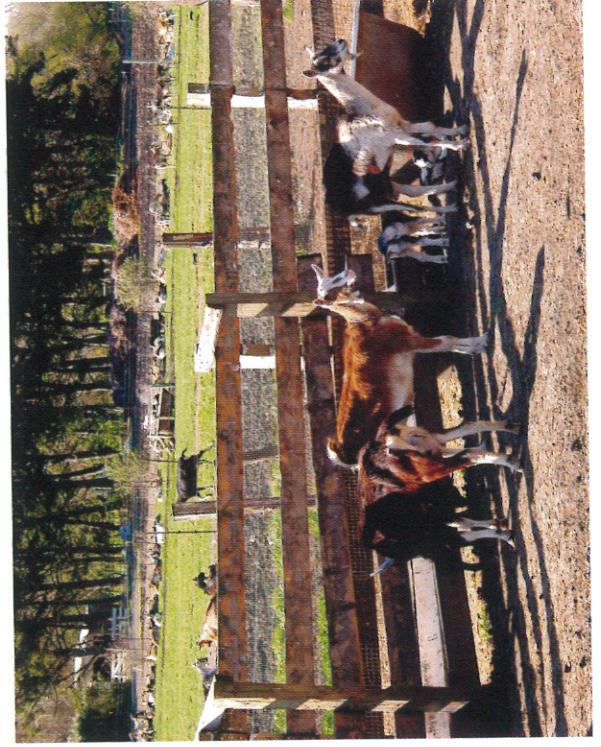


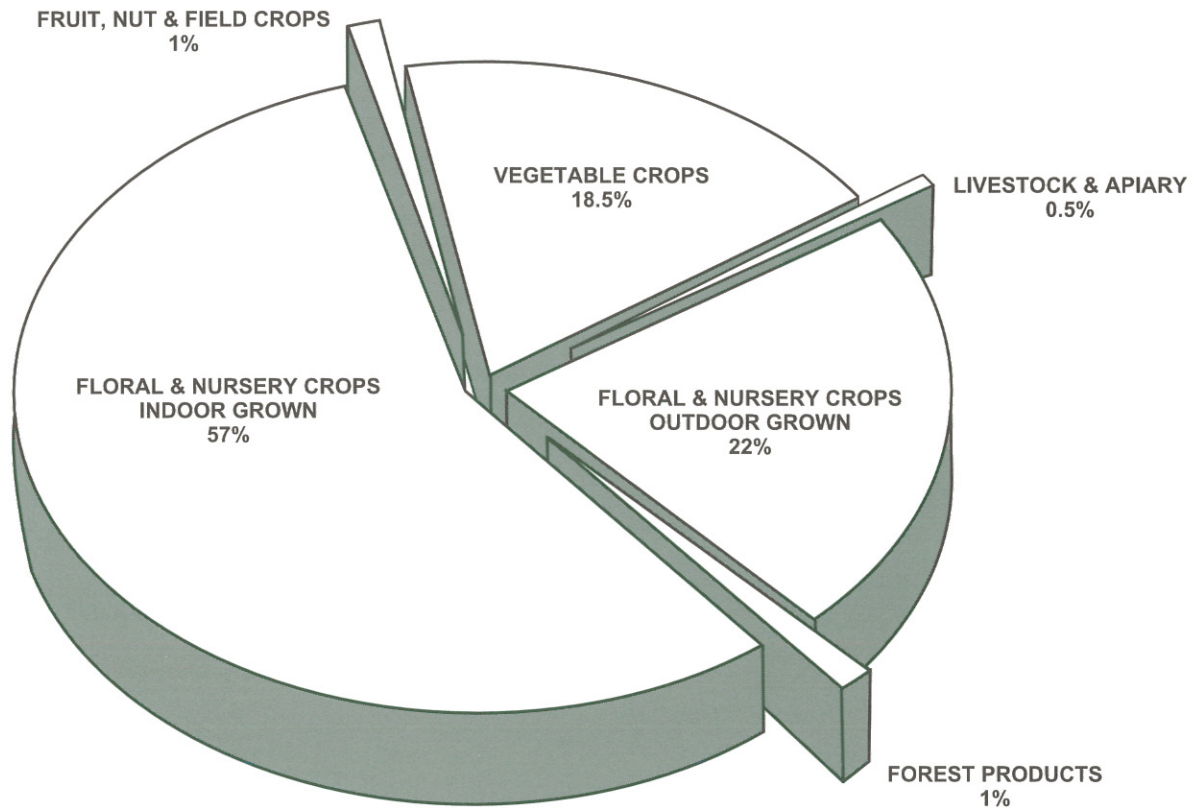
# SAN MATEO COUNTY

## 2002 AGRICULTURAL CROP REPORT



# SAN MATEO COUNTY 2002 CROP SUMMARY

TOTAL PRODUCTION VALUE \$183,148,000



## On the Cover:

Our 2002 Crop Report highlights the variety of agricultural commodities produced in San Mateo County. This year our annual Crop Report has 38 specific crop categories itemized, but there are many more crops not listed that contribute to the total annual production value. Over 250 varieties of cut flowers and potted plants, 100 different vegetables, various livestock, and livestock and apiary products are produced. San Mateo County has always been known for flowers, artichokes and Brussels sprouts, which thrive in our cool coastal climate, but the cover photographs show five crops/commodities not normally associated with our agricultural industry. From the upper left: *Leeks*, P. Marchi & Son; *Hybrid willow cuttings*, Austree, Inc.; *Dairy goats* (cheese), Harley Farms; and *Kiwi*, Coastways Ranch. On the back cover: *Lavender*, Jacobs Farms/Del Cabo.

Photographs by John Beall

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**SAN MATEO COUNTY  
DEPARTMENT OF AGRICULTURE / WEIGHTS AND MEASURES**



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

and

**San Mateo County Board of Supervisors**

Mark Church, 1st District  
Jerry Hill, 2nd District  
Richard S. Gordon, 3rd District  
Rose Jacobs Gibson, 4th District  
Michael D. Nevin, 5th District

I am pleased to submit the 2002 Agricultural Crop Report for San Mateo County in compliance with Section 2279 of the California Food and Agricultural Code. Also included is the Sustainable Agricultural 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 2002 was \$183,148,000. This represents a 3.4% increase over the total production value for 2001 (\$177,110,000). The total gross value does not reflect the real impact agricultural production has on the local economy. For every dollar of agricultural production, a multiplier of 3.5 may be applied. Using this factor, the estimated economic impact on San Mateo County for 2002 was \$641,018,000.

Although many Floral and Nursery crops were still impacted by the general economic downturn, the overall production value for this category increased 5% over last year. The value of Fruit and Nut crops increased 63%, primarily due to expanded acreage for wine grapes and higher production for bushberries. Vegetable crops in general were impacted by continuing competition from foreign imports and lack of water resources. These two factors were the major contributors to a 10% decline in harvested acreage for vegetables.

