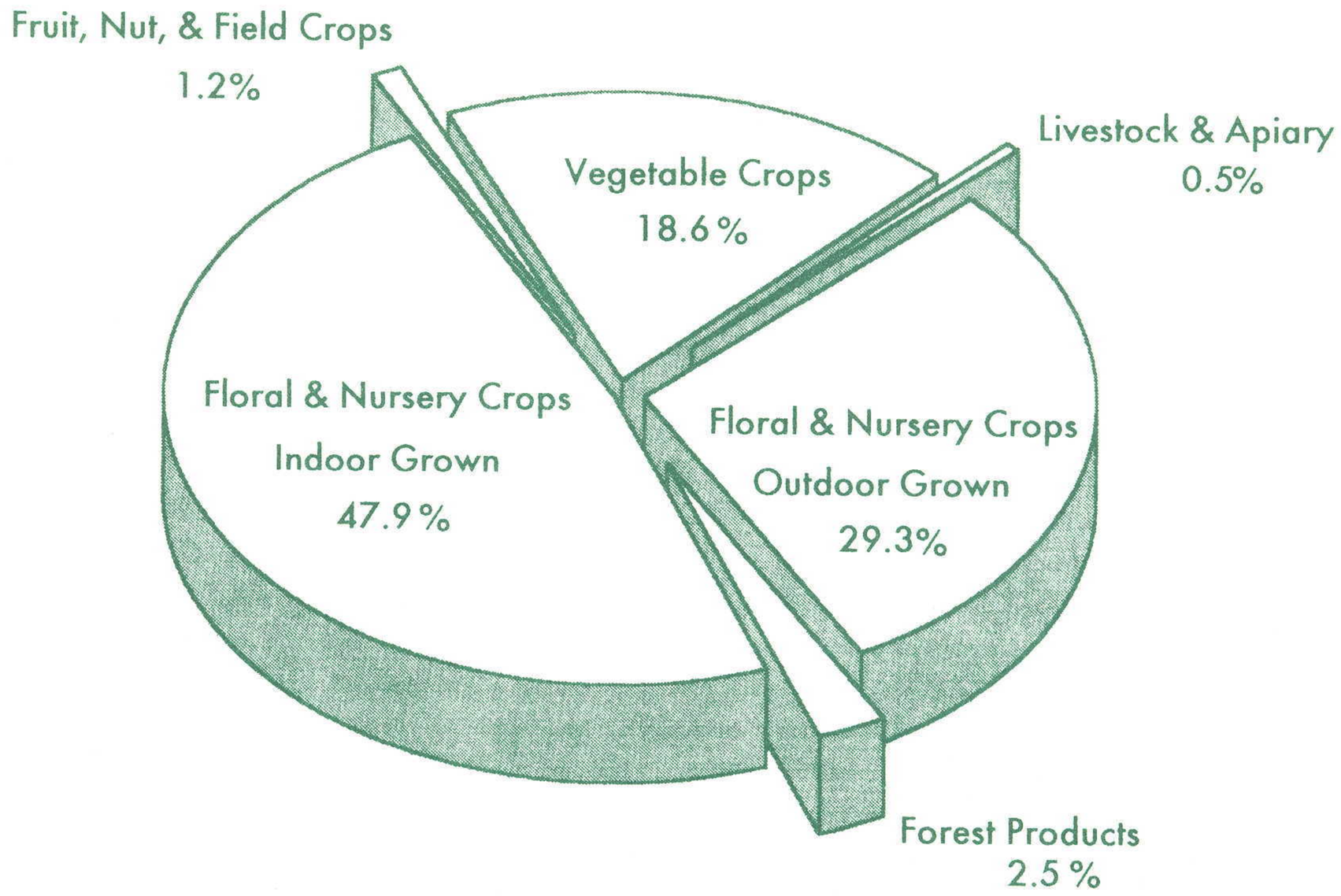
1994 AGRICULTURAL CROP REPORT

SAN MATEO COUNTY

SAN MATEO COUNTY 1994 CROP SUMMARY

TOTAL PRODUCTION VALUE $214,173,000



On The Cover:

This year we have chosen to highlight Brussels sprouts, San Mateo County's second leading vegetable crop. The 1994 gross production value for this crop totaled $2,844,000.00. Brussels sprouts are produced all along the central coast where soil and climate combine to create an ideal growing region. California is the nation's top-ranking producer of Brussels sprouts, and San Mateo County was the third largest producer statewide in 1993.

Our cover illustration also includes Pigeon Point Lighthouse, located south of Pescadero. This San Mateo County landmark became operational in 1872. The lighthouse stands 150 feet above sea level and has walls which are four feet thick at the base.

The cover illustration was created by Staff Biologist Richard Garcia.

