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This year's Livestock and Agricultural Crop Report has been upgraded and reformatted to be an easier-to-read publication. Some changes include: the separation of wine grapes from fruit and vegetable totals, inclusion of calf and lamb numbers in number of head totals, use of state formulas for calculating total number of livestock head, and improvements in design, editing, and composition.

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April 1, 2000

William J. Lyons, Jr., Secretary  
California Department of Food and Agriculture  
And  
Marin County Board of Supervisors  
Steve Kinsey, President, District 4

John Kress,	District 1	Annette Rose,	District 3
Harold C. Brown,	District 2	Cynthia Murray,	District 5

In accordance with the provisions of Section 2279 of the California Food and Agricultural Code, I am pleased to submit the Annual Crop Report for 1999. This report is a summary of counts, acreage, yields, and gross value of agricultural production in Marin County. The 1999 gross value of all production was \$53,541,559. The report represents gross returns to the producer and does not indicate actual net profit.

The weather played a significant role yet again in determining the overall value and the shifts in production for agriculture in Marin during 1999.

Milk is the long standing, premier crop for Marin, and this year accounts for over 63% of the crop report's total value. Milk had a 4% decrease in production from 1998, as production was affected by a 5% decrease in the number of dairy cows. However, milk saw a 13% or \$4.7 million decrease in value. The decrease in value is due to lower milk prices paid to the farmers. Milk prices received by farmers decreased 9% per hundred weight of market milk.

Livestock value increased by \$709,213 as prices received increased from last year's market prices. Production also increased. Poultry value went down 8%, however, production increased 2%.

Aquaculture experienced a 9% drop in value last year as it experienced production and harvest problems. Juvenile oyster mortality once again resulted in production losses.

The value of fruit and vegetable production, including wine grapes, went up by 12%, due to an increase of 20 production acres. Despite an overall county decline in nursery acreage, nursery crops saw better market prices, resulting in a 4% increase in value.

My appreciation goes to all of the individuals and organizations for their cooperation in providing the information for this report.

