

Contra Costa County Department of Agriculture/ Weights & Measures

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Christine O'Boyle
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Plant Quarantine Detector Canines

Bella (handler: Cecilie Siegel-Sebolt)

Bart (handler: Mariah Slusser)



On the Cover: sweet corn production - (left top to bottom) plowing the field, beds ready for planting, harvest, packing, roasted corn ready to eat; and (right) a field before harvest.

Above: Growing sweet corn requires careful monitoring and pest management in order to control the many insects, weeds, and diseases that attack the crop. Some of these pests are shown above: cutworms, grasshoppers, corn earworm, bindweed, purslane, johnson grass, root rot, and corn smut.

Field Crops



Crop	Year	Production		Total	Unit	Value	
		Harvested Acreage	Per Acre			Per Unit	Total
Field Corn	2009	4,270	4.38	18,700	Ton	182.00	3,403,000
	2008	7,700	4.00	30,800	Ton	164.00	5,051,000
Hay							
Alfalfa	2009	3,400	5.58	19,000	Ton	109.00	2,071,000
	2008	3,590	5.71	20,500	Ton	184.00	3,772,000
Grain	2009	1,940	2.01	3,900	Ton	69.00	269,000
	2008	1,540	2.76	4,250	Ton	153.00	650,000
Pasture							
Irrigated	2009	5,790			Acre	175.00	1,013,000
	2008	5,060			Acre	180.00	911,000
Rangeland	2009	169,000			Acre	19.60	3,312,000
	2008	169,000			Acre	19.60	3,312,000
Wheat	2009	85	1.29	110	Ton	161.00	17,700
	2008	634	2.22	1,410	Ton	219.00	309,000
Miscellaneous Field Crops*	2009	2,490					560,000
	2008	4,550					1,502,000
Total	2009	186,975					\$10,645,700
	2008	192,074					\$15,507,000

* Barley, Forage Hay, Hay (Wild), Rye, Silage, Straw, Sudan Grass, Safflower

Vegetable & Seed Crops



Crop	Year	Production		Total	Unit	Value	
		Harvested Acreage	Per Acre			Per Unit	Total
Beans	2009	302	4.07	1,230	Ton	1,070.00	1,316,000
	2008	326	3.93	1,280	Ton	1,090.00	1,395,000
Onions	2009	5	7.36	37	Ton	1,810.00	67,000
	2008	5	5.61	28	Ton	1,810.00	50,700
Squash	2009	15	4.81	72	Ton	937.00	67,500
	2008	15	3.73	56	Ton	1,040.00	58,200
Sweet Corn	2009	3,470	10.20	35,400	Ton	434.00	15,364,000
	2008	3,280	10.20	33,500	Ton	403.00	13,500,000
Tomatoes Total	2009	1,746		94,651	Ton		8,038,000
	2008	1,548		78,769	Ton		6,382,000
Fresh	2009	36	15.30	551	Ton	925.00	510,000
	2008	48	18.10	869	Ton	934.00	812,000
Processing	2009	1,710	55.00	94,100	Ton	80.00	7,528,000
	2008	1,500	51.90	77,900	Ton	71.50	5,570,000
Miscellaneous Vegetable & Seed Crops*	2009	1,010					4,382,000
	2008	378					1,768,000
Total	2009	6,548					\$29,234,500
	2008	5,552					\$23,153,900

* Asparagus, Artichokes, Beets, Cabbage, Cardoon, Carrots, Cauliflower, Cucumbers, Eggplant, Garlic, Ginseng, Lettuce, Okra, Greens, Herbs, Peas, Peppers, Potatoes, Pumpkins, Radishes

Fruit & Nut Crops



Crop	Year	Production		Total	Unit	Value	
		Harvested Acreage	Per Acre			Per Unit	Total
Apricots							
Total	2009	470	4.62	2,170	Ton		1,470,000
	2008	531	7.01	3,720	Ton		1,800,000
Fresh	2009				Ton	2,770.00	
	2008				Ton	2,930.00	
Processing	2009				Ton	325.00	
	2008				Ton	300.00	
Cherries	2009	369	2.46	908	Ton	2,940.00	2,670,000
	2008	344	1.85	636	Ton	3,150.00	2,003,000
Grapes	2009	1,930	4.61	8,900	Ton	748.00	6,657,000
	2008	1,980	3.97	7,860	Ton	732.00	5,754,000
Nectarines	2009	36	2.17	78	Ton	3,260.00	254,000
	2008	38	3.90	148	Ton	3,770.00	558,000
Olives***	2009	86	0.89	77	Ton	1,550.00	119,000
Peaches	2009	134	2.75	369	Ton	1,770.00	653,000
	2008	144	5.24	755	Ton	1,880.00	1,419,000
Plums and Pluots	2009	34	3.56	121	Ton	2,760.00	334,000
	2008	35	3.58	125	Ton	2,760.00	345,000
Walnuts	2009	390	2.14	835	Ton	1,460.00	1,219,000
	2008	466	2.22	1,030	Ton	1,400.00	1,442,000
Miscellaneous	2009	282					1,948,000
Fruit & Nut Crops*	2008**	419					3,044,000
Total	2009	3,731					\$15,324,000
	2008	3,957					\$16,365,000

