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California Department of Food and Agriculture

Agricultural Commissioners' Crop Reports

Madera County

1995-1999

Agricultural Crop Report



California Figs

Madera County

1995

Ann M. Veneman, Secretary
California Department of Food and Agriculture

and

The Honorable Board of Supervisors
County of Madera

I am pleased to submit Madera County's annual Crop Report.

The 1995 growing season presented enormous challenges to the men and women involved in production agriculture. Madera County growers were confronted with severe weather patterns that wracked the state. Almond trees were toppled by strong winds following heavy rains. Cotton production plummeted due to flooding, poor growing conditions, and unusually heavy insect pressures. However, in many cases, limited production was offset by higher crop values.

The total value in 1995 was \$603,267,000. This is approximately 11.7 million dollars less than 1994; a decrease of 1.9%. Almond production fell by over 47%, while the crop value skyrocketed over 80%. Grape production was off an average of 6.79%, while the price was up 14.53%. Cotton production was off over 19%, while the price received was up 5%. Sugar Beets returned to the million dollar crop list. It should be noted that some crops, such as Olives and Pistachios, bear on alternate cycles. This year, Olives were on an up cycle while Pistachios were on the down cycle.

The production figures noted indicate gross production and are not intended to represent net income to individual producers. Furthermore, this report does not measure the additional value provided to the local economy through labor, transportation, processed products, and other industries.

I sincerely appreciate the efforts of my staff, in particular Scott Porteous and Stevie McNeill who compiled this report, as well as the staff of the University of California Cooperative Extension, local growers and ranchers, and industry representatives who contributed to the preparation of this report.

Respectfully Submitted,



Robert J. Rolan
Agricultural Commissioner

About the Cover:

The fig has been used as a source of sustenance throughout history. It was favored by the Greeks, Egyptians, and Romans as both a fresh and dried fruit. Figs were first planted in California by Spanish missionaries as early as 1750 to provide an additional source of food for the inhabitants of their missions which eventually stretched from San Diego to Sonoma. Commercial production of figs began about the time of the Gold Rush and flourished, primarily in the San Joaquin Valley. Today, all commercially grown figs in the U.S. are from California. Madera County is the leading production county, accounting for over 60% of the total 1995 crop and with more than half of the total planted acreage in the state.

Special thanks to local artist M. Jo Osborne who created the original artwork for the crop report cover.

ANNUAL CROP REPORT 1995
MADERA COUNTY

Compiled By:

Scott Porteous
Stevie McNeill

Board of Supervisors

Patty Logoluso
Alfred Ginsburg, Chairman
Gail Hanhart McIntyre
Jess Lopez
Harry H. Baker Jr.

District 1
District 2
District 3
District 4
District 5

County Administrative Officer

Stell Manfredi

Madera County Department of Agriculture Staff

Robert J. Rolan, Agricultural Commissioner
David A. Robinson, Assistant Agricultural Commissioner
Randall J. Hansen, Deputy Commissioner
Donald G. Mayeda, Deputy Commissioner

Carol Massetti-Walters, Ag/Standards Inspector III
Scott G. Porteous, Ag/Standards Inspector III
Bruce H. Rohn, Ag/Standards Inspector III
Susan S. Wilson, Ag/Standards Inspector III
Bruce E. Derry, Ag/Standards Inspector II
Stevie McNeill, Ag/Standards Inspector II
Iqbal Brar, Ag/Standards Inspector I

Lore Ciuffoli, Administrative Assistant
Tammy Dodson, Program Assistant II
Frances Speelmon, Office Assistant II



FIELD CROPS: ACREAGE, PRODUCTION, AND VALUE 1994-1995

ITEM	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Barley, Irrigated	1995	2,804	1.60	4,486	Ton	\$110.00	\$ 493,000
	1994	3,500	2.10	7,350	"	106.00	779,000
Beans, Dry a/	1995	3,720	1.15	4,278	"	500.00	2,139,000
	1994	3,100	1.09	3,379	"	670.00	2,264,000
Corn, Field	1995	8,400	4.10	34,440	"	140.00	4,822,000
	1994	7,500	4.60	34,500	"	100.00	3,450,000
Corn, Silage	1995	5,300	27.00	143,100	"	23.00	3,291,000
	1994	4,700	28.00	131,600	"	22.00	2,895,000
Silage, Other b/	1995	1,800	12.00	21,600	"	19.00	410,000
	1994	1,750	15.00	26,250	"	18.00	473,000
Cotton, Lint	1995	51,334	979 c/	100,512	Bales	.82 d/	41,210,000
	1994	46,240	1214 c/	112,271	"	.78 d/	43,786,000
Cotton, Seed	1995	xx	xx	43,258	Ton	162.00	7,008,000
	1994	xx	xx	53,522	"	150.00	8,028,000
Hay, Alfalfa	1995	36,782	7.60	279,543	"	119.00	33,266,000
	1994	33,200	8.10	268,920	"	110.00	29,581,000
Pasture, Irrigated	1995	5,000	xx	xx	"	120.00	600,000
	1994	5,000	xx	xx	"	120.00	600,000
Pasture, Other	1995	389,000	xx	xx	"	8.00	3,112,000
	1994	389,000	xx	xx	"	8.00	3,112,000
Stubble e/	1995	14,000	xx	xx	"	14.00	196,000
	1994	14,000	xx	xx	"	14.00	196,000
Sugar Beets	1995	1,119	26.95	30,157	"	36.90	1,113,000
	1994	640	31.95	20,448	"	36.20	740,000

a/ Includes black-eyes, kidneys, and limas

b/ Includes alfalfa, oats, and winter forage

c/ Pounds

d/ Per Pound

e/ Includes alfalfa, corn and grain



FIELD CROPS: ACREAGE, PRODUCTION, AND VALUE 1994-1995

ITEM	YEAR	HARVESTED ACREAGE	PRODUCTION			VALUE	
			PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Wheat	1995	15,385	2.31	35,539	Ton	\$125.00	\$ 4,442,000
	1994	19,600	2.70	52,920	"	110.00	5,821,000
Misc. a/	1995	7,631	xx	xx	xx	xx	2,024,000
	1994	7,939	xx	xx	xx	xx	2,491,000
TOTAL	1995	542,275					\$104,126,000
	1994	536,169					104,216,000

SEED CROPS, ACREAGE, PRODUCTION, AND VALUE 1994-1995

ITEM	YEAR	HARVESTED ACREAGE	PRODUCTION			VALUE		
			PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL	
Misc. Seed	1995	Included in Misc. Field Crops						
	1994	995	xx	xx	xx	xx	\$ 362,000	

VEGETABLE CROPS, ACREAGE, PRODUCTION, AND VALUE 1994-1995

ITEM	YEAR	HARVESTED ACREAGE	PRODUCTION			VALUE	
			PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Vegetables b/	1995	5,923	xx	xx	xx	xx	\$ 7,359,000
	1994	7,301	xx	xx	xx	xx	10,433,000

a/ Includes dryland grains, oats, rice, sorghum, safflower, and seed crops

b/ Includes broccoli, carrots, all cabbage, cucumbers, garlic, onions, all melons, all peppers, pumpkins, all squash, all tomatoes, and miscellaneous truck crops



FRUIT AND NUT CROPS, ACREAGE, PRODUCTION, AND VALUE 1994-1995

ITEM	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Almonds a/	1995	40,544	.47	19,056	Ton	\$4,880.00	\$ 92,993,000
	1994	39,800	.89	35,422	"	2,700.00	95,639,000
Almond Hulls	1995	xx	xx	38,111	"	70.00	2,668,000
	1994	xx	xx	70,844	"	60.00	4,251,000
Apples b/	1995	2,817	10.60	29,860	"	628.00	18,752,000
	1994	2,599	13.10	34,047	"	500.00	17,023,000
Figs	1995	7,675	1.34	10,285	"	1,183.00	12,167,000
	1994	7,164	1.52	10,889	"	1,268.00	13,808,000
Grapes, Raisin	1995	42,956	xx	xx	"	xx	87,332,000
	1994	42,460	xx	xx	"	xx	87,546,000
Dried	1995	28,506	2.02	57,582	"	930.00	53,551,000
	1994	28,177	2.15	60,581	"	925.00	56,037,000
Crushed	1995	11,014	9.00	99,126	"	164.00	16,257,000
	1994	10,887	9.70	105,604	"	127.00	13,412,000
Fresh	1995	3,436	6.80	23,365	"	750.00	17,524,000
	1994	3,396	7.30	24,791	"	730.00	18,097,000
Grapes, Table	1995	2,429	7.09	17,222	"	950.00	16,361,000
	1994	2,350	7.45	17,508	"	800.00	14,006,000
Grapes, Wine c/	1995	38,508	xx	xx	"	xx	77,795,000
	1994	38,819	xx	xx	"	xx	69,231,000
Red Varieties	1995	15,403	8.20	126,305	"	283.00	35,744,000
	1994	14,406	9.00	129,654	"	233.00	30,209,000
White Varieties	1995	23,105	10.40	240,292	"	175.00	42,051,000
	1994	24,413	11.10	270,984	"	144.00	39,022,000
Nectarines	1995	856	5.98	5,119	"	670.00	3,430,000
	1994	802	6.40	5,133	"	550.00	2,823,000
Olives	1995	1,781	4.50	8,015	"	645.00	5,170,000
	1994	1,781	4.27	7,605	"	460.00	3,498,000

a/ Meat basis

b/ Total production & value includes apples harvested from non-bearing acreage

c/ Includes table grapes crushed

 FRUIT AND NUT CROPS, ACREAGE, PRODUCTION, AND VALUE 1994-1995

ITEM	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Oranges	1995	4,224	13.87	58,587	Ton	\$ 221.00	\$ 12,948,000
	1994	4,161	15.10	62,831	"	357.00	22,431,000
Peach, Free	1995	993	7.20	7,150	"	678.00	4,848,000
	1994	923	8.40	7,753	"	390.00	3,024,000
Pistachios a/	1995	16,247	0.85	13,810	"	1,920.00	26,515,000
	1994	16,282	1.05	17,096	"	1,844.00	31,525,000
Plums	1995	1,321	4.91	6,486	"	960.00	6,227,000
	1994	1,268	5.96	7,557	"	475.00	3,590,000
Walnuts	1995	876	1.29	1,130	"	1460.00	1,650,000
	1994	876	1.42	1,244	"	960.00	1,194,000
Misc. b/	1995	2,749	xx	xx	xx	xx	11,587,000
	1994	2,506	xx	xx	xx	xx	10,561,000
TOTAL	1995	163,976					\$380,443,000
	1994	161,791					380,150,000

APIARY PRODUCTS 1994-1995

ITEM	YEAR	PRODUCTION TOTAL	UNIT	PER UNIT	TOTAL
Honey	1995	1,320,000	Pound	\$.60	\$ 792,000
	*1994	760,000	"	.46	350,000
Pollination	1995	105,000	Colony	35.00	3,675,000
	1994	105,000	"	34.60	3,633,000
TOTAL	1995				\$ 4,467,000
	*1994				3,983,000

a/ Total production and value includes pistachios harvested from non-bearing acreage

b/ Includes apricots, cherries, cling peaches, kiwis, lemons, pears, pecans, prunes, tangerines, tangelos, persimmons, and pomegranates

* Revised



JANUARY 1, INVENTORIES OF LIVESTOCK ESTIMATED IN NUMBER OF HEAD

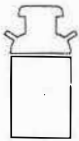
	JANUARY 1, 1995	JANUARY 1, 1996
Cattle & Calves	92,000	No longer supplied *
Beef Cows	20,000	No longer supplied *
Milk Cows	23,000	No longer supplied *
Stock Sheep	8,000	No longer supplied *
Hogs	1,500	No longer supplied *

LIVESTOCK AND POULTRY: PRODUCTION AND VALUE 1994-1995

ITEM	YEAR	HEAD	LIVEWEIGHT	UNIT	PER UNIT	TOTAL
Cattle & Calves	1995	46,560	321,264	CWT.	\$64.50	\$20,722,000
	1994	48,000	326,400	"	79.20	25,851,000
Hogs	1995	6,400	5,440	"	39.70	216,000
	* 1994	6,700	5,695	"	46.70	266,000
Sheep & Lambs	1995	7,800	8,580	"	79.20	680,000
	1994	11,500	12,650	"	65.60	830,000
All Chickens	1995	3,247,000	16,397,530	Pound	.330	5,411,000
	1994	5,200,235	27,041,000	"	.319	8,626,000
Turkeys	1995	1,914,000	40,035,000	"	.401	16,054,000
	1994	2,089,000	43,798,000	"	.373	16,337,000
TOTAL	1995					\$43,083,000
	* 1994					51,910,000

* Inventories no longer supplied by California Agricultural Statistics Service

* Revised



LIVESTOCK AND POULTRY PRODUCTS: PRODUCTION AND VALUE 1994-1995

ITEM	YEAR	PRODUCTION	UNIT	UNIT	TOTAL
Milk, Market	1995	4,698,337	CWT.	\$11.43	\$53,702,000
	1994	4,564,019	"	11.23	51,254,000
Milk Manufacturing	1995	81,302	"	11.86	964,000
	1994	70,822	"	11.09	785,000
Wool	1995	62,400	Pound	.79	49,000
	1994	92,000	"	.60	55,000
Other Livestock & Poultry Products a/	1995	xx	xx	xx	902,000
	1994	xx	xx	xx	1,163,000
TOTAL	1995				\$55,617,000
	1994				53,257,000

NURSERY PRODUCTS: ACREAGE AND VALUE 1994-1995

ITEM	YEAR	FIELD ACRES	TOTAL VALUE
Nursery Stock b/	1995	365	\$ 3,470,000
	1994	360	3,160,000

FOREST PRODUCTS: PRODUCTION AND VALUE 1994-1995

ITEM	YEAR	PRODUCTION	UNIT	TOTAL VALUE
Timber	1995	12,900	MBF	\$ 4,700,000
	1994	22,000	"	7,540,000

a/ Includes market eggs and fertilizer

b/ Includes citrus, figs, grapevines, pistachios, Christmas trees, vegetables, and ornamentals

AGRICULTURAL CROP REPORT SUMMARY 1994-1995

ITEM	YEAR	HARVESTED ACREAGE	VALUE
Apiary	1995		\$ 4,467,000
	* 1994		3,983,000
Field Crops	1995	542,275	104,126,000
	1994	536,169	104,216,000
Fruit & Nut Crops	1995	163,976	380,443,000
	1994	161,791	380,150,000
Livestock & Poultry	1995		43,083,000
	* 1994		51,910,000
Livestock & Poultry Products	1995		55,617,000
	1994		53,257,000
Nursery	1995	365	3,470,000
	1994	360	3,160,000
Seed Crops	1995	Under Misc. Field Crops	
	1994	995	362,000
Timber Products	1995	12,900 MBF	4,700,000
	1994	22,000 MBF	7,540,000
Vegetable Crops	1995	5,923	7,359,000
	1994	7,301	10,433,000
TOTAL	1995		\$603,267,000
	* 1994		615,011,000

COMPARISON OF AGRICULTURAL VALUES

1995	\$603,267,000	* 1988	\$449,690,000
* 1994	615,011,000	* 1987	430,633,000
* 1993	621,410,000	* 1986	372,276,000
* 1992	602,187,000	* 1985	325,132,000
* 1991	482,250,000	* 1975	183,390,000
		* 1965	82,715,000
* 1990	526,297,000	* 1955	52,507,000
		* 1945	33,548,000
* 1989	478,466,000	* 1935	5,154,000

* Revised

MILLION DOLLAR CROPS

CROP	1995 RANK	1995 STANDINGS	1994 RANK
Almonds	1	\$92,993,000	1
Grapes, Raisin	2	87,332,000	2
Grapes, Wine	3	77,795,000	3
Milk, Market	4	53,702,000	4
Cotton, Lint	5	41,210,000	5
Hay, Alfalfa	6	33,266,000	7
Pistachios	7	26,515,000	6
Cattle and Calves	8	20,722,000	8
Apples	9	18,752,000	10
Grapes, Table	10	16,361,000	12
Turkeys	11	16,054,000	11
Oranges	12	12,948,000	9
Figs	13	12,167,000	13
Vegetables	14	7,359,000	14
Cotton, Seed	15	7,008,000	16
Plums	16	6,227,000	21
Chickens	17	5,411,000	15
Olives	18	5,170,000	22
Peach, Free	19	4,848,000	26
Corn, Field	20	4,822,000	23
Timber	21	4,700,000	17
Apiary/Pollination	22	4,467,000	20
Wheat	23	4,442,000	18
Nursery Stock	24	3,470,000	24
Nectarines	25	3,430,000	28
Corn, Silage	26	3,291,000	27
Pasture, Other	27	3,112,000	25
Almond Hulls	28	2,668,000	19
Beans, Dry	29	2,139,000	29
Walnuts	30	1,650,000	30
Sugar Beets	31	1,113,000	—

COUNTRIES RECEIVING MADERA COUNTY PRODUCE IN 1995

Australia	Guyana	Panama
Belgium	Hong Kong	Philippines
Brazil	Iceland	Republic of Korea
Canada	Indonesia	Russia
Canary Islands	Israel	Saudi Arabia
China	Italy	Singapore
Columbia	Japan	Spain
Costa Rica	Jordan	Sweden
Dominican Republic	Korea	Switzerland
Ecuador	Lebanon	Taiwan
Egypt	Malaysia	Thailand
El Salvador	Mexico	Turkey
France	Netherlands	United Arab Emirates
Germany	New Zealand	United Kingdom
Greece	Norway	Venezuela
Guatemala		

