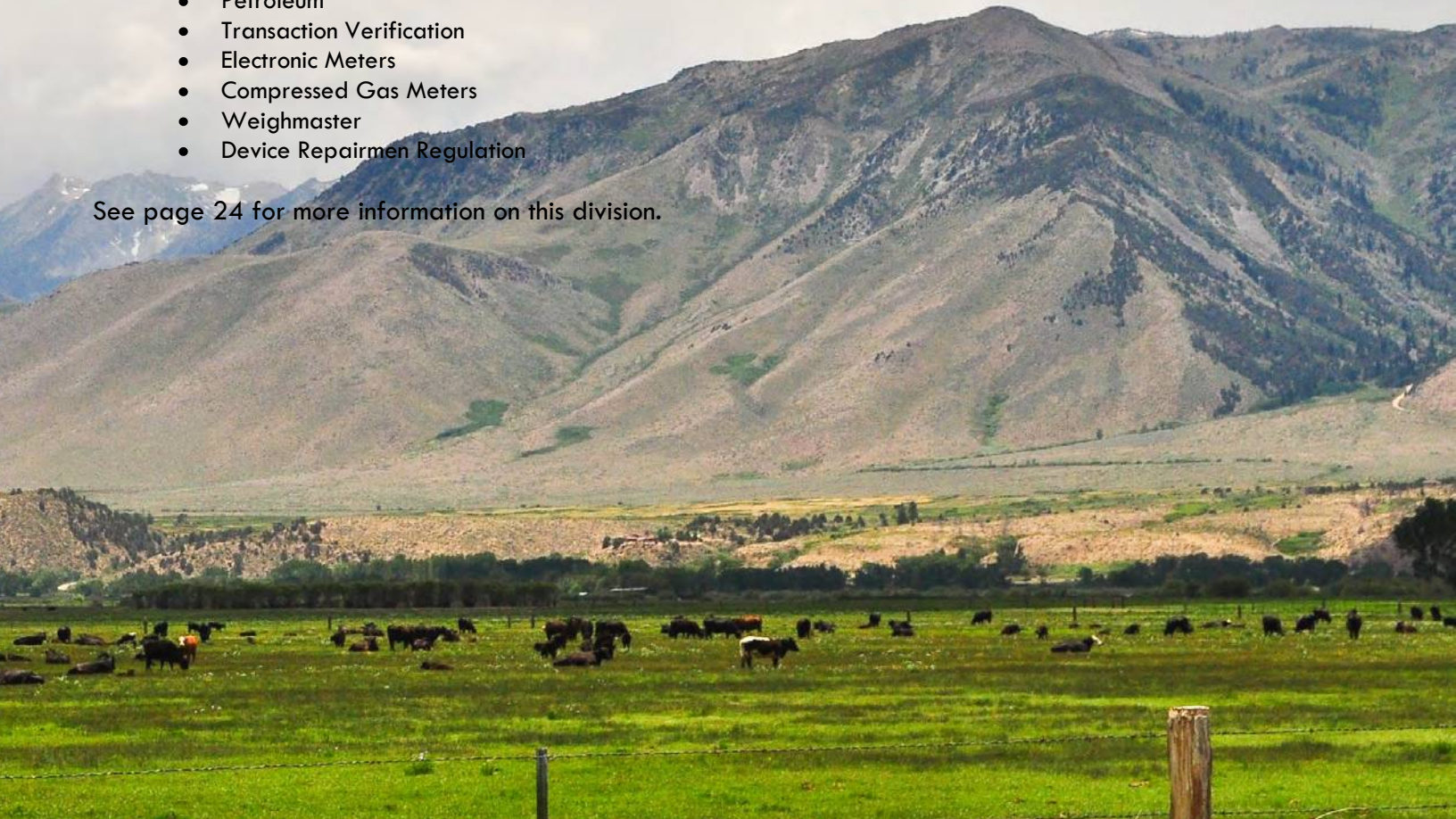
The purpose of this program is to provide the public with a consistent level of mosquito control that reduces the threat of disease transmission and the spread of large nuisance populations of mosquitoes. See page 21 for more information on this division.

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 24 for more information on this division.





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:	14,492 ft. (Mount Whitney)
Lowest Elevation:	-282 ft. (Badwater, D.V.N.P.)

Unincorporated Areas

Big Pine
Cartago
Independence
Lone Pine
Olancho
Pearsonville
Shoshone
Tecopa

Incorporated Cities

Bishop

Average Climate

	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%



2012

INYO COUNTY

CROP AND LIVESTOCK STATISTICS





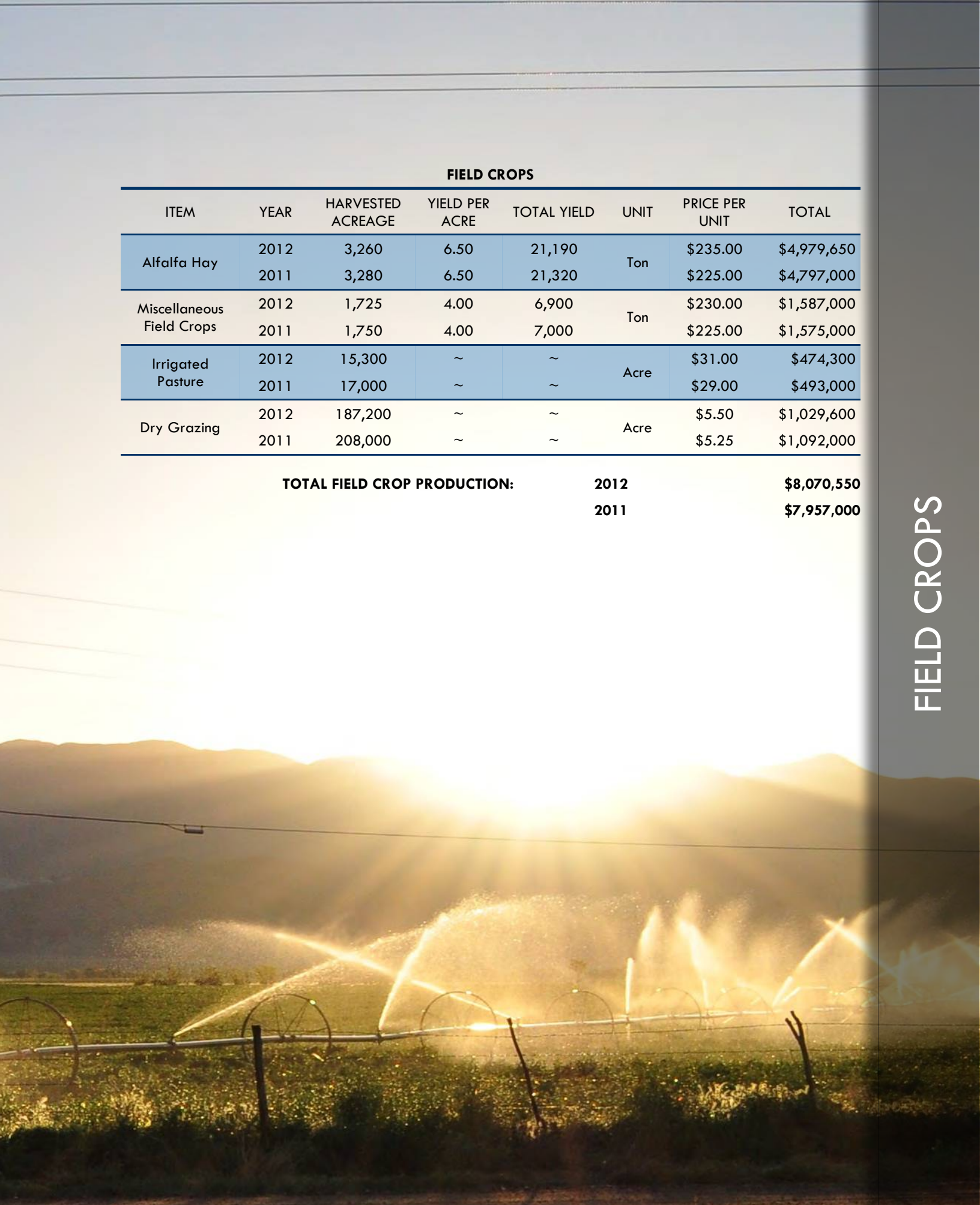
LIVESTOCK

ITEM	YEAR	HEAD	LIVEWEIGHT	UNIT	PRICE PER UNIT	TOTAL
Calves/Steers	2012	5,220	31,320	Cwt.	\$144.00	\$4,510,080
	2011	5,800	34,800		\$135.00	\$4,698,000
Calves/Heifers	2012	4,640	25,520	Cwt.	\$140.00	\$3,572,800
	2011	5,160	28,380		\$131.00	\$3,717,780
Cows	2012	1,800	19,800	Cwt.	\$107.00	\$2,118,600
	2011	2,000	22,000		\$100.00	\$2,200,000
Bulls	2012	205	2,870	Cwt.	\$102.00	\$292,740
	2011	225	3,150		\$95.00	\$299,250
Stockers (gain)	2012	4,950	~	~	~	\$2,251,200
	2011	5,500	~		~	\$2,341,625
Sheep and Lambs	2012	4,500	4,500	Cwt.	\$165.00	\$742,500
	2011	5,000	5,000		\$190.00	\$950,000
TOTAL LIVESTOCK:					2012	\$13,487,920
					2011	\$14,206,655

FIELD CROPS

ITEM	YEAR	HARVESTED ACREAGE	YIELD PER ACRE	TOTAL YIELD	UNIT	PRICE PER UNIT	TOTAL
Alfalfa Hay	2012	3,260	6.50	21,190	Ton	\$235.00	\$4,979,650
	2011	3,280	6.50	21,320		\$225.00	\$4,797,000
Miscellaneous Field Crops	2012	1,725	4.00	6,900	Ton	\$230.00	\$1,587,000
	2011	1,750	4.00	7,000		\$225.00	\$1,575,000
Irrigated Pasture	2012	15,300	~	~	Acre	\$31.00	\$474,300
	2011	17,000	~	~		\$29.00	\$493,000
Dry Grazing	2012	187,200	~	~	Acre	\$5.50	\$1,029,600
	2011	208,000	~	~		\$5.25	\$1,092,000

