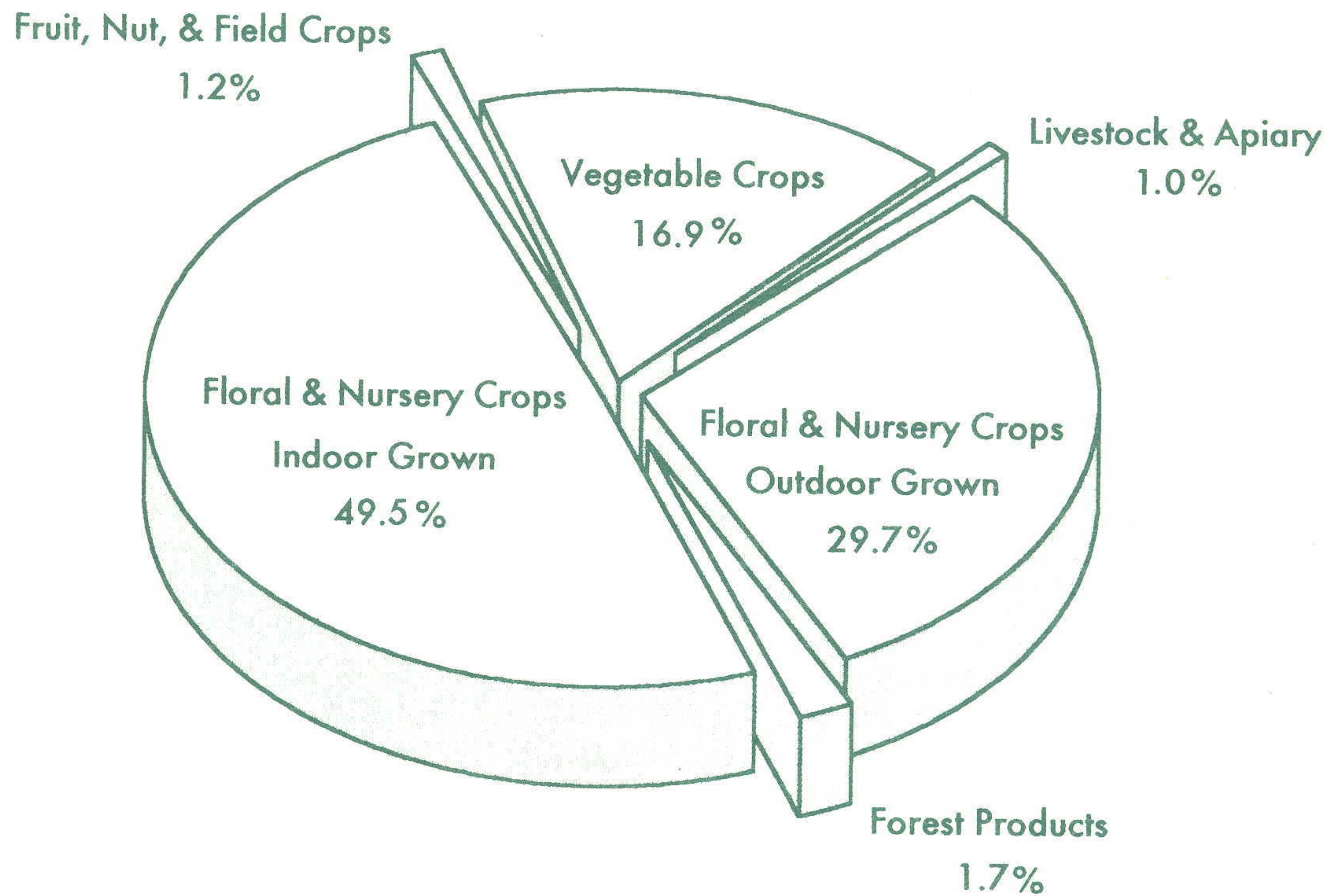


SAN MATEO COUNTY 1993 AGRICULTURAL CROP REPORT



SAN MATEO COUNTY 1993 CROP SUMMARY

TOTAL PRODUCTION VALUE \$207,806,000



On The Cover:

This year we have chosen to highlight the **Half Moon Bay Coastal Flower Market** with artwork from the Market's 1994 poster. 1994 marks the seventh year of operation for the Half Moon Bay Coastal Flower Market, which is held the third Saturday of each month, May through September, on Main Street in Half Moon Bay. Only locally grown flowers and plants are featured at the market, thereby providing local growers with a direct marketing outlet for their flowers and nursery products. San Mateo County ranked second in the state last year in floral and nursery crop production. Almost 90% of these crops are grown on the coastside.