PERMANENT CROP ACRES

CROP	1965	1975	1985	1994	1995		
					Bearing Acres	Non-Bearing	Total Acres
Almonds	3,677	18,791	34,135	41,988	40,544	1,539	42,083
Apples	103	94	1,199	3,239	2,817	422	3,239
Apricots	58	57	105	80	80	--	80
Cherries	23	13	--	75	37	85	122
Citrus							
Lemons	--	92	82	82	82	--	82
Oranges	1,831	3,556	3,816	4,347	4,224	203	4,427
* Tangerines	--	339	410	438	402	36	438
TOTAL CITRUS	1,831	4,059	4,308	4,867	4,708	239	4,947
Figs	2,758	3,723	6,717	8,068	7,675	1,317	8,992
Grapes							
Raisin	26,889	29,560	42,037	43,948	42,956	1,192	44,148
Table	474	587	2,323	2,585	2,429	256	2,685
Wine, Red	5,518	14,957	16,680	14,649	15,403	1462	16,865
Wine, White	1,150	9,141	26,443	24,989	23,105	1,484	24,589
TOTAL GRAPES	34,031	54,245	87,483	86,171	83,893	4,394	88,287
Kiwis	--	19	130	168	168	--	168
Nectarines	133	247	775	961	856	105	961
Olives	866	1,854	2,176	1,781	1,781	--	1,781
Peaches							
Clingstone	1,340	602	477	873	622	196	818
Freestone	1,369	1,041	1,373	1,130	993	137	1,130
TOTAL PEACHES	2,709	1,643	1,850	2,003	1,615	333	1,948
Pears	6	1	--	38	26	12	38
Pecans	11	50	130	74	74	--	74
Persimmons	1	3	6	15	12	3	15
Pistachios	--	8,566	17,251	18,556	16,247	1,977	18,224
Plums	435	603	1,219	1,424	1,321	203	1,524
Pomegranates	4	172	242	20	20	--	20
Prunes	--	--	735	1,429	1,226	203	1,429
Walnuts	1,011	1,650	732	876	876	--	876
=====							
TOTAL PLANTED ACRES	47,657	95,790	159,193	171,833	163,976	10,832	174,808

* Includes Tangerines, Mandarins, and Tangelos

MADERA COUNTY ANNUAL SUSTAINABLE AGRICULTURAL REPORT

COUNTY BIOLOGICAL CONTROL

<u>PEST</u>	<u>AGENT/MECHANISM</u>	<u>PROGRAM SCOPE</u>
Yellow Star Thistle <i>Centaurea solstitialis</i>	Seed Head Weevil <i>Bangasternus orientalis</i>	2 Sites
Puncture Vine <i>Tribulus maruanum</i>	Seed and Stem Weevil <i>Microlarunus lareynii</i> <i>Microlarinus typriformis</i>	Countywide
Klamath Weed <i>Hypericum perforatum</i>	Klamath Weed Beetle <i>Chrysolina quadrigemina</i>	3 Sites
Ash Whitefly <i>Siphoninus phyllireae</i>	Wasp <i>Encarsia nr. inaron</i>	Countywide
Russian Thistle <i>Salsoia iberica</i>	Seed Head Weevil <i>Coleophora klimeschiella</i>	3 sites

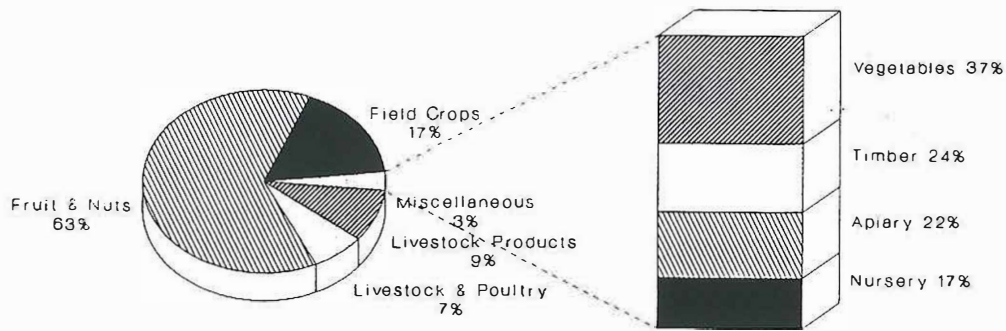
COUNTY PEST ERADICATION

<u>PEST</u>	<u>AGENT/MECHANISM</u>	<u>PROGRAM SCOPE</u>
Pink Bollworm <i>Pectinophora gossypiella</i>	Mechanical/ Host Free Period	51,334 acres

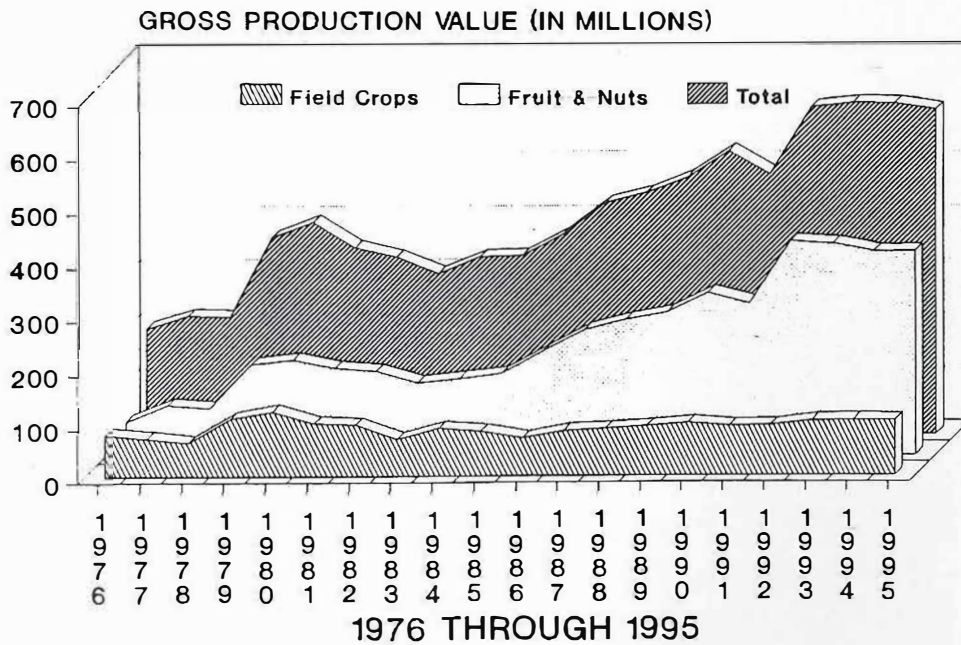
ORGANIC FARMING STATISTICS

<u>CROP</u>	<u>NUMBER OF FARMS</u>	<u>ESTIMATED ACRES</u>
Various Crops	11	1665

MADERA COUNTY 1995 TOTAL CROP VALUE



GROWTH IN MADERA COUNTY AGRICULTURE OVER A TWENTY YEAR SPAN



Agricultural Crop Report - Madera County

1996



CLIFFORD L. WHATLEY



Madera County Department of Agriculture Weights and Measures

Robert J. Rolan, Agricultural Commissioner
Sealer of Weights and Measures

David A. Robinson, Assistant
Commissioner/Sealer

Ann M. Veneman, Secretary
California Department of Food and Agriculture

and

The Honorable Board of Supervisors
County of Madera

In accordance with the provisions of Section 2279 of the California Food and Agricultural Code, I am pleased to submit the 1996 Agricultural Crop Report.

The gross production value reached a record high of \$713,748,000. This represents an increase of \$110 million dollars, or nearly 19 percent over 1995. Pistachios soared over 90% in value, due to an increase in prices and a high production year. Wine grapes, fueled by favorable prices, increased in value by 31%. Almonds and cotton recovered from storm-affected 1995 levels to show 12% and 18% gains, respectively. The value of wheat rose by 136% and milk used for manufacturing purposes increased in value more than 330% over the previous year. Prunes have been included as a separate commodity for the first time this year after having been combined with other minor fruit and nut crops in past reports.

It must be emphasized that the values represented indicate gross values only and are not intended to represent net income to individual producers.

I sincerely appreciate the efforts of my staff, in particular, Scott Porteous and Stevie McNeill, who compiled this report, as well as the staff of the University of California Cooperative Extension, local growers and ranchers, and industry representatives who contributed to the preparation of this report.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Robert J. Rolan", written over a horizontal line.

Robert J. Rolan
Agricultural Commissioner

Original artwork by Clifford Whatley, son of our Administrative Assistant, Lore Ciuffoli.

**1996 AGRICULTURAL CROP REPORT
MADERA COUNTY**

Board of Supervisors

Patty Logoluso	District 1
Alfred Ginsburg	District 2
Gail Hanhart McIntyre, Chair	District 3
John Silva	District 4
Harry H. Baker Jr.	District 5

County Administrative Officer

Stell Manfredi

Department of Agriculture / Weights and Measures Staff

Robert J. Rolan, Agricultural Commissioner/Sealer
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FIELD CROPS: ACREAGE, PRODUCTION, AND VALUE 1995-1996

ITEM	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Barley, Irrigated	1996	1,665	1.70	2,831	Ton	\$149.00	\$ 422,000
	1995	2,804	1.60	4,486	"	110.00	493,000
Beans, Dry a/	1996	4,342	1.00	4,342	"	600.00	2,605,000
	1995	3,720	1.15	4,278	"	500.00	2,139,000
Corn, Field	1996	12,430	4.40	54,692	"	149.00	8,149,000
	1995	8,400	4.10	34,440	"	140.00	4,822,000
Corn, Silage	1996	3,900	27.00	105,300	"	23.00	2,422,000
	1995	5,300	27.00	143,100	"	23.00	3,291,000
Silage, Other b/	1996	1,800	13.00	23,400	"	20.00	468,000
	1995	1,800	12.00	21,600	"	19.00	410,000
Cotton, Lint	1996	47,273	1,290 c/	121,964	Bales	.80 d/	48,786,000
	1995	51,334	979 c/	100,512	"	.82 d/	41,210,000
Cotton, Seed	1996	xx	xx	50,920	Ton	180.00	9,166,000
	1995	xx	xx	43,258	"	162.00	7,008,000
Hay, Alfalfa	1996	36,722	7.30	268,071	"	120.00	32,169,000
	1995	36,782	7.60	279,543	"	119.00	33,266,000
Pasture, Irrigated	1996	5,000	xx	xx	"	120.00	600,000
	1995	5,000	xx	xx	"	120.00	600,000
Pasture, Other	1996	381,000	xx	xx	"	8.00	3,048,000
	1995	389,000	xx	xx	"	8.00	3,112,000
Stubble e/	1996	14,000	xx	xx	"	14.00	196,000
	1995	14,000	xx	xx	"	14.00	196,000
Sugar Beets	1996	908	32.00	29,056	"	32.50	944,000
	1995	1,119	26.95	30,157	"	36.90	1,113,000

- a/ Includes black-eyes, kidneys, and limas
- b/ Includes alfalfa, oats, and winter forage
- c/ Pounds
- d/ Per Pound
- e/ Includes alfalfa, corn, and grain



FIELD CROPS: ACREAGE, PRODUCTION, AND VALUE 1995-1996

ITEM	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Wheat	1996	27,078	2.60	70,403	Ton	\$149.00	\$ 10,490,000
	1995	15,385	2.31	35,539	"	125.00	4,442,000
Misc. a/	1996	9,198	xx	xx	xx	xx	2,571,000
	1995	7,631	xx	xx	xx	xx	2,024,000
TOTAL	1996	545,316					\$122,036,000
	1995	542,275					104,126,000

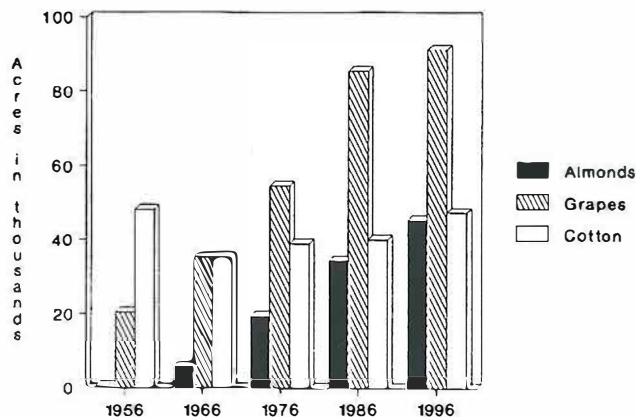
VEGETABLE CROPS, ACREAGE, PRODUCTION, AND VALUE 1995-1996

ITEM	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Vegetables b/	1996	6,981	xx	xx	xx	xx	\$ 11,416,000
	1995	5,923	xx	xx	xx	xx	7,359,000

a/ Includes dryland grains, oats, rice, sorghum, safflower, and seed crops

b/ Includes broccoli, carrots, all cabbage, cucumbers, garlic, onions, all melons, all peppers, pumpkins, all squash, all tomatoes, and miscellaneous truck crops

Acres Change in Major Madera Crops





FRUIT AND NUT CROPS, ACREAGE, PRODUCTION, AND VALUE 1995-1996

ITEM	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Almonds a/	1996	41,160	.63	25,931	Ton	\$4,020.00	\$104,243,000
	1995	40,544	.47	19,056	"	4,880.00	92,993,000
Almond Hulls	1996	xx	xx	51,862	"	84.00	4,356,000
	1995	xx	xx	38,111	"	70.00	2,668,000
Apples b/	1996	3,070	9.20	28,244	"	682.00	19,262,000
	1995	2,817	10.60	29,860	"	628.00	18,752,000
Figs	1996	8,381	1.65	13,829	"	1,040.00	14,382,000
	1995	7,675	1.34	10,285	"	1,183.00	12,167,000
Grapes, Raisin	1996	43,499	xx	xx	"	xx	102,938,000
	1995	42,956	xx	xx	"	xx	87,332,000
Dried	1996	29,931	2.07	61,957	"	1,000.00	61,957,000
	1995	28,506	2.02	57,582	"	930.00	53,551,000
Crushed	1996	10,376	9.30	96,497	"	191.00	18,431,000
	1995	11,014	9.00	99,126	"	164.00	16,257,000
Fresh	1996	3,192	7.10	22,663	"	995.00	22,550,000
	1995	3,436	6.80	23,365	"	750.00	17,524,000
Grapes, Table	1996	2,521	6.42	16,185	"	998.00	16,153,000
	1995	2,429	7.09	17,222	"	950.00	16,361,000
Grapes, Wine c/	1996	39,481	xx	xx	"	xx	101,977,000
	1995	38,508	xx	xx	"	xx	77,795,000
Red Varieties	1996	15,886	8.35	132,648	"	337.00	44,702,000
	1995	15,403	8.20	126,305	"	283.00	35,744,000
White Varieties	1996	23,595	10.60	250,107	"	229.00	57,275,000
	1995	23,105	10.40	240,292	"	175.00	42,051,000

a/ Meat basis

b/ Total production & value includes apples harvested from non-bearing acreage

c/ Includes table grapes crushed

 FRUIT AND NUT CROPS, ACREAGE, PRODUCTION, AND VALUE 1995-1996

ITEM	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Nectarines	1996	707	5.22	3,691	Ton	\$ 706.00	\$ 2,606,000
	1995	856	5.98	5,119	"	670.00	3,430,000
Olives	1996	1,781	7.26	12,930	"	682.00	8,818,000
	1995	1,781	4.50	8,015	"	645.00	5,170,000
Oranges	1996	4,288	12.80	54,886	"	233.00	12,788,000
	1995	4,224	13.87	58,587	"	221.00	12,948,000
Peach, Free	1996	1,075	8.50	9,138	"	759.00	6,936,000
	1995	993	7.20	7,150	"	678.00	4,848,000
Pistachios a/	1996	17,157	1.02	17,500	"	2,880.00	50,400,000
	1995	16,247	0.85	13,810	"	1,920.00	26,515,000
Plums	1996	1,362	7.43	10,120	"	669.00	6,770,000
	1995	1,321	4.91	6,486	"	960.00	6,227,000
Prunes b/	1996	1,253	3.30	4,135	"	900.00	3,722,000
	1995	Included in Misc. crops					
Walnuts	1996	876	1.41	1,235	"	1,700.00	2,100,000
	1995	876	1.29	1,130	"	1,460.00	1,650,000
Misc. c/	1996	1,656	xx	xx	xx	xx	5,477,000
	1995	2,749	xx	xx	xx	xx	11,587,000
TOTAL	1996	168,267					\$462,928,000
	1995	163,976					380,443,000

a/ Total production and value includes pistachios harvested from non-bearing acreage

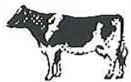
b/ Dried weight

c/ Includes apricots, cherries, cling peaches, kiwis, lemons, pears, pecans, tangerines, tangelos, persimmons, and pomegranates