TOTAL FIELD CROP PRODUCTION:	2012	\$8,070,550
	2011	\$7,957,000

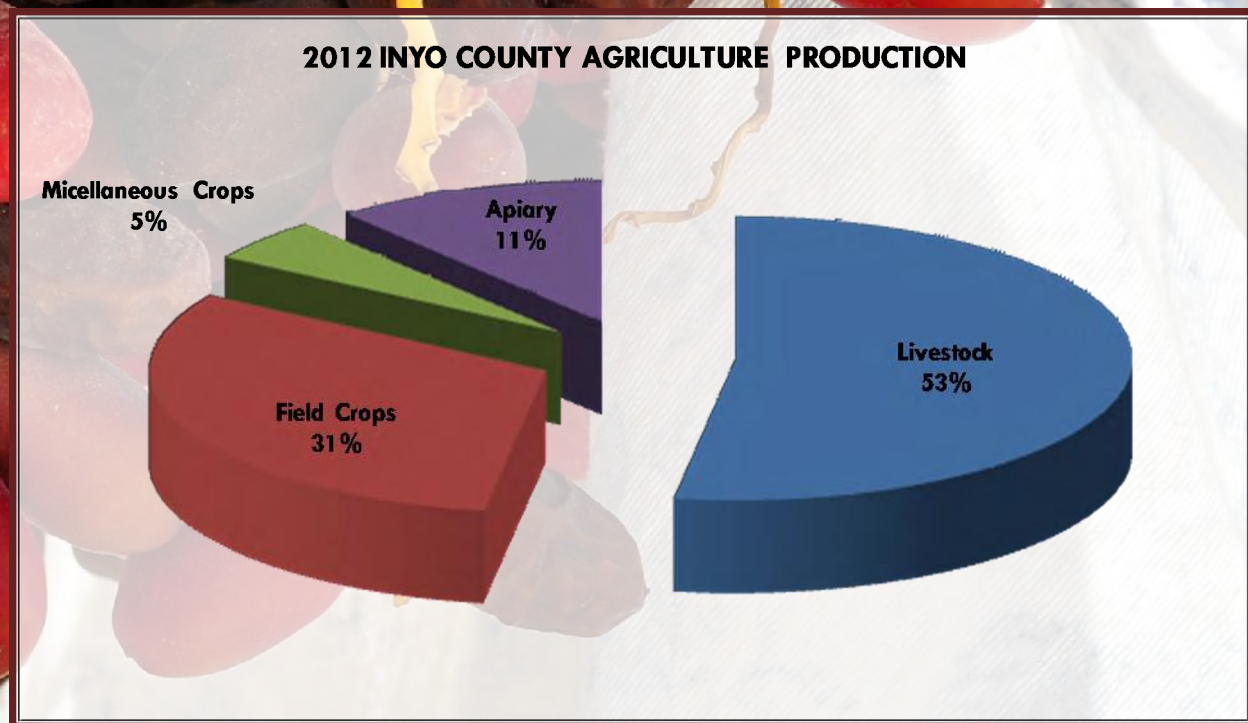




MISCELLANEOUS CROP PRODUCTION				
ITEM	YEAR	HARVESTED ACREAGE	TOTAL YIELD	TOTAL
Turf	2012	116	~	\$1,010,592
	2011	116	~	\$1,111,651
Dates and other misc. Fruits	2012	43	89,500	\$254,950
	2011	40	85,000	\$207,250
TOTAL MISCELLANEOUS CROP PRODUCTION			2012	\$1,265,542
			2011	\$1,318,901

APIARY PRODUCTION					
ITEM	YEAR	PRODUCTION	UNIT	PRICE PER UNIT	TOTAL
Honey	2012	877,500	Lbs.	\$3.27	\$2,869,425
	2011	975,000		\$2.90	\$2,827,500
TOTAL APIARY PRODUCTION				2012	\$2,869,425
				2011	\$2,827,500

INYO COUNTY TOTALS			2011	2012
LIVESTOCK			\$14,206,655	\$13,487,920
FIELD CROPS			\$7,916,500	\$8,070,550
MISCELLANEOUS CROPS			\$1,318,901	\$1,265,542
APIARY			\$2,827,500	\$2,869,425
TOTALS			2012	\$25,693,437
			2011	\$26,269,556





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:	14,242 ft. (White Mountain)

Unincorporated Areas

Benton
Bridgeport
Chalfant Valley
Coleville
Hammil Valley
June Lake
Lee Vining
Tom's Place
Walker

Incorporated Cities

Mammoth Lakes

Average Climate

	Summer High	Winter Low
Bridgeport:	81°	8°
Chalfant Valley:	98°	22°

Land Ownership

Federal:	84.7%
State of California:	3.6%
City of Los Angeles:	3.2%
Private:	7.8%



2012

MONO COUNTY

CROP AND LIVESTOCK STATISTICS



LIVESTOCK

ITEM	YEAR	HEAD	LIVEWEIGHT	UNIT	PRICE PER UNIT	TOTAL
Calves/Steers	2012	7,200	43,200	Cwt.	\$144.00	\$6,220,800
	2011	8,000	48,000		\$135.00	\$6,480,000
Calves/Heifers	2012	6,120	33,660	Cwt.	\$140.00	\$4,712,400
	2011	6,800	37,400		\$131.00	\$4,899,400
Cows	2012	2,480	27,280	Cwt.	\$107.00	\$2,918,960
	2011	2,760	30,360		\$100.00	\$3,036,000
Bulls	2012	275	3,850	Cwt.	\$102.00	\$392,700
	2011	305	4,270		\$95.00	\$405,650
Stockers (gain)	2012	20,250	~	~	~	\$9,213,400
	2011	22,500	~		~	\$9,579,375
Sheep and Lambs	2012	18,900	18,900	Cwt.	\$165.00	\$3,118,500
	2011	21,000	21,000		\$190.00	\$3,990,000

TOTAL LIVESTOCK:

2012	\$26,576,760
2011	\$28,390,425

FIELD CROPS

ITEM	YEAR	HARVESTED ACREAGE	YIELD PER ACRE	TOTAL YIELD	UNIT	PRICE PER UNIT	TOTAL
Alfalfa Hay	2012	10,520	6.50	68,380	Ton	\$235.00	\$16,069,300
	2011	11,000	6.50	71,500		\$225.00	\$16,087,500
Miscellaneous Hay	2012	4,980	4.00	19,920	Ton	\$230.00	\$4,581,600
	2011	5,000	4.00	20,000		\$225.00	\$4,500,000
Irrigated Pasture	2012	49,500	~	~	Acre	\$37.00	\$1,831,500
	2011	55,000	~	~		\$35.00	\$1,925,000
Dry Grazing	2012	72,000	~	~	Acre	\$7.25	\$522,000
	2011	80,000	~	~		\$7.00	\$560,000

TOTAL FIELD CROP PRODUCTION:	2012	\$23,004,400
	2011	\$23,072,500

FIELD CROPS





ROW CROP PRODUCTION

ITEM	YEAR	ACREAGE	TOTAL YIELD	TOTAL
Garlic	2012	230	~	\$993,600
	2011	220	~	\$739,200
Potatoes	2012	220	~	\$935,000
	2011	220	~	\$803,000

TOTAL ROW CROP PRODUCTION:	2012	\$1,928,600
	2011	\$1,542,200

FRUIT CROP PRODUCTION

ITEM	YEAR	YIELD PER ACRE	TOTAL YIELD	UNIT	PRICE PER UNIT	TOTAL
Wine Grapes	2012	3.00	75.00	Ton	\$650.00	\$48,750
	2011	3.75	93.75		\$675.00	\$63,281

TOTAL FRUIT CROP PRODUCTION:	2012	\$48,750
	2011	\$63,281

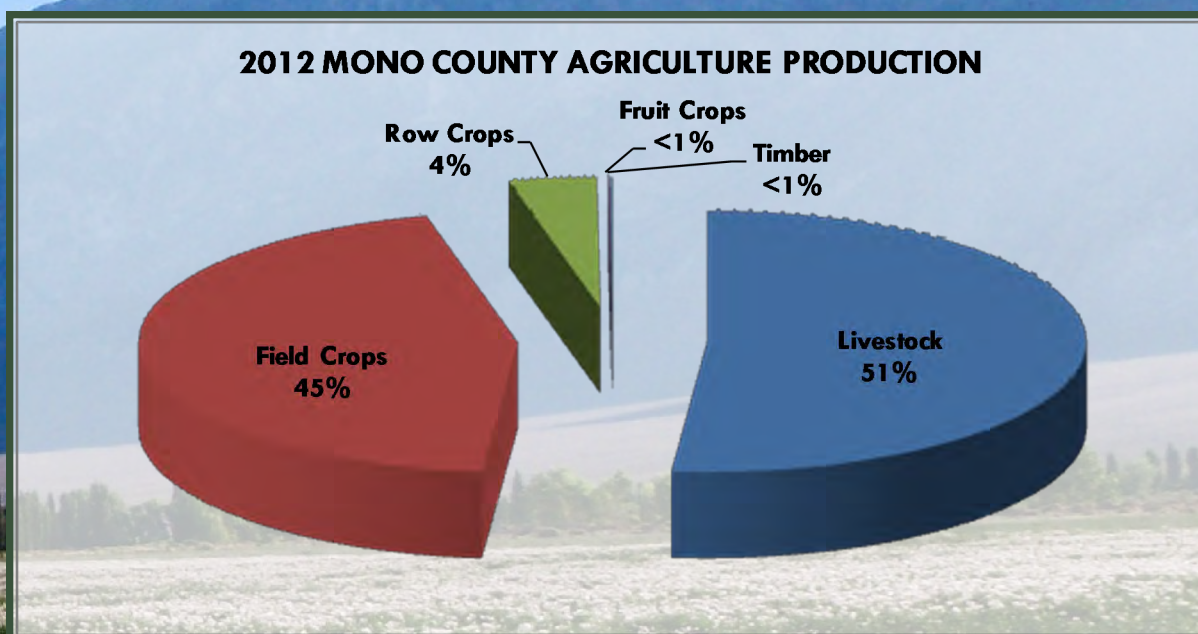
TIMBER PRODUCTION

ITEM	YEAR	TOTAL
Timber/Firewood	2012	\$29,350
	2011	\$75,000

TOTAL TIMBER PRODUCTION:	2012	\$29,350
	2011	\$75,000

MONO COUNTY TOTALS

	2011	2012
LIVESTOCK	\$28,390,425	\$26,576,760
FIELD CROPS	\$23,072,500	\$23,004,400
ROW CROPS	\$1,542,200	\$1,928,600
FRUIT CROPS	\$63,281	\$48,750
TIMBER	\$75,000	\$29,350
TOTAL	\$53,143,406	\$51,587,860



