S A N M A T E 0 C 0 U N T



2018 AGRICULTURAL CROP REPORT

Pursuant to the provisions of Section 2279 and 2272 of California's Food and Agricultural Code, it is my pleasure to present the 2018 Annual Crop Report for San Mateo County. This year's agricultural production is estimated at \$149.2 million, an increase of \$6.5 million from the previous year. This represents the gross value of agricultural commodities produced in San Mateo County and does not account for costs associated with labor, field preparation, planting, harvesting, distribution and other production related activities.

Commodity groups and individual commodities whose value increased this year include **Indoor Floral and Nursery Crops**, which went up by \$5.3M to total \$87.9M. Though production square footage dipped from last year, prices increased slightly as operations continued to transition to higher value products. **Forest Products** increased from \$3.7M to \$5.0M due to more timber harvested, and an increase in per-unit-value. **Fruit and Nut Crops** improved by 11.7% to total \$3.4M. Though acreage for white wine grapes dropped slightly, red wine varietals and miscellaneous fruits and nuts saw modest increases in both acreage and values.

Vegetable Crops increased by \$590K, or about 2% overall. Though planted acreage, yield, and unit price varied depending on the respective commodity, the commodity group value increased on the strength of Brussels sprouts and Miscellaneous Vegetables. For Brussels sprouts, the per-unit-value was down, but greater acreage and increased yields boosted the commodity value. Miscellaneous Vegetables representing a variety of crops, also saw an increase in both planted acreage and overall value.

Animal production in both **Livestock** and **Livestock Products and Apiary** groups was stable, totaling \$3.2M and \$1.3M respectively. **Field Crops** increased about 4.5%, or \$64K from 2017, with all commodities performing relatively consistently. The exception to this was grain, where acres planted and yield were up significantly, but the per unit value was half the previous year.

Outdoor Floral and Nursery Crops was down 5.6% overall, primarily as a result of global competition reducing sales and growers

transitioning land to other commodities such as vegetables. Cut Flower acreage dropped by almost 25% contributing to a commodity value loss of \$1.9M. This decline was somewhat softened by a slight increase in total value for Ornamental Nursery Stock.

In closing, I would like to thank the agricultural producers who provided the information to make this report possible. Tracking crop production is important in assessing the health of our agriculture and food production systems, and grower cooperation is critical in doing so. Also, thank you to department staff, especially Kelly Mayer and Jennifer Gossett, who gathered data, crunched numbers, and compiled statistics to produce an illustrative report.

Respectfully,

Fred Crowder

Agricultural Commissioner

Sealer of Weights and Measures

DEPARTMENT OF AGRICULTURE/WEIGHTS & MEASURES

Agricultural Commissioner
Sealer of Weights and Measures
Fred Crowder



Karen Ross, Secretary

California Department of Food & Agriculture and

San Mateo County Board of Supervisors

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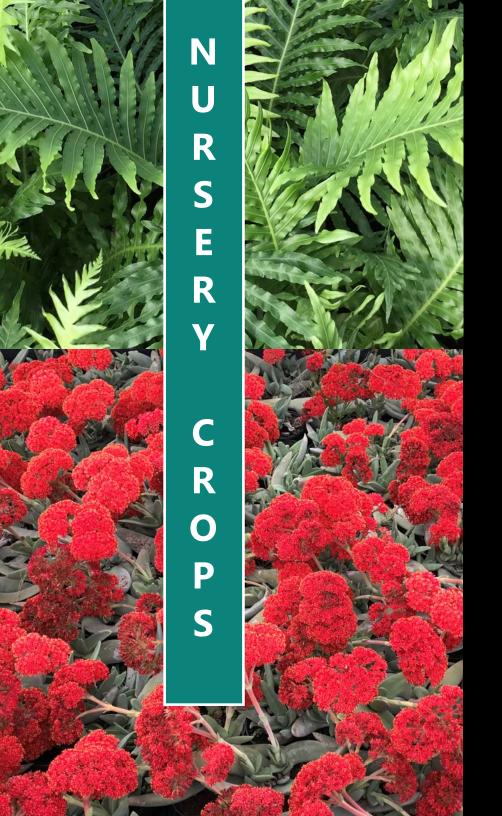