APIARY PRODUCTS 1995-1996

ITEM	YEAR	PRODUCTION TOTAL	UNIT	PER UNIT	TOTAL
Honey	1996	525,540	Pound	\$.85	\$ 447,000
	1995	1,320,000	"	.60	792,000
Pollination	1996	112,710	Colony	38.00	4,283,000
	1995	105,000	"	35.00	3,675,000
TOTAL	1996				\$ 4,730,000
	1995				4,467,000



LIVESTOCK AND POULTRY: PRODUCTION AND VALUE 1995-1996

ITEM	YEAR	HEAD	LIVEWEIGHT	UNIT	PER UNIT	TOTAL
Cattle & Calves	1996	33,053	228,066	CWT.	\$56.00	\$12,772,000
	1995	46,560	321,264	"	64.50	20,722,000
Hogs	1996	5,000	4,500	"	65.00	293,000
	1995	6,400	5,440	"	39.70	216,000
Sheep & Lambs	1996	Reported in Other Livestock and Poultry Products				
	1995	7,800	8,580	"	79.20	680,000
All Chickens	1996	3,104,000	15,706,240	Pound	.328	5,152,000
	1995	3,247,000	16,397,530	"	.330	5,411,000
Turkeys	1996	2,291,730	42,997,913	"	.448	19,263,000
	1995	1,914,000	40,035,000	"	.401	16,054,000
TOTAL	1996					\$37,480,000
	1995					43,083,000



LIVESTOCK AND POULTRY PRODUCTS: PRODUCTION AND VALUE 1995-1996

ITEM	YEAR	PRODUCTION	UNIT	UNIT	TOTAL
Milk, Market	1996	4,626,887	CWT.	\$13.47	\$ 62,324,000
	1995	4,698,337	"	11.43	53,702,000
Milk Manufacturing	1996	298,401	"	13.90	4,148,000
	1995	81,302	"	11.86	964,000
Wool	1996	Reported in Other Livestock and Poultry Products			
	1995	62,400	"	.79	49,000
Other Livestock & Poultry Products a/	1996	xx	xx	xx	1,727,000
	1995	xx	xx	xx	902,000
TOTAL	1996				\$68,199,000
	1995				55,617,000

NURSERY PRODUCTS: ACREAGE AND VALUE 1995-1996

ITEM	YEAR	FIELD ACRES	TOTAL VALUE
Nursery Stock b/	1996	503	\$ 5,324,000
	1995	365	3,470,000

FOREST PRODUCTS: PRODUCTION AND VALUE 1995-1996

ITEM	YEAR	PRODUCTION	UNIT	TOTAL VALUE
Timber	1996	5,006	MBF	\$ 1,635,000
	1995	12,900	"	4,700,000

a/ Includes market eggs, fertilizer, wool, sheep and lambs

b/ Includes citrus, figs, grapevines, pistachios, Christmas trees, vegetables, and ornamentals

AGRICULTURAL CROP REPORT SUMMARY 1995-1996

ITEM	YEAR	HARVESTED ACREAGE	VALUE
Apiary	1996		\$ 4,730,000
	1995		4,467,000
Field Crops	1996	545,316	122,036,000
	1995	542,275	104,126,000
Fruit & Nut Crops	1996	168,267	462,928,000
	1995	163,976	380,443,000
Livestock & Poultry	1996		37,480,000
	1995		43,083,000
Livestock & Poultry Products	1996		68,199,000
	1995		55,617,000
Nursery	1996	503	5,324,000
	1995	365	3,470,000
Timber Products	1996	5,006 MBF	1,635,000
	1995	12,900 MBF	4,700,000
Vegetable Crops	1996	6,981	11,416,000
	1995	5,923	7,359,000
TOTAL	1996		\$713,748,000
	1995		603,267,000

COMPARISON OF AGRICULTURAL VALUES

1996	\$713,748,000	* 1989	\$478,466,000
1995	603,267,000	* 1988	449,690,000
* 1994	615,011,000	* 1987	430,633,000
* 1993	621,410,000	* 1986	372,276,000
* 1992	602,187,000	* 1976	198,927,000
		* 1966	78,602,000
* 1991	482,250,000	* 1956	60,110,000
		* 1946	49,766,000
* 1990	526,297,000	* 1936	7,998,000

* Revised

MILLION DOLLAR CROPS

CROP	1996 RANK	1996 STANDINGS	1995 RANK
Almonds	1	\$104,243,000	1
Grapes, Raisin	2	102,938,000	2
Grapes, Wine	3	101,977,000	3
Milk, Market	4	62,324,000	4
Pistachios	5	50,400,000	7
Cotton, Lint	6	48,786,000	5
Hay, Alfalfa	7	32,169,000	6
Turkeys	8	19,263,000	11
Apples	9	19,262,000	9
Grapes, Table	10	16,153,000	10
Figs	11	14,382,000	13
Oranges	12	12,788,000	12
Cattle and Calves	13	12,772,000	8
Vegetables	14	11,416,000	14
Wheat	15	10,490,000	23
Cotton, Seed	16	9,166,000	15
Olives	17	8,818,000	18
Corn, Field	18	8,149,000	20
Peach, Free	19	6,936,000	19
Plums	20	6,770,000	16
Nursery Stock	21	5,324,000	24
Chickens	22	5,152,000	17
Apiary/Pollination	23	4,730,000	22
Almond Hulls	24	4,356,000	28
Milk, Manufacturing	25	4,148,000	--
Prunes	26	3,722,000	--
Pasture, Other	27	3,048,000	27
Nectarines	28	2,606,000	25
Beans, Dry	29	2,605,000	29
Corn, Silage	30	2,422,000	26
Walnuts	31	2,100,000	30
Timber	32	1,635,000	21

COUNTRIES RECEIVING MADERA COUNTY PRODUCE IN 1996

Argentina	Germany	Russia
Austria	Hong Kong	Saudi Arabia
Australia	Israel	Singapore
Belgium	Italy	Spain
Brazil	Japan	Sweden
Canada	Korea	Switzerland
Chile	Lebanon	Taiwan
China	Macau	Thailand
Denmark	Malaysia	Turkey
Dominican Republic	Mexico	United Arab Emirates
Ecuador	Netherlands	United Kingdom
France	New Zealand	Venezuela
French Polynesia	Panama	Vietnam
Greece	Philippines	

PERMANENT CROP ACRES

CROP	1966	1976	1986	1995	1996		
					Bearing Acres	Non-Bearing	Total Acres
Almonds	5,766	19,396	34,153	42,083	41,160	3,982	45,142
Apples	103	94	1,550	3,239	3,070	199	3,269
Apricots	58	57	135	80	76	--	76
Cherries	23	13	--	122	52	71	123
Citrus							
Lemons	3	92	82	82	82	--	82
Oranges	2,242	3,710	3,850	4,427	4,288	122	4,410
* Tangerines	65	339	410	438	414	58	472
TOTAL CITRUS	2,310	4,141	4,271	4,947	4,784	180	4,964
Figs	2,758	4,383	6,831	8,992	8,381	1,210	9,591
Grapes							
Raisin	27,499	29,884	42,026	44,148	43,499	799	44,298
Table	506	567	2,344	2,685	2,521	171	2,692
Wine, Red	5,818	14,366	15,753	16,865	15,886	1,759	17,645
Wine, White	1,396	9,713	24,985	24,589	23,595	2,814	26,409
TOTAL GRAPES	35,219	54,530	85,108	88,287	85,501	5,543	91,044
Kiwis	--	19	130	168	152	--	152
Nectarines	127	261	765	961	707	63	770
Olives	866	1,851	1,746	1,781	1,781	--	1,781
Peaches							
Clingstone	1,506	544	477	818	740	78	818
Freestone	1,282	1,157	1,368	1,130	1,075	55	1,130
TOTAL PEACHES	2,788	1,701	1,746	1,948	1,815	133	1,948
Pears	6	--	--	38	33	5	38
Pecans	11	50	130	74	74	--	74
Persimmons	19	3	6	15	13	2	15
Pistachios	--	9,123	18,164	18,224	17,157	1,977	19,134
Plums	442	690	1,218	1,524	1,362	121	1,483
Pomegranates	--	374	370	20	20	--	20
Prunes	--	365	735	1,429	1,253	122	1,375
Walnuts	211	1,665	2,062	876	876	41	917
TOTAL PLANTED ACRES	50,707	98,716	159,290	174,808	168,267	13,650	181,916

* Includes Tangerines, Mandarins, and Tangelos

MADERA COUNTY ANNUAL SUSTAINABLE AGRICULTURAL REPORT

COUNTY BIOLOGICAL CONTROL

<u>PEST</u>	<u>AGENT/MECHANISM</u>	<u>PROGRAM SCOPE</u>
Yellow Star Thistle <i>Centaurea solstitialis</i>	Seed Head Weevil <i>Bangasternus orientalis</i>	2 Sites
Puncture Vine <i>Tribulus maruianum</i>	Seed and Stem Weevil <i>Microlearunus lareynii</i> <i>Microlearinus lypriformis</i>	Countywide
Klamath Weed <i>Hypericum perforatum</i>	Klamath Weed Beetle <i>Chrysolina quadrugemina</i>	3 Sites
Ash Whitefly <i>Siphoninus phyllireae</i>	Wasp <i>Encarsia nr. inaron</i>	Countywide
Russian Thistle <i>Salsola iberica</i>	Seed Head Weevil <i>Coleophora klimeschiella</i>	3 sites

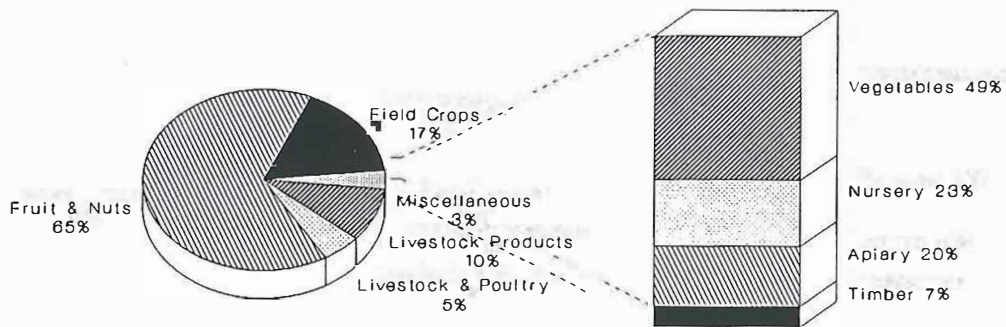
COUNTY PEST ERADICATION

<u>PEST</u>	<u>AGENT/MECHANISM</u>	<u>PROGRAM SCOPE</u>
Pink Bollworm <i>Pectinophora gossypiella</i>	Mechanical/ Host Free Period	47,273 acres

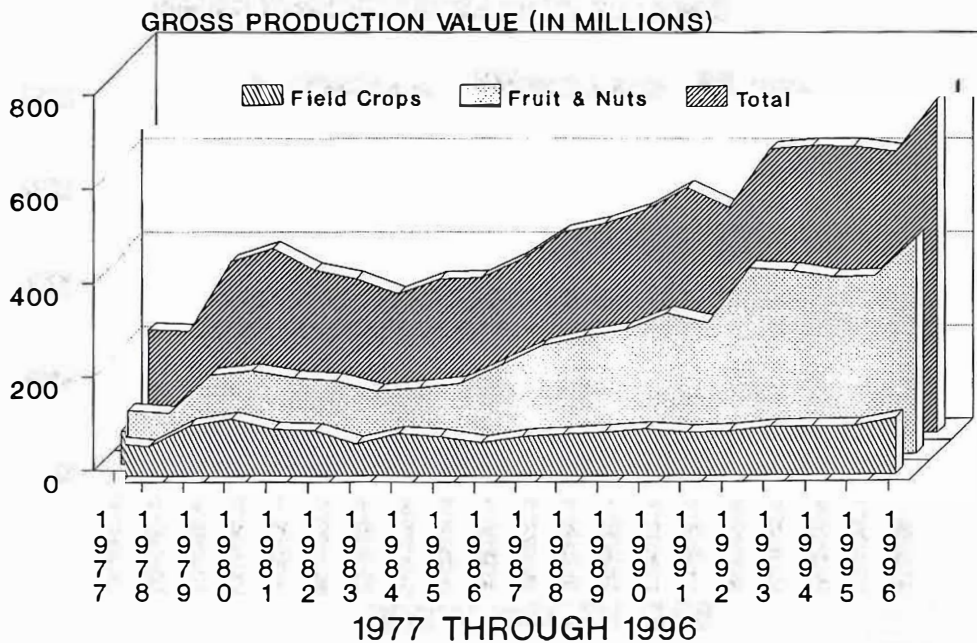
ORGANIC FARMING STATISTICS

<u>CROP</u>	<u>NUMBER OF FARMS</u>	<u>ESTIMATED ACRES</u>
Various Crops	13	1,825

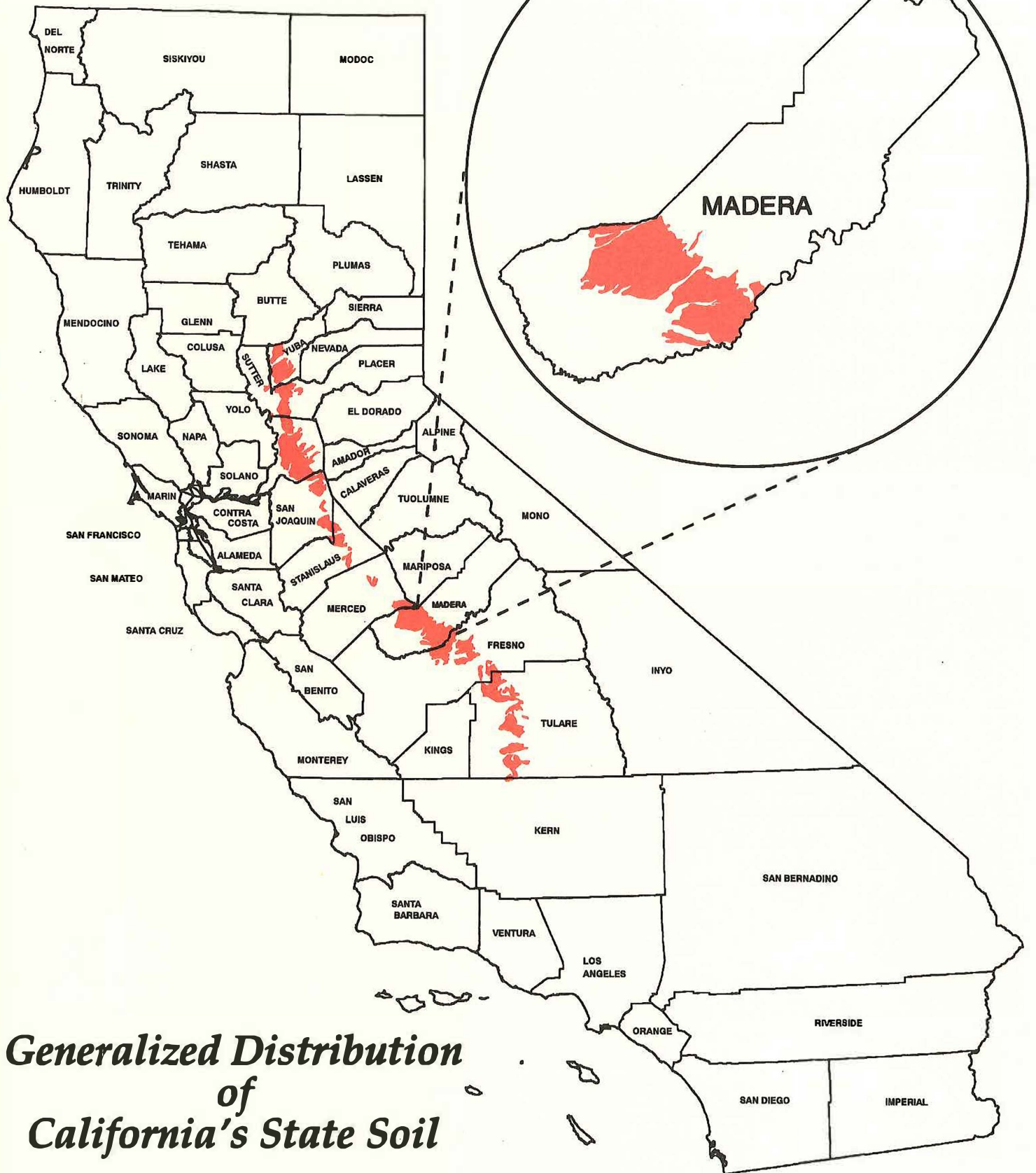
MADERA COUNTY 1996 TOTAL CROP VALUE



GROWTH IN MADERA COUNTY AGRICULTURE OVER A TWENTY YEAR SPAN



Agricultural Crop Report Madera County, 1997



And what is it to work with love? . . .
It is to sow seeds with tenderness and reap the harvest with joy, even as if
your beloved were to eat the fruit.

Kahlil Gibran

"Soil is the greatest natural resource of the state of California. In recognition of this, we propose that California adopt a State Soil, acknowledging the agricultural heritage of our state."

This has been the mission of students from Martin Luther King Jr. Middle School in Madera, California. Their effort to recognize soil as the resource supporting the agricultural economy of our state, as well as to underscore the need to conserve agricultural land for future generations, has resulted in adoption of the San Joaquin Soil Series as the official soil of our state.