COMPARISON SUMMARY



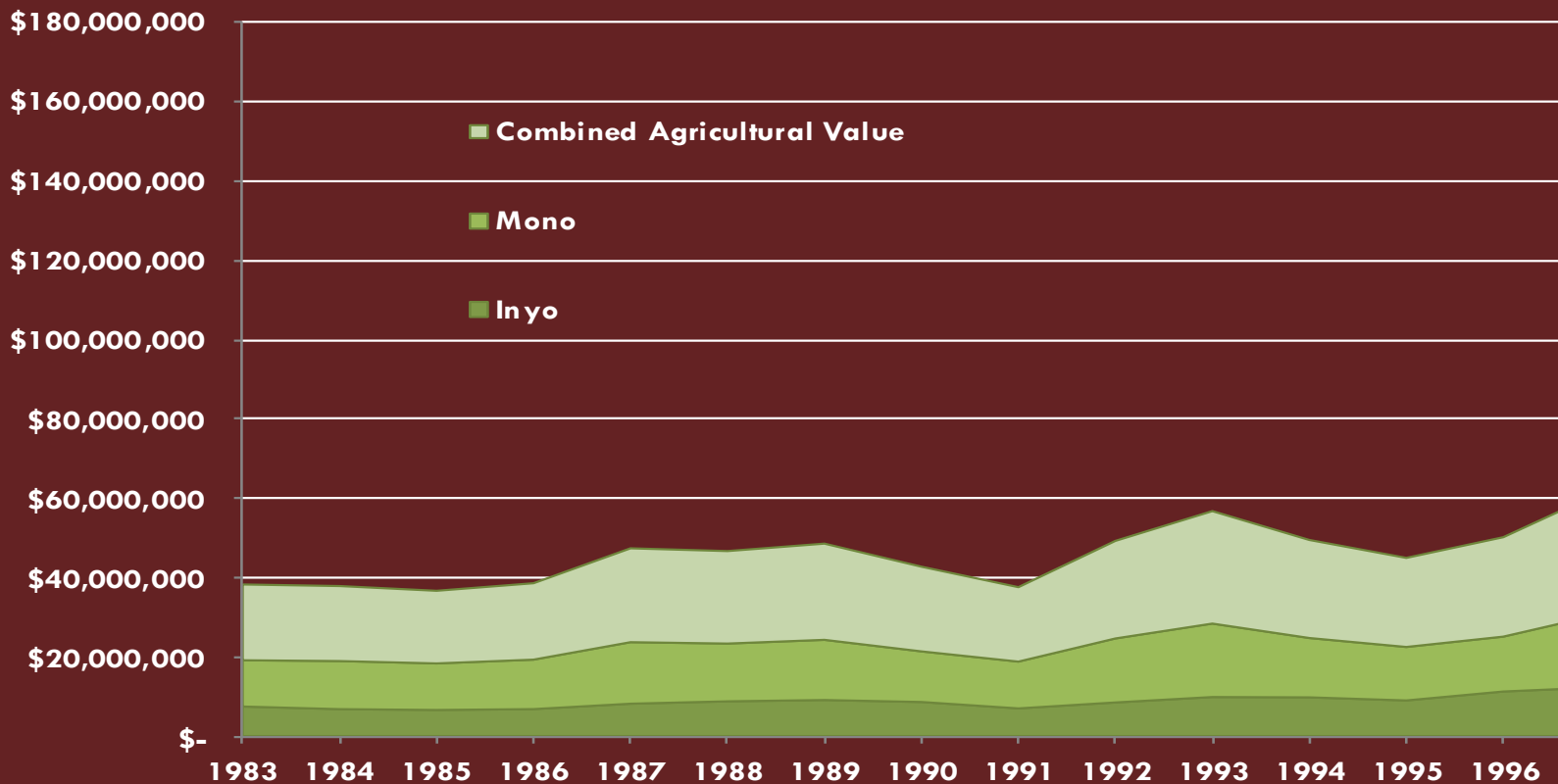
COMPARISON SUMMARY

2008-2012

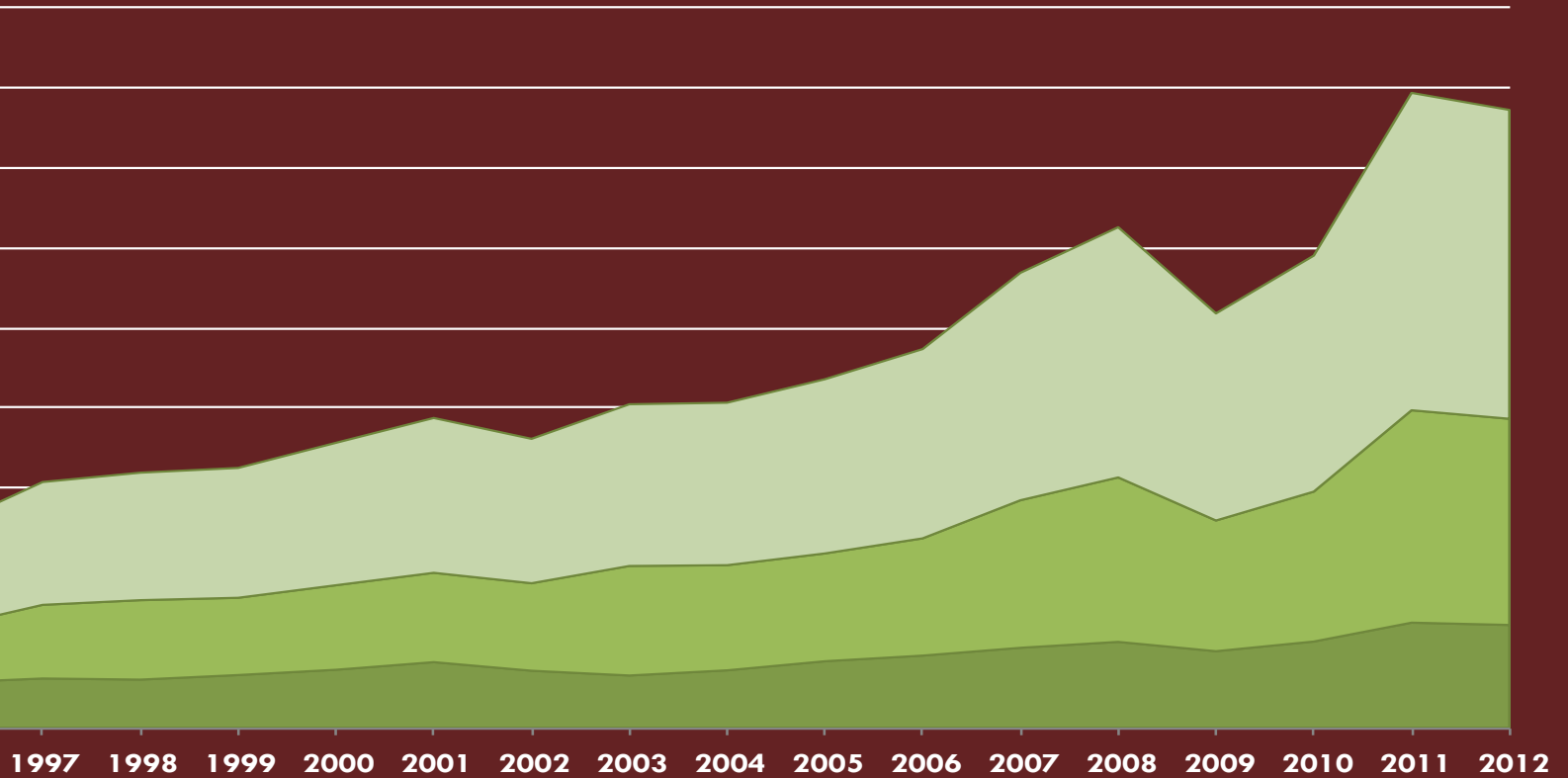
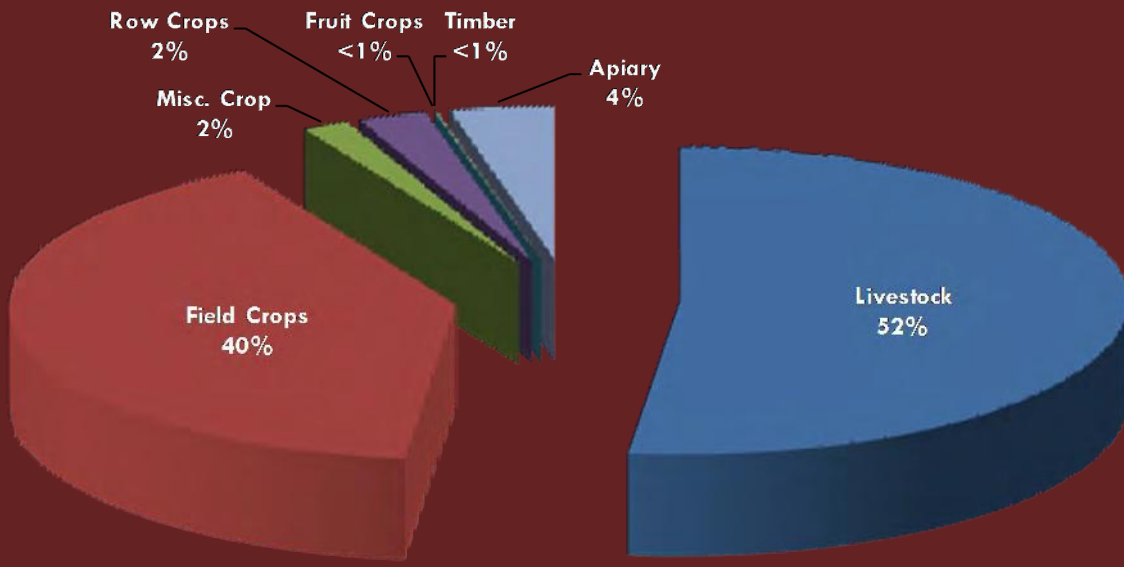


	2008	2009	2010	2011	2012
INYO COUNTY TOTALS	\$21,459,980	\$19,127,350	\$21,546,770	\$26,269,556	\$25,693,437
MONO COUNTY TOTALS	\$41,148,517	\$32,697,305	\$37,508,055	\$53,143,406	\$51,587,860
COMBINED TOTALS	\$62,608,497	\$51,824,655	\$59,054,825	\$79,412,962	\$77,281,297

30 YEAR COMPARISON



COMBINED AGRICULTURE PRODUCTION



Organic and Outreach Programs



ORGANIC FARMING STATISTICS:

There were 5 organic farms registered in 2012.

EASTERN SIERRA CERTIFIED FARMERS MARKET:

16 growers participated in the 2012 Farmers Markets. Commodities sold included: basil, chives, cilantro, dill, marjoram, parsley, rosemary, sage, tarragon, thyme, lavender, oregano, lemongrass, mint, paprika, spinach, corn, eggplant, tomato, squash, cucumber, peppers, green onions, potatoes, pumpkins, onions, beets, garlic, carrots, radishes, lettuce, broccoli, cauliflower, kale, arugula, sweet potatoes, Swiss chard, bok choy, cabbage, collards, Brussels sprouts, zucchini, shallots, tomatillos, grapes, apples, peaches, pears, nectarines, apricots, cherries, plums, persimmons, figs, watermelon, cantaloupe, honeydew, gourds, beans, raspberries, blackberries, boysenberries, strawberries, sweet peas, various bean varieties, walnuts, pecans, aloe, cut flowers, and eggs.

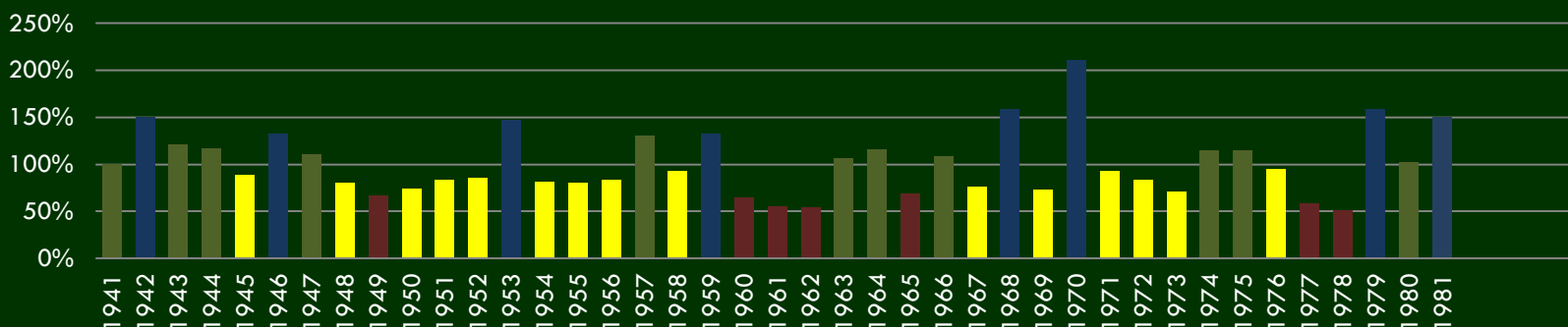
OUTREACH PROGRAM

During 2012, the Inyo/Mono Counties' Agriculture Department sponsored:

- 2 pesticide safety seminars with 135 professional card holders and private applicators attending, to meet California state continuing education requirements;
- 4 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.

