

Marin County

**Livestock & Agricultural
Crop Report 2007**

MARIN COUNTY DEPARTMENT OF AGRICULTURE • WEIGHTS AND MEASURES



STACY K. CARLSEN
COMMISSIONER/DIRECTOR

FRED W. CROWDER
DEPUTY COMMISSIONER/DIRECTOR

May 2008

A. G. Kawamura, Secretary
California Department of Food and Agriculture

And

Marin County Board of Supervisors
Charles McGlashan, President, District 3

Susan L. Adams,	District 1	Steven Kinsey,	District 4
Harold C. Brown Jr.	District 2	Judy Arnold,	District 5

In accordance with the provisions of Section 2279 of the California Food and Agricultural Code, I am pleased to submit the Annual Livestock and Agricultural Crop Report for 2007. This report is a summary of counts, acreage, yields, and gross value of agricultural production in Marin County. The 2007 gross value of all production was \$67,132,841. This represents an increase of \$17,658,465 or 35.7% from the 2006 total agricultural production value. The report represents gross returns to the producer and does not indicate actual net profit.

Milk is the long standing, premier commodity for Marin (there are 29 dairies in Marin, which includes 2 goat dairies), and this year accounts for 58.0% of the crop report's total value. The average Market Milk prices for 2007 was 54.0% higher than 2006 contributing to an increase in overall milk value of \$11,877,621 (43.9%).

Livestock value increased by \$4,542,611, the 40.1% increase was a result of new poultry operations and existing poultry operations increasing production. Prices received for sheep and beef cattle increased. Total value for beef was relatively unchanged as yields were lower due to reduced headcounts. The value of wool decreased by \$21,096, or 50.0%. The decreased value was a result of lower prices paid for ungraded wool.

Aquaculture experienced a marginal increase in value of 1.5%.

The value of field, fruit and vegetable production, excluding wine grapes, went up by \$917,677, a 12.5% increase in value. An increase in wine grape value was the cause for a gain of \$149,715. Total wine grape value was up 24.7%; even as tons yielded decreased 33.0% from the 2006 harvest (2006 tonnage was nearly double that of 2005). Nursery crops experienced an increased value of \$189,187 or 41.7%.

My appreciation goes to the many growers, individuals and organizations for their cooperation in providing the information necessary for this report. I would like to extend special thanks to the UC Cooperative Extension and members of my staff Jeffrey Stiles, Laurel Thomassin, Hugo Abaurre, Susan Ventura, and Fred Crowder.

Respectfully submitted,

A handwritten signature in cursive script that reads "Stacy K. Carlsen".

Stacy K. Carlsen
Agricultural Commissioner

Table of Contents

Marin Agriculture: Farming and Ranching in the Food Web	4
Summary of Production	5
Agricultural Production Gross Value – A Ten Year Summary	6
Livestock and Aquaculture	7
Livestock Products	7
Inventories of Livestock and Poultry	8
Field, Fruit and Vegetable Crops	9
Nursery Products	10
Department Program Overview	11
Summary of Sustainable Agriculture	
Marin Organic Certified Agriculture (MOCA)	13
Biological Control	13
Grass Fed Livestock & Livestock Protection Programs	14
Pest Prevention Programs	
Marin/Sonoma Weed Management Area	15
Pest Exclusion	15
Pest Detection	16
Glassy-Winged Sharpshooter	16
Sudden Oak Death (SOD)	16
Light Brown Apple Moth	17
Farmers Markets of Marin County	18
Department Staff	19

Cover photo: Sheep on Marin Pasture
Photo credits: Steve Quirt

This report is available at our web site:
www.co.marin.ca.us/depts/ag/main/index.cfm

Marin Agriculture: Farming and Ranching in the Food Web

Carbon, water, climate, biodiversity. If these words remind you of a newsreel highlight on global warming, drought, habitat loss, genetically engineered organisms - it is indicative of the times. The atmospheric effects of carbon-dioxide are a "calling in" of our accrued debt on a one hundred year petroleum spending spree. In response new economies are being created around "carbon credits" and industries are being developed that are focused on carbon sequestration – lemonade from lemons, but certainly necessary.