INDOOR GROWN

Crop	Year	Square Feet	Total Value
Potted Plants ¹	2018	4,765,000	\$81,467,000
Flowering & Foliage	2017	5,382,000	\$76,449,000
Cut Flowers ²	2018	840,000	2,508,000
Cut Flowers	2017	879,000	2,944,000
Bedding Plants,	2018	318,000	3,974,000
Cuttings and Liners ³	2017	315,000	3,294,000
TOTAL	2018	5,923,000	\$87,949,000
IOIAL	2017	6,576,000	\$82,687,000

- 1 Includes Campanula, Hydrangeas, Orchids, Succulents, etc.
- 2 Includes Alstroemeria, Freesia, Lilies, Ranunclus, etc.
- 3 Includes Herbs, Succulents, Vegetables, etc.







OUTDOOR GROWN

Crop	Year	Acres	Total Value
Ornamentals	2018	85	\$14,228,000
Nursery Stock ¹	2017	85	\$13,436,000
Christmas Trees (cut)	2018	151	300,000
Cillistillas Trees (Cut)	2017	162	296,000
Cut Flowers ²	2018	199	4,431,000
cut riowers	2017	265	6,351,000
TOTAL	2018	435	\$18,959,000
IOIAL	2017	512	\$20,083,000

² Includes Dahlias, Larkspur, Ranunculus, Stock, etc.

VEGETABLE CROPS

			PRODU	CTION			VALUE
Crop	Year	Acres	Per Acre	Total	Unit	Per Unit	Total
Artichokes	2018	59	2.32	137	Ton	\$1,873	\$257,000
	2017	63	1.34	84	Ton	\$1,719	\$144,000
Beans, Fava	2018	258	3.42		Ton	1,365	1,204,000
	2017	318	4.07	1,294	Ton	1,480	1,915,000
Beans, Snap	2018	39	3.55		Ton	1,658	229,000
	2017	49	3.36	165	Ton	1,860	307,000
					_		
Brussels Sprouts	2018	788	12.22	-	Ton	1,479	14,241,000
	2017	654	10.28	6,723	Ton	1,998	13,433,000
Leeks	2010	00	14.05	1 205	Т	1 170	1 400 000
Leeks	2018	90	14.05	1,265		1,170	1,480,000
	2017	96	13.19	1,266	ion	1,159	1,467,000
Peas	2018	142	1.45	206	Ton	2,200	453,000
reas	2017	154	1.48		Ton	2,242	511,000
	2017	134	1.70	220	1011	2,272	311,000
Pumpkins	2018	186	6.64	1,235	Ton	1,075	1,328,000
	2017	167	6.77	1,131		1,165	1,318,000
			00.1	1,101		1,100	1,010,000
Miscellaneous Vegetables	2018	382					8,657,000
Field and Indoor Grown ¹	2017	369					8,164,000
TOTAL	2018	1,944					\$27,849,000
TOTAL	2017	1,870					\$27,259,000
		-					

¹ Includes Chard, Herbs, Kale, Lettuce, Mushrooms, Peppers, Squash, etc.





FRUIT AND NUT CROPS Crop Year Acres Total V

Crop	Year	Acres	Total Value
Wine Grapes	2018	126	\$1,181,000
Red Varietals	2017	120	\$915,000
\A/ -:4-\/:-4- -	2018	41	226,000
White Varietals	2017	44	267,000
Miscellaneous ¹	2018	120	2,035,000
	2017	109	1,899,000
TOTAL	2018	287	\$3,442,000
IUIAL	2017	273	\$3,081,000