EASTERN SIERRA RUNOFF CHART



Sustainable Agriculture

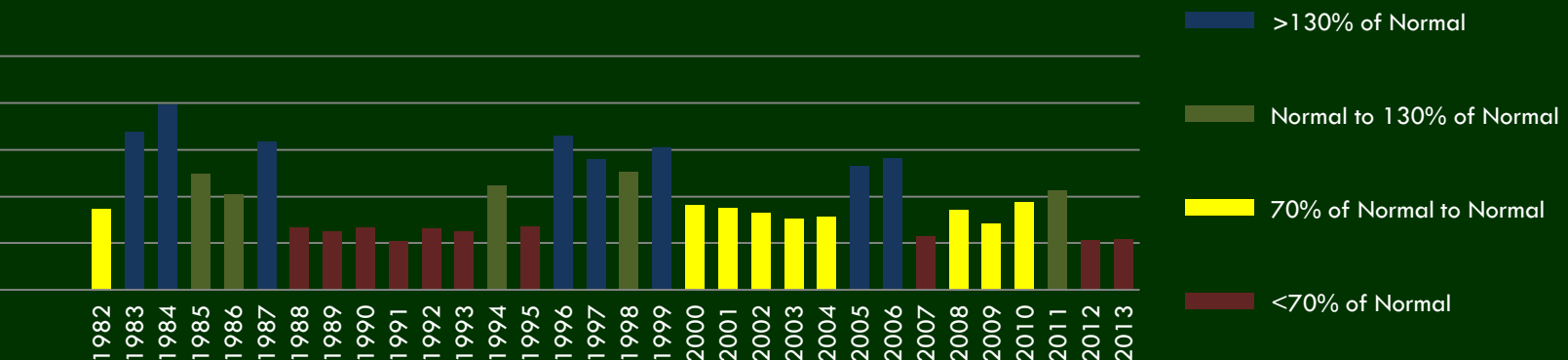
INVASIVE PLANT TARGETS

<u>PEST</u>	<u>AGENT/MECHANISM</u>	<u>NUMBER OF SITES</u>	<u>GROSS ACRES</u>
Puncturevine	Biological Control	25 sites	~
Dalmatian Toadflax	Mechanical	1 site	220
Yellow Starthistle	Mechanical	2 sites	13
Russian Knapweed	Herbicide	12 sites	3,307
Hoary Cress	Herbicide	2 sites	3
Canada Thistle	Herbicide	20 sites	3,289
Spotted Knapweed	Herbicide	4 sites	4
Halogeton	Mechanical	19 sites	4,400
Scotch Thistle	Herbicide	8 sites	1,311
Camelthorn	Herbicide	1 site	94
Saltcedar	Biological Control	3 sites	~
Saltcedar	Herbicide	100 sites	~
Perennial Pepperweed	Herbicide	137 sites	27,350

PEST EXCLUSION

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

11,220, Shipments Inspected



Weights and Measures



DEVICE INSPECTION PROGRAM

Over 1,400 devices were inspected in 2012 to ensure accuracy within California state tolerances. These devices included:

- 1,071 retail fuel meters;
- 251 retail scales;
- 51 livestock scales;
- 27 vehicle scales;
- 13 hopper scales;
- 8000 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, 13 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 necessities 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



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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Agriculture and Weights & Measures Departments

Eastern Sierra Weed Management Area

Owens Valley Mosquito Abatement Program

Staff:

Agricultural Commissioner / Director of Weights and Measures
Nathan Reade

Weights & Measures Inspector
David Miller

Account Technician II
Jennifer Sarten

Field Technician II – Weed Management
Carlos Paz

Field Assistant – Weed Management
Scott Gadea
Nelson Sanchez

Manager / Owens Valley Mosquito Abatement Program
Chris Wickham

Mosquito Control Technicians
Walter Davison
Casey Freeman
Bruce Mack
Robert Miller



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*



Alfalfa field near Independence



Counties of Inyo & Mono

Nathan D. Reade
Agricultural Commissioner
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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**

Rick Pucci, Chairman

Linda Arcularius

Jeff Griffiths

Matt Kingsley

Mark Tillemans

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

Larry Johnston, Chairman

Tim Alpers

Tim Fesko

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



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:	14,492 ft. (Mount Whitney)
Lowest Elevation:	-282 ft. (Badwater, D.V.N.P.)

Unincorporated Areas

Big Pine
Cartago
Independence
Lone Pine
Olancho
Pearsonville
Shoshone
Tecopa

Incorporated Cities

Bishop

Average Climate

	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%



2013

INYO COUNTY

CROP AND LIVESTOCK STATISTICS

Blossoms at Apple Hill Ranch, Wilkerson



LIVESTOCK						
ITEM	YEAR	HEAD	LIVEWEIGHT	UNIT	PRICE PER UNIT	TOTAL
Calves/Steers	2013	4,700	28,200	Cwt.	\$154.00	\$4,342,800
	2012	5,220	31,320		\$144.00	\$4,510,080
Calves/Heifers	2013	4,180	22,990	Cwt.	\$150.00	\$3,448,500
	2012	4,640	25,520		\$140.00	\$3,572,800
Cows	2013	1,620	17,820	Cwt.	\$114.00	\$2,031,480
	2012	1,800	19,800		\$107.00	\$2,118,600
Bulls	2013	180	2,520	Cwt.	\$109.00	\$274,680
	2012	205	2,870		\$102.00	\$292,740
Stockers (gain)	2013	4,450	~	~	~	\$1,929,600
	2012	4,950	~		~	\$2,251,200
Sheep and Lambs	2013	4,275	4,275	Cwt.	\$115.00	\$491,625
	2012	4,500	4,500		\$165.00	\$742,500
TOTAL LIVESTOCK PRODUCTION:				2013	\$12,518,685	
				2012	\$13,487,920	

POULTRY PRODUCTS						
ITEM		YEAR	PRODUCTION	UNIT	PRICE PER UNIT	TOTAL
Eggs		2013	2,500	Doz.	\$4.00	\$10,000
		2012	~		~	~
TOTAL POULTRY PRODUCTS:					2013	\$10,000
					2012	\$0

FIELD CROPS							
ITEM	YEAR	HARVESTED ACREAGE	YIELD PER ACRE	TOTAL YIELD	UNIT	PRICE PER UNIT	TOTAL
Alfalfa Hay	2013	3,100	6.50	20,150	Ton	\$240.00	\$4,836,000
	2012	3,260	6.50	21,190		\$235.00	\$4,979,650
Miscellaneous Field Crops	2013	1,725	4.00	6,900	Ton	\$235.00	\$1,621,500
	2012	1,725	4.00	6,900		\$230.00	\$1,587,000
Irrigated Pasture	2013	14,500	~	~	Acre	\$34.00	\$493,000
	2012	15,300	~	~		\$31.00	\$474,300
Dry Grazing	2013	177,800	~	~	Acre	\$6.00	\$1,066,800
	2012	187,200	~	~		\$5.50	\$1,029,600
TOTAL FIELD CROP PRODUCTION:				2013			\$8,017,300
				2012			\$8,070,550



Frozen wheel line, Bishop. Photo courtesy Lance Wagonner



ROW CROP PRODUCTION

ITEM	YEAR	ACREAGE	TOTAL YIELD	TOTAL
Potatoes	2013	160	~	\$800,000
	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
	2012	116	~	\$1,010,592
Dates and other misc. Fruits	2013	45	97,500	\$287,175
	2012	43	89,500	\$254,950
TOTAL MISCELLANEOUS CROP PRODUCTION			2013	\$1,439,773
			2012	\$1,265,542

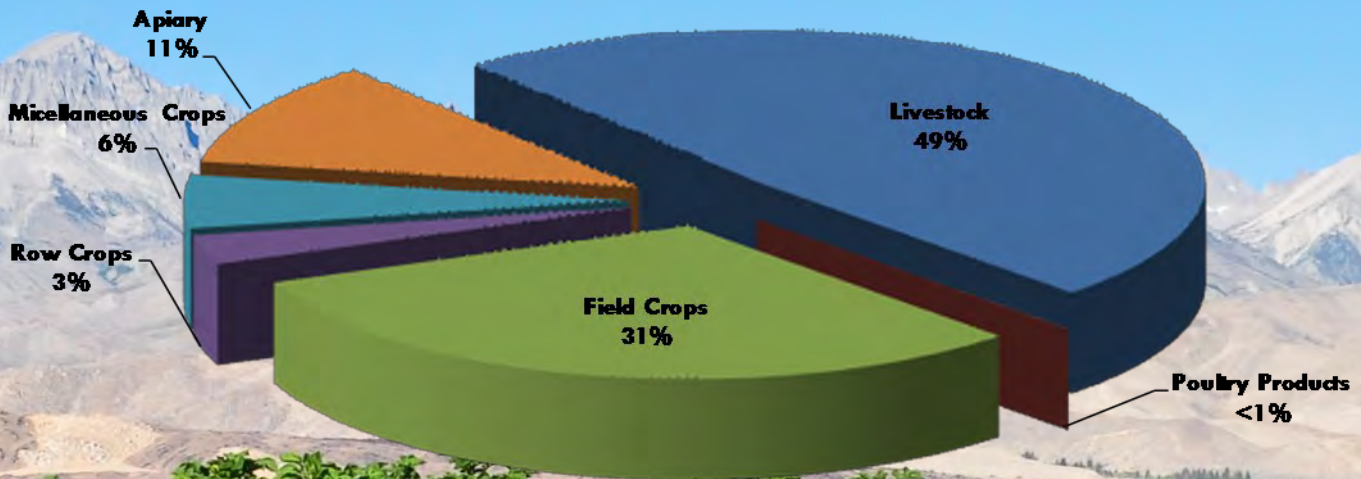
APIARY PRODUCTION

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

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



Potatoes flowering, Big Pine



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:	14,242 ft. (White Mountain)

Unincorporated Areas

Benton
Bridgeport
Chalfant Valley
Coleville
Hammil Valley
June Lake
Lee Vining
Tom's Place
Walker

Incorporated Cities

Mammoth Lakes

Average Climate

	Summer High	Winter Low
Bridgeport:	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%



2013

MONO COUNTY

CROP AND LIVESTOCK STATISTICS



Sheep Grazing, Coleville



LIVESTOCK

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

FIELD CROPS

ITEM	YEAR	HARVESTED ACREAGE	YIELD PER ACRE	TOTAL YIELD	UNIT	PRICE PER UNIT	TOTAL
Alfalfa Hay	2013	10,200	6.50	66,300	Ton	\$240.00	\$15,912,000
	2012	10,520	6.50	68,380		\$235.00	\$16,069,300
Miscellaneous Hay	2013	4,980	4.00	19,920	Ton	\$235.00	\$4,681,200
	2012	4,980	4.00	19,920		\$230.00	\$4,581,600
Irrigated Pasture	2013	44,550	~	~	Acre	\$40.00	\$1,782,000
	2012	49,500	~	~		\$37.00	\$1,831,500
Dry Grazing	2013	68,400	~	~	Acre	\$8.00	\$547,200
	2012	72,000	~	~		\$7.25	\$522,000
TOTAL FIELD CROP PRODUCTION:					2013		\$22,922,400
					2012		\$23,004,400

Cattle grazing, Conway Summit



ROW CROP PRODUCTION

ITEM	YEAR	ACREAGE	TOTAL YIELD	TOTAL
Garlic	2013	250	~	\$1,120,000
	2012	230	~	\$993,600
Potatoes	2013	145	~	\$725,000
	2012	220	~	\$935,000
TOTAL ROW CROP PRODUCTION:			2013	\$1,845,000
			2012	\$1,928,600

FRUIT CROP PRODUCTION

ITEM	YEAR	ACREAGE	YIELD PER ACRE	UNIT	PRICE PER UNIT	TOTAL
Wine Grapes	2013	25	3.00	Ton	\$637.00	\$47,775
	2012	25	3.00		\$650.00	\$48,750
TOTAL FRUIT CROP PRODUCTION:				2013		\$47,775
				2012		\$48,750