Our dependence on carbon based energy sources has not only brought sensitive environmental niches to a tipping point, but will eventually challenge our ability to produce food as we have in the past. Carbon, water, climate, and biodiversity woven together form the fabric of life, shaping not only organisms but ecosystems as well. Maintaining these elements in balance is a challenge familiar to agricultural producers, as pasture and food crops are the most susceptible to the vagaries of the weather; now agricultural producers must consider a changing climate as well.

Developing or maintaining biodiversity along with crop diversification is an environmentally responsible practice, the effects being enhanced soil fertility, increased organic matter, better management of pest and disease problem, and optimized production, but it may also be a necessity to allow continued food production under challenging circumstances.

By spinning "food webs", agricultural producers capture sunlight so it may be brought to the table. The more diverse and complementary the web components, the more productive, healthy, vigorous, and resilient the web and food production system will be. Ask a rancher about the pounds and quality of livestock they produce and they enter into a conversation about soil health, stocking densities, diverse pasture composition. Question a vineyard manager about erosion control and water quality and the conversation may jump from slope, to cover crops, to gophers, to enhancing bird of prey habitat. Thru crop diversification, companion planting, cover crops, fallowing, pollinator corridors, wildlife refuges, and other techniques, agricultural producers reduce pest pressure, improve soil fertility and yields.

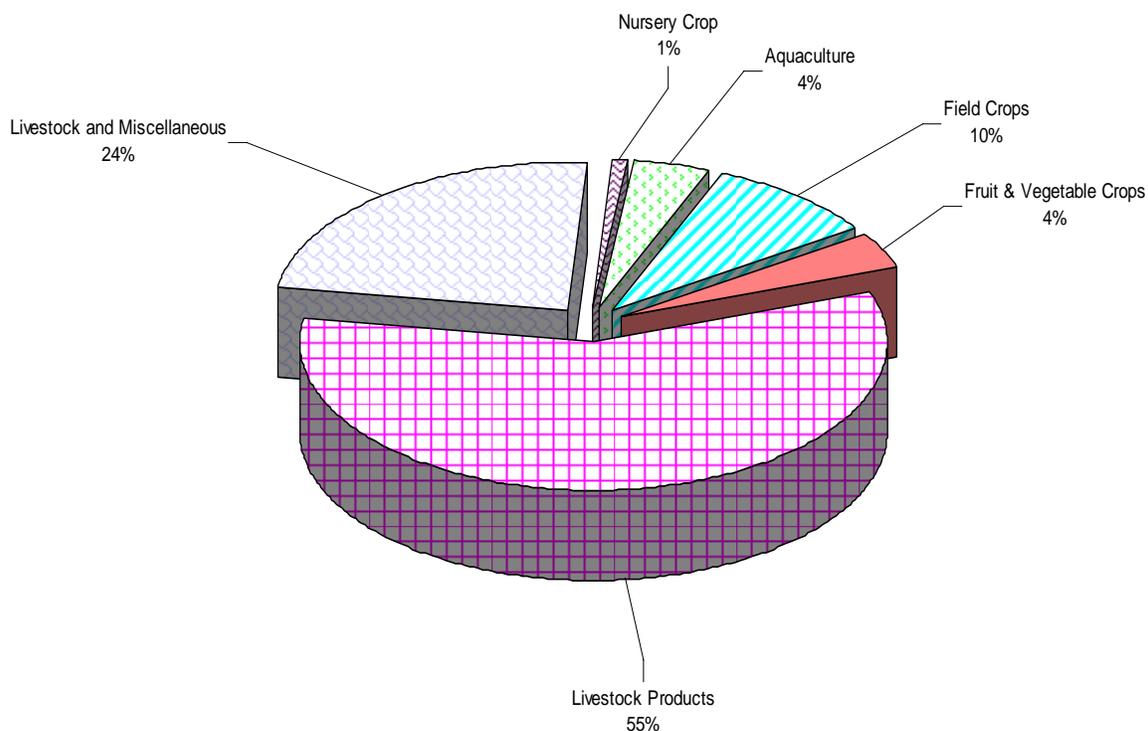
The farmers and ranchers in Marin understand these tools as well as anyone and use them to forge a living. Grazing programs for livestock have been shown to harvest carbon from the air and store it in the soil, so some ranchers are looking at how to manage their pastures to increase carbon capture and manage carbon credits. Concerns with livestock and methane production have resulted in some producers installing methane collectors. These Marin producers are not only feeding people but substantially reducing their carbon foot print and likely a good slice of the urban foot print as well.