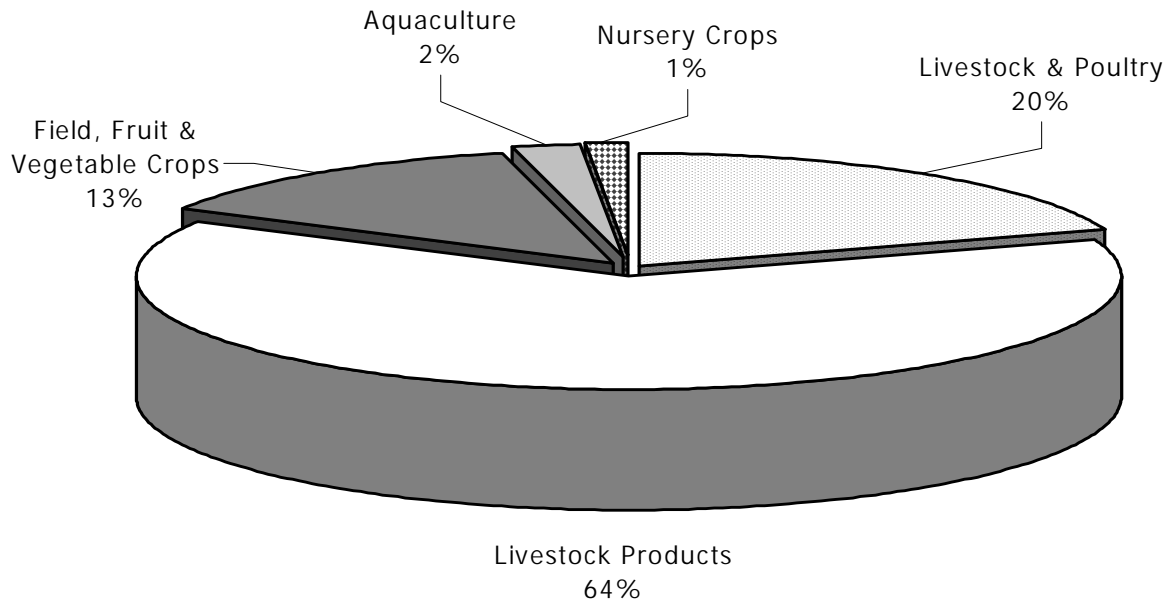
Respectfully submitted,

Stacy K. Carlsen  
Agricultural Commissioner

## Summary of Production

	<u>1999</u>	<u>1998</u>
Livestock Products	\$ 33,906,850	\$ 38,655,066
Livestock & Poultry	\$ 10,490,826	\$ 9,982,767
Field, Fruit & Vegetable Crops	\$ 7,170,412	\$ 6,948,674
Aquaculture	\$ 1,266,019	\$ 1,548,900
Nursery Crops	\$ 707,452	\$ 683,354
<b>TOTAL</b>	<b>\$ 53,541,559</b>	<b>\$ 57,818,761</b>

### 1999 Production Summary





## Livestock, Poultry and Aquaculture

Item	Year	No. of Head	Live Weight	Unit	Dollar Value	
					\$/Unit	Total
Cattle & Calves	<b>1999</b>	<b>20,514</b>	<b>123,571</b>	<b>cwt</b>	<b>\$ 60.39</b>	<b>\$ 7,462,255</b>
	1998	20,074	119,317	cwt	\$ 57.03	\$ 6,805,134
Sheep & Lambs	<b>1999</b>	<b>7,496</b>	<b>8,096</b>	<b>cwt</b>	<b>\$ 64.13</b>	<b>\$ 519,227</b>
	1998	6,701	7,237	cwt	\$ 64.54	\$ 467,135
Poultry & Eggs*	<b>1999</b>	<b>121,468</b>				<b>\$ 2,509,344</b>
	1998	119,662				\$ 2,710,498
Aquaculture	<b>1999</b>		<b>Oysters, Mussels, &amp; Clams</b>			<b>\$ 1,266,019</b>
	1998		Oysters, Mussels, & Clams			\$ 1,548,900
Total	<b>1999</b>					<b>\$ 11,756,845</b>
	**1998					\$ 11,531,667

\* parent stock hatching eggs

\*\* revised: all 1998 dollar values now include price of adult animals



## Livestock Products



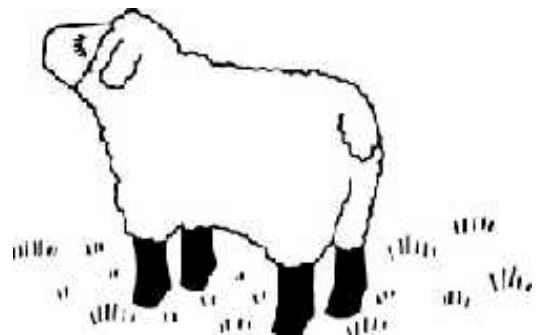
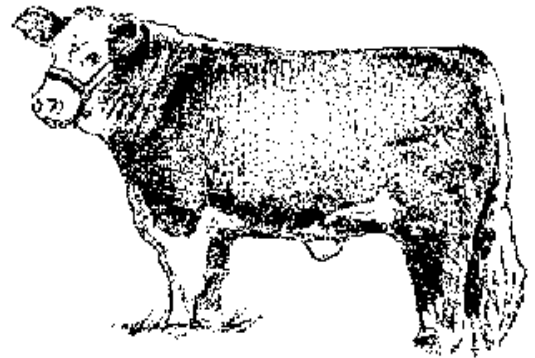
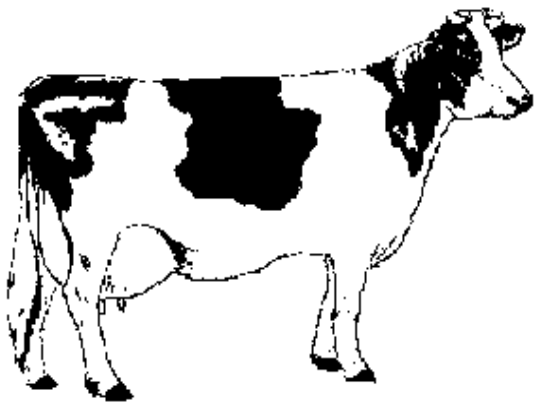
Item	Year	Production	Unit	Dollar Value	
				\$/Unit	Total
Milk (Market)	<b>1999</b>	<b>2,391,343</b>	<b>cwt</b>	<b>\$ 14.14</b>	<b>\$ 33,814,000</b>
	1998	2,477,310	cwt	\$ 15.54	\$ 38,500,000
Milk (Manufacturing)	<b>1999</b>	<b>4,945</b>	<b>cwt</b>	<b>\$ 13.05</b>	<b>\$ 65,000</b>
	1998	7,899	cwt	\$ 15.62	\$ 123,000
Wool	<b>1999</b>	<b>139,248</b>	<b>lbs</b>	<b>\$ 0.20</b>	<b>\$ 27,850</b>
	1998	71,258	lbs	\$ 0.45	\$ 32,066
Total	<b>1999</b>				<b>\$ 33,906,850</b>
	1998				\$ 38,655,066