TIMBER PRODUCTION

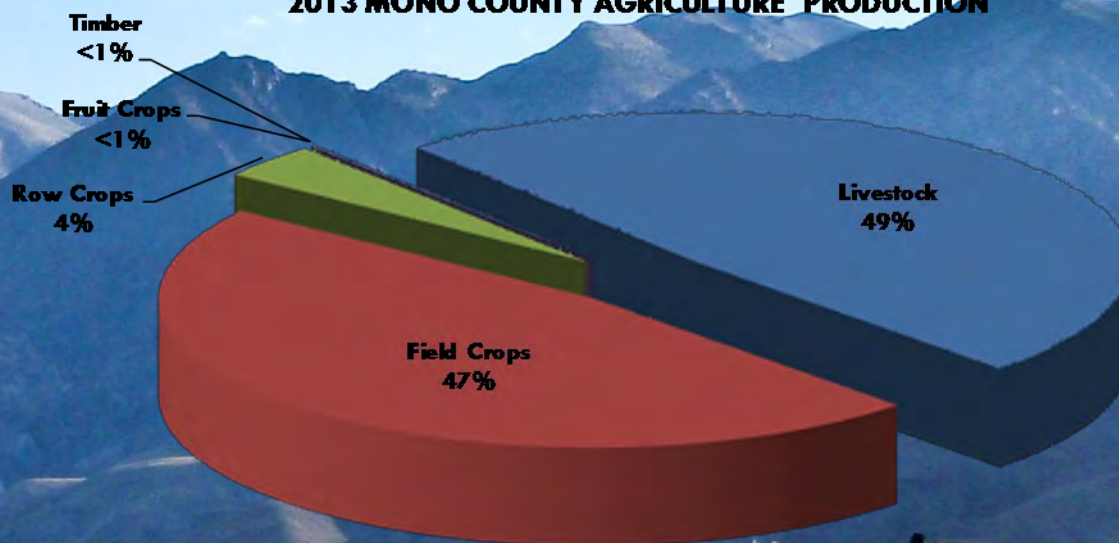
ITEM	YEAR	TOTAL
Timber/Firewood	2013	\$23,280
	2012	\$29,350
TOTAL TIMBER PRODUCTION:	2013	\$23,280
	2012	\$29,350



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

2013 MONO COUNTY AGRICULTURE PRODUCTION



Potato harvest, Hammil Valley

COMPARISON SUMMARY



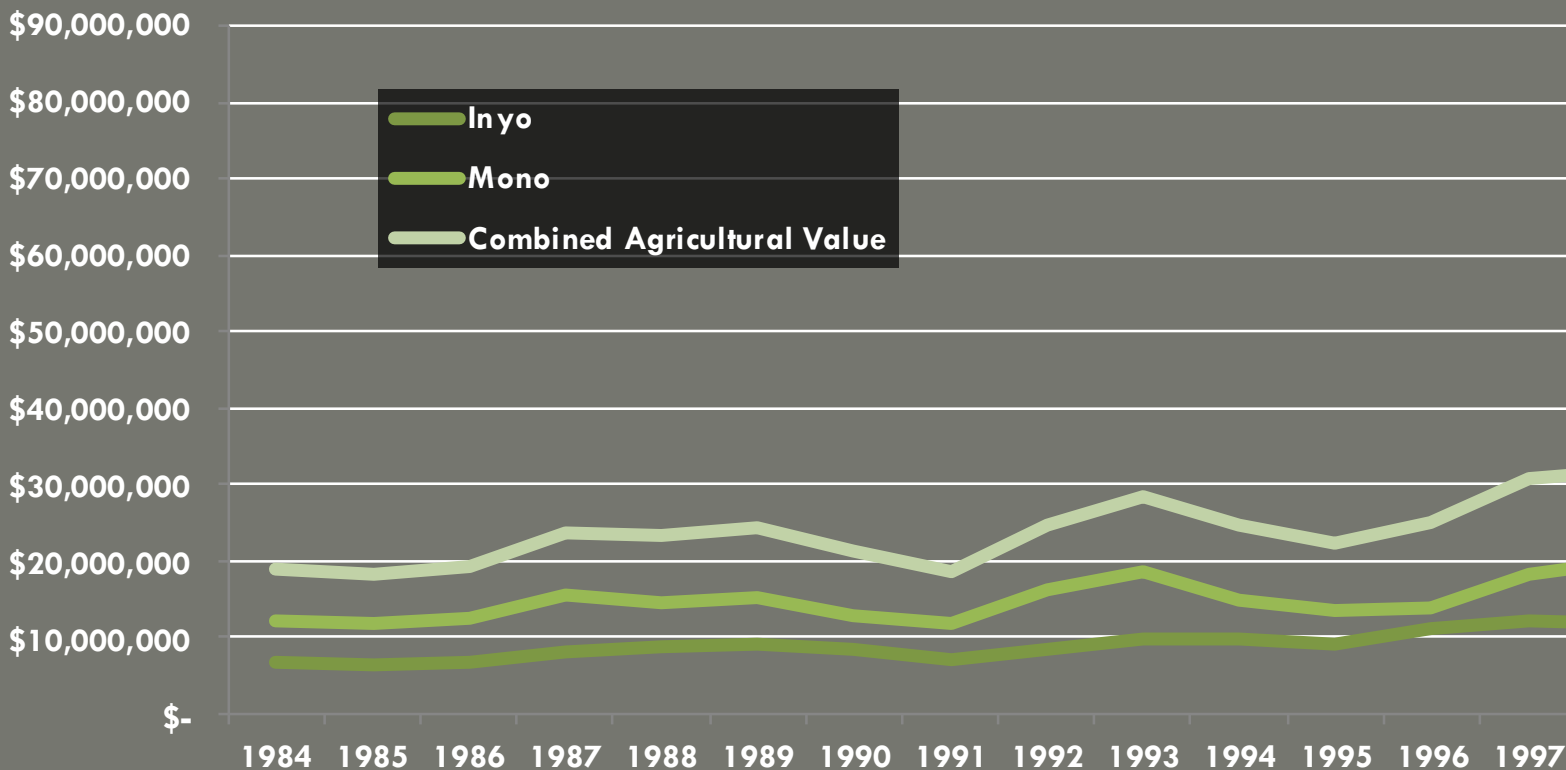
COMPARISON SUMMARY

2009-2013

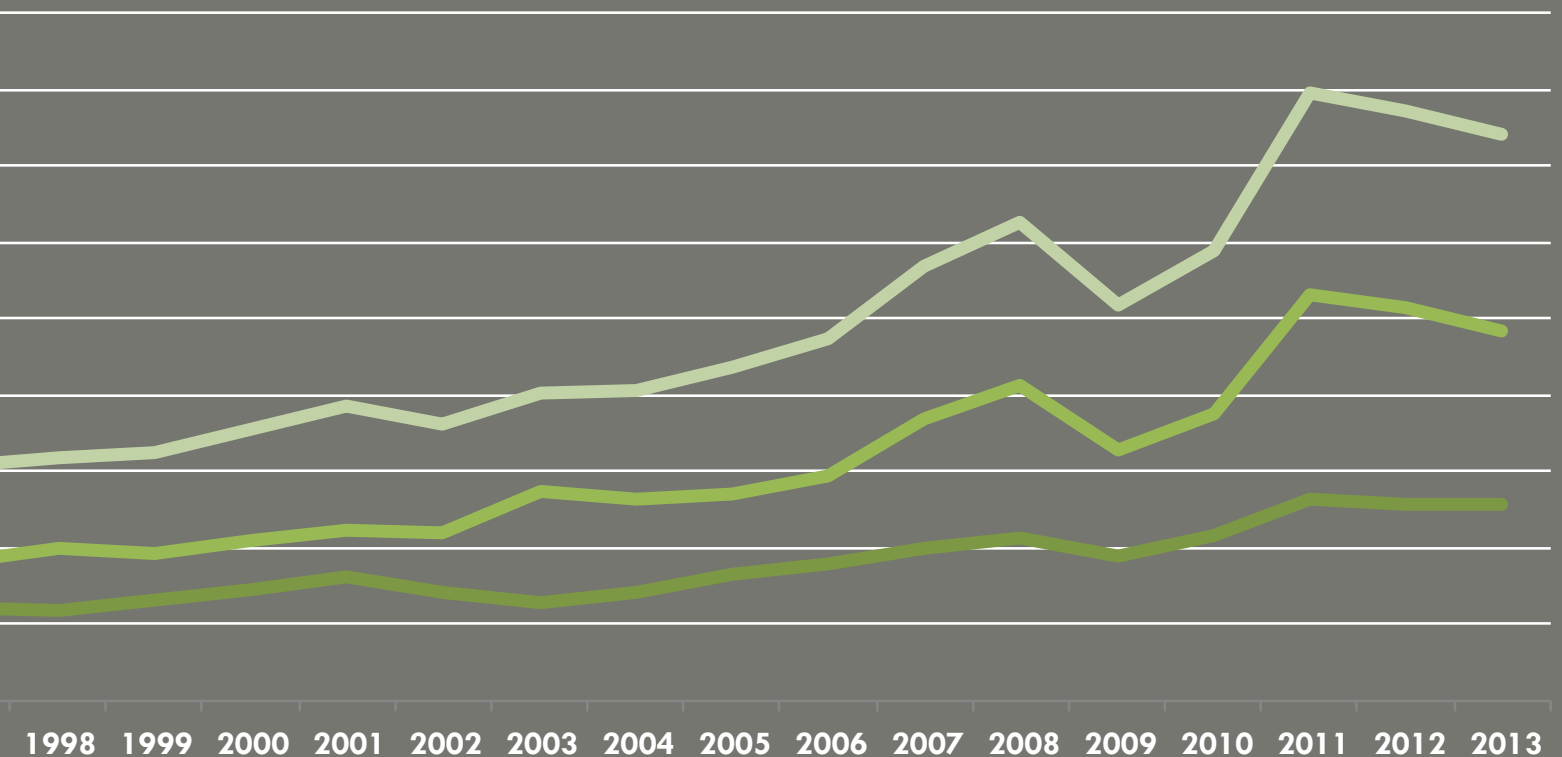
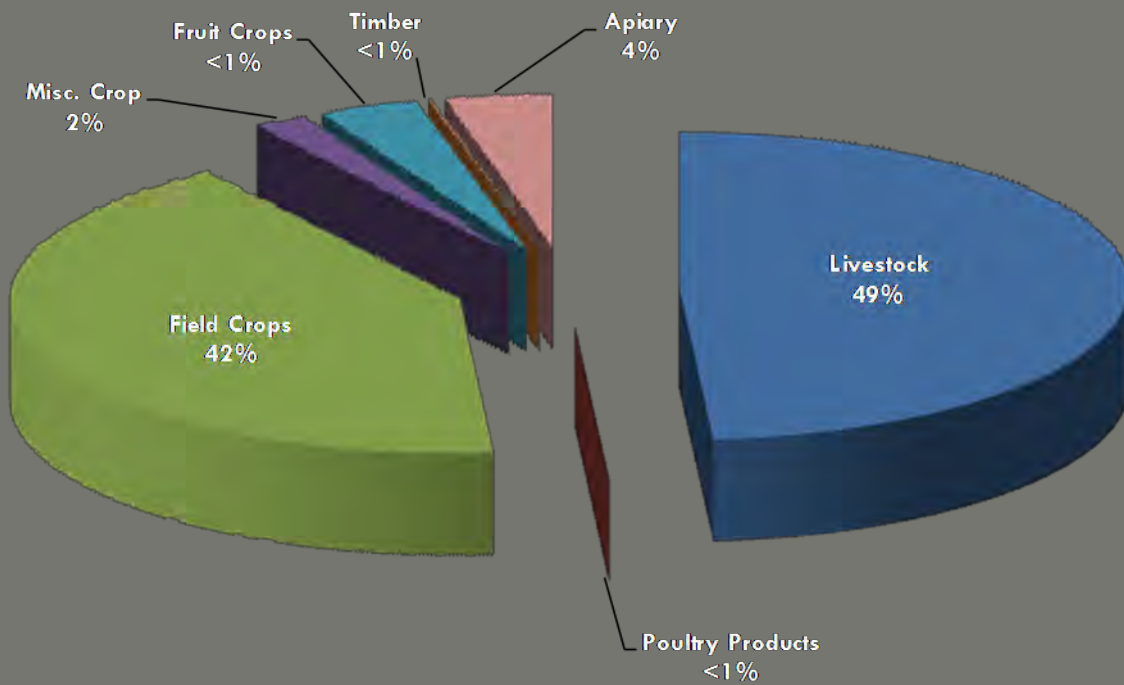


	2009	2010	2011	2012	2013
INYO COUNTY TOTALS	\$19,127,350	\$21,546,770	\$26,269,556	\$25,693,437	\$25,647,988
MONO COUNTY TOTALS	\$32,697,305	\$37,508,055	\$53,143,406	\$51,587,860	\$48,503,425
COMBINED TOTALS	\$51,824,655	\$59,054,825	\$79,412,962	\$77,281,297	\$74,151,413

30 YEAR COMPARISON



COMBINED AGRICULTURE PRODUCTION



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.