By protecting and improving the 167,000 acres of Marin County agricultural land, Marin's agricultural producers are not only insuring the continuation of local agriculture, but improving the quality of the air, and water we all share.

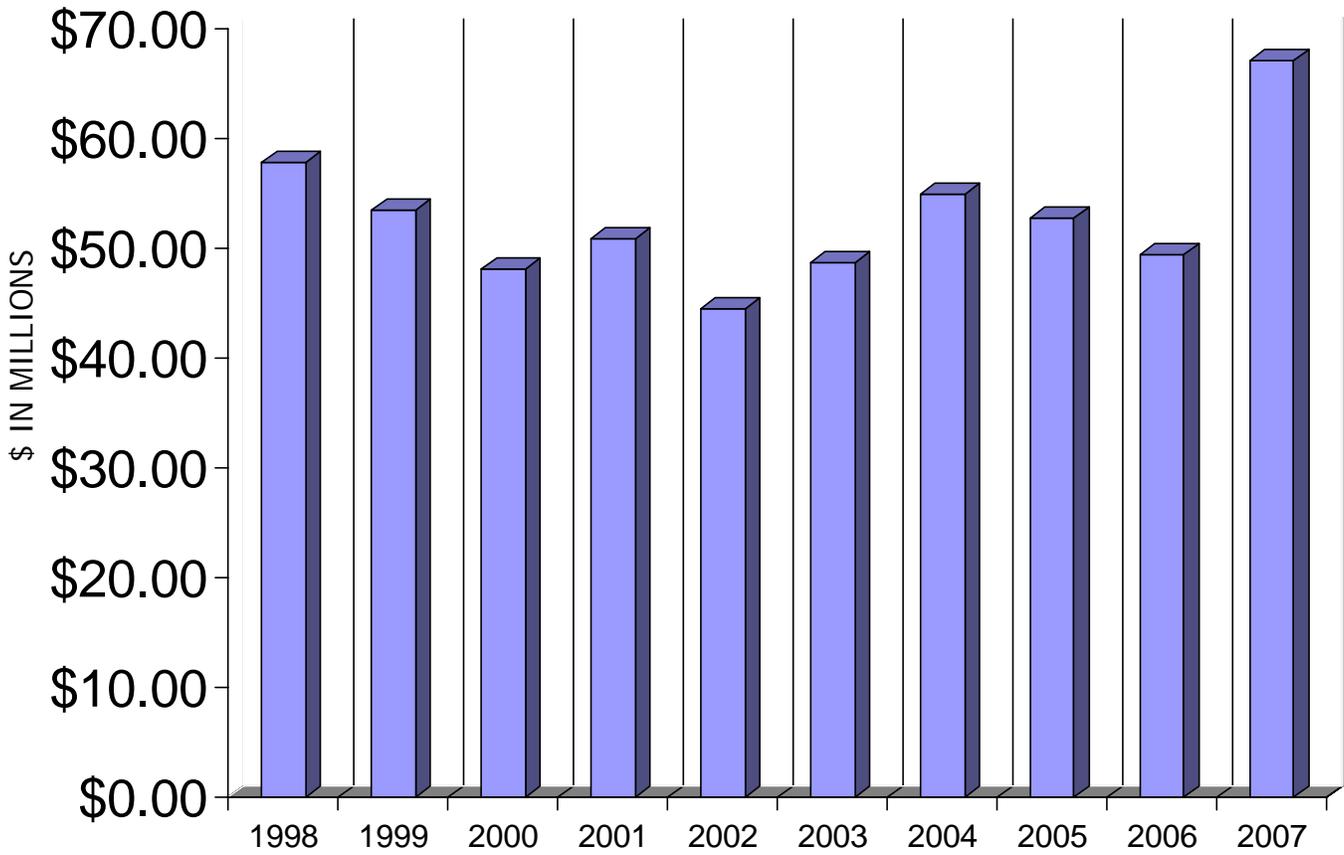
Summary of Production

	<u>2007</u>	<u>2006</u>
Livestock Products	\$ 38,956,052	\$ 27,125,530
Livestock & Misc.	\$ 15,869,989	\$ 11,327,378
Field Crops	\$ 6,465,039	\$ 5,787,648
Fruit & Vegetable Crops	\$ 2,565,989	\$ 2,185,988
Aquaculture	\$ 2,632,930	\$ 2,594,177
Nursery Crops	\$ 642,842	\$ 453,655
TOTAL	\$ 67,132,841	\$ 49,474,376

2007 Production Summary



Agricultural Production Gross Value A Ten Year Summary



Livestock and Aquaculture

Item	Year	No. of Head	Live Weight	Unit	Dollar Value	
					\$/Unit	Total
Cattle & Calves	2007	15,656	92,261	cwt	\$ 84.86	\$ 7,829,268
	2006	16,616	96,958	cwt	\$ 81.02	\$ 7,855,537
Sheep & Lambs	2007	14,087	15,032	cwt	\$ 76.40	\$ 1,148,461
	2006	13,702	14,798	cwt	\$ 71.82	\$ 1,062,897
Miscellaneous†	2007	3,439				\$ 132,379
	2006	1,096				\$ 84,675
Poultry*	2007	230,723				\$ 6,759,881
	2006	90,330				\$ 2,324,269
Aquaculture	2007		Oysters, Mussels, & Clams			\$ 2,632,930
	2006		Oysters, Mussels, & Clams			\$ 2,594,177
Total	2007					\$ 18,502,919
	2006					\$ 13,896,583

† Miscellaneous 2006 figures include goats, hogs, honey, and rabbits.
Miscellaneous 2007 figures include goats, hogs, and rabbits.

* Poultry 2006 figures include poultry fryers, chicken eggs for consumption, eggs for turkey breeding stock, and ballute.
Poultry 2007 figures include poultry fryers, chicken eggs for consumption, ballute, ducks, turkeys, and quail.