SAN MATEO COUNTY
DEPARTMENT OF AGRICULTURE/WEIGHTS AND MEASURES



Henry J. Voss, Secretary
California Department of Food and Agriculture

and

San Mateo County Board of Supervisors

Mary Griffin, 1st District
Tom Huening, 2nd District
Ted Lempert, 3rd District
Ruben Barrales, 4th District
Michael D. Nevin, 5th District

I am pleased to submit the 1993 Agricultural Crop Report for San Mateo County in compliance with Section 2279 of the California Food and Agriculture Code. Also included is the Sustainable Agriculture Report in accordance with Section 2272 of the Code.

The production values in this report represent gross values and do not reflect the cost of production. The total gross value of San Mateo County agricultural production for 1993 was \$207,806,000. This represents a .6% decrease from 1992. This small decrease in production is largely due to the closure of three nurseries during 1993. One of the nurseries is already back in production for 1994 which will be reflected in the crop report for next year.

There were some changes in cropping patterns as land normally used for artichokes was planted in Brussels sprouts and other vegetables. In addition, acreage used previously for daisies is now being planted with other cut flower crops. Production overall was higher this year due to the availability of water.

The format of the crop report has been changed this year in order to itemize major crops previously included in miscellaneous categories. The expanded report now includes information on sustainable agriculture practices utilized by San Mateo County growers and nurserymen.

I wish to express my appreciation to all individuals, growers and agencies who contributed information for the preparation of this crop report. Special thanks goes to Kyra Kingore on my staff who helped compile the report.

Respectfully submitted,

Gail M. Raabe
Agricultural Commissioner/
Sealer of Weights and Measures

FLORAL AND NURSERY CROPS INDOOR GROWN

Item	Year	Square Feet	Production	Unit	VALUE	
					Per Unit	Total
Cut Flowers						
Alstroemeria	1993	520,000	580,000	Bunch	\$ 1.75	\$ 1,015,000
	1992	*				
Carnations	1993	470,000	9,140,000	Bloom	.18	1,645,000
	1992	780,000	14,430,000	Bloom	.18	2,597,000
Roses	1993	660,000	14,520,000	Bloom	.26	3,775,000
	1992	800,000	17,600,000	Bloom	.30	5,280,000
Snapdragons	1993	2,140,000	2,740,000	Bunch	3.00	8,220,000
	1992	*				
Miscellaneous ¹	1993	960,000				4,320,000
Cut Flowers	1992	3,310,000				13,740,000
Potted Plants						
Flowering						
Chrysanthemums	1993	1,400,000	2,440,000	Pot	3.50	8,540,000
	1992	1,800,000	3,150,000	Pot	3.60	11,340,000
Lilies ²	1993	620,000	880,000	Pot	3.95	3,476,000
	1992	660,000	1,100,000	Pot	3.65	4,015,000
Orchids	1993	450,000	540,000	Pot	14.95	8,073,000
	1992	490,000	588,000	Pot	14.50	8,526,000
Poinsettias	1993	750,000	1,050,000	Pot	4.70	4,935,000
	1992	810,000	1,250,000	Pot	4.80	6,000,000
Miscellaneous ³	1993	4,350,000				39,150,000
	1992	4,770,000				41,880,000
Foliage ⁴	1993	1,240,000				17,520,000
	1992	1,240,000				17,550,000
Subtotal	1993	13,560,000				\$100,669,000
	1992	14,660,000				110,928,000
Propagated						
Bedding Plants	1993	350,000				1,450,000
(Ivy, Impatiens, Marigolds, etc.)	1992	350,000				1,450,000
Cuttings and Liners	1993	320,000				660,000
(Ferns, Hydrangea, Ivy, etc.)	1992	330,000				680,000
TOTAL	1993	14,230,000				\$102,779,000
	1992	15,340,000				113,058,000

Total Glass and Plastic Areas 6,330,000 Square Feet

¹ Includes Chrysanthemum, Freesia, Gardenia, Lilies, Orchids, etc.

² Includes Calla Lilies, Easter Lilies, Hybrid Lilies, Oriental Lilies, etc.

³ Includes Azaleas, Cyclamen, Gardenias, Gerberas, Hydrangea, Primula, Roses, Tulips, etc.

⁴ Includes Dieffenbachia, Ficus, Ivy, Philodendron, Pothos, etc.