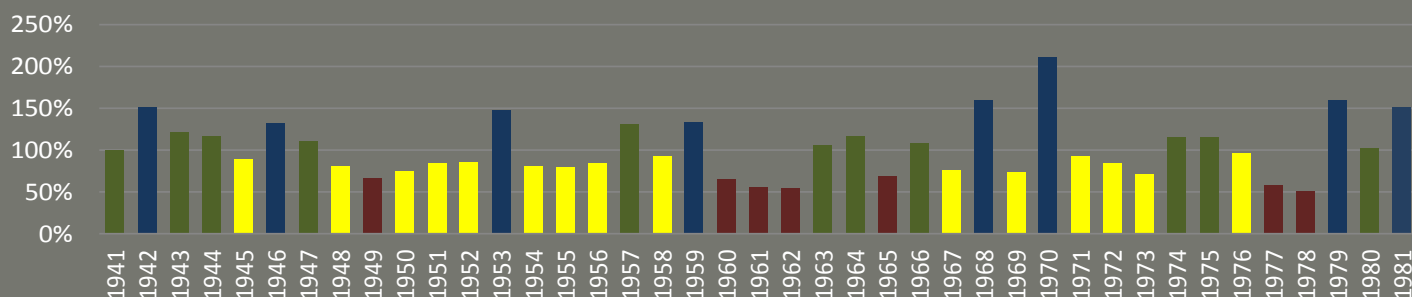
OUTREACH PROGRAM

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

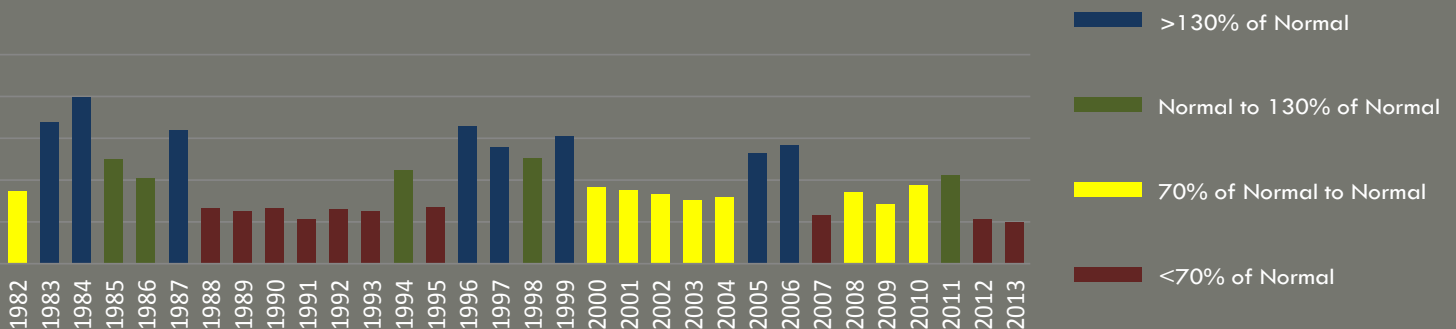
INVASIVE PLANT TARGETS

<u>PEST</u>	<u>AGENT/MECHANISM</u>	<u>NUMBER OF SITES</u>	<u>GROSS ACRES</u>
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 retail 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

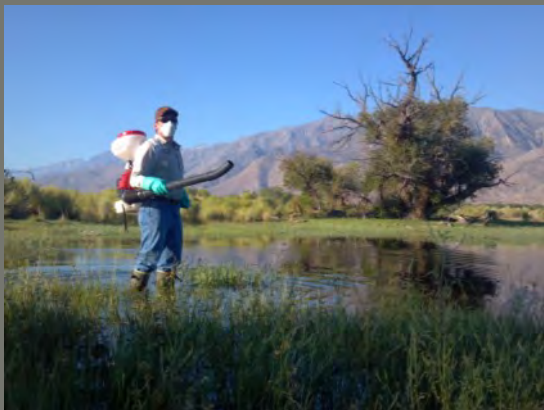
Anyone who installs or repairs a weighing or measuring device in Inyo or Mono Counties must register with our office and inform our office when work takes place. This ensures that devices are not tampered with and transaction equity.



"Weights and measures may be ranked among the necessities 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**



2014 CROP AND LIVESTOCK REPORT



COUNTIES OF INYO AND MONO AGRICULTURAL COMMISSIONER'S OFFICE

207 W SOUTH STREET

BISHOP, CA 93514

2014 Crop and Livestock Report

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Measures Departments



Eastern Sierra Weed Management Area



Owens Valley Mosquito Abatement Program

Staff:

Agricultural Commissioner / Director of Weights and Measures
Nathan Reade

Supervising Agricultural Biologist
Oliver Hardwick

Ag/Weights & Measures Inspector II
David Miller

Account Technician II
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Cover: Cattle Grazing in the Antelope Valley, Mono County



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.

"Agriculture... is the first in utility, and ought to be the first in respect."

-Thomas Jefferson





Counties of Inyo & Mono

Nathan D. Reade
Agricultural Commissioner
Director of Weights and Measures
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Email – inyomonoag@gmail.com Web - www.inyomonoagriculture.com



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**

Matt Kingsley, Chairman

Jeff Griffiths
Mark Tillemans

Rick Pucci
Dan Tothoroh

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

Tim Fesko, Chairman

Tim Alpers
Larry Johnston

Stacy Corless
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



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:	14,492 ft. (Mount Whitney)
Lowest Elevation:	-282 ft. (Badwater, D.V.N.P.)

Unincorporated Areas

Big Pine
Cartago
Independence
Lone Pine
Olancho
Pearsonville
Shoshone
Tecopa

Incorporated Cities

Bishop

Average Climate

	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%



2014

INYO COUNTY

CROP AND LIVESTOCK STATISTICS

Corrals by Calvert Slough, Inyo County



LIVESTOCK						
ITEM	YEAR	HEAD	LIVEWEIGHT	UNIT	PRICE PER UNIT	TOTAL
Calves/Steers	2014	4,020	25,800	Cwt.	\$179.00	\$4,621,000
	2013	4,700	28,200		\$154.00	\$4,342,800
Calves/Heifers	2014	3,620	21,500	Cwt.	\$174.00	\$3,740,000
	2013	4,180	22,990		\$150.00	\$3,448,500
Cows	2014	1,830	20,600	Cwt.	\$121.00	\$2,494,000
	2013	1,620	17,820		\$114.00	\$2,031,480
Bulls	2014	167	2,760	Cwt.	\$116.00	\$320,000
	2013	180	2,520		\$109.00	\$274,680
Sheep and Lambs*	2014	3,431	3,960	Cwt.	\$125.00	\$496,000
	2013	4,275	4,275		\$115.00	\$491,625
Miscellaneous**	2014	~	~	~	~	\$36,000
	2013	~	~		~	\$1,929,600
TOTAL LIVESTOCK PRODUCTION:				2014		\$11,707,000
				2013		\$12,518,685

*Includes feeder lamb gain.

** Includes beef stocker gain, goats, hogs, and poultry.

LIVESTOCK & POULTRY PRODUCTS					
ITEM	YEAR	PRODUCTION	UNIT	PRICE PER UNIT	TOTAL
Eggs	2014	4,300	Doz.	\$4.05	\$17,400
	2013	2,500		\$4.00	\$10,000
Wool*	2014	21,600	Lbs.	\$135.00	\$29,200
	2013	~		~	~
TOTAL LIVESTOCK & POULTRY PRODUCTS:				2014	\$46,600
				2013	\$10,000

* 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
Miscellaneous*	2014	32	~	~	~	~	\$188,000
	2013	45	~	~		~	\$287,000
TOTAL FRUIT & NUT CROP PRODUCTION:				2014			\$188,000
				2013			\$287,175

* Includes almonds, apples, apricots, 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
Miscellaneous* **	2014	10	~	~	~	~	\$43,600
	2013	~	~	~		~	~
TOTAL VEGETABLE CROP PRODUCTION:				2014			\$43,600
				2013			~

* Not previously reported.

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

Cattle grazing, Big Pine



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
	2013	3,100	6.50	20,150		\$240.00	\$4,836,000
Pasture, Irrigated	2014	14,500	~	~	Acre	\$70.00	\$1,017,000
	2013	14,500	~	~		\$34.00	\$493,000
Pasture, Rangeland	2014	1,172,000	~	~	Acre	\$1.05	\$1,230,000
	2013	177,800	~	~		\$6.00	\$1,066,800
Miscellaneous*	2014	807	~	~	~	~	\$1,010,000
	2013	1,885	~	~		~	\$2,421,500
TOTAL FIELD CROP PRODUCTION:				2014	\$7,494,000		
				2013	\$8,817,300		

* Includes garlic, grain hay, sudangrass hay, and other hay.

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

* Includes cacti and succulents, palms, and turf.