Livestock Products

Item	Year	Production	Unit	Dollar Value	
				\$/Unit	Total
Milk (Market)	2007	2,063,773	cwt	\$18.86	\$ 38,922,759
	2006	2,208,436	cwt	\$12.25	\$ 27,053,341
Milk (Manufacturing)	2007	727	cwt	\$16.51	\$ 12,203
	2006	2,560	cwt	\$11.72	\$ 30,003
Wool	2007	76,813	lbs	\$ 0.27	\$ 21,090
	2006	71,560	lbs	\$ 0.59	\$ 42,186
Total	2007				\$ 38,956,052
	2006				\$ 27,125,530

Inventories of Livestock and Poultry

ITEM	HEAD	NUMBER
All Cattle†		31,000*
Milk cows and heifers 2 years and over	10,300	
Beef cows and heifers 2 years and over	9,000	
Sheep and Lambs, all†	9,602	
Poultry	230,723	
Miscellaneous**		3,349

† Number of Head as of January 1, 2008.

* Includes cows, heifers, calves, and bulls.

** Miscellaneous 2007 figures include , goats, hogs, and rabbits.



Field, Fruit and Vegetable Crops

Item	Year	Harvested Acreage	Ton/ Acre	Total Tons	Unit	Dollar Value	
						\$/Unit	Total
Hay, Grass	2007	910	2.78	2,530	ton	\$ 108.70	\$ 275,011
	2006	912	2.55	2,326	ton	\$ 62.00	\$ 144,212
Hay, Oat†	2007	273	2.1	573	ton	\$ 110.30	\$ 64,472
	2006	155	1.7	196	ton	\$ 100.00	\$ 19,600
Silage	2007	1,642	13.0	21,346	ton	\$ 38.60	\$ 823,956
	2006	1,705	13.5	23,018	ton	\$ 24.20	\$ 557,036
Pasture, Irrigated	2007	810				\$ 100.00	\$ 81,000
	2006	810				\$ 100.00	\$ 81,000
Pasture, Other	2007	154,000				\$ 33.90	\$ 5,220,600
	2006	154,000				\$ 32.20	\$ 4,958,800
Fruits & Vegetables	2007	275					\$ 1,810,337
	2006	228					\$ 1,570,051
Grapes, Wine*	2007	192**		173.2	ton		\$ 755,652
	2006	171**		258.5	ton		\$ 605,937
Total	2007						\$ 9,031,028
	2006						\$ 7,963,636