* Previously not itemized.

FLORAL AND NURSERY CROPS OUTDOOR GROWN

Item	Year	Acres	Production	Unit	VALUE	
					Per Unit	Total
Heather	1993	90	180,000	Bunch	\$2.20	\$ 396,000
	1992	110	160,000	Bunch	2.40	384,000
Iris	1993	95	1,045,000	Bunch	2.65	2,769,000
	1992	95	980,000	Bunch	2.85	2,793,000
Daisies	1993	320	2,880,000	Bunch	.65	1,872,000
	1992	360	3,060,000	Bunch	.60	1,836,000
Stock	1993	70	350,000	Bunch	2.00	700,000
	1992	*				
Gypsophila	1993	60	300,000	Bunch	2.00	600,000
	1992	*				
Larkspur	1993	35	210,000	Bunch	2.50	525,000
	1992	*				
Strawflowers ⁵	1993	105	840,000	Bunch	1.70	1,428,000
	1992	95	785,600	Bunch	1.75	1,375,000
Miscellaneous ⁶	1993	300				3,255,000
	Flower/Foliage	1992	435			4,785,000
Subtotal	1993	1,075				\$11,545,000
	1992	1,095				11,173,000
Ornamentals						
Herbaceous ⁷	1993	21				5,725,000
	Perennials	1992	21			5,420,000
Christmas Trees	1993	380				2,138,000
	1992	380				2,508,000
Nursery Stock ⁸	1993	218				42,520,000
	1992	183				36,750,000
TOTAL	1993	1,694				\$61,928,000
	1992	1,679				55,851,000

⁵ Includes Fresh and Dried.

⁶ Includes Calla Lily, Delphinium, Eucalyptus, Larkspur, Pittosporum, Statice, Yarrow, etc.

⁷ Includes Cinerarias, Fuchsias, Impatiens, Primrose, etc.

⁸ Includes Heather and Mini Christmas trees.

* Previously not itemized.

VEGETABLE CROPS

Crop	Year	Acres	PRODUCTION		Unit	VALUE	
			Per Acre	Total		Per Unit	Total
Artichokes ⁹	1993	740	5.20	3,848	Ton	\$ 850.00	\$ 3,271,000
	1992	960	4.40	4,224	Ton	875.00	3,696,000
Beans, Snap	1993	250	4.50	1,125	Ton	886.00	997,000
	1992	260	4.50	1,170	Ton	925.00	1,082,000
Brussels Sprouts ⁹	1993	840	7.60	6,384	Ton	490.00	3,128,000
	1992	680	7.40	5,032	Ton	460.00	2,315,000
Peas	1993	500	1.88	940	Ton	960.00	902,000
	1992	500	1.88	940	Ton	1,080.00	1,015,000
Pumpkins	1993	215	12.00	2,580	Ton	195.00	503,000
	1992	190	12.50	2,375	Ton	200.00	475,000
Miscellaneous Vegetables ¹⁰ Field and Indoor Grown	1993	280					26,490,000
	1992	250					25,750,000
TOTAL	1993	2,825					\$35,291,000
	1992	2,840					34,333,000

⁹ Includes Processed.

¹⁰ Includes Bean Sprouts, Cabbage, Corn, Leaf Lettuce, Mushrooms, Potatoes, Spinach, Swiss Chard, etc.

FIELD CROPS

Crop	Year	Acres	PRODUCTION		Unit	VALUE	
			Per Acre	Total		Per Unit	Total
Beans, Dry Edible ¹¹	1993	160	1.20	192	Ton	\$ 600.00	\$ 115,000
	1992	150	.96	144	Ton	613.00	88,000
Grain							
Barley	1993	300	1.20	360	Ton	105.00	38,000
	1992	300	1.20	360	Ton	105.00	38,000
Oats	1993	1,300	1.20	1,560	Ton	115.00	179,000
	1992	1,500	1.20	1,800	Ton	105.00	189,000
Hay							
Oats	1993	2,400	2.50	6,000	Ton	90.00	540,000
	1992	2,000	2.50	5,000	Ton	90.00	450,000
Volunteer	1993	300	1.80	540	Ton	72.00	39,000
	1992	300	1.50	450	Ton	72.00	32,000
Pasture							
Irrigated	1993	300				140.00	42,000
	1992	300				140.00	42,000
Other	1993	30,000				9.00	270,000
	1992	30,000				9.00	270,000
TOTAL	1993	34,760					\$ 1,223,000
	1992	34,550					1,109,000

¹¹ Includes Cranberry, Fava, etc.