The San Joaquin Soil Series, a granite-derived soil covering more than 500,000 acres, is found in twelve California counties. Selected from a list of over 1,900 soil types known to exist in California, the San Joaquin Soil Series was first considered as a candidate for state soil status in 1989 by the Professional Soil Scientists of California.

The Madera-based project, under the direction of science instructor Alex Lehman, was initiated in 1993. Mr. Lehman and the students worked in cooperation with the Professional Soil Scientists of California, the California Association of Resource Conservation Districts, and the Natural Resources Conservation Service. The students analyzed soil samples, using their results as the foundation for their math, English, history, political science, and art studies. The research culminated in the drafting of legislation for an official State Soil, with student testimony before the Assembly. Senate Bill 389, introduced by Senator Dick Monteith and co-sponsored by Assembly Member George House, was signed by Governor Wilson on August 20, 1997.

The intent of the California State Soil project is to raise public awareness of the role soil plays in our everyday lives, forming as it does the foundation of our economy. The project emphasizes agricultural land conservation to ensure our future prosperity. To that end, a steering committee consisting of professors from California State Universities in Fresno and San Luis Obispo, the University of California at Davis, professional soil scientists, and other stakeholders, has come together to promote public outreach and education. A permanent San Joaquin Soil Series profile display and learning center will open at California State University Fresno in the fall of 1998. Extended plans include computer links between classrooms and remote work sites in order to enhance classroom study of soil as well as related agricultural activities.

Our heartfelt thanks go to Daryl Lund, State Resource Inventory Specialist, of the United States Department of Agriculture, Natural Resources Conservation Service, and Niki Vollrath, GIS specialist, for the creation of the cover of this year's crop report.

Madera County Department of Agriculture

Weights and Measures

Robert J. Rolan, Agricultural Commissioner
Sealer of Weights & Measures

David A. Robinson, Assistant
Commissioner/Sealer

Ann M. Veneman, Secretary
California Department of Food and Agriculture

and

The Honorable Board of Supervisors
County of Madera


In accordance with the provisions of Section 2279 of the California Food and Agricultural Code, I am pleased to submit the 1997 Agricultural Crop Report.

The gross production value in Madera County surpassed 1996 yields by 10 percent, reaching a record value of \$788,503,000. Madera orchards generated the largest crop of almonds to date, with a value of \$154,197,000, representing a gain of nearly 48 percent. This report returns to the practice of combining all grape production into a single category, as was done through 1980. The combined grape total of \$280,525,000 exceeded by 26.9 percent the combined total from 1996. Prices received for field crops were generally lower this year, resulting in a nearly 17 percent decline in overall value. Fewer acres of cotton were planted, and cotton production declined \$10,800,000.

The values presented in this report do not represent net income to individual producers, but rather are gross values of agricultural production in Madera County. This production generates substantial economic activity, including labor, transportation, the processing of products and other related industry, none of which are measured in this report.

I wish to express my sincere appreciation to our local growers and ranchers, our industry representatives, and the staff of the University of California Cooperative Extension for their generous contribution of information. I am additionally grateful to my staff, in particular Scott Porteous and Marilyn Key, for their efforts in the compilation of this report.

Respectfully submitted,



Robert J. Rolan
Agricultural Commissioner

**1997 AGRICULTURAL CROP REPORT
MADERA COUNTY**

Board of Supervisors

Patty Logoluso	District 1
Alfred Ginsburg	District 2
Gail Hanhart McIntyre	District 3
John Silva	District 4
Harry H. Baker Jr., Chairman	District 5

County Administrative Officer

Stell Manfredi

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FIELD CROPS: ACREAGE, PRODUCTION, AND VALUE 1996-1997

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			PER ACRE	TOTAL		PER UNIT	TOTAL
Barley, Irrigated	1997	856	1.60	1,370	Ton	\$130.00	\$ 178,000
	1996	1,665	1.70	2,831	"	149.00	422,000
Beans, Dry a/	1997	2,259	1.03	2,327	"	560.00	1,303,000
	1996	4,342	1.00	4,342	"	600.00	2,605,000
Corn, Field	1997	9,743	4.20	40,921	"	111.00	4,542,000
	1996	12,430	4.40	54,692	"	149.00	8,149,000
Corn, Silage	1997	3,057	26.00	79,482	"	22.00	1,749,000
	1996	3,900	27.00	105,300	"	23.00	2,422,000
Silage, Other b/	1997	1,950	13.40	26,130	"	19.00	496,000
	1996	1,800	13.00	23,400	"	20.00	468,000
Cotton, Lint	1997	37,275	1,338 c/	99,748	Bales	.76 d/	37,904,000
	1996	47,273	1,290 c/	121,964	"	.80 d/	48,786,000
Cotton, Seed	1997	xx	xx	41,570	Ton	176.00	7,316,000
	1996	xx	xx	50,920	"	180.00	9,166,000
Hay, Alfalfa	1997	39,356	7.40	291,234	"	114.00	33,201,000
	1996	36,722	7.30	268,071	"	120.00	32,169,000
Pasture, Irrigated	1997	5,500	xx	xx	"	120.00	660,000
	1996	5,000	xx	xx	"	120.00	600,000
Pasture, Other	1997	381,000	xx	xx	"	8.00	3,048,000
	1996	381,000	xx	xx	"	8.00	3,048,000
Stubble e/	1997	14,500	xx	xx	"	14.00	203,000
	1996	14,000	xx	xx	"	14.00	196,000
Sugar Beets	1997	357	33.50	11,960	"	43.00	514,000
	1996	908	32.00	29,056	"	32.50	944,000

- a/ Includes black-eyes, kidneys, and limas
- b/ Includes alfalfa, oats, and winter forage
- c/ Pounds
- d/ Per Pound
- e/ Includes alfalfa, corn, and grain



FIELD CROPS: ACREAGE, PRODUCTION, AND VALUE 1996-1997

ITEM	YEAR	HARVESTED ACREAGE	PRODUCTION			VALUE	
			PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Wheat	1997	28,543	2.40	68,503	Ton	\$123.00	\$ 8,426,000
	1996	27,078	2.60	70,403	"	149.00	10,490,000
Misc. a/	1997	6,024	xx	xx	xx	xx	2,115,000
	1996	9,198	xx	xx	xx	xx	2,571,000
TOTAL	1997	530,420					\$101,655,000
	1996	545,316					122,036,000

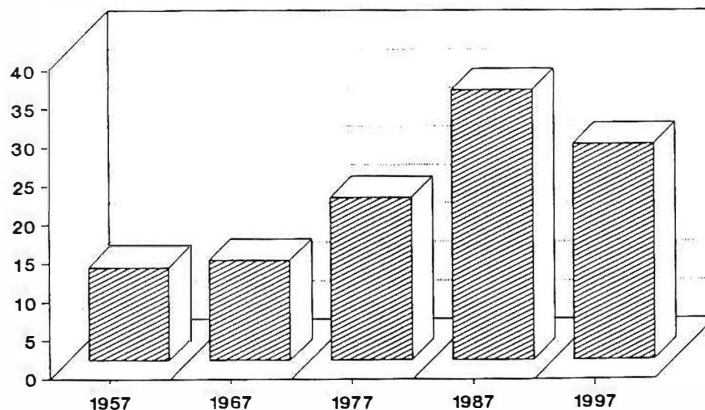
VEGETABLE CROPS, ACREAGE, PRODUCTION, AND VALUE 1996-1997

ITEM	YEAR	HARVESTED ACREAGE	PRODUCTION			VALUE	
			PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Vegetables b/	1997	5,151	xx	xx	xx	xx	\$ 12,746,000
	1996	6,981	xx	xx	xx	xx	11,416,000

a/ Includes dryland grains, oats, rice, sorghum, safflower, and seed crops

b/ Includes carrots, all cabbage, cucumbers, garlic, onions, all melons, all peppers, all squash, all tomatoes, and miscellaneous truck crops

Number of Crops valued at One Million Dollars or More





FRUIT AND NUT CROPS, ACREAGE, PRODUCTION, AND VALUE 1996-1997

ITEM	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Almonds a/	1997	42,514	1.17	49,741	Ton	\$3,100.00	\$154,197,000
	1996	41,160	.63	25,931	"	4,020.00	104,243,000
Almond Hulls	1997	xx	xx	99,483	"	84.00	8,357,000
	1996	xx	xx	51,862	"	84.00	4,356,000
Apples b/	1997	3,138	9.09	28,524	"	605.00	17,257,000
	1996	3,070	9.20	28,244	"	682.00	19,262,000
Figs	1997	9,199	1.73	15,914	"	718.00	11,426,000
	1996	8,381	1.65	13,829	"	1,040.00	14,382,000
Grapes, Raisin	1997	43,761	xx	xx	"	xx	126,545,000
	1996	43,499	xx	xx	"	xx	102,938,000
Dried	1997	30,112	3.02	90,938	"	872.00	79,298,000
	1996	29,931	2.07	61,957	"	1,000.00	61,957,000
Crushed	1997	10,438	11.72	122,345	"	186.00	22,756,000
	1996	10,376	9.30	96,497	"	191.00	18,431,000
Fresh	1997	3,211	8.90	28,578	"	857.00	24,491,000
	1996	3,192	7.10	22,663	"	995.00	22,550,000
Grapes, Table	1997	2,577	7.90	20,358	"	974.00	19,829,000
	1996	2,521	6.42	16,185	"	998.00	16,153,000
Grapes, Wine c/	1997	40,990	xx	xx	"	xx	129,489,000
	1996	39,481	xx	xx	"	xx	101,977,000
Red Varieties	1997	16,466	11.27	185,572	"	333.00	61,795,000
	1996	15,886	8.35	132,648	"	337.00	44,702,000
White Varieties	1997	24,524	12.16	298,212	"	227.00	67,694,000
	1996	23,595	10.60	250,107	"	229.00	57,275,000

a/ Meat basis

b/ Total production & value includes apples harvested from non-bearing acreage

c/ Includes table grapes crushed

FRUIT AND NUT CROPS, ACREAGE, PRODUCTION, AND VALUE 1996-1997

ITEM	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Nectarines	1997	651	7.70	5,013	Ton	\$ 750.00	\$ 3,760,000
	1996	707	5.22	3,691	"	706.00	2,606,000
Olives	1997	1,805	4.28	7,728	"	692.00	5,346,000
	1996	1,781	7.26	12,930	"	682.00	8,818,000
Oranges	1997	4,281	15.70	67,212	"	212.00	14,249,000
	1996	4,288	12.80	54,886	"	233.00	12,788,000
Peach, Free	1997	1,090	7.70	8,393	"	488.00	4,096,000
	1996	1,075	8.50	9,138	"	759.00	6,936,000
Pistachios a/	1997	17,517	1.25	21,896	"	2,550.00	55,835,000
	1996	17,157	1.02	17,500	"	2,880.00	50,400,000
Plums	1997	1,308	7.87	10,294	"	741.00	7,628,000
	1996	1,362	7.43	10,120	"	669.00	6,770,000
Prunes b/	1997	1,293	3.60	4,655	"	849.00	3,952,000
	1996	1,253	3.30	4,135	"	900.00	3,722,000
Walnuts	1997	890	1.35	1,202	"	1,400.00	1,683,000
	1996	876	1.41	1,235	"	1,700.00	2,100,000
Misc. c/	1997	1,680	xx	xx	xx	xx	4,324,000
	1996	1,623	xx	xx	xx	xx	5,477,000
TOTAL	1997	172,694					\$567,973,000
	1996	168,267					462,928,000

a/ Total production and value includes pistachios harvested from non-bearing acreage

b/ Dried weight

c/ Includes apricots, cherries, cling peaches, kiwis, lemons, pears, pecans, tangerines, tangelos, persimmons, and pomegranates

*Revised



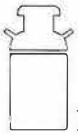
APIARY PRODUCTS 1996-1997

ITEM	YEAR	PRODUCTION TOTAL	UNIT	PER UNIT	TOTAL
Honey	1997	640,320	Pound	\$.58	\$ 371,000
	1996	525,540	"	.85	447,000
Pollination	1997	114,119	Colony	42.25	4,822,000
	1996	112,710	"	38.00	4,283,000
TOTAL	1997				\$ 5,193,000
	1996				4,730,000



LIVESTOCK AND POULTRY: PRODUCTION AND VALUE 1996-1997

ITEM	YEAR	HEAD	LIVEWEIGHT	UNIT	PER UNIT	TOTAL
Cattle & Calves	1997	38,011	262,276	CWT.	\$61.00	\$15,999,000
	1996	33,053	228,066	"	56.00	12,772,000
Hogs	Reported in Other Livestock and Poultry Products					
	1996	5,000	4,500	"	65.00	293,000
All Chickens	1997	3,900,170	20,514,894	Pound	.307	6,298,000
	1996	3,104,000	15,706,240	"	.328	5,152,000
Turkeys	1997	936,271	19,183,670	"	.345	6,618,000
	1996	2,291,730	42,997,913	"	.448	19,263,000
TOTAL	1997					\$28,915,000
	1996					37,480,000



LIVESTOCK AND POULTRY PRODUCTS: PRODUCTION AND VALUE 1996-1997

ITEM	YEAR	PRODUCTION	UNIT	UNIT	TOTAL
Milk, Market	1997	5,143,928	CWT.	\$12.30	\$63,270,000
	1996	4,626,887	"	13.47	62,324,000
Milk Manufacturing	1997	84,369	"	12.16	1,026,000
	1996	298,401	"	13.90	4,148,000
Other Livestock & Poultry Products a/	1997	xx	xx	xx	1,959,000
	1996	xx	xx	xx	1,727,000
TOTAL	1997				\$66,255,000
	1996				68,199,000

NURSERY PRODUCTS: ACREAGE AND VALUE 1996-1997

ITEM	YEAR	FIELD ACRES	TOTAL VALUE
Nursery Stock b/	1997	390	\$ 4,541,000
	1996	503	5,324,000

FOREST PRODUCTS: PRODUCTION AND VALUE 1996-1997

ITEM	YEAR	PRODUCTION	UNIT	TOTAL VALUE
Timber	1997	5,504	MBF	\$ 1,225,000
	1996	5,006	"	1,635,000

a/ Includes market eggs, fertilizer, hogs, wool, sheep and lambs

b/ Includes citrus, figs, grapevines, pistachios, Christmas trees, and ornamentals

AGRICULTURAL CROP REPORT SUMMARY 1996-1997

ITEM	YEAR	HARVESTED ACREAGE	VALUE
Apiary	1997		\$ 5,193,000
	1996		4,730,000
Field Crops	1997	530,420	\$101,655,000
	1996	545,316	122,036,000
Fruit & Nut Crops	1997	172,694	567,973,000
	1996	168,267	462,928,000
Livestock & Poultry	1997		28,915,000
	1996		37,480,000
Livestock & Poultry Products	1997		66,255,000
	1996		68,199,000
Nursery	1997	390	4,541,000
	1996	503	5,324,000
Timber Products	1997	5,504 MBF	1,225,000
	1996	5,006	1,635,000
Vegetable Crops	1997	5,151	12,746,000
	1996	6,981	11,416,000
TOTAL	1997		\$788,503,000
	1996		713,748,000

COMPARISON OF AGRICULTURAL VALUES

1997	\$788,503,000	* 1990	\$526,297,000
1996	713,748,000	* 1989	478,466,000
* 1995	603,267,000	* 1988	449,690,000
* 1994	615,011,000	* 1987	430,633,000
* 1993	621,410,000	* 1977	222,427,000
		* 1967	80,372,000
* 1992	602,187,000	* 1957	62,191,000
		* 1947	49,091,000
* 1991	482,250,000	* 1937	9,845,000

* Revised

MILLION DOLLAR CROPS

CROP	1997 RANK	1997 STANDINGS	1996 RANK
Grapes	1	\$280,525,000	*
Almonds	2	154,197,000	1
Milk, Market	3	63,270,000	4
Pistachios	4	55,835,000	5
Cotton, Lint	5	37,904,000	6
Hay, Alfalfa	6	33,201,000	7
Apples	7	17,257,000	9
Cattle and Calves	8	15,999,000	13
Oranges	9	14,249,000	12
Vegetables	10	12,746,000	14
Figs	11	11,426,000	11
Wheat	12	8,426,000	15
Almond Hulls	13	8,357,000	24
Plums	14	7,628,000	20
Cotton, Seed	15	7,316,000	16
Turkeys	16	6,618,000	8
Chickens	17	6,298,000	22
Olives	18	5,346,000	17
Apiary/Pollination	19	4,822,000	23
Corn, Field	20	4,542,000	18
Nursery Stock	21	4,541,000	21
Peach, Free	22	4,096,000	19
Prunes	23	3,952,000	26
Nectarines	24	3,760,000	28
Pasture, Other	25	3,048,000	27
Corn, Silage	26	1,749,000	30
Walnuts	27	1,683,000	31
Beans, Dry	28	1,303,000	29
Timber	29	1,225,000	32
Milk, Manufacturing	30	1,026,000	25