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 Ronald Pummer 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
<b>Cut Flowers</b>						
Alstroemeria _____	2002	507,000	515,000	Bunch	\$ 1.62	\$ 834,000
	2001	508,000	634,000	Bunch	1.75	1,110,000
Carnations _____	2002	234,000	2,224,000	Bloom	0.20	445,000
	2001	305,000	3,751,000	Bloom	0.23	863,000
Lilies _____	2002	272,000	319,000	Bunch	6.05	1,930,000
	2001	266,000	492,000	Bunch	6.25	3,075,000
Snapdragons _____	2002	1,161,000	1,574,000	Bunch	2.52	3,966,000
	2001	1,124,000	943,000	Bunch	2.63	2,480,000
Miscellaneous Cut Flowers <sup>1</sup> _____	2002	637,000				1,977,000
	2001	717,000				2,674,000
<b>Potted Plants</b>						
Flowering						
Chrysanthemums _____	2002	58,000	165,000	Pot	\$ 2.54	\$ 419,000
	2001	60,000	165,000	Pot	2.53	417,000
Lilies <sup>2</sup> _____	2002	772,000	1,836,000	Pot	4.42	8,115,000
	2001	773,000	1,797,000	Pot	3.85	6,918,000
Orchids _____	2002	456,000	593,000	Pot	12.96	7,685,000
	2001	470,000	1,040,000	Pot	9.03	9,391,000
Poinsettias _____	2002	540,000	949,000	Pot	4.45	4,223,000
	2001	600,000	939,000	Pot	4.31	4,047,000
Miscellaneous <sup>3</sup> _____	2002	5,813,000				50,537,000
	2001	5,728,000				49,236,000
Foliage <sup>4</sup> _____	2002	2,738,000				21,483,000
	2001	2,873,000				22,180,000
Subtotal _____	2002	13,188,000				\$101,614,000
	2001	13,424,000				102,391,000
<b>Propagated</b>						
Bedding Plants _____ (Ivy, Impatiens, Marigolds, etc.)	2002	348,000				\$ 1,379,000
	2001	314,000				1,189,000
Cuttings and Liners _____ (Ferns, Hydrangea, Ivy, etc.)	2002	120,000				1,342,000
	2001	164,000				562,000
<b>TOTAL</b> _____	2002	13,656,000				\$104,335,000
	2001	13,902,000				104,142,000
Total Glass and Plastic Area _____				5,697,000 Square Feet		

1 Includes Chrysanthemum, Freesia, Gardenia, Roses, 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.

# FLORAL AND NURSERY CROPS OUTDOOR GROWN

Item	Year	Acres	Production	Unit	VALUE	
					Per Unit	Total
Daisies	2002	69	721,000	Bunch	\$1.03	\$ 743,000
	2001	77	909,000	Bunch	1.04	945,000
Calla Lily	2002	39	171,000	Bunch	3.29	563,000
	2001	*	*	Bunch	*	*
Heather	2002	44	75,000	Bunch	2.27	170,000
	2001	52	91,000	Bunch	2.17	197,000
Iris	2002	21	307,000	Bunch	2.80	860,000
	2001	23	280,000	Bunch	2.81	787,000
Larkspur	2002	16	130,000	Bunch	2.54	330,000
	2001	22	258,000	Bunch	2.12	547,000
Stock	2002	63	151,000	Bunch	2.96	447,000
	2001	103	544,000	Bunch	2.13	1,159,000
Strawflowers <sup>1</sup>	2002	35	81,000	Bunch	1.51	122,000
	2001	35	90,000	Bunch	1.51	136,000
Sunflowers	2002	29	104,000	Bunch	2.20	229,000
	2001	34	109,000	Bunch	1.92	209,000
Miscellaneous	2002	283				3,724,000
Flower / Foliage <sup>2</sup>	2001	342				4,230,000
Subtotal	2002	618				\$ 7,188,000
	2001	709				8,210,000
<b>Ornamentals</b>						
Herbaceous	2002	15				\$ 2,324,000
Perennials <sup>3</sup>	2001	15				2,325,000
Christmas Trees	2002	155				374,000
	2001	189				380,000
Nursery Stock <sup>4</sup>	2002	208				29,814,000
	2001	167				21,557,000
<b>TOTAL</b>	2002	996				\$39,700,000
	2001	1,080				32,472,000

\* Previously included in Miscellaneous Flower / Foliage

<sup>1</sup> Includes Fresh and Dried

<sup>2</sup> Includes Dahlia, Delphinium, Eucalyptus, Gypsophila, Statice, Yarrow, etc.

<sup>3</sup> Includes Cinerarias, Fuchsias, Impatiens, Primrose, etc.