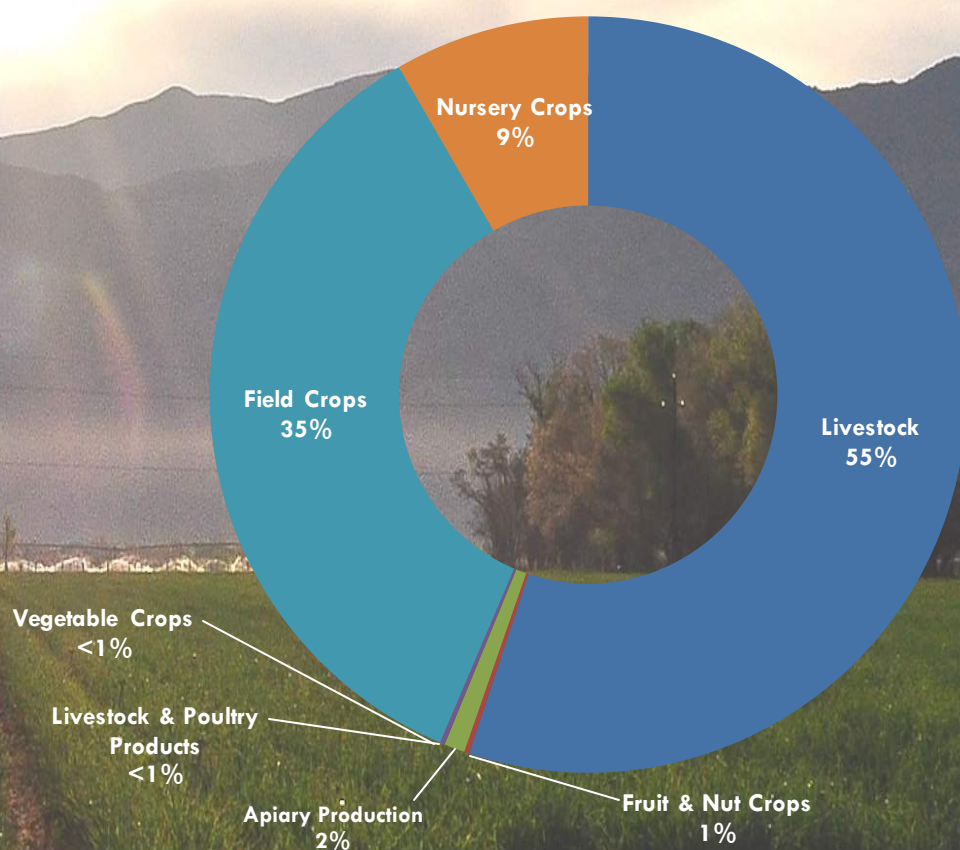
APIARY PRODUCTION					
ITEM	YEAR	PRODUCTION	UNIT	PRICE PER UNIT	TOTAL
Honey	2014	129,000	Lbs.	\$3.00	\$387,000
	2013	824,850		\$3.47	\$2,862,230
Miscellaneous*	2014	~	~	~	\$21,600
	2013	~		~	~
TOTAL APIARY PRODUCTION:				2014	\$409,000
				2013	\$2,862,230

* Includes beeswax and pollen.

ALL FIGURES MAY NOT ADD DUE TO ROUNDING

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



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:	14,242 ft. (White Mountain)

Unincorporated Areas

Benton
Bridgeport
Chalfant Valley
Coleville
Hammil Valley
June Lake
Lee Vining
Tom's Place
Topaz
Walker

Incorporated Cities

Mammoth Lakes

Average Climate

	Summer High	Winter Low
Bridgeport:	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%



2014

MONO COUNTY

CROP AND LIVESTOCK STATISTICS

Hammil Valley from Chidago Canyon Road



LIVESTOCK						
ITEM	YEAR	HEAD	LIVEWEIGHT	UNIT	PRICE PER UNIT	TOTAL
Calves/Steers	2014	4,000	26,000	Cwt.	\$179.00	\$4,654,000
	2013	6,480	38,880		\$154.00	\$5,987,520
Calves/Heifers	2014	3,400	20,400	Cwt.	\$174.00	\$3,550,000
	2013	5,500	30,250		\$150.00	\$4,537,500
Cows	2014	1,800	19,800	Cwt.	\$121.00	\$2,396,000
	2013	2,230	24,530		\$114.00	\$2,796,420
Bulls	2014	200	3,200	Cwt.	\$116.00	\$371,000
	2013	250	3,500		\$109.00	\$381,500
Sheep and Lambs*	2014	14,508	16,700	Cwt.	\$125.00	\$2,096,000
	2013	17,955	17,955		\$115.00	\$2,064,830
Miscellaneous**	2014	~	~	~	~	\$1,276,000
	2013	~	~		~	\$7,897,200
TOTAL LIVESTOCK PRODUCTION:				2014		\$14,343,000
				2013		\$23,664,970

* Includes feeder lamb gain.

** Includes beef stocker gain, goats, hogs, and poultry.

LIVESTOCK & POULTRY PRODUCTS					
ITEM	YEAR	PRODUCTION	UNIT	PRICE PER UNIT	TOTAL
Wool*	2014	91,400	Lbs.	\$135.00	\$123,000
	2013	~		~	~
TOTAL LIVESTOCK & POULTRY PRODUCTS:				2014	\$123,000
				2013	~

* 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
Miscellaneous*	2014	18	~	~	~	~	\$44,100
	2013	25	~	~		~	\$47,775
TOTAL FRUIT & NUT CROP PRODUCTION:				2014			\$44,100
				2013			\$47,775

* Includes grapes (wine), pome fruit, and stone fruit.



Cattle Grazing near Sonora Junction



FIELD CROPS and FOREST PRODUCTS

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	\$265.00	\$13,952,000
	2013	10,200	6.50	66,300		\$240.00	\$15,912,000
Pasture, Irrigated	2014	43,600	~	~	Acre	\$70.00	\$3,049,000
	2013	44,550	~	~		\$40.00	\$1,782,000
Pasture, Rangeland	2014	1,060,000	~	~	Acre	\$1.33	\$1,410,000
	2013	68,400	~	~		\$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		
				2013	\$24,767,400		

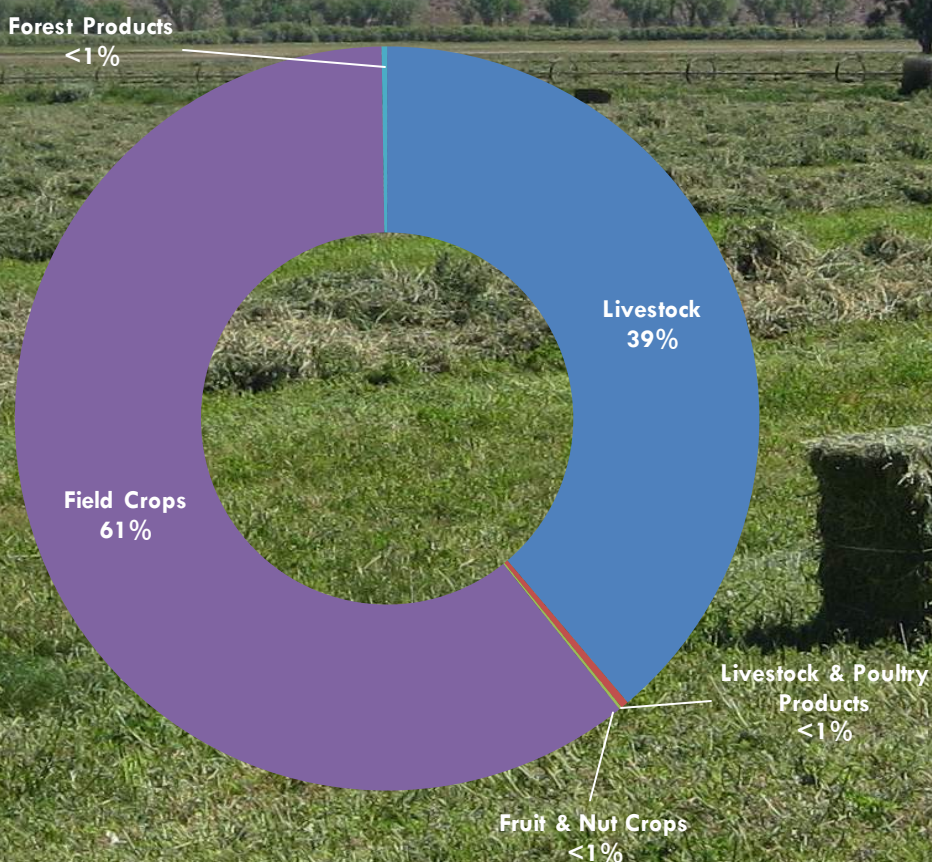
* Includes garlic, grain hay, sudangrass hay, other hay, and potato.

FOREST PRODUCTS		
ITEM	YEAR	TOTAL
Timber and Firewood	2014	\$87,400
	2013	\$23,280
TOTAL FOREST PRODUCTS:		2014 \$87,400
		2013 \$23,280

ALL FIGURES MAY NOT ADD DUE TO ROUNDING

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	\$87,400
TOTALS	48,503,425	\$36,947,000