COUNTRIES RECEIVING MADERA COUNTY PRODUCE IN 1997

Argentina	Fiji	Norway
Austria	Greece	Netherlands
Australia	Germany	New Zealand
Belgium	Hong Kong	Panama
Brazil	India	Philippines
Cambodia	Indonesia	Russia
Canada	Israel	Saudi Arabia
Canary Islands	Italy	South Africa
Chile	Japan	Spain
Colombia	Korea	Sweden
Costa Rica	Lebanon	Taiwan
Denmark	Macau	Thailand
Egypt	Malaysia	Turkey
Ecuador	Mexico	United Arab Emirates
France	Nepal	United Kingdom
		Venezuela

* Combined grape total not used 1981-1996

PERMANENT CROP ACRES

CROP	1967	1977	1987	1996	1997		
					Bearing Acres	Non-Bearing	Total Acres
Almonds	8,028	17,980	34,685	45,142	42,514	5,734	48,248
Apples	52	95	1,714	3,269	3,138	233	3,371
Apricots	62	42	135	76	76	13	89
Cherries	--	--	--	123	76	47	123
Citrus							
Lemons	--	92	92	82	82	--	82
Oranges	2,517	3,189	3,850	4,410	4,281	81	4,362
* Tangerines	49	262	410	472	430	38	468
TOTAL CITRUS	2,566	3,543	4,352	4,964	4,793	119	4,912
Figs	2,923	4,581	6,877	9,591	9,199	425	9,624
Grapes							
Raisin	27,868	29,120	41,524	44,298	43,761	2,064	45,825
Table	634	417	2,507	2,692	2,577	207	2,784
Wine, Red	6,160	11,600	12,853	17,645	16,466	1,787	18,253
Wine, White	890	4,872	25,796	26,409	24,524	2,796	27,320
TOTAL GRAPES	35,552	46,009	82,680	91,044	87,328	6,854	94,182
Kiwis	--	44	171	152	104	--	104
Nectarines	185	290	785	770	651	42	693
Olives	785	1,732	1,732	1,805	1,805	20	1,825
Peaches							
Clingstone	1,980	439	477	818	770	52	822
Freestone	1,313	466	1,363	1,130	1,090	94	1,184
TOTAL PEACHES	3,293	905	1,840	1,948	1,860	146	2,006
Pears	--	--	--	38	33	5	38
Pecans	16	67	127	74	74	--	74
Persimmons	18	--	6	15	15	--	15
Pistachios	--	10,587	18,184	19,134	17,517	2,086	19,603
Plums	427	672	1,215	1,483	1,308	80	1,388
Pomegranates	2	44	58	20	20	--	20
Prunes	--	425	735	1,375	1,293	82	1,375
Walnuts	1,013	1,307	2,047	917	890	41	931
TOTAL PLANTED ACRES	54,922	88,323	157,343	181,940	172,694	15,927	188,621

* Includes Tangerines, Mandarins, and Tangelos

MADERA COUNTY ANNUAL SUSTAINABLE AGRICULTURAL REPORT

COUNTY BIOLOGICAL CONTROL

<u>PEST</u>	<u>AGENT/MECHANISM</u>	<u>PROGRAM SCOPE</u>
Yellow Star Thistle <i>Centaurea solstitialis</i>	Seed Head Weevil <i>Bangasternus orientalis</i>	2 Sites
Puncture Vine <i>Tribulus maruanum</i>	Seed and Stem Weevil <i>Microlarinus lareynii</i> <i>Microlarinus lypriformis</i>	Countywide
Klamath Weed <i>Hypericum perforatum</i>	Klamath Weed Beetle <i>Chrysolina quadrigemina</i>	3 Sites
Ash Whitefly <i>Siphoninus phyllyreae</i>	Wasp <i>Encarsia nr. inaron</i>	Countywide
Russian Thistle <i>Salsoia iberica</i>	Seed Head Weevil <i>Coleophora klimeschiella</i>	3 sites

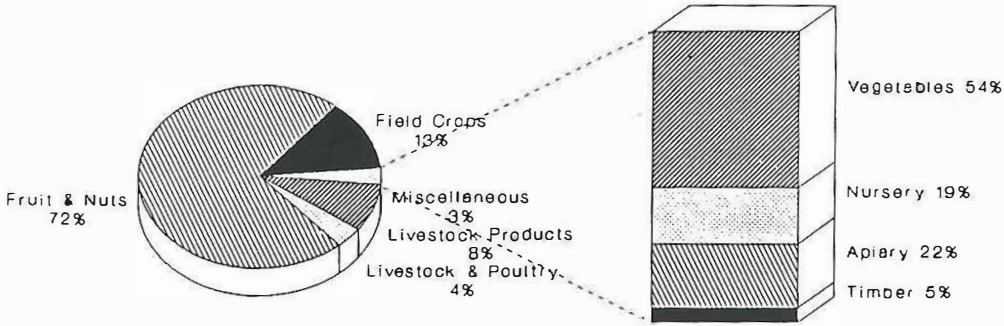
COUNTY PEST ERADICATION

<u>PEST</u>	<u>AGENT/MECHANISM</u>	<u>PROGRAM SCOPE</u>
Pink Bollworm <i>Pectinophora gossypiella</i>	Mechanical/ Host Free Period	37,275 acres

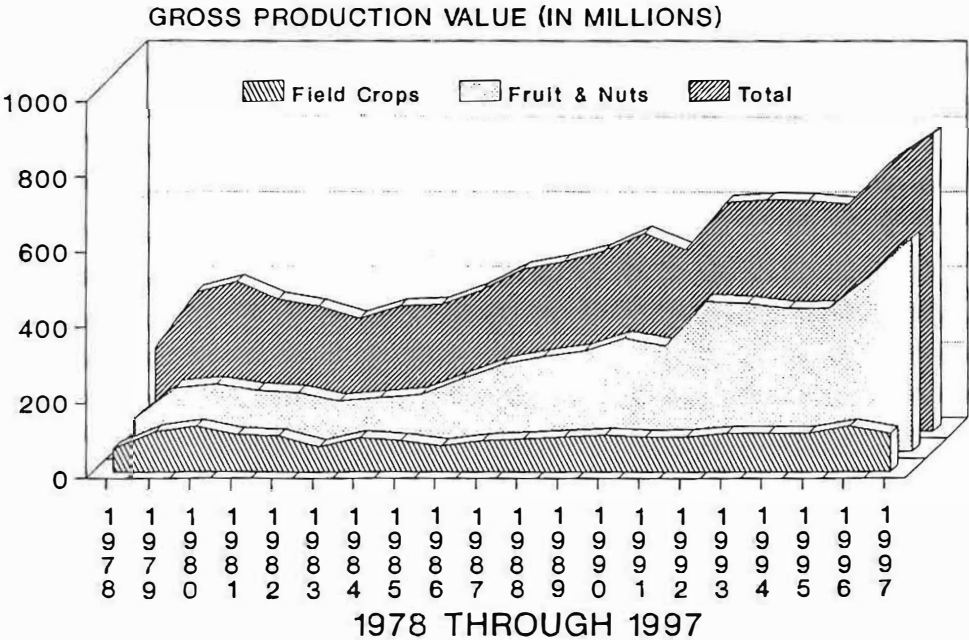
ORGANIC FARMING STATISTICS

<u>CROP</u>	<u>NUMBER OF FARMS</u>	<u>ESTIMATED ACRES</u>
Various Crops	13	1,825

MADERA COUNTY 1997 TOTAL CROP VALUE



GROWTH IN MADERA COUNTY AGRICULTURE OVER A TWENTY YEAR SPAN



Errata. The total value in 1997 for combined grape production should be \$275,863,000, an increase of 24.8% over 1996. This error is found in our cover letter and in the Million Dollar Crop list, on page 8. We regret any inconvenience this may have caused.

MADERA COUNTY



AGRICULTURAL CROP REPORT

1 9 9 8

"There are two spiritual dangers in not owning a farm.
One is the danger of supposing that breakfast comes from the grocery,
and the other that heat comes from the furnace."

Aldo Leopold, naturalist

For centuries, pistachios have grown wild in the high desert regions of the Middle East. Considered a rare delicacy, pistachios were a favorite of the Queen of Sheba, who hoarded the entire Assyrian supply for herself and her court.

Although pistachios were imported to America in the 1880s, the birth of the California pistachio industry may be traced to 1929, when plant scientist William E. Whitehouse traveled to Persia (modern day Iran), where he would spend six months selectively gathering pistachio seeds. Whitehouse returned to California with twenty pounds of seed, and began experimental plantings the following year.

Traditionally, nut-bearing and rootstock cultivar seeds are germinated and grown in pots for fifteen months. Rootstocks are then planted in the orchard to allow trees to adapt to environmental conditions, and subsequently are grafted with nut-bearing cultivar. Pistachio trees generally grow in the orchard for five years before the first harvest, reaching peak production in twenty years. A long-term producer, pistachios have been known in the Middle East to bear for more than 100 years.

Pistachios are encased in an outer hull which, upon ripening, turns rosy and splits naturally. Harvest usually begins during the first part of September and continues for six to eight weeks. California pistachios are mechanically shaken from the tree onto a catching frame, and are then transported to be hulled, dried, and roasted.

The first commercial crop of pistachios in California was harvested in 1976, producing 1.5 million pounds of pistachios. In 1999, California production topped 187 million pounds. California produces over 95 percent of our nations pistachio crop, with Madera County having the second highest production in the state.

Our thanks to the California Pistachio Commission for their generous contribution of the central cover picture, as well as information on the pistachio.



Madera County Department of Agriculture

Weights and Measures

Robert J. Rolan, Agricultural Commissioner
Sealer of Weights & Measures

David A. Robinson, Assistant
Commissioner/Sealer

William J. Lyons, Jr., Secretary
California Department of Food and Agriculture

and

The Honorable Board of Supervisors

In accordance with the provisions of Section 2279 of the California Food and Agricultural Code, I am pleased to submit the 1998 Agricultural Crop Report.

The 1998 growing season, shortened and subdued by severe weather conditions, challenged all involved in production agriculture. Virtually every commodity produced in Madera County was impacted, as is evident in the total production value of \$636,720,000, down 19% from the record total achieved in 1997.

During the spring, extended rainfall delayed the growth of field crops, resulting in a 32% decrease in overall production value. Cotton hit with severe production losses and declining prices fell 48% in value. Silage crops, planted in quantity where cotton had been planned, also saw declines in value.

Production of fruit and nut crops declined 29% overall. Rain, affecting bloom and pollination, resulted in almond production dropping 42% from 1997, with no accompanying rise in price. Grape production was down 25%; prices were up for raisins and table grapes, though down for crush and wine grapes.

Dairies are on the rise in the county; milk values increased 42% in a single year. Additionally, nursery acreage increased 72%, with nursery stock value topping 15 million dollars.

In the preparation of a report of this type, extensive collaboration between many individuals is required, and I sincerely appreciate the contributions of our growers and ranchers, the staff of the University of California Cooperative Extension, and industry representatives. Additionally, I would like to thank the members of our department, especially Susan Wilson and Marilyn Key, for compiling the information into its final form.

Respectfully Submitted,



Robert J. Rolan
Agricultural Commissioner

Madera County Board of Supervisors

Frank Bigelow

District 1

Vern Moss

District 2

Gail Hanhart-McIntyre

District 3

John Silva

District 4

Gary Gilbert

District 5

County Administrative Officer

Stell Manfredi

Agricultural Commissioner/ Sealer of Weights and Measures

Robert J. Rolan

Assistant Agricultural Commissioner/Sealer

David A. Robinson

Deputy Agricultural Commissioners

Randall J. Hansen

Donald G. Mayeda

Agricultural and Standards Inspectors

Iqbal S. Brar

Scott G. Porteous

Bruce E. Derry

Bruce H. Rohn

Marilyn Key

Diana K. Shima

Carol Massetti-Walters

Susan S. Wilson

Bret L. Nicholson

Pest Detection Trappers

Jaime Whatley

Roberta Weikel

Clerical Staff

Lore Ciuffoli, Administrative Assistant

Tammy Dodson, Program Assistant II

Mark Rodrigues, Student Assistant

MADERA COUNTY

AGRICULTURAL CROP REPORT



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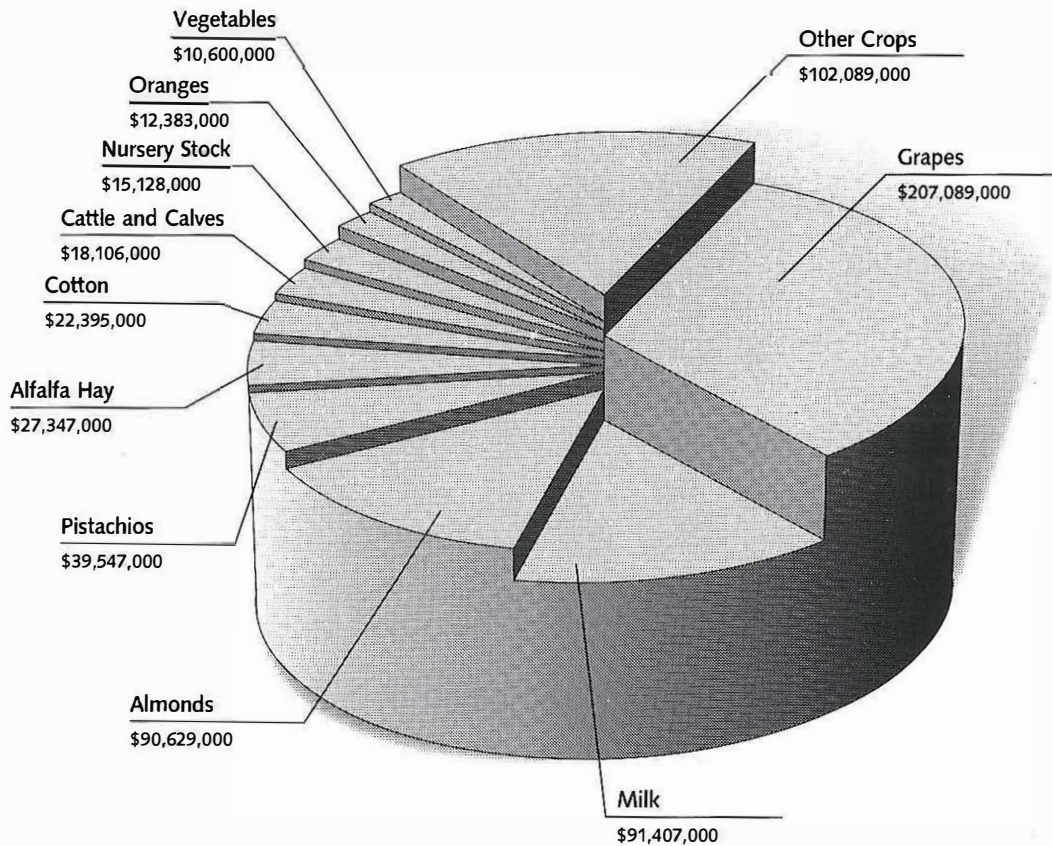
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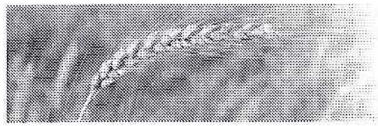
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TEN LEADING CROPS MADERA COUNTY - 1998

COMMODITY	1998 RANK	1998 DOLLAR VALUE	1997 RANK
Grape	1	\$207,089,000	1
Milk	2	\$91,407,000	3
Almonds	3	\$90,629,000	2
Pistachios	4	\$39,547,000	4
Alfalfa Hay	5	\$27,347,000	6
Cotton	6	\$22,395,000	5
Cattle and Calves	7	\$18,106,000	8
Nursery Stock	8	\$15,128,000	—
Oranges	9	\$12,383,000	9
Vegetables	10	\$10,600,000	10