† Acreage and Total Dollar Value Total include values for Oat Seed grown for the production of Oat Hay.

* Varieties: Cabernet Sauvignon, Chardonnay, Gewürztraminer, Merlot, Pinot Noir, Shiraz, and Riesling.

** Includes 47 acres of Non-fruit bearing plantings.



Nursery Products

Item	Year	Production Acres	Dollar Value Total
Nursery	2007	42	\$ 642,842
Stock, All	2006	42	\$ 453,655



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 the health and welfare of Marin County's residents.

Following is a description of the department's activities:

Pest Prevention

Pest prevention encompasses several activities aimed to prevent the introduction and spread of exotic 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 exotic pests outside of a known infested area. The goal is to find infestations of harmful exotic pests and eradicate them before it becomes biologically or economically unfeasible.

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 for the production of food and fiber and for the protection of public health, safety and welfare, and the environment. This is accomplished by a permit process 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, effort is focused 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 where ever possible and take 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 IPM Ordinance was to reduce countywide total yearly pesticide use by 75% by weight, as compared to the total pesticide use in 1997. Once again, the county has exceeded that goal with current estimates showing a greater than 80% pesticide use reduction. Currently, the County IPM Ordinance is being reviewed and updated so it reflects the county's current ongoing IPM program. Also, policy is being developed to provide clearer direction to departments for the implementation of the IPM ordinance.

Product Quality

Marin County inspectors are protecting consumers by inspecting agricultural products for compliance with laws, regulations, and standards and ensuring that businesses are afforded a fair and equitable opportunity to market their products. Inspections are conducted at horticultural nurseries, farmers markets, and organic farms, as well as locations selling wholesale and retail eggs.

Weights and Measures

The Weights and Measures program protects the interests of the consumer and market place to ensure honesty and integrity of routine transactions when products are sold by weight, measure, count or time. This is accomplished through continuous and systematic inspection of all equipment that is used to weigh or measure a commodity. 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 by volume, count, or weight is affected in a very vital way by some form of weights and measures.

Price Verification

The emergence and application of scanner/point-of-sale systems technology at retail check out stands has provided retailers substantial benefits concerning the tracking of sales and inventory; however, the remote location of the price database and its maintenance, has increased price discrepancies between an item's advertised price on the store shelf and what the consumer is charged when checking out at the register. It is unlawful to charge at the time of sale a price that is more than the price that is advertised or posted. Pursuant to California Business and Professions Code sections 12103.5, 12024.2, and 12024.6, the purpose of this Chapter is to ensure that the advertised or posted price of a commodity is the price charged for that commodity. Business and Professions Code Section 12024 mandates that county weights and measures departments perform price verification inspections to regulate pricing and price representation. Beginning in January 2007 Marin County Department of Agriculture/Weights and Measures began routinely inspecting the approximately 450 different locations that use the estimated 1425 scanner/point-of-sale devices in Marin County. Previously these inspections were only done as a result of a complaint.



Summary of the Sustainable Agricultural Activities

Sustainability is a method of balancing resource use in such a manner that it provides for current needs while ensuring such resources will be available to meet the needs of future generations.

Organic Food Production, Registration, and Certification

Organic production systems strive to achieve agro-ecosystems that are ecologically, socially, and economically sustainable. Organic farming emphasizes a greater cooperation with nature without reliance on synthetic inputs.

All California organic producers register in their principal county of operation. There are 52 registered organic producers in Marin County, farming 18,858 acres which includes 18,528 acres in pasture, producing a total gross value of \$5,502,196.