MONO COUNTY AGRICULTURAL PRODUCTION



Freshly cut hay, Topaz



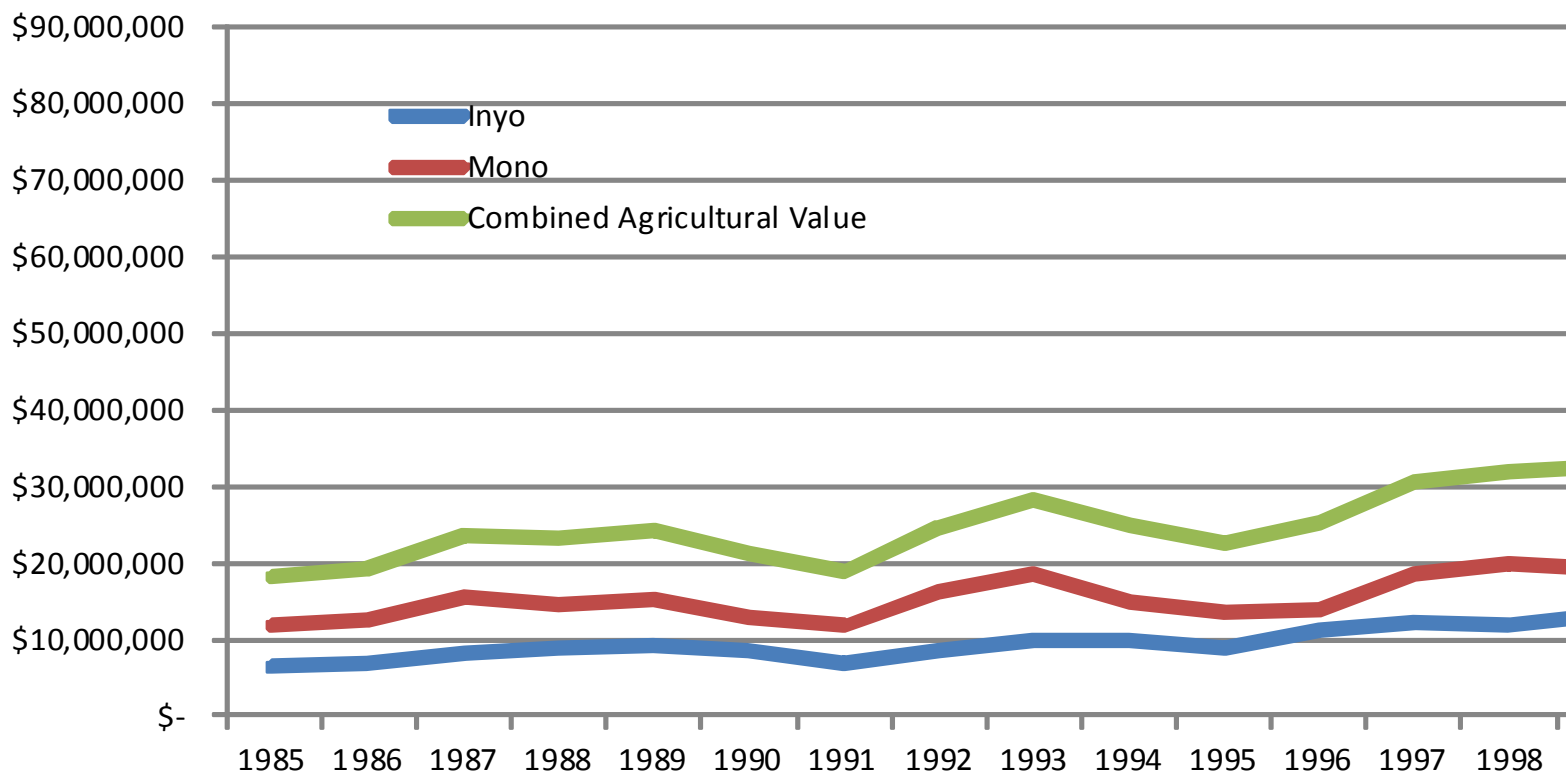
COMPARISON SUMMARY

2010-2014

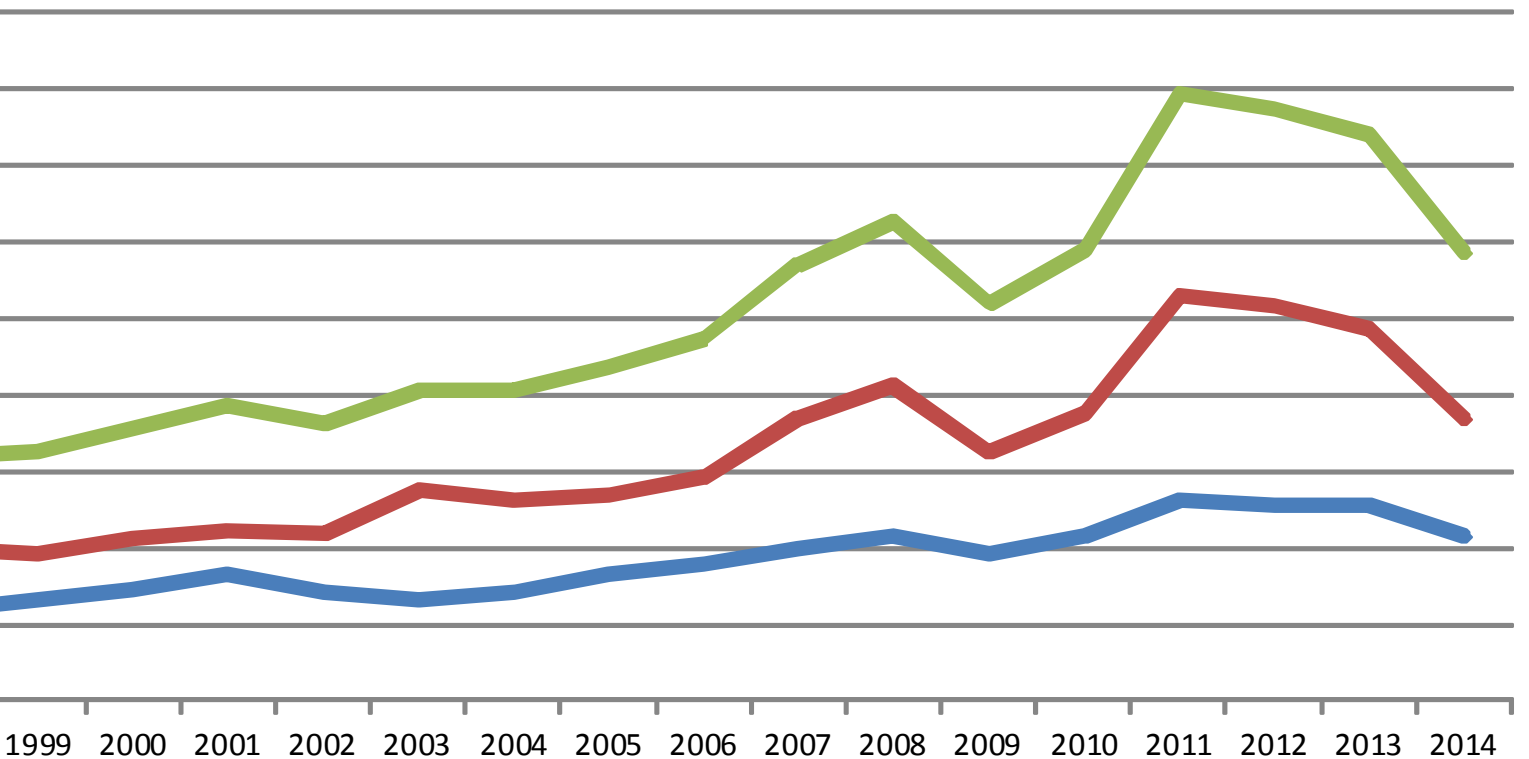
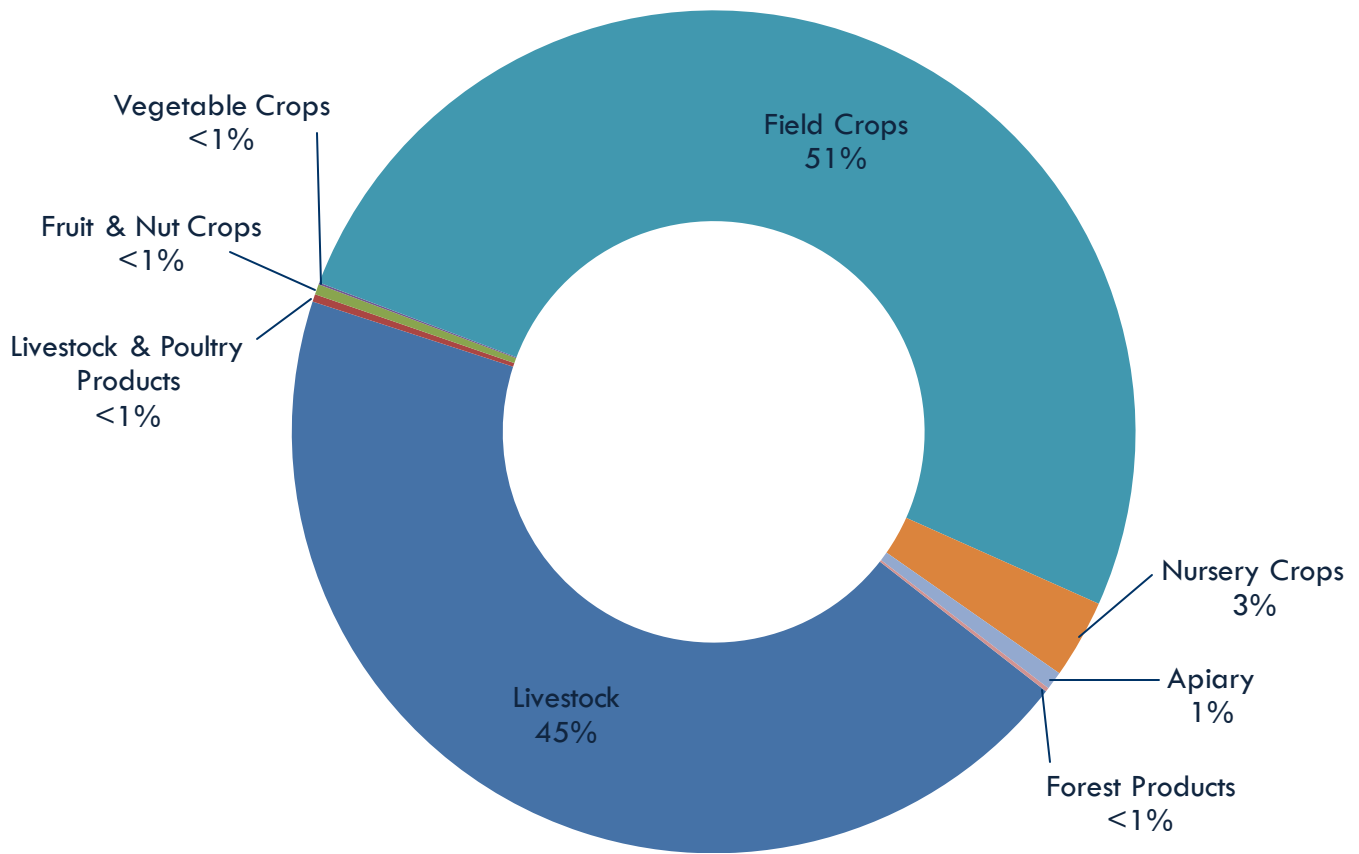


	2010	2011	2012	2013	2014
INYO COUNTY TOTALS	\$21,546,770	\$26,269,556	\$25,693,437	\$25,647,988	\$21,659,000
MONO COUNTY TOTALS	\$37,508,055	\$53,143,406	\$51,587,860	\$48,503,425	\$36,947,000
COMBINED TOTALS	\$59,054,825	\$79,412,962	\$77,281,297	\$74,151,413	\$58,606,000

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

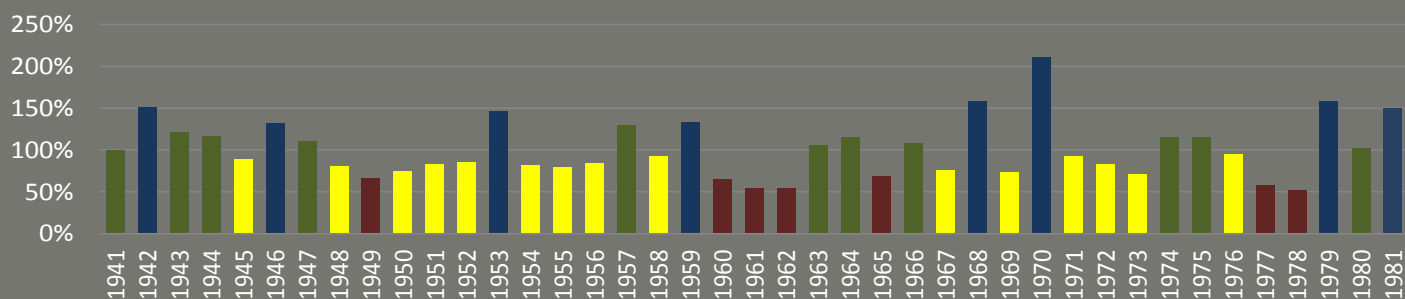


Commodities sold included:

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

PEST	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:

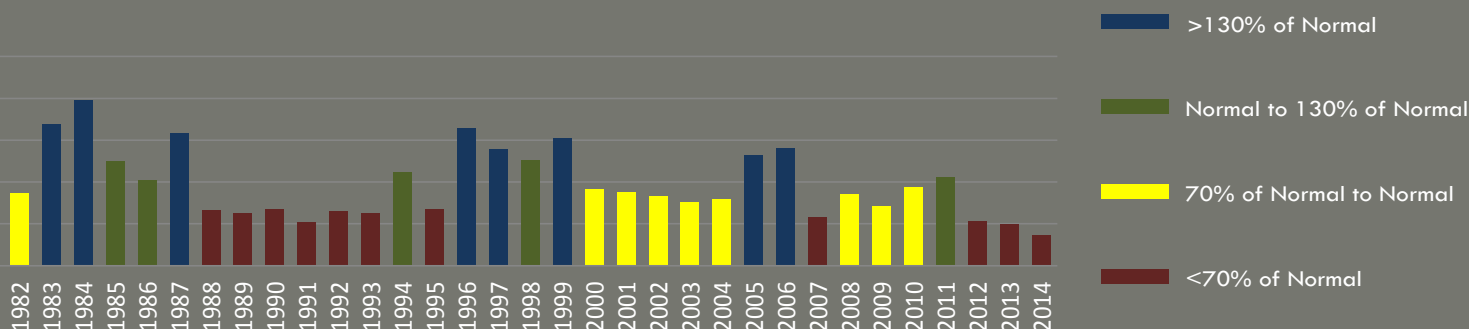
1000+ Shipments Inspected

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 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 necessities 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 Olancho 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