<sup>4</sup> Includes Heather, Mini Christmas trees, other trees and shrubs

## VEGETABLE CROPS

Crop	Year	Acres	PRODUCTION		Unit	VALUE	
			Per Acre	Total		Per Unit	Total
Artichokes <sup>1</sup> -----	2002	136	3.56	484	Ton	\$1,019.00	\$ 493,000
	2001	238	3.62	862	Ton	968.00	834,000
Beans, Snap -----	2002	195	2.92	569	Ton	1,093.00	622,000
	2001	130	2.48	322	Ton	1,222.00	393,000
Brussels Sprouts <sup>1</sup> -----	2002	611	10.12	6,183	Ton	580.00	3,586,000
	2001	741	9.32	6,906	Ton	527.00	3,639,000
Leeks -----	2002	155	9.37	1,452	Ton	593.00	861,000
	2001	147	9.94	1,461	Ton	650.00	950,000
Mushrooms -----	2002	17					23,006,000
	2001	17					23,269,000
Peas -----	2002	311	1.87	582	Ton	1,088.00	633,000
	2001	311	1.91	594	Ton	966.00	574,000
Pumpkins -----	2002	244	12.71	3,101	Ton	283.00	878,000
	2001	262	14.25	3,734	Ton	169.00	631,000
Miscellaneous Vegetables --- Field and Indoor Grown <sup>2</sup>	2002	609					4,091,000
	2001	658					4,274,000
<b>TOTAL</b> -----	2002	2,278					\$34,170,000
	2001	2,504					34,564,000

<sup>1</sup> Includes Processed

<sup>2</sup> Cabbage, Corn, Herbs, Leaf Lettuce, Potatoes, Spinach, Swiss Chard, etc.

## FIELD CROPS

Crop	Year	Acres	PRODUCTION		Unit	VALUE	
			Per Acre	Total		Per Unit	Total
Beans, Dry Edible <sup>1</sup> -----	2002	200	0.75	150	Ton	\$2,000.00	\$300,000
	2001	200	0.75	150	Ton	2,000.00	300,000
Grain							
Oats -----	2002	200	0.80	160	Ton	400.00	64,000
	2001	200	0.56	112	Ton	520.00	58,000
Hay							
Oats -----	2002	300	1.25	375	Ton	125.00	47,000
	2001	500	1.00	500	Ton	100.00	50,000
Volunteer -----	2002	300	2.00	600	Ton	91.00	55,000
	2001	300	1.50	450	Ton	80.00	36,000
Pasture							
Irrigated -----	2002	300				140.00	42,000
	2001	300				140.00	42,000
Other -----	2002	30,000				9.00	270,000
	2001	30,000				9.00	270,000
<b>TOTAL</b> -----	2002	31,300					\$778,000
	2001	31,500					756,000

<sup>1</sup> Includes Cranberry, Fava, etc.

## FRUIT AND NUT CROPS

Item	Year	Acres	Total Value
Bushberries	2002	29	\$ 348,000
	2001	30	172,000
Strawberries	2002	16	297,000
	2001	15	272,000
Wine Grapes	2002	64	389,000
	2001	44	159,000
Miscellaneous <sup>1</sup>	2002	15	97,000
	2001	17	89,000
<b>TOTAL</b>	2002	124	\$1,131,000
	2001	106	692,000

<sup>1</sup> Includes Apples, Kiwi, Pears, Walnuts, etc.

## LIVESTOCK

Item	Year	Number Head Sold	Total Value
Cattle and Calves	2002	2,620	\$1,065,000
	2001	2,370	987,000
Sheep and Lambs	2002	851	82,000
	2001	920	77,000
Hogs and Pigs	2002	1,437	226,000
	2001	1,480	228,000
Other <sup>1</sup>	2002	2,032	207,000
	2001	2,280	206,000
<b>TOTAL</b>	2002		\$1,580,000
	2001		1,498,000

<sup>1</sup> Includes Chickens, Goats, Turkeys

## LIVESTOCK AND APIARY PRODUCTS

Item	Year	Production	Unit	VALUE	
				Per Unit	Total
Honey	2002	50,000	LB.	\$1.60	\$ 80,000
	2001	30,000	LB.	1.60	48,000
Beeswax	2002	700	LB.	2.15	2,000
	2001	500	LB.	2.00	1,000
Other <sup>1</sup>	2002				196,000
	2001				195,000
<b>TOTAL</b>	2002				\$278,000
	2001				244,000

<sup>1</sup> Includes Goat Cheese, Eggs, Wool

# FOREST PRODUCTS

<b>TOTAL</b> .....	2002	2,878,000 Board Feet	\$1,176,000
	2001	4,151,000 Board Feet	2,742,000