1 Includes Apples, Berries, Chestnuts, Pears, etc.





LIVESTOCK

		Number	
Commodity	Year	Head Sold	Total Value
Cattle and Calves	s 2018	1,706	\$2,461,000
	2017	1,574	\$2,548,000
Other ¹	2018	12,302	749,000
	2017	9,304	642,000
TOTAL	2018	14,008	\$3,210,000
IOIAL	2017	10,878	\$3,190,000
	2017 2018 2017 2018	1,574 12,302 9,304 14,008	\$2,548,000 749,000 642,000 \$3,210,000

1 Includes Goats, Lambs, Pigs, Poultry, etc.

LIVESTOCK PRODUCTS AND APIARY

				<u>VALUE</u>
Commodity	Year	Production	Per Unit	Total
Honey	2018	36,000 lbs	\$10.94	\$394,000
	2017	37,000 lbs	\$12.38	\$458,000
Other ¹	2018			889,000
	2017			825,000
				-
TOTAL	2018			\$1,283,000
TOTAL	2017			\$1,283,000

1 Includes Beeswax, Eggs, Cheese, Wool, etc.



FOREST PRODUCTS

Year	Board Feet	Total Value
2018	5,661,000	\$4,989,000
2017	5,176,000	\$3,680,000

FIELD CROPS

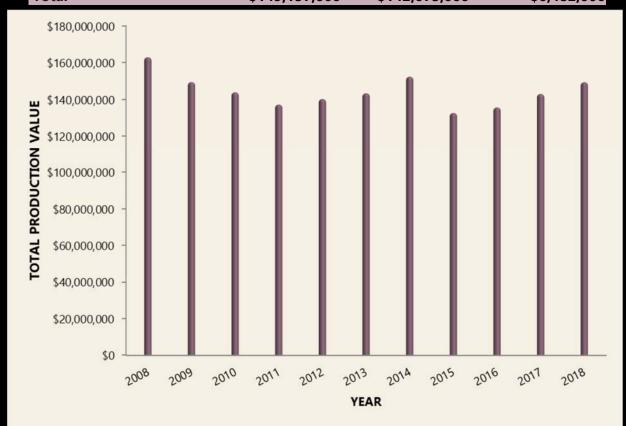
		P	RODUCTIO	<u>N</u>		VALUE
Commodity	Year	Acres	Per Acre	Total Unit	Per Unit	Total
Beans, Dry ¹	2018	83	0.99	82 Ton	\$5,868	\$481,000
	2017	80	0.94	75 Ton	\$5,932	\$445,000
Grain ²	2018	153	1.90	291 Ton	858	250,000
	2017	105	1.20	126 Ton	1,755	221,000
Hay	2018	491	2.34	1,149 Ton	187	215,000
Oat & Rye	2017	452	2.53	1,144 Ton	186	213,000
Volunteer	2018	138	1.85	255 Ton	112	29,000
Volunteer	2017	135	1.90	257 Ton	87	22,000
Pasture	2018	185			155	29,000
Irrigated	2017	185			155	29,000
Other	2018	23,604			20	472,000
Other	2017	24,107			20	482,000
TOTAL	2018	24,654				\$1,476,000
IOIAL	2017	25,064				\$1,412,000

¹ Includes Cranberry, Fava, Romano, etc.

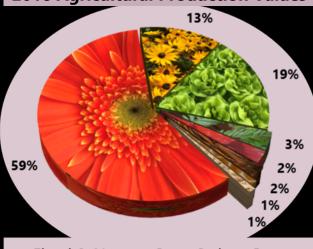
² Includes Barley, Oats, Quinoa, Rye and Wheat

RECAPITULATION

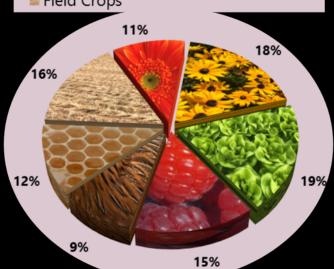
Commodity Group	2018	2017	Net Difference
Floral and Nursery Crops	\$106,908,000	\$102,770,000	\$4,138,000
Vegetables	27,849,000	27,259,000	590,000
Forest Products	4,989,000	3,680,000	1,309,000
Fruit and Nut Crops	3,442,000	3,081,000	361,000
Livestock	3,210,000	3,190,000	20,000
Livestock Products and Apiary	1,283,000	1,283,000	0
Field Crops	1,476,000	1,412,000	64,000
Total	\$149,157,000	\$142,675,000	\$6,482,000