Organic crop production in Marin County include pasture, silage, milk, dairy products, hay, fruits, vegetables, cut flowers, eggs, herbs, livestock, vegetable starts, olive trees, and nursery stock. In 2007 the number of dairies producing certified organic milk in Marin County increased to 7 operations.

Marin Organic Certified Agriculture (MOCA)

The Marin County Agricultural Commissioner's Office is accredited by the USDA as an official organic certification agency. MOCA serves the local community who are promoting sustainable farming practices.

Locally and word wide consumer demand for certified organic products is increasing with an expectation by consumers that organic products are verifiable. MOCA was developed to provide a professional service to local individual and business operations engaged in the production and distribution of organically grown commodities. The main duty of MOCA is to uphold the standards of the USDA National Organic Program, and document operations practices of sustainable agricultural. One of the most important benefits of the MOCA program is a local service that promotes productions of organic value added products by Marin's family farms. In 2007 the number of MOCA certified operations in Marin and Sonoma Counties increased to 46 operators including 1 processor.

Biological Control

Biological pest control is the use of natural enemies to help suppress pest populations to economically and environmentally acceptable levels. Once the agent becomes established, control is self perpetuating, potentially reducing the need to use pesticides. The following are pests found in Marin and some of the methods being used to control them.

Pest

Gorse
Bull Thistle
Yellow Star Thistle

Scotch Broom
Ash White Fly
Italian Thistle
Purple Star Thistle
Klamath Weed
Eucalyptus Red Gum Lerp Psyllid

Biological Agent/Mechanism

Gorse Mite, Seed Weevil
Bull Thistle Gall Fly
Seed Head Weevil, Gall Fly, Hairy Weevil, Peacock Fly,
Rust – Puccinia jaceae var. solstitialis
Seed Weevil, Stem Boring Moth
Parasitic Wasp
Seed Weevil
Seed Weevil
Beetle
Parasitic Wasp

Grass Fed Livestock & Livestock Protection

We also developed and now manage a sustainable livestock protection program that provides cost sharing for non-lethal methods of predator control. This includes property improvements such as cross fencing; deterrents like electric fencing and management practices such as guard animals.

And lastly, there is the Marin County Agriculture Department Grass Fed Livestock Certification program whose purpose is to provide local grass fed livestock producers with a program which will provide the local livestock industry with the incentive to pursue innovative and sustainable animal agriculture principles, encourage sustainable agricultural and land management practices, increase marketing opportunities, and promote more natural animal management practices.



Pest Prevention Programs

Marin/Sonoma Weed Management Area

The Marin Sonoma Weed Management Area (MSWMA) is a cooperative effort of federal, state, county and city agencies, private industry and private landowners. Formed in 1999, our goals include improving the effectiveness of local weed management efforts, increasing public awareness of invasive weeds, and advancing responsible land stewardship practices. The MSWMA unites landowners and public agencies, provides an opportunity to share resources in mapping, planning information, and helps control weeds across land ownership boundaries. In 2007, the MSWMA achieved several noteworthy projects made possible by grants. With this funding, the MSWMA translated into Spanish the "Invasive Weeds of Marin & Sonoma Counties" brochure, and printed 10,000 copies in English and Spanish. In addition, four Invasive Weed Seminars were conducted, reaching out to the targeted audiences of ranchers, growers & property operators; the Spanish speaking community; those living on the interface of public owned lands; and public owned land stewards. Topics focused on invasive weed identification, conventional control methods, as well as new technologies for non-chemical controls. Anyone is welcome to come to the bimonthly meetings and everyone is welcome to help control weeds.

Pest Exclusion

In 2007, Marin County personnel conducted 6,989 incoming plant quarantine inspections. Plant shipments were monitored at Federal Express, UPS, DHL, nurseries, ethnic markets, aquatic supply stores, and post entry quarantine. 40 gypsy moth inspections of household goods from infested states were conducted, as well as 1,558 Glassy-Winged Sharp Shooter inspections on plant material from infested California counties.

80 rejections of plant material were made. Rejected plant material was either destroyed or reconditioned and released.