## Department of Agriculture COASTSIDE RAIN STATIONS

	Half Moon Bay	Pescadero
1990 / 1991 .....	13.43 inches	21.10 inches
1991 / 1992 .....	25.31 inches	28.98 inches
1992 / 1993 .....	33.17 inches	29.87 inches
1993 / 1994 .....	17.93 inches	15.45 inches
1994 / 1995 .....	37.48 inches	31.00 inches
1995 / 1996 .....	30.69 inches	25.56 inches
1996 / 1997 .....	26.05 inches	19.31 inches
1997 / 1998 .....	50.69 inches	81.71 inches
1998 / 1999 .....	29.48 inches	22.63 inches
1999 / 2000 .....	31.54 inches	29.83 inches
2000 / 2001 .....	22.78 inches	20.13 inches
2001 / 2002 .....	*	22.06 inches

\*Data not available.

### 50 YEARS AGO...

#### Top Ten Agricultural Commodities in 1952

Item		TOTAL VALUE
1. Chrysanthemums (Field Grown) .....	200 Acres	\$1,727,409
2. Dairy Cattle .....	6,822 Head	1,364,174
3. Brussels Sprouts .....	1,606 Acres	1,156,320
4. Hogs .....	25,094 Head	1,154,612
5. Artichokes .....	1,844 Acres	983,744
6. Heather .....	415 Acres	747,000
7. Potted Plants (Glass House Grown) .....	471,662 Square Feet	660,327
8. Ducks .....	230,100 Birds	471,782
9. Gardenias (Glass House Grown) .....	393,095 Square Feet	432,405
10. Hay .....	9,627 Acres	418,774



# RECAPITULATION

## PRODUCTION VALUES

	2002	2001
FLORAL AND NURSERY CROPS .....	\$144,035,000	\$136,614,000
VEGETABLE CROPS .....	34,170,000	34,564,000
LIVESTOCK .....	1,580,000	1,498,000
FOREST PRODUCTS .....	1,176,000	2,742,000
FRUIT AND NUT CROPS .....	1,131,000	692,000
FIELD CROPS .....	778,000	756,000
LIVESTOCK AND APIARY PRODUCTS .....	278,000	244,000
<b>TOTAL .....</b>	<b>\$183,148,000</b>	<b>\$177,110,000</b>

## MILLION DOLLAR CROPS

	2002	2001
Ornamental Nursery Stock .....	\$29,814,000	\$21,557,000
Mushrooms .....	23,006,000	23,269,000
Potted Foliage Plants .....	21,483,000	22,180,000
Lilies (potted) .....	8,115,000	6,918,000
Orchids (potted) .....	7,685,000	9,391,000
Poinsettia (potted) .....	4,223,000	4,047,000
Snapdragons .....	3,966,000	2,480,000
Brussels Sprouts .....	3,586,000	3,639,000
Herbaceous Perennials .....	2,324,000	2,325,000
Lilies (cut) .....	1,930,000	3,075,000
Bedding Plants .....	1,379,000	1,189,000
Cuttings and Liners .....	1,342,000	562,000
Forest Products .....	1,176,000	2,742,000
Cattle and Calves .....	1,065,000	987,000

# SAN MATEO COUNTY 2002 SUSTAINABLE AGRICULTURE REPORT

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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 alternative pest control measures employed by the agricultural industry and organic farming.

## — COUNTY PROGRAMS —

### BIOLOGICAL CONTROL

Pest	Agent/Mechanism	Scope of Program
Yellow Star Thistle	<i>Bangasternus orientalis</i> , weevil <i>Eustenopus villosus</i> , weevil	Monitored established populations of these two bio-control agents at 13 sites.
	<i>Urophora sirunaseva</i> , gall fly	Monitored established populations at 5 sites.
Ash Whitefly	The release and natural disbursement of <i>Encarsia partenopea</i> and <i>Clitostethus arcuatus</i> since 1991 has been highly successful in keeping the Ash Whitefly under control. These bio-control agents have now become established and no further releases are planned.	

### PEST ERADICATION

Skeletonweed, *Chondrilla juncea*, was treated at four locations. This is an "A" rated pest. Pests with this designation are detrimental to agriculture and require complete eradication.