FIELD CROPS

Item	Year	PRODUCTION			VALUE		
		Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Barley, Irrigated	1998	1,056	1.48	1,563	Ton	\$103.00	\$ 161,000
	1997	856	1.60	1,370	Ton	\$130.00	\$ 178,000
Beans, Dry ^a	1998	2,100	1.33	2,793	Ton	567.00	1,584,000
	1997	2,259	1.03	2,327	Ton	560.00	1,303,000
Corn, Field	1998	8,372	4.52	37,841	Ton	101.00	3,822,000
	1997	9,743	4.20	40,921	Ton	111.00	4,542,000
Corn, Silage	1998	6,961	25.00	174,025	Ton	18.00	3,132,000
	1997	3,057	26.00	79,482	Ton	22.00	1,749,000
Silage, Other ^b	1998	3,870 ^c	11.70	111,500	Ton	20.00	2,230,000
	1997	1,950	13.40	26,130	Ton	19.00	496,000
Cotton, Lint	1998	27,130	950 ^d	53,695	Bale	.71 ^e	18,299,000
	1997	37,275	1,338	99,748	Bale	.76	37,904,000
Cotton, Seed	1998			23,403	Ton	175.00	4,096,000
	1997			41,570	Ton	176.00	7,316,000
Hay, Alfalfa	1998	37,313	6.98	260,445	Ton	105.00	27,347,000
	1997	39,356	7.40	291,234	Ton	114.00	33,201,000
Pasture, Irrigated	1998	5,500				120.00	660,000
	1997	5,000				120.00	660,000
Pasture, Other	1998	381,000				8.00	3,048,000
	1997	381,000				8.00	3,048,000
Stubble Other ^f	1998	14,500				14.00	203,000
	1997	14,500				14.00	203,000
Sugar Beets	1998	440	31.50	13,860	Ton	37.00	513,000
	1997	357	33.50	11,960	Ton	43.00	514,000
Wheat	1998	14,000	2.18	30,520	Ton	101.00	3,083,000
	1997	28,543	2.40	68,503	Ton	123.00	8,426,000
Misc. ^g	1998	3,362					674,000
	1997	6,024					2,115,000
TOTAL	1998	491,104					\$68,852,000
	1997	515,920					\$101,655,000

a/ Includes black-eyes, kidneys and limas

b/ Includes alfalfa, oat and winter forage

c/ Does not include alfalfa acreage

d/ Pounds

e/ Per pound

f/ Includes alfalfa, corn and grain

g/ Includes dryland grains, oats, rice, safflower, seed crops and sorghum





FRUIT & NUT CROPS

Item	Year	PRODUCTION			VALUE		
		Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Almonds ^a	1998	43,635	.67	29,235	Ton	\$3,100.00	\$90,629,000
	1997	42,514	1.17	49,741	Ton	\$3,100.00	\$154,197,000
Almond Hulls	1998			58,470	Ton	70.00	4,093,000
	1997			99,483	Ton	84.00	8,357,000
Apples	1998	2,726	7.78	21,208	Ton	445.00	9,437,000
	1997	3,138	9.09	28,524	Ton	605.00	17,257,000
Figs	1998	9,430	1.32	12,448	Ton	751.00	9,348,000
	1997	9,199	1.73	15,914	Ton	718.00	11,426,000
Grapes, Raisin	1998	43,898					92,905,000
	1997	43,761					126,545,000
Dried	1998	30,738	1.72	52,869	Ton	1,158.00	61,222,000
	1997	30,112	3.02	90,938	Ton	872.00	79,298,000
Crushed	1998	9,960	8.60	85,656	Ton	165.00	14,133,000
	1997	10,438	11.72	122,345	Ton	186.00	22,756,000
Fresh	1998	3,200	6.02	19,264	Ton	911.00	17,550,000
	1997	3,211	8.90	28,578	Ton	857.00	24,491,000
Grapes, Table	1998	2,544	6.65	16,918	Ton	1,005.00	17,923,000
	1997	2,577	7.90	20,358	Ton	974.00	19,829,000
Grapes, Wine ^b	1998	40,266					96,261,000
	1997	40,990					129,489,000
Red Varieties	1998	17,477	8.36	146,108	Ton	325.00	47,485,000
	1997	16,466	11.27	185,572	Ton	333.00	61,795,000
White Varieties	1998	22,789	10.39	236,777	Ton	206.00	48,776,000
	1997	24,524	12.16	298,212	Ton	227.00	67,694,000
Grapes Total	1998						207,089,000
	1997						275,863,000
Nectarines	1998	640	5.86	3,750	Ton	580.00	2,175,000
	1997	651	7.70	5,013	Ton	750.00	3,760,000
Olives	1998	1,160	5.48	6,357	Ton	482.00	3,064,000
	1997	1,805	4.28	7,728	Ton	692.00	5,346,000
Oranges	1998	3,931	18.00	70,758	Ton	175.00	12,383,000
	1997	4,281	15.70	67,212	Ton	212.00	14,249,000

a/ Meat basis

b/ Includes table grapes crushed



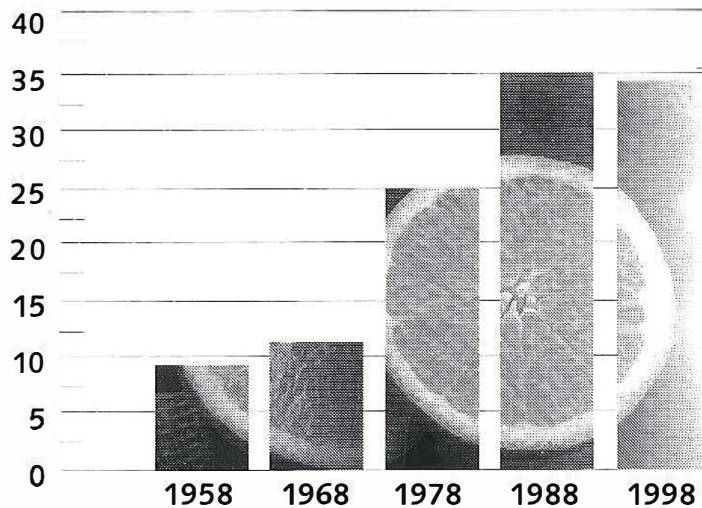
FRUIT & NUT CROPS

Item	Year	PRODUCTION			VALUE		
		Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Peach, Free	1998	876	10.62	9,303	Ton	436.00	4,056,000
	1997	1,090	7.70	8,393	Ton	488.00	4,096,000
Pistachios	1998	17,854	1.00	17,854	Ton	2,215.00	39,547,000
	1997	17,517	1.25	21,896	Ton	2,550.00	55,835,000
Plums	1998	1,204	9.55	11,498	Ton	717.00	8,244,000
	1997	1,308	7.87	10,294	Ton	741.00	7,628,000
Prunes ^c	1998	946	2.12	2,005	Ton	917.00	1,839,000
	1997	1,293	3.60	4,655	Ton	849.00	3,952,000
Walnuts	1998	977	1.57	1,534	Ton	962.00	1,476,000
	1997	890	1.35	1,202	Ton	1,400.00	1,683,000
Misc. ^d	1998	1,568					7,748,000
	1997	1,680					4,324,000
TOTAL	1998	171,655					\$401,128,000
	1997	172,694					\$567,973,000

c/ Dried weight

d/ Includes apricots, cherries, kiwis, lemons, cling peaches, pears, pecans, strawberries, tangerines, tangelos, persimmons, and pomegranates

Number of Crops Valued at One Million Dollars or More





APIARY PRODUCTS

Item	Year	Production	Unit	Unit	Per Total
Honey	1998	580,800	Pound	\$.60	\$348,000
	1997	640,320	Pound	\$.58	\$371,000
Pollination	1998	109,500	Colony	39.80	4,358,000
	1997	114,119	Colony	42.25	4,822,000
TOTAL	1998				\$4,706,000
	1997				\$5,193,000



LIVESTOCK AND POULTRY PRODUCTS

Item	Year	Production	Unit	Unit	Per Total
Milk	1998	6,088,877	CWT	\$ 14.65	\$89,213,000
	Market	1997	5,143,928	CWT	\$ 12.30
Milk	1998	146,919	CWT	14.93	2,194,000
	Manufacturing	1997	84,369	CWT	12.16
Other Livestock & Poultry Products ^a	1998				2,165,000
	1997				1,959,000
TOTAL	1998				\$93,572,000
	1997				\$66,255,000

a/ Includes market eggs, fertilizer, hogs, sheep, lambs and wool



LIVESTOCK AND POULTRY

Item	Year	Head	Liveweight	Unit	Per Unit	Total
Cattle and Calves	1998	41,000	282,900	CWT	\$ 64.00	\$18,106,000
	1997	38,011	262,276	CWT	\$ 61.00	\$15,999,000
All Chickens	1998	6,376,400	32,664,000	Pound	.351	11,465,000
	1997	3,900,170	20,514,894	Pound	.307	6,298,000
Turkeys	1998	1,241,100	30,715,000	Pound	.350	10,750,000
	1997	936,271	19,183,670	Pound	.345	6,618,000
TOTAL	1998					\$40,321,000
	1997					\$28,915,000





VEGETABLE CROPS

Item	Year	PRODUCTION			VALUE	
		Harvested Acreage	Per Acre	Total	Per Unit	Total
Vegetables ^a	1998	4,816				\$10,600,000
	1997	5,151				\$12,746,000

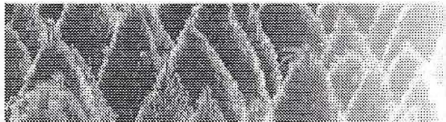
a/ Includes artichokes, all cabbage, carrots, cucumbers, garlic, all melons, onions, all peppers, potatoes, all squash, all tomatoes, and miscellaneous truck crops



NURSERY PRODUCTS

Item	Year	Field Acres	Total Value
Nursery Stock ^a	1998	671	\$15,128,000
	1997	390	\$ 4,541,000

a/ Includes citrus, figs, grapevines, pistachios, ornamentals and Christmas trees



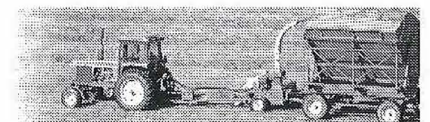
FOREST PRODUCTS

Item	Year	Production	Unit	Total Value
Timber	1998	9,978	MBF	\$2,413,000
	1997	5,504	MBF	\$1,225,000



MADERA COUNTY

Total Acres in County	1,374,160
Population in County	114,300
Land in Farms - Acres	641,546
Harvested Cropland - Acres	287,246





MADERA COUNTY ANNUAL SUSTAINABLE AGRICULTURE REPORT

COUNTY BIOLOGICAL CONTROL

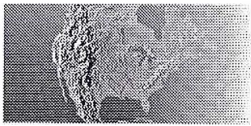
Pest	Agent/Mechanism	Program Scope
Yellow Star Thistle <i>Centaurea solstitialis</i>	Seed Head Weevil <i>Bangasternus orientalis</i>	2 Sites
Puncture Vine <i>Tribulus terrestris</i>	Seed and Stem Weevil <i>Microlarunus lareynii</i> <i>Microlarinus lypriformis</i>	Countywide
Klamath Weed <i>Hypericum perforatum</i>	Klamath Weed Beetle <i>Chrysolina quadrugemina</i>	3 Sites
Ash Whitefly <i>Siphoninus phylllyraeae</i>	Wasp <i>Encarsia nr. inaron</i>	Countywide
Russian Thistle <i>Salsola sp.</i>	Casebearer Moth <i>Coleophora klimeschiella</i>	3 sites

COUNTY PEST ERADICATION

Pest	Agent/Mechanism	Program Scope
Pink Bollworm <i>Pectinophora gossypiella</i>	Mechanical/ Host Free Period	27,955 acres

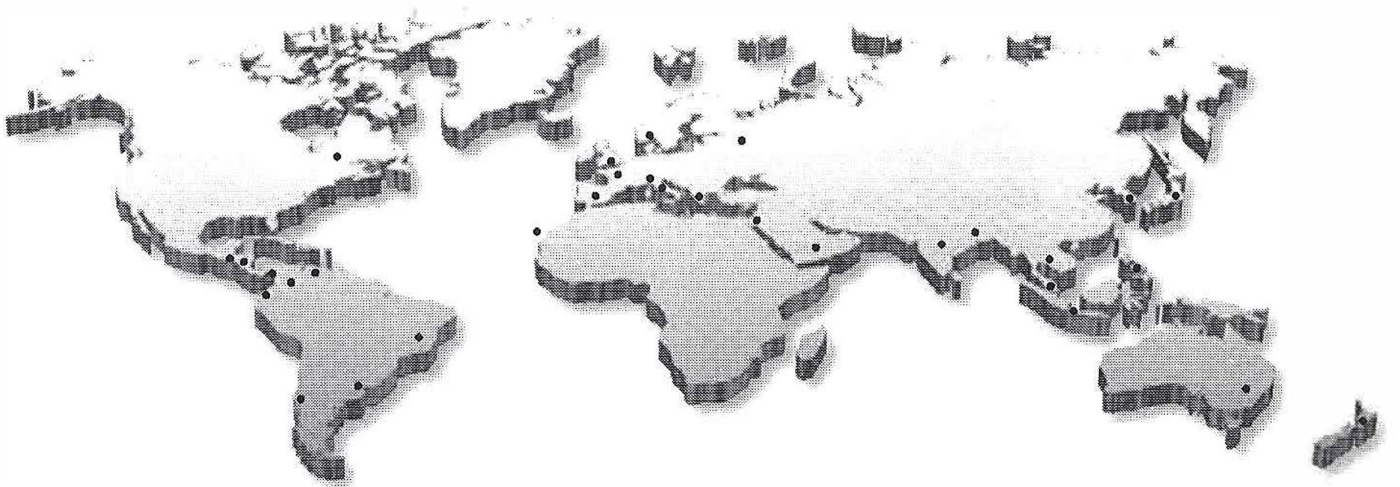
ORGANIC FARMING STATISTICS

Crop	Number of Farms	Estimated Acres
Various Crops	18	1,800



COUNTRIES RECEIVING MADERA COUNTY PRODUCE IN 1998

Argentina	Greece	Nicaragua
Austria	Guatemala	Panama
Australia	Hong Kong	Philippines
Belgium	India	Republic of Latvia
Brazil	Indonesia	Russia
Canada	Israel	Saudi Arabia
Canary Islands	Italy	Singapore
Chile	Japan	Spain
Colombia	Korea	Sweden
Costa Rica	Lebanon	Switzerland
Denmark	Macau	Taiwan
Dominica	Malaysia	Thailand
Ecuador	Mexico	Turkey
Estoria	Nepal	United Arab Emirates
France	Norway	United Kingdom
Fiji	Netherlands	Venezuela
Germany	New Zealand	

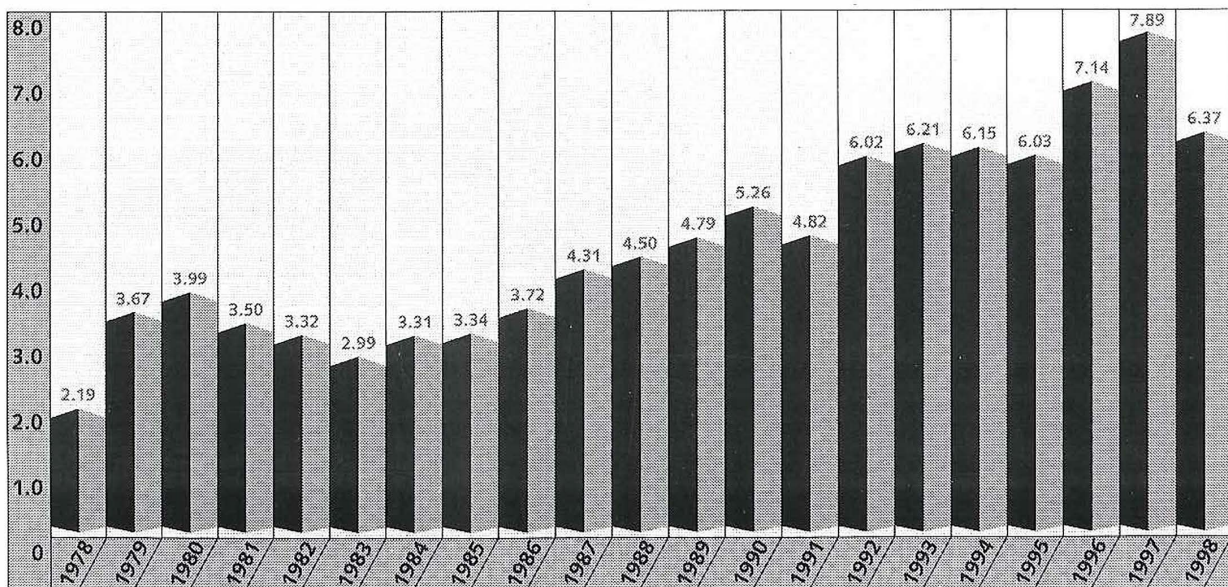


AGRICULTURAL CROP REPORT SUMMARY

Item	Year	Harvested Acreage	Total Value
Apiary	1998		\$4,706,000
	1997		\$5,193,000
Field Crops	1998	491,104	68,852,000
	1997	515,920	101,655,000
Fruit and Nut Crops	1998	171,655	401,128,000
	1997	172,694	567,973,000
Livestock and Poultry	1998		40,321,000
	1997		28,915,000
Livestock and Poultry Products	1998		93,572,000
	1997		66,255,000
Nursery	1998	671	14,128,000
	1997	390	4,541,000
Timber Products	1998	9,978 MBF	2,413,000
	1997	5,504 MBF	1,225,000
Vegetable Crops	1998	4,816	10,600,000
	1997	5,151	12,746,000
TOTAL	1998		\$636,720,000
	1997		\$788,503,000

GROWTH OF MADERA COUNTY AGRICULTURE OVER A TWENTY YEAR SPAN

Gross Production Value (in Hundred Millions)





MADERA COUNTY
agricultural crop report



"It is inconceivable to me
that an ethical relation to land can exist without love, respect,
and admiration for land, and a high regard for its value."

Aldo Leopold, naturalist

The California nursery industry was formalized in 1911, with the founding of the California Association of Nurserymen, a non-profit trade organization dedicated to the promotion and advancement of the nursery industry. Representatives from eighteen geographical chapters serve on the board of directors, working together with members to improve communication within the industry and address common concerns.

Nursery crops, remarkable in their diversity, include: fruit and nut trees; grapevines; berry bush and strawberry plants; vegetable transplants; forest seedlings for Christmas trees and timber; ornamental trees and shrubs; flowering bedding plants; bulbs; seeds; turf sod for lawns; indoor decorative plants; cut flowers and floral greens.

This diversity fosters an industry comprised of numerous independent operations, rather than one dominated by a few major players. Autonomy in the industry is further enhanced by relative freedom from the requirement for specific soil types; most nursery plants thrive in above-ground containers of prepared growing media.