## Inventories of Livestock and Poultry (Number of Head as of January 1, 2000)

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ITEM	NUMBER
Cattle and Calves, all	43,457
Milk cows and heifers 2 years and over	11,900
Beef cows and heifers 2 years and over	13,340
Sheep and Lambs, all	17,406
Poultry	121,468

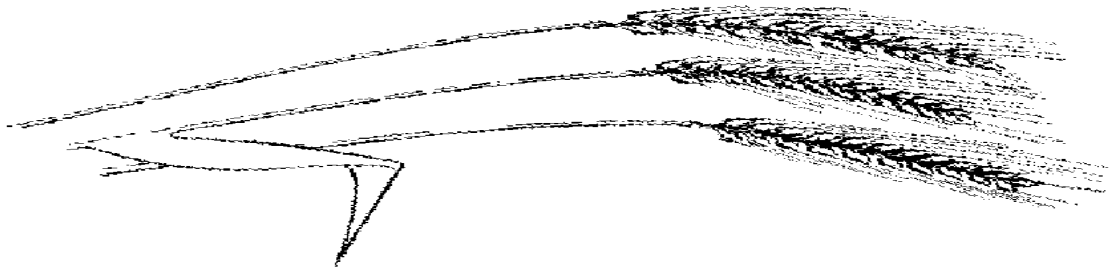
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## Field, Fruit and Vegetable Crops

Item	Year	Harvested Acreage	Ton/ Acre	Total Tons	Unit	Dollar Value	
						\$/Unit	Total
Hay, Grass	<b>1999</b>	<b>1,985</b>	<b>2.28</b>	<b>4,525</b>	<b>ton</b>	<b>\$ 48.75</b>	<b>\$ 220,593</b>
	1998	1,992	2.26	4,507	ton	\$ 54.81	\$ 247,028
Hay, Oat	<b>1999</b>	<b>1,534</b>	<b>1.62</b>	<b>2,485</b>	<b>ton</b>	<b>\$ 60.00</b>	<b>\$ 149,100</b>
	1998	1,400	1.35	1,885	ton	\$ 65.38	\$ 123,241
Silage	<b>1999</b>	<b>2,574</b>	<b>14</b>	<b>36,036</b>	<b>ton</b>	<b>\$ 29.00</b>	<b>\$ 1,045,044</b>
	1998	2,918	12	35,184	ton	\$ 27.71	\$ 975,035
Hay, Grain	<b>1999</b>	<b>160</b>	<b>.75</b>	<b>120</b>	<b>ton</b>	<b>\$ 220.00</b>	<b>\$ 26,400</b>
	1998	20	.75	15	ton	\$ 140.00	\$ 2,100
Pasture, Irrigated	<b>1999</b>	<b>810</b>				<b>\$ 100.00</b>	<b>\$ 81,000</b>
	1998	800				\$ 102.50	\$ 82,000
Pasture, Other	<b>1999</b>	<b>154,000</b>				<b>\$ 29.00</b>	<b>\$ 4,466,000</b>
	1998	154,000				\$ 29.00	\$ 4,466,000
Fruits & Vegetables	<b>1999</b>	<b>176</b>					<b>\$ 882,275</b>
	1998	247					\$ 1,053,270
Grapes, Wine*	<b>1999</b>	<b>91</b>		<b>154.5</b>	<b>ton</b>		<b>\$ 300,000</b>
	1998						(\$ value included in fruit and vegetable totals)
Total	<b>1999</b>						<b>\$ 7,170,412</b>
	1998						\$ 6,948,674