FRUIT AND NUT CROPS

Item	Year	Acres	Total Value
Bushberries	1993	28	\$ 192,000
	1992	*	
Strawberries	1993	18	320,000
	1992	*	
Wine Grapes	1993	48	365,000
	1992	*	
Miscellaneous ¹²	1993	95	328,000
	1992	*	1,175,000
TOTAL	1993	189	\$1,205,000
	1992	*	1,175,000

¹² Includes Apples, Kiwi, Pears, Walnuts, etc.

* Previously not itemized.

LIVESTOCK

Item	Year	PRODUCTION		Unit	VALUE	
		Number Head	Total Liveweight		Per Unit	Total
Cattle and Calves	1993	3,600	25,000	CWT	\$70.00	\$1,750,000
	1992	3,500	24,500	CWT	68.00	1,666,000
Sheep and Lambs	1993	340	340	CWT	58.80	20,000
	1992	330	330	CWT	57.60	19,000
Hogs and Pigs	1993	200	500	CWT	48.00	24,000
	1992	200	500	CWT	48.00	24,000
TOTAL	1993					\$1,794,000
	1992					1,709,000

JANUARY 1 INVENTORY OF LIVESTOCK— 1993-1994

Item	January 1, 1993	January 1, 1994
Cattle and Calves	6,500	6,400
Sheep and Lambs	300	200
Hogs and Pigs	100	100

LIVESTOCK AND APIARY PRODUCTS

Item	Year	Production	Unit	VALUE	
				Per Unit	Total
Wool	1993	3,800	LB.	\$.65	\$ 2,500
	1992	4,000	LB.	.75	3,000
Honey	1993	36,000	LB.	.85	30,600
	1992	36,000	LB.	.85	30,600
Beeswax	1993	600	LB.	1.50	900
	1992	600	LB.	1.50	900
TOTAL	1993				\$34,000
	1992				34,500

FOREST PRODUCTS

TOTAL	1993	9,330,000 Board Feet	\$3,552,000
	1992	7,000,000 Board Feet	1,712,000

Department of Agriculture COASTSIDE RAIN STATIONS

	Half Moon Bay	Pescadero
1982/1983	50.95 inches	54.70 inches
1983/1984	25.87 inches	24.38 inches
1984/1985	27.39 inches	24.12 inches
1985/1986	33.76 inches	34.52 inches
1986/1987	19.58 inches	21.26 inches
1987/1988	14.34 inches	13.21 inches
1988/1989	13.79 inches	8.41 inches
1989/1990	11.87 inches	9.35 inches
1990/1991	13.43 inches	21.10 inches
1991/1992	25.31 inches	28.98 inches
1992/1993	33.17 inches	29.87 inches

RECAPITULATION

PRODUCTION VALUES

	1993	1992
FLOWER AND NURSERY CROPS.....	\$164,707,000	\$168,909,000
VEGETABLE CROPS.....	35,291,000	34,333,000
FIELD CROPS.....	1,223,000	1,109,000
FRUIT AND NUT CROPS.....	1,205,000	1,175,000
LIVESTOCK.....	1,794,000	1,709,000
LIVESTOCK AND DAIRY PRODUCTS.....	34,000	34,500
FOREST PRODUCTS.....	3,552,000	1,712,000
TOTAL.....	\$207,806,000	\$208,981,500

MILLION DOLLAR CROPS

	1993	1992
Ornamental Nursery Stock.....	\$48,245,000	\$42,170,000
Potted Foliage Plants.....	17,520,000	17,550,000
Chrysanthemum (potted).....	8,540,000	11,340,000
Snapdragons.....	8,220,000	—
Orchids (potted).....	8,073,000	8,526,000
Poinsettia (potted).....	4,935,000	6,000,000
Roses.....	3,775,000	5,280,000
Forest Products.....	3,552,000	1,712,000
Lilies (potted).....	3,476,000	4,015,000
Artichokes.....	3,271,000	3,696,000
Brussels Sprouts.....	3,128,000	2,315,000
Iris.....	2,769,000	2,793,000
Christmas Trees.....	2,138,000	2,508,000
Daisies.....	1,872,000	1,836,000
Cattle and Calves.....	1,750,000	1,666,000
Carnations.....	1,645,000	2,597,000
Bedding Plants.....	1,450,000	1,450,000
Strawflowers.....	1,428,000	1,375,000
Alstroemeria.....	1,015,000	—

SAN MATEO COUNTY

1993 SUSTAINABLE AGRICULTURE REPORT

Sustainable Agriculture is the implementation of agricultural programs and practices designed to promote the economic viability of agriculture, while minimizing the impact of agricultural practices on natural resources and the environment. This report includes information on San Mateo County's programs for the eradication, control or detection of pests, as well as the enforcement of quarantines to exclude such pests. Also included is information on biological control activities, integrated pest management, and organic farming activities employed by the agricultural industry.