Based on dollar value, nursery stock is the sixth largest agricultural product grown in the United States, and this continues to expand. California produces nearly 25% of the nursery stock cultivated nationally.

Locally, nursery production in Madera County has increased from a value of \$545,000 in 1969, to a value exceeding \$30,200,000 in 1999. Madera County nursery products are characteristic of the industry in their variety, including grapevines; fruit and nut trees; flowering bedding plants; indoor decorative plants; seeds; and cut flowers. The nursery products of Madera County further typify the industry in their array of market destinations, from local deliveries, to countries the world over.

Madera County Department of Agriculture

Weights and Measures

Robert J. Rolan, Agricultural Commissioner
Sealer of Weights & Measures

David A. Robinson, Assistant
Commissioner/Sealer

William J. Lyons, Jr., Secretary
California Department of Food and Agriculture

and

The Honorable Board of Supervisors

In accordance with the provisions of Section 2279 of the California Food and Agricultural Code, I am pleased to submit the 1999 Agricultural Crop Report.

The total value of Madera County agricultural production topped \$702,383,000 in 1999. This represents a 10.3% increase over the total achieved in 1998.

Yields for the major field crops were up, resulting in a 10% increase in total field crop production value. Silage acreage soared, corresponding to growth in dairy production values. County milk production reached a new high; production of replacement heifers reached a value of \$27,600,000.

Producers of fruits and nuts were challenged on several fronts during the 1999 growing season. Freezing temperatures devastated the orange crop, with only 600 of 3,850 bearing acres harvested. The olive yield was also affected; yield decreased nearly 74% from the preceding year. Almond production, up nearly 60%, suffered a sharp drop in price. The total value for fruit and nut production held steady, however, bolstered in part by a significant increase in raisin production.

Nursery production values continued to rise, reaching a record value of \$30,200,000 in 1999. Vegetable crop production values increased as well, resulting in a total production value of \$16,222,000, up 53% from the preceding year.

The preparation of a report of this type requires extensive collaboration between many individuals, and I sincerely appreciate the contributions of our growers and ranchers, the staff of the University of California Cooperative Extension, industry representatives, and the members of my staff who assisted in the gathering of data. Additionally, I would like to thank Marilyn Key, for compiling the information into its final form; Susan Wilson, for report design; and Bret Nicholson, who served as photographer.

Respectfully Submitted,



Robert J. Rolan
Agricultural Commissioner

MADERA COUNTY HIGHLIGHTS

County Established	March 11, 1893
County Seat	Madera (city)
Population ^a	114,748

Total County Acreage ^b	1,368,587
1999 Harvested Acreage	649,425
Field Crop Acreage	113,780
Fruit and Nut Acreage	177,210
Nursery Acreage	1,135
Vegetable Acreage	4,300
Ranchland Acreage	353,000

Forest Acreage	414,290
U. S. Parkland Acreage	82,973

Bordering Counties	Lake Tahoe
Merced County	Northwest
Mariposa County	North
Mono County	East
Fresno County	South and West

Statewide Ranking of County	
Population ^a	35
Total Acreage	24
Total Agricultural Production ^b	14

Commodity, by value ^c	
Figs	1
Pistachios	2
Grapes, Raisin Variety	2
Olives	4
Almonds	5
Grapes, Table Variety	5
Grapes, Wine Variety	6
Milk	7

San Francisco ●

Yosemite
National
Park

a/ US Bureau of Census, 1998 Estimate
b/ USDA Ag Census, 1997
c/ County Agricultural Commissioner's Data, 1998

MADERA COUNTY

agricultural crop report

Madera County Board of Supervisors

Frank Bigelow
District 1

Vern Moss
District 2

Gail Hanhart-McIntyre
District 3

John Silva
District 4

Gary Gilbert
District 5

County Administrative Officer

Stell Manfredi

Agricultural Commissioner/ Sealer of Weights and Measures

Robert J. Rolan

Assistant Agricultural Commissioner/Sealer

David A. Robinson

Deputy Agricultural Commissioners

Randall J. Hansen Donald G. Mayeda

Agricultural and Standards Inspectors

Iqbal S. Brar	Debbie McDougald
Bill DeRaad	Bret L. Nicholson
Bruce E. Derry	Scott G. Porteous
Marilyn Key	Bruce H. Rohn
Carol Massetti-Walters	Diana K. Shima
Susan S. Wilson	

Pest Detection Trappers

Enrique Rosales Jaime Whatley
Roberta Weikel

Clerical Staff

Lore Ciuffoli, Administrative Assistant
Tammy Dodson, Program Assistant II
Mark Rodrigues, Office Assistant I



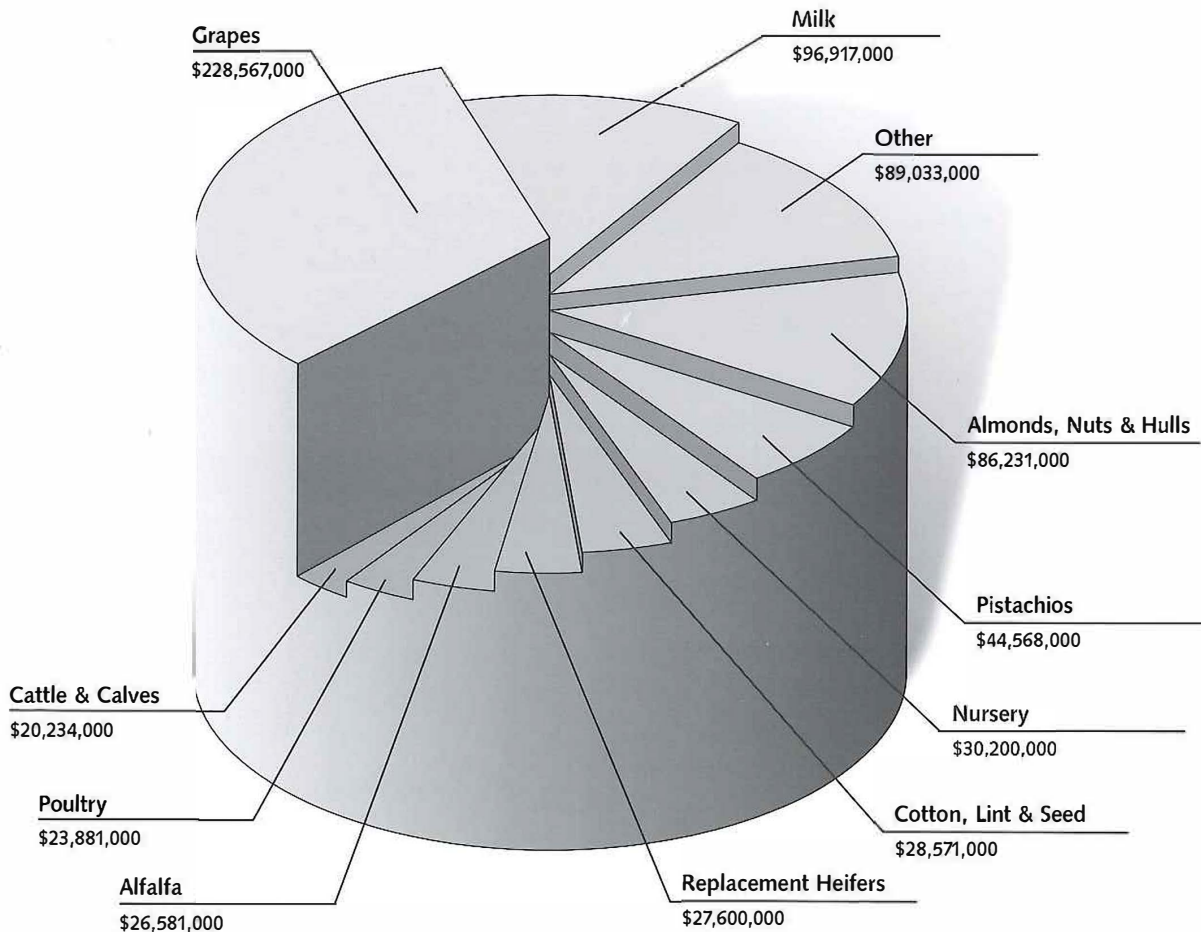
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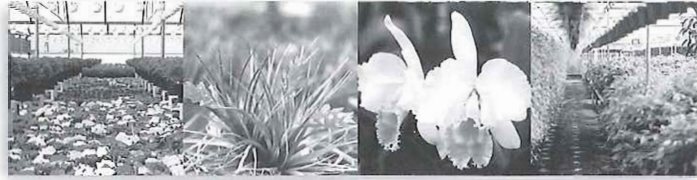
<i>Madera County's Ten Leading Crops</i>	2
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<i>Fruit and Nut Crops</i>	6
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TEN LEADING CROPS MADERA COUNTY - 1999

COMMODITY	1999 RANK	1999 DOLLAR VALUE	1998 RANK
Grapes	1	\$228,567,000	1
Milk	2	\$96,917,000	2
Almonds, Nuts & Hulls	3	\$86,231,000	3
Pistachios	4	\$44,568,000	4
Nursery Stock	5	\$30,200,000	8
Cotton, Lint & Seed	6	\$28,571,000	6
Replacement Heifers	7	\$27,600,000	—
Alfalfa	8	\$26,581,000	5
Poultry	9	\$23,881,000	—
Cattle and Calves	10	\$20,234,000	7





MADERA COUNTY AGRICULTURAL PRODUCTION & VALUE

The information in the following tables is compiled and made available in order to provide an annual record of agricultural production within the county. Yield, production, and pricing information is gathered from both growers and processors. Acreages shown are not intended to reflect planted acreage, but rather the total acreage harvested during the current growing season. Weighted averages of yields and unit values are then prepared for the individual commodities, allowing determination of countywide totals for production and value.



APIARY PRODUCTS

Item	Year	PRODUCTION		VALUE	
		Total	Unit	Per Unit	Total
Apiary Products					
Beeswax ^a	1999	13,000	Pound	\$1.00	\$13,000
Honey	1999	596,740	Pound	0.55	328,000
	1998	580,800	Pound	.60	348,000
	1997	640,320	Pound	.58	371,000
Pollination	1999	118,500	Colony	40.60	4,811,000
	1998	109,500	Colony	39.80	4,358,000
	1997	114,119	Colony	42.25	4,822,000
TOTAL	1999				\$5,152,000
	1998				4,706,000
	1997				5,193,000

a/ Not previously reported



FIELD CROPS

Item	Year	PRODUCTION			VALUE		
		Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Alfalfa							
Hay	1999	37,810	7.12	269,207	Ton	\$96.00	\$25,844,000
	1998	37,313	6.98	260,445	Ton	105.00	27,347,000
	1997	39,356	7.40	291,234	Ton	114.00	33,201,000
Silage ^{ab}	1999			33,488	Ton	22.00	737,000
Total Alfalfa	1999	37,810					26,581,000
Beans, Dry^c							
	1999	2,600	1.26	3,276	Ton	448.00	1,468,000
	1998	2,100	1.33	2,793	Ton	567.00	1,584,000
	1997	2,259	1.03	2,327	Ton	560.00	1,303,000
Corn							
Grain	1999	5,820	4.69	27,296	Ton	121.00	3,303,000
	1998	8,372	4.52	37,841	Ton	101.00	3,822,000
	1997	9,743	4.20	40,921	Ton	111.00	4,542,000
Silage	1999	10,400	24.37	253,448	Ton	18.00	4,562,000
	1998	6,961	25.00	174,025	Ton	18.00	3,132,000
	1997	3,057	26.00	79,482	Ton	22.00	1,749,000
Total Corn	1999	16,220					7,865,000
	1998	15,333					6,954,000
	1997	12,800					6,291,000
Cotton							
Lint	1999	26,540	1,303 ^d	72,045	Bale ^e	.69 ^f	23,861,000
	1998	27,130	950	53,695	Bale	.71	18,299,000
	1997	37,275	1,338	103,904	Bale	.76	37,904,000
Seed	1999			31,401	Ton	150.00	4,710,000
	1998			23,403	Ton	175.00	4,096,000
	1997			41,570	Ton	176.00	7,316,000
Oat							
Hay ^g	1999	2,500	2.74	6,850	Ton	62.00	425,000

a/ Reported previously under Silage, Other

b/ Alfalfa acreage yields both hay and silage

c/ Includes black-eyes, kidneys and limas

d/ Pounds

e/ Bale: 480 pounds

f/ Per pound

g/ Reported previously under Miscellaneous





FIELD CROPS

Item	Year	PRODUCTION			VALUE		
		Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Pasture							
Irrigated	1999	5,500			Acre	\$120.00	\$660,000
	1998	5,500			Acre	120.00	660,000
	1997	5,000			Acre	120.00	660,000
Rangeland^h							
	1999	353,000 ⁱ			Acre	9.00	3,177,000
	1998	381,000			Acre	8.00	3,048,000
	1997	381,000			Acre	8.00	3,048,000
Sugar Beets							
	1999	580	36.13	20,955	Ton	30.00	629,000
	1998	440	31.50	13,860	Ton	37.00	513,000
	1997	357	33.50	11,960	Ton	43.00	514,000
Wheat							
Grain ⁱ	1999	6,000	2.33	13,980	Ton	102.00	1,426,000
Silage ^j	1999	11,000	16.07	176,770	Ton	17.00	3,005,000
Total Wheat							
	1999	17,000					4,431,000
	1998	14,000					3,083,000
	1997	28,543					8,426,000
Winter Forage ^a	1999	2,430	12.62	30,670	Ton	17.00	521,000
Miscellaneous^k							
	1999	2,600					1,552,000
	1998	8,288					3,268,000
	1997	9,330					2,992,000
TOTAL							
	1999	466,780					\$75,880,000
	1998	491,104					68,852,000
	1997	515,920					101,655,000

- h/ Reported previously under Pasture, Other
- i/ Change due to improved mapping
- j/ Reported previously under Wheat
- k/ Includes barley, rice, safflower, sorghum, Sudan grass, seed crops and field stubble





FRUIT & NUT CROPS

Item	Year	PRODUCTION				VALUE	
		Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Almonds ^a	1999	46,200	1.01	46,662	Ton	\$1,734.00	\$80,912,000
	1998	43,635	.67	29,235	Ton	3,100.00	90,629,000
	1997	42,514	1.17	49,741	Ton	3,100.00	154,197,000
Almond Hulls	1999			88,658	Ton	60.00	5,319,000
	1998			58,470	Ton	70.00	4,093,000
	1997			99,483	Ton	84.00	8,357,000
Apples	1999	2,400	6.90	16,560	Ton	474.00	7,849,000
	1998	2,726	7.78	21,208	Ton	445.00	9,437,000
	1997	3,138	9.09	28,524	Ton	605.00	17,257,000
Figs	1999	9,520	1.27	12,090	Ton	519.00	6,275,000
	1998	9,430	1.32	12,448	Ton	751.00	9,348,000
	1997	9,199	1.73	15,914	Ton	718.00	11,426,000
Grapes							
Raisin Varieties							
Crushed	1999	8,810	7.82	68,894	Ton	202.00	13,917,000
	1998	9,960	8.60	85,656	Ton	165.00	14,133,000
	1997	10,438	11.72	122,345	Ton	186.00	22,756,000
Dried	1999	32,780	1.87	61,299	Ton	1,228.00	75,275,000
	1998	30,738	1.72	52,869	Ton	1,158.00	61,222,000
	1997	30,112	3.02	90,938	Ton	872.00	79,298,000
Fresh	1999	2,660	6.91	18,381	Ton	986.00	18,123,000
	1998	3,200	6.02	19,264	Ton	911.00	17,550,000
	1997	3,211	8.90	28,578	Ton	857.00	24,491,000
Table Varieties	1999	2,590	7.68	19,891	Ton	1,067.00	21,224,000
	1998	2,544	6.65	16,918	Ton	1,005.00	17,923,000
	1997	2,577	7.90	20,358	Ton	974.00	19,829,000
Wine Varieties^b							
Red Varieties	1999	21,690	7.78	168,748	Ton	328.00	55,349,000
	1998	17,477	8.36	146,108	Ton	325.00	47,485,000
	1997	16,466	11.27	185,572	Ton	333.00	61,795,000
White Varieties	1999	23,700	9.02	213,774	Ton	209.00	44,679,000
	1998	22,789	10.39	236,777	Ton	206.00	48,776,000
	1997	24,524	12.16	298,212	Ton	227.00	67,694,000
Total Grapes	1999	92,230					228,567,000
	1998	86,708					207,089,000
	1997	87,328					275,863,000