\* Varieties include: Chardonnay, Pinot Noir, Merlot, Cabernet Sauvignon, and Cabernet Franc



# Nursery Products

Item	Year	Production Acres	Dollar Value Total
Nursery	1999	40.00	\$ 707,452
Stock, All	1998	46.00	\$ 683,354





# Marin County Department of Agriculture/Weights & Measures

## Departmental Mission Statement

Our mission is to serve the public's interest by ensuring equity in the market place, promoting and protecting agriculture, protecting environmental quality and health and welfare of Marin County's citizens.

Following is a description of the department's activities:

### Pest Prevention

Pest prevention encompasses several activities aimed to prevent the introduction and spread of pests in Marin County. Pest exclusion focuses on preventing the entry and establishment of exotic pests and limiting the intrastate movement of newly discovered pests. Marin County inspectors monitor all avenues of pest entry into the county. Pest detection is the systematic search for pests outside of a known infested area. The goal is to find infestations of harmful exotic pests before eradication becomes biologically or economically not feasible.

### Protection of the Environment

Over the years Marin County has developed a program of Pesticide Use Enforcement that includes all the facets that are needed to comply with Federal and State laws and to ensure proper, safe, and efficient use of pest control methods and pesticides essential for the production of food and fiber and for the protection of public health, safety and welfare, and the environment. This is accomplished by permitting and monitoring the use of pesticides, investigating pesticide incidents and complaints, continuous enforcement of pesticide use and records associated with that use, collecting and reviewing of pesticide use data, and educating and assisting users of pesticides.

### Integrated Pest Management

Integrated pest management (IPM) is a common-sense approach to pest management that uses a variety of methods to control pests. Pesticides may be part of an IPM program, however, considerable effort is also put towards preventing pest problems by controlling conditions which may attract and support pests. Marin County's IPM program is designed to ensure that County departments and everyone applying pesticides to property owned and/or managed by the County of Marin utilize IPM practices, eliminate or reduce pesticide applications to the maximum extent feasible and take all reasonable measures to ensure that long-term prevention or suppression of pest problems has minimal negative impact on human health, non-target organisms, and the environment. The goal of the County is to

reduce its countywide total yearly pesticide use by 75% by weight, as compared to the total pesticide use in 1997, no later than January 1, 2004.

The Marin County Agricultural Commissioner's Office is also in the process of creating an IPM program for schools. This program is being established to develop pest management systems for the purpose of reducing risk to human health and the environment for activities associated with pest control.

## **Product Quality**

Marin County inspectors are protecting consumers by inspecting agricultural products for compliance with laws and regulations, and ensuring that businesses are afforded a fair and equitable opportunity to market their products. Inspections are conducted at plant nurseries, Farmers Markets, and organic farms, as well as eggs being sold at wholesale and retail outlets.