SAN MATEO COUNTY DEPARTMENT OF AGRICULTURE/WEIGHTS & MEASURES
728 Heller Street • P.O. Box 999 • Redwood City, California 94064-0999
(415) 363-4700 • FAX 367-0130

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 1994 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 1994 was $214,173,000. This represents a 3% increase over the total production value for 1993, which is largely due to the expansion of several nurseries and an increase in the value of harvested timber and vegetable crops.

There were continuing changes in cropping patterns as land normally used for artichokes was planted in other vegetables. Additionally there was further conversion of acreage planted in daisies to other cut flower crops. Production for some crops was higher this year due to the availability of water.

An increasing number of growers have incorporated alternative pest control methods and the use of safer materials into their pest management programs. The number of organic farms in the County has increased to 11 operations. The variety of crops grown organically has also expanded and now includes 21 different kinds of fruits and 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

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	VALUE Total
Cut Flowers						
Alstroemeria	1994	516,000	584,000	Bunch	$ 1.75	$ 1,022,000
	1993	520,000	580,000	Bunch	1.75	1,015,000
Carnations	1994	582,000	11,060,000	Bloom	.20	2,212,000
	1993	470,000	9,140,000	Bloom	.18	1,645,000
Roses	1994	660,000	13,980,000	Bloom	.25	3,495,000
	1993	660,000	14,520,000	Bloom	.26	3,775,000
Snapdragons	1994	2,118,000	2,648,000	Bunch	3.00	7,944,000
	1993	2,140,000	2,740,000	Bunch	3.00	8,220,000
Miscellaneous[1]	1994	871,000				3,920,000
Cut Flowers	1993	960,000				4,320,000
Potted Plants						
Flowering						
Chrysanthemums	1994	1,050,000	1,838,000	Pot	3.50	6,433,000
	1993	1,400,000	2,440,000	Pot	3.50	8,540,000
Lilies[2]	1994	630,000	945,000	Pot	4.00	3,780,000
	1993	620,000	880,000	Pot	3.95	3,476,000
Orchids	1994	389,000	468,000	Pot	14.75	6,903,000
	1993	450,000	540,000	Pot	14.95	8,073,000
Poinsettias	1994	761,000	1,220,000	Pot	4.75	5,795,000
	1993	750,000	1,050,000	Pot	4.70	4,935,000
Miscellaneous[3]	1994	4,595,000				41,355,000
	1993	4,350,000				39,150,000
Foliage[4]	1994	1,240,000				17,530,000
	1993	1,240,000				17,520,000
Subtotal	1994	13,412,000				$100,389,000
	1993	13,560,000				100,669,000
Propagated						
Bedding Plants	1994	364,000				1,508,000
(Ivy, Impatiens, Marigolds, etc.)	1993	350,000				1,450,000
Cuttings and Liners	1994	393,000				675,000
(Ferns, Hydrangea, Ivy, etc.)	1993	320,000				660,000
TOTAL	1994	14,169,000				$102,572,000
	1993	14,230,000				102,779,000

Total Glass and Plastic Areas . . . . . 6,370,000 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.

FLORAL AND NURSERY CROPS OUTDOOR GROWN

Item	Year	Acres	Production	Unit	VALUE Per Unit	VALUE Total
Heather	1994	90	180,000	Bunch	$2.30	$ 414,000
	1993	90	180,000	Bunch	2.20	396,000
Iris	1994	95	1,140,000	Bunch	2.70	3,078,000
	1993	95	1,045,000	Bunch	2.65	2,769,000
Daisies	1994	300	2,700,000	Bunch	.60	1,620,000
	1993	320	2,880,000	Bunch	.65	1,872,000
Stock	1994	75	375,000	Bunch	2.00	750,000
	1993	70	350,000	Bunch	2.00	700,000
Gypsophila	1994	60	300,000	Bunch	2.00	600,000
	1993	60	300,000	Bunch	2.00	600,000
Larkspur	1994	40	240,000	Bunch	2.50	600,000
	1993	35	210,000	Bunch	2.50	525,000
Strawflowers[5]	1994	110	880,000	Bunch	1.70	1,496,000
	1993	105	840,000	Bunch	1.70	1,428,000
Miscellaneous[6]	1994	300				3,270,000
Flower/Foliage	1993	300				3,255,000
Subtotal	1994	1,070				$11,828,000
	1993	1,075				11,545,000
Ornamentals						
Herbaceous[7]	1994	21				5,835,000
Perennials	1993	21				5,725,000
Christmas Trees	1994	392				2,646,000
	1993	380				2,138,000
Nursery Stock[8]	1994	218				42,520,000
	1993	218				42,520,000
TOTAL	1994	1,701				$62,829,000
	1993	1,694				61,928,000

[5] Includes Fresh and Dried.
[6] Includes Calla Lily, Delphinium, Eucalyptus, Pittosporum, Statice, Yarrow, etc.
[7] Includes Cinerarias, Fuchsias, Impatiens, Primrose, etc.
[8] Includes Heather and Mini Christmas trees.