- Floral & Nursery Crops Indoor Grown
- Floral & Nursery Crops Outdoor Grown
- Vegetables
- **■** Forest Products
- Fruit & Nut Crops
- Livestock
- Livestock & Apiary Products
- Field Crops



Producers Per Commodity Group

COMMERCIAL FISH CATCH

Species	Year	Pounds	Value		Species	Year	Pounds	Value
Crab, Dungeness	2018 2017	801,607 1,644,322	\$3,730,364 \$6,788,456		Rockfish, all	2018 2017	209,067 61,253	\$136,572 \$53,215
Salmon, Chinook	2018 2017	278,786 67,759	\$3,323,821 \$696,860		Crab, rock unspecified	2018 2017	32,077 29,763	\$68,853 \$78,798
Squid, Market	2018 2017	2,512,684 3,016,876	\$1,249,492 \$1,508,438		Sea Urchin	2018 2017	9,659 22,230	\$66,942 \$90,446
Halibut, California	2018 2017	46,191 109,146	\$263,121 \$603,281	V	Lingcod	2018 2017	18,297 10,855	\$35,799 \$25,493
Prawn, Spot	2018 2017	12,716 46,133	\$216,815 \$712,692		Sanddab	2018 2017	91,461 54,623	\$32,666 \$27,490
Sole, all	2018 2017	190,722 144,502	\$174,480 \$137,327		Miscellaneous	2018 2017	18,365 15,847	\$22,528 \$17,699
Anchovy	2018 2017	3,157,224 3,442,583	\$157,861 \$172,129		Flounder, all	2018 2017	3,921 8,422	\$3,327 \$7,949
Sablefish	2018 2017	45,910 197,600	\$143,596 \$297,127		Tuna, Albacore	2018 2017	1,723 3,466	\$2,670 \$10,277

Grand Total 2018 7,430,410 lbs \$9,628,907 2017 8,875,380 lbs \$11,227,677

Source: California Department of Fish and Game Poundage Value of Landings Princeton-Half Moon Bay. Informational only, value not included in Annual Report

SUSTAINABLE AGRICULTURE REPORT

Sustainable Agriculture utilizes farming practices that conserve resources and plant health, and ensures the economic vitality of the farm. Early pest detection and proactive management of invasive pests facilitates these goals to safeguard California's agricultural industry and reduces the need for pesticide use. Our Department's programs promoting sustainable agriculture are summarized as follows. Also included are the Integrated Pest Management methods local farmers use to balance crop protection needs with those of surrounding natural systems.

PEST DETECTION

The Pest Detection staff place and monitor insect traps throughout San Mateo County. In 2018, 4,250 traps were placed in host plants and checked 55,000 times. Our county was fortunate that no pests of agricultural and environmental concern (see target pest list below) were introduced in the County and found on these traps in 2018.

Asian Citrus Psyllid	Japanese Beetle
European Corn Borer	Khapra Beetle
European Grape Vine Moth	Mediterranean Fruit Fly
European Pine Shoot Moth	Melon Fly
Glassy-winged Sharpshooter	Mexican Fruit Fly
Gypsy Moth	Oriental Fruit Fly
Fruit Fly Species of Bactro	ocera, Dacus, Ceratitis

and Anastrepha

PEST EXCLUSION

Pest Exclusion inspections of agricultural shipments at entry points prevent the introduction and establishment of damaging pests. Exotic pests are regularly intercepted by Staff Biologists at parcel facilities, San Francisco International Airport, nurseries and other entry points during daily inspections. Origin certifications are also verified to confirm compliance with plant quarantines, regulations and entry requirements. When an infested or noncompliant shipment is found, it may be destroyed, reconditioned and released, or returned to the shipper.