## **Weights and Measures**

The Weights and Measures program protects the interests of the buyer and seller to ensure honesty and integrity of everyday business transactions when products are sold by weight, measure, count or time. This protection is accomplished through our continuous and systematic inspection of all equipment that weighs or measures a commodity that is sold. Weights and Measures inspectors test taximeters, scales in stores, gasoline pumps, fabric and cordage meters, electric meters, water meters, livestock and animal scales, vehicle scales, scanner systems for pricing accuracy, and packaged products for stated net contents. Every transaction involving the exchange of goods, property, and service is affected in a very vital way by some form of weights and measures.



# Summary of the Sustainable Agricultural Activities

Sustainability is a method of using resources in ways that meet our own needs without compromising the ability of future generations to meet their own needs. The three “Es” of sustainability are the Environment, social Equity, and the Economy.

## Biological Control

Biological pest control is the use of natural enemies to help suppress pest populations to acceptable levels. Once the agent becomes established, control is self-perpetuating, potentially reducing the need to use pesticides.

### Pest

Gorse  
 Bull Thistle  
 Yellow Star Thistle  
 Scotch Broom  
 Ash White Fly  
 Italian Thistle  
 Puncture Vine  
 Purple Star Thistle  
 Klamath Weed  
 Canada Thistle  
 Plumeless Thistle

### Biological Agent/Mechanism

Gorse Mite, Seed Weevil  
 Bull Thistle Gall Fly  
 Seed Head Weevil, Gall Fly, Hairy Weevil, Peacock Fly  
 Seed Weevil, Stem Boring Moth  
 Parasitic Wasp  
 Seed Weevil  
 Seed Weevil  
 Seed Weevil  
 Beetle  
 Mechanical and chemical removal  
 Mechanical and chemical removal



## Organic Food Production

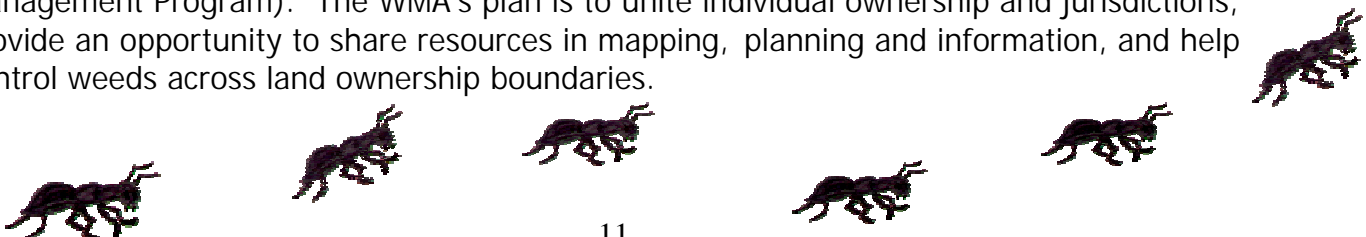
Organic farming emphasizes a greater cooperation with nature without reliance on synthetic chemical inputs. All organic producers register in their principal county of operation.

Organic commodities produced in Marin County include: apples, beans, berries, broccoli, cabbage, carrots, chard, cucumbers, cut flowers, dairy products, garlic, herbs, leaf lettuce, milk, mixed salad greens, olives, onions, pears, potatoes, pumpkins, silage, spinach, sprouts, squash, tomatoes, turnips, vegetable starts, and watercress.

There are 26 registered organic producers in Marin County farming 396 acres, producing a total gross value of 3.4 million dollars.

## Weed Management

A Weed Management Area (WMA) Committee was formed for Marin and Southern Sonoma Watersheds when the California State Legislature passed AB1168 (Noxious Weeds Management Program). The WMA’s plan is to unite individual ownership and jurisdictions, provide an opportunity to share resources in mapping, planning and information, and help control weeds across land ownership boundaries.



## Pest Exclusion

In 1999, Marin County personnel conducted 4,970 incoming plant quarantine inspections. Plant shipments were monitored at Federal Express, UPS, nurseries, ethnic markets, aquatic supply stores, and marble/tile/slate stores (inspection of foreign wooden crates and pallets for wood boring insects). In addition, 46 gypsy moth inspections of household goods from eastern states were conducted.