A total of 5 pests were intercepted. Of those, 1 was "Q" rated, 1 was "B" rated, 2 were "C" and 1 was "D" rated. In addition, as of May 20, 2008 313 Light Brown Apple Moths, "A" rated, were detected.

The following is a list of the significant pest interceptions:

Scientific Name	Common Name	Rating
Aonidiella aurantii	California Red Scale	B
Epiphyas postvittana	Light Brown Apple Moth	A
Gasteracantha sp.	Spider	D
Nipaecoccus nipae	Coconut Mealybug	C
Sphaerobulus sp.	Artillery Fungus	C
Technomyrex albipes	An Ant	Q

Q – rating: Quarantine Action

A – rating: State Action

B – rating: County Action

C – rating: County Action at Discretion of the Agricultural Commissioner

D – rating: No action

Pest Detection

1,949 traps were serviced for exotic insect pests (including Mediterranean and Oriental Fruit Flies, Mexican Fruit Fly, Olive Fruit Fly, Gypsy Moth, Japanese Beetle, Melon fly, Vine Mealy Bug, Asian Longhorn Beetle, Glassy-Winged Sharpshooter, and Light Brown Apple Moth(LBAM)). Of the 1,949 traps, 272 traps were placed for the Glassy-Winged sharpshooter in nurseries and vineyards, 249 Mediterranean Fruit Fly traps were placed in fruit trees, 231 Gypsy Moth traps were placed on hardwood trees, and 877 LBAM traps were placed throughout the county.

Glassy-Winged Sharpshooter

The Glassy-Winged Sharpshooter (GWSS) (*Homalodisca coagulata*) is a serious pest in California. This insect was first observed in California in 1990 and is now found throughout Southern California and portions of the San Joaquin Valley. It is a particular threat to vineyards due to its ability to spread *Xylella fastidiosa*, the bacterium that causes Pierce's disease. Pierce's disease kills grapevines and there are no effective treatments for it. The Glassy-Winged Sharpshooter also spreads other diseases to a variety of agricultural and ornamental plants, having the potential to substantially impact California's agriculture and environment if left unchecked.

To prevent the introduction of this leafhopper into Marin County, staff inspects all incoming nursery plant shipments from infested California counties. In 2007 a total of 1,558 shipments were inspected for GWSS. Detection traps placed throughout the county are also monitored.

Sudden Oak Death

The native woodlands and the urban/wild interface areas of Marin County continue to be infested with Sudden Oak Death, the disease caused by the pathogen *Phytophthora ramorum*; increased infestations have been detected in West Marin. Tree mortality in wildland and urban/wildland interface areas causes dramatic changes in the landscape, affecting ecosystems, increasing fire and safety hazards, and decreasing property values.

P. ramorum hosts include native woodland trees and understory plants, as well as ornamental nursery plants. Currently there are over 100 native and ornamental hosts; new hosts continue to be found and added to the state and federal quarantines.

On oaks, *P. ramorum* causes potentially lethal trunk cankers; on other hosts it causes a rarely lethal foliar or twig blight. Tanoaks may have both trunk cankers and foliar dieback. Foliar hosts such as California Bay Laurel, unlike oaks, are not a dead end for the pathogen. Instead these hosts are a vector, allowing inoculum to spread through natural or artificial means (rainwater, soil, infested nursery stock) under moist conditions.

The phosphonate product Agri-Fos[®] continues to be the only registered product for control of SOD on oaks. It works best as a preventative, stimulating the tree's natural defense system to fight the disease.

The California Oak Mortality Task Force (COMTF) was established in 2000 to research and understand SOD. More information, including diagnostic guides and management recommendations may be found at www.suddenoakdeath.org.

Light Brown Apple Moth

In early 2007, Light Brown Apple Moth (LBAM), *Epiphyas postvittana*, was confirmed in Alameda County, California. This represented the first time LBAM had been detected in the contiguous 48 states. Since then the moth infestation has spread to eleven Central Coast and Bay Area Counties including Marin (at time of print, May 2008, counties include Monterey, Santa Cruz, Santa Clara, San Mateo, Contra Costa, Marin, San Francisco, Alameda, Solano, Santa Barbara and Sonoma) . Isolated detections in Los Angeles and Napa counties have already been eradicated. A native of Australia, LBAM has also established itself in New Zealand, New Caledonia, the British Isles, and Hawaii.