Type of Shipment	Inspections	Rejections	Pests Intercepted
Parcel Carriers	23,987	93	25
Truck	1,282	14	17
Air	2,528	39	40
Sea Containers	34	1	1
Household Goods (Gypsy Moth)	33	0	0
Nursery Stock (GWSS)	2,013	0	0

EXOTIC PESTS INTERCEPTED

Pest or Disease	Rating	Number of Interceptions	Pest or Disease	Rating	Number of Interceptions
Ceroplastes floridensis	Α	1	Zachrysia provisoria	А	2
Florida wax scale	А	1	Cuban brown snail	A	۷
Ceroplastes stellifer	Α	2			
stellate scale					
Coccus viridis	Α	2	Ants	0	5
green coffee scale			(5 species)	Q	3
Ischnaspis longirostris	Α	2	Aphids	Q	7
black thread scale	A		(various species)		
Pinnaspis buxi	Α	5	Mealybugs	0	11
boxwood scale	A		(various species)	Q	
Pinnaspis strachani	Α	3	Moths & Butterflies	Q	4
lesser snow scale	А		(4 species)		
Planococcus lilacinus	۸	1	Scales	Q	13
coffee mealybug	Α		(various species)		
Pseudaulacaspis pentagona	Α	2	Spider mites	Q	4
white peach scale	A		(Tetranychus sp.)		
Radopholus similis	Α	1	Thrips	0	2
burrowing nematode	А		(2 species)	Q	۷
Selenaspidus articulatus	Α	1	Whiteflies	0	2
rufous scale			(2 species)	Q	۷
Thrips setosus	Α	2	Other	0	6
Japanese flower thrips	А	۷	Other	Q	O

[&]quot;A" rated pests or diseases are of known economic significance requiring containment, eradication and rejection.

[&]quot;Q" rated pests and diseases are suspected to cause economic significance requiring containment, eradication and rejection.

WEED MANAGEMENT

In 2018, Pest Eradication efforts focused on introduced, regulated weed species. Our Department leads the San Mateo County Weed Management Area (WMA) Group, a collaboration that coordinates, educates and funds invasive weed projects including removal, destruction and monitoring of noxious weeds. Members of the WMA include government, non-profit and private stakeholders, which updated a strategic plan for prioritizing weed species to control. Various projects were underway to preserve sensitive native habitats from cape ivy, Canary Island hypericum, slender false brome, and other invasive weeds endangering endemic species and agricultural lands. Along with hand pulling stinkwort (*Dittrichia graveolens*), the county funded the following projects:







Fertile Capeweed • Arctotheca calendula

- Perennial rosettes with daisy-like yellow flowers, dark center
- Open or disturbed sites; growing in at least 14 parcels in the county near Bean Hollow and Hwy 1
- Mapped, hand pulled and treated with herbicides

Jubata Grass • Cortaderia jubata

C - Rated***

A - Rated*

- Perennial grass, long leaves from base w/ plumed panicles maturing violet to white
- Mostly along coast in bare/sandy soil; found in thousands of acres throughout the County, focused on 257 acres near Pescadero Creek Road, and ongoing control at Pillar Point Bluff.
- Mapped, mechanical methods and treated with herbicides

Purple Loosestrife • Lythrum salicaria

B - Rated**

- Perennial clumps up to 3 meters tall w/ spikes of purple flowers
- Wetlands; found in and around Reflection Lake in La Honda
- Mapped and hand pulled

Skeletonweed • Chondrilla juncea

A - Rated*

- Perennial or biennial, basal rosettes w/ wiry stems and small yellow flowers
- Disturbed land; San Carlos, near Caltrain tracks, Edgewood Road/Hwy 280 and Edgewood Park
- Mapped, hand pulled and herbicide treatment

^{*}A - Rated pests are highly invasive, considered detrimental to agriculture and the environment, and regulated for eradication.

^{**}B - Rated pests may be detrimental to agriculture and eradication is subject to the discretion of the local Ag Commissioner.

^{***}C - Rated pests are controlled at the discretion of the county Agricultural Commissioner.