### PEST DETECTION

#### Insect Trapping for Exotic Pests

5,546 insect traps were depolyed for exotic pests, with 52,932 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, European Corn Borer and Glassy-winged Sharpshooter.

### 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. Shipments are rejected due to the presence of live pests, improper container markings, or lack of valid certification.

Type of Shipment	Number Inspected	Number Rejected
Parcel Carriers_____	23,324	855
Truck_____	2,123	96
Air_____	10,238	1,191
Sea Containers_____	9	0
Household Goods_____	63	0
Other_____	22	2

## EXOTIC PESTS INTERCEPTED\*

Pest	Rating	Number of Interceptions	Pest	Rating	Number of Interceptions
<i>Aspidiotus destructor</i> coconut scale	A	13	<i>Pseudococcus elisae</i> elisa mealybug	A	1
<i>Bactrocera cucurbitae</i> melon fly	A	1	<i>Solenopsis invicta</i> red imported fire ant	A	2
<i>Ceroplastes rubens</i> red wax scale	A	1	<b>Ants</b> (various species)	Q	436
<i>Chrysodeixis eriosoma</i> green garden looper	A	8	<b>Aphids</b> (various species)	Q	30
<i>Coccus viridis</i> green scale	A	8	<b>Beetles</b> (various species)	Q	24
<i>Cylas formicarius elegantulus</i> sweet potato weevil	A	2	<b>Bugs</b> (various species)	Q	88
<i>Diastrophus radicum</i> root gall wasp	A	7	<b>Flys</b> (various species)	Q	11
<i>Hemiberlesia palmae</i> tropical palm scale	A	3	<b>Katydid</b> (various species)	Q	27
<i>Howardia biclavis</i> mining scale	A	3	<b>Leafhoppers</b> (various species)	Q	185
<i>Ischnaspis longirostris</i> black thread scale	A	1	<b>Mealybugs</b> (various species)	Q	53
<i>Macronellicoccus hirsutus</i> pink hibiscus mealybug	A	1	<b>Moths</b> (various species)	Q	37
<i>Pinnaspis buxi</i> boxwood scale	A	82	<b>Scales</b> (various species)	Q	67
<i>Pinnaspis strachani</i> lesser snow scale	A	30	<b>Slugs</b> (various species)	Q	11
<i>Protaetia fusca</i> mango flower beetle	A	3	<b>Snails</b> (various species)	Q	13
<i>Pseudaulacaspis cockerelli</i> magnolia white scale	A	99	<b>Weeds</b> (various species)	Q	3
<i>Pseudaulacaspis pentagona</i> white peach scale	A	5	<b>Whiteflys</b> (various species)	Q	129
<i>Pseudococcus cryptus</i> mealybug	A	5	<b>Other</b>	Q	113

\* Pest rating 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 MEASURES

The following alternative pest control methods are being utilized on indoor ornamentals, outdoor ornamentals, vegetables and fruit.

<i>Bacillus thuringiensis</i> , bacteria	Predatory Mites	Refined Oils
Lacewings	Insect Monitoring, Pheromone Traps	Cover Crops
Ladybird Beetles	Botanicals	Crop Rotation
Parasitic Nematodes	Insect Growth Regulators	Steam Sterilization of Soils
Parasitic Wasps	Insecticidal Soaps	Weed Covers

### ORGANIC FARMING

#### Crops

<b>Number of Farms</b> 9	Apples, arugula, artichokes, asparagus, beans, berries, beets, broccoli, Brussels sprouts, cabbage, carrots, cauliflower, chard, collard greens, corn, cucumbers, edible flowers, eggs, eggplant, flowers (cut), garlic, gourds, hay (oats), herbs, horseradish, kale, leeks, lemons, lettuce, limes, onions, peas, peppers, potatoes, pumpkins, radish, spinach, strawberries, squash, tomatoes, turnips, vegetable transplants, watermelon.
<b>Estimated Acres</b> 168	

**SAN MATEO COUNTY**  
**Department of Agriculture**  
**Weights & Measures**

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