If left to spread unchecked, the LBAM could adversely impact a large number of plants including native tree species, horticultural crops and over 250 fruit and vegetable crops. Potentially impacted crops include-but are not limited to-grapes, citrus, peaches, plums, cherries, apricots, pears, apples, avocados, kiwis, strawberries, nursery industry plants, and trees such as pine, cypress, and oak. Almost every ornamental plant in the average garden or yard is in danger of being harmed by LBAM.

A mature LBAM female can deposit 300 – 1,500 eggs before dying. Each generation lives approximately 6 – 7 weeks. The eggs of LBAM, laid on the upper leaf surface, are white to pale green, flat and oval, and are laid in mass with each egg slightly overlapping other eggs that resemble fish scales. The larvae may be found inside furled leaves. LBAM constructs leaf rolls (nests) by webbing leaves together, a bud and one or more leaves, leaves to a fruit, or by folding and webbing individual mature leaves. Fully grown, the larvae are about 0.2 to 0.4 inch long, light green in color with a light brown head. Pupae are red-brown in color, or may appear greenish when newly developed, and ½ inch long. Many leaf roller moths are gray, tan, or brown in color, as is LBAM. Female wingspan is up to 3/4 inch; color may include a darker brown spot on the wing. Males have a smaller wingspan of 1/4 - 3/8 inch, color may include a darker red-brown band across the folded wings. Male moth wings fold upward on the front edge of the front wings (hard to see – probably need magnification to spot).

These moths are not native to the United States and therefore have no known predators or parasites here to reduce populations naturally.

Other countries want to keep the pest out. Some foreign countries have enacted quarantines and restrictions on crops and plants grown in the eleven counties infested with LBAM. Other states within the United States could impose restrictions on plant, fruit, and vegetable movement, as LBAM is not established in the rest of the lower 48 states. Quarantines and added restrictions adversely impact the marketing of California agricultural and horticultural products.

At time of print of this publication, 313 male Light Brown Apple Moths had been captured in traps placed throughout Marin County. More information may be found at: www.cdfa.ca.gov/lbam



Farmers Markets of Marin County

The purpose of farmers markets is to allow local producers to sell their certified commodities direct to the public. There are 32 certified producers that have been issued certificates in Marin County. The following 9 Farmers Markets (Civic Center has two, Thursday and Sunday) have been certified by the Agricultural Commissioner to market local produce in Marin County.

Civic Center Farmers Markets

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

Fairfax Farmers Market

Bolinas Park, Downtown Fairfax
Wednesdays – 4:00 pm – 8:00 pm
May – September

Old Town Novato Farmers Market

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

Downtown San Rafael Farmers Mkt.

Fourth St., San Rafael
Thursdays – 5:00 pm – 8:00 pm
April - September

Sausalito Farmers Market

Sausalito Ferry Landing
Fridays – 4:00 pm – 8:00 pm
May – October

Corte Madera Farmers Market

Corte Madera Town Center
1554 Redwood HWY
Wednesdays – 12:00 pm - 5:00 pm
Open All Year

Pt. Reyes Farmers Market

Toby's Feed Barn
11250 Hwy 1, Pt. Reyes Station
Saturdays – 9:00 am – 1:00 pm
June - October

Larkspur Farmers Market

Larkspur Landing Circle
Saturdays – 10:00 am - 2:00 pm
May - October



Current Department Staff

**Agricultural Commissioner
Director of Weights and Measures**

Stacy K. Carlsen



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

Fred W. Crowder



**Supervising Agricultural/Weights and Measures
Inspector**

Laurel Thomassin



Agricultural/Weights and Measures Inspectors

**Hugo Abaurre
Johanna Good
Charles Hsu
Albert Powell
Anita Sauber
Jeffrey Stiles
Susan Ventura
Scott Wise**



Senior Agricultural Program Assistant

Eric Richardson



Senior Secretary

Joanne Van Cleave



Sr. Clerk/Typist

Diana Gano-Rosete

Intern

Paris Good-Swan