VEGETABLE CROPS

Crop	Year	Acres	PRODUCTION Per Acre	PRODUCTION Total	Unit	VALUE Per Unit	VALUE Total
Artichokes[9]	1994	650	5.20	3,380	Ton	$ 850.00	$ 2,873,000
	1993	740	5.20	3,848	Ton	850.00	3,271,000
Beans, Snap	1994	240	4.50	1,080	Ton	900.00	972,000
	1993	250	4.50	1,125	Ton	886.00	997,000
Brussels Sprouts[9]	1994	790	7.50	5,925	Ton	480.00	2,844,000
	1993	840	7.60	6,384	Ton	490.00	3,128,000
Peas	1994	500	1.90	950	Ton	980.00	931,000
	1993	500	1.88	940	Ton	960.00	902,000
Pumpkins	1994	310	12.00	3,720	Ton	200.00	744,000
	1993	215	12.00	2,580	Ton	195.00	503,000
Miscellaneous Vegetables[10]	1994	424					31,498,000
Field and Indoor Grown	1993	280					26,490,000
TOTAL	1994	2,914					$39,862,000
	1993	2,825					35,291,000

[9] Includes Processed.
[10] Includes Bean Sprouts, Cabbage, Corn, Leaf Lettuce, Mushrooms, Potatoes, Spinach, Swiss Chard, Leeks, etc.

FIELD CROPS

Crop	Year	Acres	PRODUCTION Per Acre	PRODUCTION Total	Unit	VALUE Per Unit	VALUE Total
Beans, Dry Edible[11]	1994	190	1.50	285	Ton	$ 600.00	$ 171,000
	1993	160	1.20	192	Ton	600.00	115,000
Grain							
Barley	1994	300	1.20	360	Ton	105.00	38,000
	1993	300	1.20	360	Ton	105.00	38,000
Oats	1994	1,000	1.20	1,200	Ton	115.00	138,000
	1993	1,300	1.20	1,560	Ton	115.00	179,000
Hay							
Oats	1994	2,400	2.50	6,000	Ton	90.00	540,000
	1993	2,400	2.50	6,000	Ton	90.00	540,000
Volunteer	1994	300	1.80	540	Ton	72.00	39,000
	1993	300	1.80	540	Ton	72.00	39,000
Pasture							
Irrigated	1994	300				140.00	42,000
	1993	300				140.00	42,000
Other	1994	30,000				9.00	270,000
	1993	30,000				9.00	270,000
TOTAL	1994	34,490					$ 1,238,000
	1993	34,760					1,223,000

[11] Includes Cranberry, Fava, etc.

FRUIT AND NUT CROPS

Item	Year	Acres	Total Value
Bushberries	1994	28	$ 195,000
	1993	28	192,000
Strawberries	1994	14	280,000
	1993	18	320,000
Wine Grapes	1994	54	411,000
	1993	48	365,000
Miscellaneous[12]	1994	95	328,000
	1993	95	328,000
TOTAL	1994	191	$1,214,000
	1993	189	1,205,000

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

LIVESTOCK

Item	Year	PRODUCTION Number Head	PRODUCTION Total Liveweight	Unit	VALUE Per Unit	VALUE Total
Cattle and Calves	1994	2,200	15,400	CWT	$70.00	$1,078,000
	1993	3,600	25,000	CWT	$70.00	1,750,000
Sheep and Lambs	1994	200	200	CWT	$60.00	12,000
	1993	340	340	CWT	58.80	20,000
Hogs and Pigs	1994	200	500	CWT	48.00	24,000
	1993	200	500	CWT	48.00	24,000
TOTAL	1994					$1,114,000
	1993					1,794,000

JANUARY 1 INVENTORY OF LIVESTOCK— 1994-1995

Item	January 1, 1994	January 1, 1995
Cattle and Calves	6,400	5,000
Sheep and Lambs	200	200
Hogs and Pigs	100	200

LIVESTOCK AND APIARY PRODUCTS

Item	Year	Production	Unit	VALUE Per Unit	VALUE Total
Wool	1994	4,000	LB.	$ .65	$ 2,600
	1993	3,800	LB.	.65	2,500
Honey	1994	36,000	LB.	.85	30,600
	1993	36,000	LB.	.85	30,600
Beeswax	1994	600	LB.	1.50	900
	1993	600	LB.	1.50	900
TOTAL	1994				$34,100
	1993				34,000