449 rejections of plant material were made. Rejected plant material was either destroyed or reconditioned and released. The number of rejections increased significantly from 1998 due to the Balsam Fir Gall Midge complex and the new high risk inspection program.

A total of 83 pests were intercepted. Of those, 27 were "A" or "Q" rated, and 35 were "B" rated, and 21 were "C" or "D" rated. The following is a list of the significant pest interceptions:

Scientific Name	Common Name	Rating
Anoplolepis longipes	A Long Legged Ant	Q
Bupleurum lancifolium	Thoroughwax	Q
Chrysodeixis eriosoma	Green Garden Looper	A
Dasineura balsamicola	Balsam Fir Gall Midge Complex	B
Elytrigia repens	Quackgrass	B
Entyloma oryzae	Rice Smut	A
Fulgoridae species	A Plant Hopper	Q
Malacosoma species	A Tent Caterpillar	Q
Pheidole megacephala	Big Headed Ant	Q
Rhyparochromus saturnius	A leggard Bug	Q
Salvinia auriculata complex	Giant Salvinia	Q
Siphauta acuta	Torpedo bug eggs	B
Solenopsis species	An Ant	Q
Technomyrmex albipes	White Footed Ant	Q

Q – rating: Serious – Quarantine Action

A – rating: Serious – State Action

B – rating: Serious – County Action

## Pest Detection

1,100 traps were serviced for exotic insect pests (including Mediterranean and Oriental Fruit Flies, Olive Fruit Fly, Khapra Beetle, Gypsy Moth, and Japanese Beetle). Of the 1,100 traps, 222 CHAMP traps were in service in April and May for the Medfly find on July 14, 1998.



# Farmers Markets of Marin County

The purpose of Farmers Markets are to allow local producers to sell their certified commodities direct to the public. Currently, there are 28 certified producers that have been issued certificates in Marin County. The following 9 Farmers Markets have been certified by the Agricultural Commissioner to market local produce in Marin County.

## **Civic Center Farmers Market**

Civic Center, San Rafael  
Thursdays – 8:00 am – 1:00 pm  
Sundays – 8:00 am – 1:00 pm  
Open All Year

## **Downtown San Rafael Farmers Mrk**

Fourth St., San Rafael  
Thursdays – 6:00 pm – 9:00 pm  
May – September

## **Old Town Novato Farmers Market**

Down Town, Novato  
Tuesdays – 4:00 pm – 8:00 pm  
May - December

## **West Marin Farmers Market**

11250 HWY 1, Pt. Reyes Station  
Saturdays – 9:00 am – 1:00 pm  
June - October

## **Sausalito Farmers Market**

Bridgeway - Dunphy Park, Sausalito  
Saturdays – 9:00 am – 1:30 pm  
June - December

## **Canal Mercado Farmers Market**

Alto St., San Rafael  
Tuesdays – 6:00 pm – 9:00 pm  
July - September

## **Fairfax Farmers Market**

Sir Francis Drake - Parking Lot  
Opposite Perry's Deli  
Wednesdays – 4:00 pm – 8:00 pm  
May – October

## **Corte Madera Farmers Market**

1554 Redwood HWY (The Village Mall)  
Wednesdays – 1:00 pm - 6:00 pm  
Open All Year

## **San Geronimo Farmers Market**

Valley Presbyterian Church  
Saturdays – 9:00 am – Noon  
May - October



## Department Staff

**Agricultural Commissioner/Director of Weights and Measures**

**Stacy K. Carlsen**



**Deputy Agricultural Commissioner/Deputy Director of Weights and Measures**

**Fred Crowder**



**Agricultural/Weights and Measures Inspectors**

**Charles Hsu  
Albert Powell  
Anita Sauber  
Amanda Stephens  
Laurel Thomassin**



**Senior Secretary**

**Joanne Van Cleave**



**Sr. Clerk/Typist**

**Linda Carlson**

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