INTEGRATED PEST MANAGEMENT

Integrated Pest Management (IPM) is a systematic approach to managing destructive pests and keeping them below economic thresholds. IPM begins with identification and monitoring of target pests and uses interactive control strategies including: natural enemies, biological controls, sanitation, traps, and pheromones to disrupt reproduction. IPM is not exclusive of chemical use, but when needed, the chemical applied is the least toxic, effective material. IPM methods used by San Mateo County producers include:

1 5 5 5 5		
Bee & Bird Netting	Insecticidal Soaps	Refined Oils
Botanical Extracts	Lacewings	Row Covers
Companion Planting	Ladybird Beetles	Sticky Traps
Cover Crops	Mowing	Soil Steam Sterilization
Crop Rotation	Mulching	Temperature/ Humidity Control
Deer Fencing	Owl Boxes	Torching Weeds
Diatomaceous Earth	Parasitic Wasps	Weed Covers
Field Sanitation	Parasitic Nematodes	Vacuum
Hedgerows	Pheromone Disruptors & Traps	Vertebrates as Predators
Insect Growth Regulators	Predatory Mites	Vertebrate Traps

ORGANIC FARMING



Organic growers in San Mateo
County contributed 7.1% of the
total agricultural commodity
production value. In 2018, organic
production decreased to 671 from
726 acres, with better production
totals across the land. The
estimated gross production value
of organic commodities for 2018 is
\$10,592,000, a 5.7% increase over
the previous year.

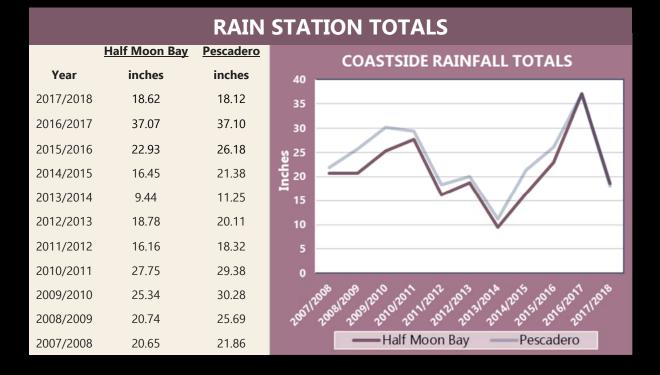
CERTIFIED FARMERS' MARKETS

What is a Certified Farmers Market (CFM)? Agricultural products are inspected at production sites and a Certified Producer's Certificate is issued. Then our county biologists inspect the markets to verify that products being sold were grown by the producer. Everything sold in a CFM must be grown in California and by the producer selling it. Certified Farmers' Markets benefit both consumers and the agricultural community. Consumers have access to high quality, fresh picked in-season produce. Farmers benefit by being exempt from packing, sizing and labeling requirements



while getting a higher share of each "food dollar" by selling directly to consumers.

Our Department recently refreshed the website with a section that not only lists all of the certified farmers' markets throughout the Peninsula, but also includes information on what you need to know to sell at a farmers' market.



AGRICULTURAL EXPORTS

Biologists from our Department issue phytosanitary certificates for entry of regulated agricultural commodities into other states and countries. Shipments are sent directly from our county's growers as well as products from all over passing through the San Francisco International Airport (SFO), Golden Gate Produce Terminal, and nearby seaports. After agricultural shipments met inspection and certification requirements, our department issued a total of 486 federal phytosanitary certificates to 23 countries, and 927 state phytosanitary certificates to 16 states and U.S. territories in 2018.

COUNTRIES RECEIVIN	NG AGRICULTU	RAL COMMODITIES	
Canada	Japan	Saudi Arabia	E
China	Kuwait	Singapore	U.S. Terri
Dominican Republic	Lebanon	South Korea	C
France	Micronesia	Taiwan	Middl
French Polynesia	Myanmar	Thailand	ŀ
Hong Kong	Netherlands	United Arab Emirates	C
Indonesia	Palau	Viet Nam	Continent
Italy	Philippines		