FOREST PRODUCTS

TOTAL	1994	8,700,000 Board Feet	$5,310,000
	1993	9,330,000 Board Feet	3,552,000

Department of Agriculture

COASTSIDE RAIN STATIONS

	Half Moon Bay	Pescadero
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
1993/1994	17.93 inches	15.45 inches

RECAPITULATION

PRODUCTION VALUES

	1994	1993
FLOWER AND NURSERY CROPS	$165,401,000	$164,707,000
VEGETABLE CROPS	39,862,000	35,291,000
FIELD CROPS	1,238,000	1,223,000
FRUIT AND NUT CROPS	1,214,000	1,205,000
LIVESTOCK	1,114,000	1,794,000
LIVESTOCK AND APIARY PRODUCTS	34,000	34,000
FOREST PRODUCTS	5,310,000	3,552,000
TOTAL	$214,173,000	$207,806,000

MILLION DOLLAR CROPS

	1994	1993
Ornamental Nursery Stock	$42,520,000	$42,520,000
Potted Foliage Plants	17,530,000	17,520,000
Snapdragons	7,944,000	8,220,000
Orchids (potted)	6,903,000	8,073,000
Chrysanthemum (potted)	6,433,000	8,540,000
Herbaceous Perennials	5,835,000	5,725,000
Poinsettia (potted)	5,795,000	4,935,000
Forest Products	5,310,000	3,552,000
Lilies (potted)	3,780,000	3,476,000
Roses	3,495,000	3,775,000
Iris	3,078,000	2,769,000
Artichokes	2,873,000	3,271,000
Brussels Sprouts	2,844,000	3,128,000
Christmas Trees	2,646,000	2,138,000
Carnations	2,212,000	1,645,000
Daisies	1,620,000	1,872,000
Bedding Plants	1,508,000	1,450,000
Strawflowers	1,496,000	1,428,000
Cattle and Calves	1,078,000	1,750,000
Alstroemeria	1,022,000	1,015,000

SAN MATEO COUNTY
1994 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	Encarsia partenopea, wasp Clitostethus arcuatus, beetle	Monitored established populations of the two bio-control agents at 8 release sites.
Yellow Star Thistle	Bangasternus orientalis, weevil Eustenopus villosus, weevil	Monitored established populations of the two bio-control agents at 5 release sites.
Purple Star Thistle	Eustenopus villosus, weevil	1 release site

PEST ERADICATION

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

PEST DETECTION

Insect Trapping for Exotic Pests

3,390 insect traps were deployed for exotic pests, with 75,564 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.

One mature male Oriental Fruit Fly was found. Fifty additional traps were set in one square mile around the find. No additional Oriental Fruit Flies were detected.

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	9,774	35
Truck	161,838	41
Air	18,841	78
Household Goods	540	1

Exotic Pests Intercepted

Pest	Rating	Pest	Rating
Achatina fulica, giant African snail	A	Oxychilus sp., snail	Q
Aleurodicus dispersus, spiraling white fly	Q	Pheidole megacephala, bigheaded ant	Q
Anopiolepis longipes, long legged ant	Q	Pinnaspis strachani, lesser snow scale	A
Aspidiotus destructor, coconut scale	Q	Pseudaulacaspis cockerelli, magnolia white scale	A
Camponotus abdominalis, carpenter ant	Q	Pulvinaria psidii, green shield scale	A
Ceroplastes floridensis, Florida wax scale	Q	Radopholus similis, burrowing nematode	A
Ceroplastes sp., red wax scale	A	Solenopsis invicta, red imported fire ant	A
Coccus viridis, green scale	Q	Tapinoma melancoephalum, blackheaded ant	Q
Lymantria dispar, gypsy moth	A	Technomyrmex albipes, ant	Q
Orchamoplatus mammaeferus, croton whitefly	Q	Zachysia provisoria, snail	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	Lacewing Ladybird beetle	Greenhouse Ornamentals Vegetables
Greenhouse Whitefly	Encarsia sp., parasitic wasp	Greenhouse Ornamentals
Fungus gnat	Predatory nematode Bacillus thuringiensis, bacteria	Greenhouse Ornamentals Greenhouse Ornamentals Field grown Ornanmentals
Algae	Duck weed	Irrigation ponds
Weeds	Weed mats/ground cover cloth	Outdoor Ornamentals Strawberries, Vegetables, Grapes
Thrips	Orius sp., parasitic wasp	Vegetables

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 and to detect the presence of pests for the best timing of spraying. Crop rotation and allowing fields to lie fallow are also utilized to control pests and diseases.

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
11	112	Apples, artichokes, beans, berries, beets, carrots, corn, garlic, herbs, flowers, kale, leeks, lettuce, onion, peas, peppers, potatoes, spinach, sprouts. squash, tomatoes.

SAN MATEO COUNTY
Department of Agriculture/Weights & Measures
728 Heller Street
Redwood City, California 94064-0999