a/ Meat basis

b/ Includes table grapes crushed





FRUIT & NUT CROPS

Item	Year	PRODUCTION			VALUE		
		Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Nectarines	1999	530	7.03	3,726	Ton	\$655.00	\$2,441,000
	1998	640	5.86	3,750	Ton	580.00	2,175,000
	1997	651	7.70	5,013	Ton	750.00	3,760,000
Olives ^c	1999	1,370	1.43	1,959	Ton	473.00	927,000
	1998	1,160	5.48	6,357	Ton	482.00	3,064,000
	1997	1,805	4.28	7,728	Ton	692.00	5,346,000
Oranges ^d	1999	600	11.62	6,972	Ton	240.00	1,673,000
	1998	3,931	18.00	70,758	Ton	175.00	12,383,000
	1997	4,281	15.70	67,212	Ton	212.00	14,249,000
Peaches							
	Clings ^e	1999	1,030	17.67	18,200	Ton	237.00
Freestone	1999	830	10.43	8,657	Ton	424.00	3,671,000
	1998	876	10.62	9,303	Ton	436.00	4,056,000
	1997	1,090	7.70	8,393	Ton	488.00	4,096,000
Pistachios	1999	18,510	0.83	15,363	Ton	2,901.00	44,568,000
	1998	17,854	1.00	17,854	Ton	2,215.00	39,547,000
	1997	17,517	1.25	21,896	Ton	2,550.00	55,835,000
Plums	1999	1,020	8.23	8,395	Ton	718.00	6,028,000
	1998	1,204	9.55	11,498	Ton	717.00	8,244,000
	1997	1,308	7.87	10,294	Ton	741.00	7,628,000
Prunes ^f	1999	1,440	2.68	3,859	Ton	997.00	3,847,000
	1998	946	2.12	2,005	Ton	917.00	1,839,000
	1997	1,293	3.60	4,655	Ton	849.00	3,952,000
Walnuts	1999	1,050	1.75	1,838	Ton	879.00	1,616,000
	1998	977	1.57	1,534	Ton	962.00	1,476,000
	1997	890	1.35	1,202	Ton	1,400.00	1,683,000
Miscellaneous							
Fruits & Nuts ^g	1999	480					1,888,000
	1998	1,568					7,748,000
	1997	1,680					4,324,000
Orchard							
Firewood ^h	1999			5,000	Cord		455,000
TOTAL	1999	177,210					\$400,349,000
	1998	171,655					401,128,000
	1997	172,694					567,973,000

c/ Yield impacted by freezing temperatures

d/ Harvestable acreage impacted by fruit loss due to freeze

e/ Reported previously under miscellaneous

f/ Dried weight

g/ Includes apricots, cherries, kiwis, pears, pecans, tangerines, tangelos, persimmons, pomegranates and strawberries

h/ Not previously reported





NURSERY PRODUCTS

Item	Year	Field Acres	House Sq. Ft.	Total Value
Nursery Stock ^a	1999	1,135	552,000 ^b	\$30,200,000
	1998	671		15,128,000
	1997	390		4,541,000

a/ Includes grapevines, fruit trees, nut trees and ornamentals

b/ Not previously reported



VEGETABLE CROPS

Item	Year	Harvested Acreage	Total Value
Vegetables ^a	1999	4,300	\$16,222,000
	1998	4,816	10,600,000
	1997	5,151	12,746,000

a/ Includes artichokes, all cabbage, carrots, cucumbers, garlic, melons, onions, all peppers, potatoes, all squash, all tomatoes, and miscellaneous truck crops



FOREST PRODUCTS

Item	Year	Production	Unit	Total Value
Timber	1999	8,982	MBF ^a	\$2,142,000
	1998	9,978	MBF	2,413,000
	1997	5,504	MBF	1,225,000
Firewood ^b	1999	3,765	Cord ^c	320,000
TOTAL	1999			\$2,462,000

a/ Million Board Feet

b/ Not previously reported

c/ Cord: 128 cubic feet





LIVESTOCK AND POULTRY

Item	Year	Head	Liveweight	Unit	Per Unit	Total
Cattle and Calves ^a	1999	42,500	293,250	CWT ^b	\$69.00	\$20,234,000
	1998	41,000	282,900	CWT	64.00	18,106,000
	1997	38,011	262,276	CWT	61.00	15,999,000
Replacement Heifers ^{cd}	1999	20,000			1,380.00	27,600,000
Chickens	1999	4,702,320	26,910,000	Pound	0.267	7,185,000
	1998	6,376,400	32,664,000	Pound	.351	11,465,000
	1997	3,900,170	20,514,894	Pound	.307	6,298,000
Turkeys	1999	2,084,720	48,394,000	Pound	0.345	16,696,000
	1998	1,241,100	30,715,000	Pound	.350	10,750,000
	1997	936,271	19,183,670	Pound	.345	6,618,000
TOTAL	1999					\$71,715,000
	1998					40,321,000
	1997					28,915,000

- a/ Range and dairy cattle sold for beef
 b/ Hundredweight: 100 pounds
 c/ Milk cows
 d/ Not previously reported



LIVESTOCK AND POULTRY PRODUCTS

Item	Year	PRODUCTION		VALUE	
		Production	Unit	Per Unit	Per Total
Milk Market ^a	1999	7,147,793	CWT	\$13.18	\$94,208,000
	1998	6,088,877	CWT	14.65	89,213,000
	1997	5,143,928	CWT	12.30	63,270,000
Milk Manufacturing ^a	1999	206,197	CWT	13.14	2,709,000
	1998	146,919	CWT	14.93	2,194,000
	1997	84,369	CWT	12.16	1,026,000
Other Products ^b	1999				3,486,000
	1998				2,165,000
	1997				1,959,000
TOTAL	1999				\$100,403,000
	1998				93,572,000
	1997				66,255,000

- a/ Madera County has 49 dairies, with 34,500 lactating cows
 b/ Includes aquaculture, market eggs, fertilizer, hogs, sheep, lambs and wool







COUNTRIES RECEIVING MADERA COUNTY PRODUCE IN 1999

- Argentina 
- Australia   
- Austria  
- Belgium  
- Brazil 
- Canada   
- Canary Islands 
- Chile 
- Colombia 
- Costa Rica 
- Egypt 
- El Salvador 
- France  
- Germany  
- Greece 
- Guatemala 
- Honduras 
- Hong Kong   
- India 
- Indonesia 
- Israel  
- Italy  
- Iceland 
- Japan    
- Jordan 
- Kenya 
- Korea 




 **FRUIT:**
 Figs • Grapes • Kiwi • Nectarines • Peaches
 Plums • Peaches • Pomegranates • Raisins


 **NUTS:**
 Almonds • Pecans
 Pistachios • Walnuts



- Latvia 
- Lebanon  
- Macau 
- Malaysia   
- Malta 
- Mauritius  
- Mexico   

- Norway 
- Netherlands 
- New Zealand   
- Panama 
- Paraguay 
- Philippines 
- Saudi Arabia  
- Scotland 
- Singapore 
- Slovenia 
- Spain  
- Sweden 
- Taiwan   
- Thailand  
- Turkey 
- United Arab Emirates  
- United Kingdom   
- Venezuela 

 **FIELD CROPS:**
 Alfalfa • Garlic • Onions
 Potatoes • Sudan Grass

 **NURSERY STOCK:**
 Corms • Grape cuttings
 Grape rootings • Ornamentals



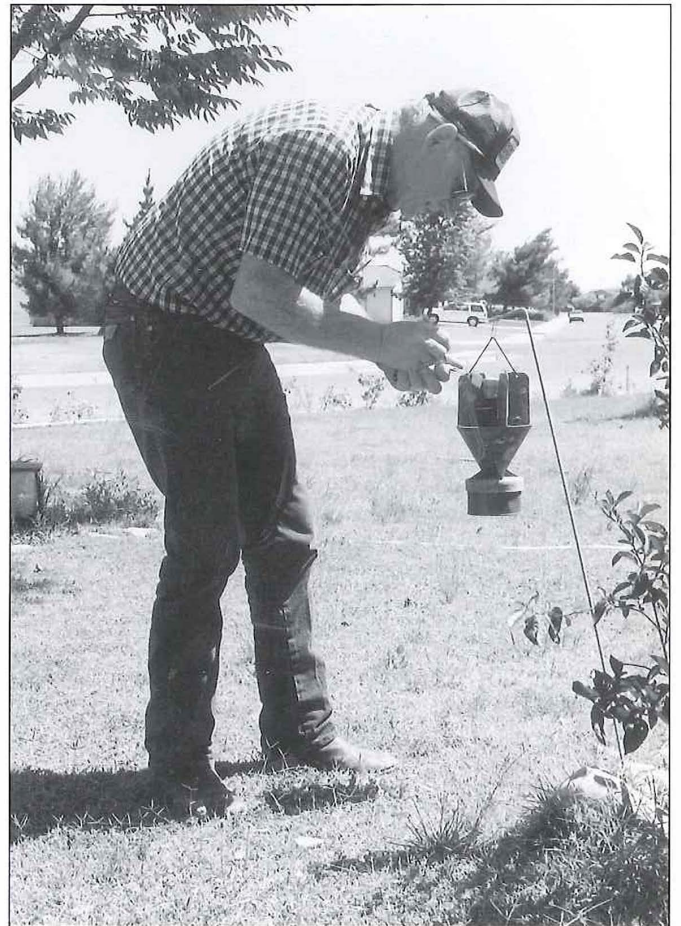
MADERA COUNTY ANNUAL SUSTAINABLE AGRICULTURE REPORT

PEST PREVENTION

Pest prevention programs are mandated by the California Food and Agricultural Code to prevent the introduction and spread of pests in California. Pest prevention involves three strata: pest exclusion, pest detection, and integrated pest control.

The **Pest Exclusion Program** prevents the introduction of injurious pests that are not of common occurrence in the county. In Madera County, inspections ensuring pest cleanliness were performed at nursery locations. In addition, incoming shipments of plant material were inspected for potentially injurious pests. Over 1,200 phytosanitary inspections were performed on agricultural products destined for export. Eighteen locations, totaling 2,535 acres, were surveyed and baited for Red Imported Fire Ant (*Solenopsis invicta*), a significant new quarantine pest. Incoming beehives, transported into the county for pollination, were also inspected for Red Imported Fire Ants. Three finds resulted, and the infested hives were treated.

The **Pest Detection Program** utilizes insect traps and surveys for the discovery of foreign pests which may have eluded exclusion efforts. The trapping program in Madera County targeted several fruit flies, including: Caribbean Fruit Fly (*Anastrepha suspensa*), Mediterranean Fruit Fly (*Ceratitis capitata*), Melon Fly (*Dacus cucurbitae*), Mexican Fruit Fly (*Anastrepha ludens*), Olive Fruit Fly (*Bactrocera oleae*), and Oriental Fruit Fly (*Dacus dorsalis*). Other targeted pests include: Apple Maggot (*Rhagoletis pomonella*), Gypsy Moth (*Lymantria dispar*), Japanese Beetle (*Popillia japonica*), Khapra Beetle (*Trogoderma granarium*), European Corn Borer (*Ostrinia nubilalis*), and European Pine Shoot Moth (*Rhyacionia buoliana*). Eleven hundred traps were placed in the county, with 9,686 trap servicings performed during the 1999 season.



The **Integrated Pest Control Program** strives to eradicate infestations of new pests before they become widespread. Pink Bollworm (*Pectinophora gossypiella*), a non-established and economically significant pest of cotton, is controlled by post-season plowdown of cotton plants. In Madera County, plowdown of nearly 26,000 acres was verified, ensuring the destruction of habitat supportive of this pest.

PEST MANAGEMENT

Pest management programs serve to control pests already established in the county, including injurious insects, weeds, and rodents.

The **Vertebrate Pest Management Program** provides expertise and materials, to growers and homeowners, for the control of certain depredating vertebrate pests.

The **Biological Control Program** involves the utilization of natural parasites and predators to reduce populations of insects or weeds. We have distributed biological control agents active against the ash whitefly (*Siphoninus phillyreae*), as well as three noxious weeds: Klamath weed (*Hypericum perforatum*), puncturevine (*Tribulus terrestris*), and yellow starthistle (*Centaurea solstitialis*).

A parasitic wasp, *Encarsia nr. inaron*, was used countywide against the ash whitefly. (whitefly pictured to right)



An herbivorous leaf beetle, *Chrysolina quadrigemina*, was used against Klamath weed at three sites in the county. (beetle on weed pictured to left)

Stem-mining and seed-eating weevils (*Microlarinus lypriformis* and *Microlarinus lareynii*) were used countywide against puncturevine.

A seed head gall fly (*Urophora sirunaseva*) and a seed head weevil (*Bangasternus orientalis*) were used against yellow starthistle at two sites.

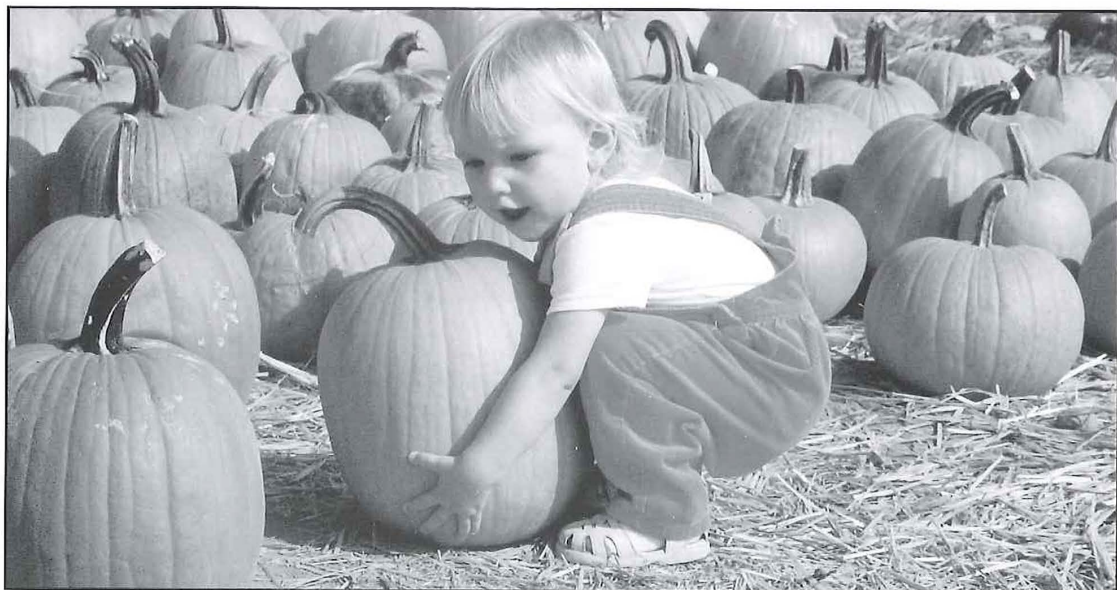
ORGANIC FARMING

Nineteen organic farms, totaling 1850 acres, were registered in Madera County in 1999. Utilizing organic principles defined in the California Organic Food Act of 1990, these farms produce a wide array of commodities: almonds, apples, figs, grapes and raisins, prunes, cotton, and vegetables. The total value of organic production in Madera County during 1999 was \$3,554,000.



AGRICULTURAL CROP REPORT SUMMARY

Item	Year	Harvested Acreage	Total Value
Apiary	1999		\$5,152,000
	1998		4,706,000
	1997		5,193,000
Field Crops	1999	466,780	75,880,000
	1998	491,104	68,852,000
	1997	515,920	101,655,000
Fruit and Nut Crops	1999	177,210	400,349,000
	1998	171,655	401,128,000
	1997	172,694	567,973,000
Livestock and Poultry	1999		71,715,000
	1998		40,321,000
	1997		28,915,000
Livestock and Poultry Products	1999		100,403,000
	1998		93,572,000
	1997		66,255,000
Nursery	1999	1135	30,200,000
	1998	671	14,128,000
	1997	390	4,541,000
Timber Products	1999		2,462,000
	1998		2,413,000
	1997		1,225,000
Vegetable Crops	1999	4,300	16,222,000
	1998	4,816	10,600,000
	1997	5,151	12,746,000
TOTAL	1999		\$702,383,000
	1998		636,720,000
	1997		788,503,000





THE CHANGING FACE OF MADERA COUNTY AGRICULTURE

	Almonds	Cotton	Grapes	Potatoes	Wheat
1999	46,200 Acres \$80,912,000	26,540 Acres \$23,861,000	92,230 Acres \$228,567,000	* *	17,000 Acres \$4,431,000
1989	34,323 Acres \$49,837,000	42,500 Acres \$35,214,000	81,439 Acres \$145,584,000	* *	18,000 Acres \$6,160,000
1979	19,473 Acres \$35,616,000	79,750 Acres \$37,310,000	57,920 Acres \$107,988,000	* *	25,000 Acres \$6,720,000
1969	3,697 Acres \$1,392,000	43,100 Acres \$7,150,000	34,792 Acres \$21,102,000	2,000 Acres \$1,138,000	5,000 Acres \$300,000
1959	469 Acres \$255,840	49,384 Acres \$15,478,670	20,220 Acres \$8,918,647	2,107 Acres \$1,251,874	10,874 Acres \$185,280
1949	310 Acres \$76,400	74,041 Acres \$11,126,290	18,106 Acres \$3,666,600	2,295 Acres \$906,615	12,440 Acres \$240,715
1939	338 Acres \$43,920	44,900 Acres \$2,586,000	17,188 Acres \$1,285,240	949 Acres \$142,360	22,694 Acres \$265,510
1929	295 Acres \$16,800	26,000 Acres \$1,850,000	20,060 Acres \$1,900,000	125 Acres \$34,000	52,490 Acres \$724,800

* potatoes last reported in 1971 (1,100 acres; \$521,000)



MADERA COUNTY
DEPARTMENT OF AGRICULTURE
332 Madera Avenue
Madera, California 93637