— COUNTY PROGRAMS —

BIOLOGICAL CONTROL

Pest	Agent/Mechanism	Scope of Program
Ash White Fly	<u>Encarsia partenopea</u> , wasp <u>Clitostethus arcuatus</u> , beetle	Monitored established populations of the two bio-control agents.
Yellow Star Thistle	<u>Bangasternus orientalis</u> , weevil	2 release sites

PEST ERADICATION

Gorse, Ulex europaeus, was eradicated from one location. This is a "B" rated pest.

Skeletonweed, Chondrilla juncea, was treated at two locations. This is an "A" rated pest.

PEST DETECTION

Insect Trapping for Exotic Pests

3,807 insect traps were deployed for exotic pests, with 75,953 trap servicings during the year. This included traps for the following economically significant insects: Mediterranean Fruit Fly, Mexican and Oriental Fruit Fly, Melon Fly, Gypsy Moth, Japanese Beetle, Khapra Beetle, European Pine Shoot Moth and European Corn Borer.

Chrysanthemum White Rust Survey

Chrysanthemum White Rust, Puccinia horiana, is a "Q" rated pest. In response to localized infestations found in other Bay Area counties, 3,616 properties and 11 nurseries were surveyed for Chrysanthemum White Rust. White Rust has not been found in San Mateo County.

PEST EXCLUSION

Inspection of incoming shipments of plant products and other high risk articles to prevent the introduction of pests and diseases harmful to California's agricultural industry.

Type of Shipment	Number Inspected	Number Rejected
Mail	13,151	34
Truck	140,797	8
Air	32,299	51
Household Goods (Gypsy Moth)	445	1

Exotic Pests Intercepted

Pest	Rating	Pest	Rating
<u>Anopiolepis longipes</u> , ant	Q	<u>Pinnaspis buxi</u>	Q
Big Headed Ant	Q	Red Imported Fire Ant	A
Green Scale	Q	<u>Saphonia</u> sp., leafhopper	Q
Green Shield Scale	A	<u>Sinoxylon conigerum</u> , beetle	Q
Gypsy Moth	A	Spiraling Whitefly	Q
<u>Kilifia acuminatus</u> , scale	A	<u>Technomyrmex albipes</u> , ant	Q
Magnolia White Scale	A	<u>Tettigoniidae</u> sp., katydid	Q
Palm Mealybug	Q	<u>Veronicella</u> sp., slug	Q

*Pest rating designation of "A" or "Q" requires that quarantined plant products be destroyed, treated under departmental supervision, or shipped out of state.

— AGRICULTURAL INDUSTRY —

ALTERNATIVE PEST CONTROL METHODS

Pest	Agent/Mechanism	Crop
Aphid	Lace Wing Ladybird beetle	Greenhouse Ornamentals Tomatoes
Greenhouse Whitefly	<u>Encarsia</u> sp., parasitic wasp	Greenhouse Ornamentals
Fungus gnat	Predatory nematode <u>Bacillus thurengiensis</u> , bacteria	Greenhouse Ornamentals Greenhouse Ornamentals
Algae	Duck weed	Irrigation ponds
Weeds	Weed mats/ground cover cloth	Outdoor Ornamentals Strawberries

Other control measures include the use of insect traps to decrease pest populations. The traps are also used for monitoring the number of adult insects to more accurately determine the timing of treatments in integrated pest management (IPM) programs. Insect traps are used widely in the agricultural industry for the control of white fly, aphid, thrips and fungus gnats.

Additionally, research is currently being performed on the use of repressive fungi to control soil borne fungal diseases, and insect growth regulators to control fungus gnats.

ORGANIC FARMING

Number of Farms	Estimated Acres	Crops
9	111	Artichokes, beans, berries, corn, garlic, herbs, kale, leeks, lettuce, onion, spinach, squash, tomato and sprouts.

SAN MATEO COUNTY
Department of Agriculture/Weights & Measures
728 Heller Street
Redwood City, California 94064



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