* Almonds, Apples, Apriums, Asian Pears, Berries, Citrus, Figs, Melons, Olives, Pears, Pecans, Persimmons, Pistachios, Prunes, Pomegranates, Quinces, Strawberries

** 2008 values revised

*** New Category for 2009

Livestock



Item	Year	Production		Unit	Value	
		No. of Head	Total Liveweight		Per Unit	Total
Cattle & Calves	2009	10,100	74,200	Cwt	81.20	6,025,000
	2008	20,100	141,000	Cwt	85.10	12,000,000

Item	Year	Production	Unit	Value	
				Per Unit	Total
Honey	2009	24,000	Lbs.	7.00	168,000
	2008	24,000	Lbs.	7.00	168,000
Beeswax	2009	180	Lbs.	6.00	1,080
	2008	180	Lbs.	4.00	720
Pollination	2009	400	Colonies	160.00	64,000
	2008	400	Colonies	150.00	60,000
Miscellaneous Livestock and Livestock Products*	2009				500,000
	2008				500,000
Total	2009				\$6,758,080
	2008				\$12,728,720

* Chickens, Ducks, Emus, Goats, Hogs, Llamas, Ostriches, Pigs, Rabbits, Sheep, Turkeys, Milk, Wool, Eggs, Pollen

Nursery Products



Crop	Year	Production Area		Value
		House Sq. Ft.	Field Acres	Total
Bedding Plants	2009	34,900	1.10	368,000
	2008	151,000	3.10	1,051,000
Herbaceous Perennials	2009	53,400	0.50	1,092,000
	2008	78,400	4.05	1,321,000
Indoor Decoratives	2009	120,000	0.10	139,000
	2008	120,000	0.10	159,000
Vegetable Plants	2009	25,500	0.80	382,000
	2008	0	0.91	128,000
Miscellaneous Nursery Crops *	2009	0	28.80	480,000
	2008	0	44.90	820,000
Total	2009	233,800	31.30	\$2,461,000
	2009	349,400	53.06	\$3,479,000

* Christmas Trees, Cactus, Ground Covers, Propagative Materials, Ornamental Trees & Shrubs, Fruit Trees, Cut Flowers.

Organic Farming

	Apricots	Cherries	Nectarines	Peaches	Pears	Pistachios	Plums	Fruit, other	Herbs	Peas/Beans	Sweet Corn	Vegetables, leafy	Vegetables, root	Vegetables, other	Nursery products
No. of Farms	3	6	2	2	2	1	3	3	3	1	3	3	2	4	1
Estimated Acres	11.0	15.0	17.0	40.0	8.0	36.8	5.0	4.9	1.2	175.0	38.0	0.5	0.4	2.3	0.5
Total Acres Organically Farmed						358.6	Number of Organic Farms						12		

Recapitulation



Category	<u>Gross Value/Million Dollars</u>		<u>Ranking</u>	
	2009	2008	2009	2008
Vegetable & Seed Crops	29.2	23.2		1
Fruit & Nut Crops	15.3	16.4		2
Field Crops	10.6	15.5		3
Livestock	6.8	12.7		4
Nursery Products	2.5	3.5		5

Category	<u>Gross Value</u>		<u>Change</u>
	2009	2008	
Field Crops	10,645,700	15,507,000	-4,861,300
Vegetable & Seed Crops	29,234,500	23,153,900	6,080,600
Fruit & Nut Crops	15,324,000	16,365,000	-1,041,000
Livestock	6,758,080	12,728,720	-5,970,640
Nursery Crops	2,461,000	3,479,000	-1,180,000
Total	\$64,423,280	\$71,233,620	-6,810,340

Total Acres in County	482,000
Population in County January 2009	1,060,435
Land in Farms - Acres (2007 Census)	146,993
Harvested Cropland - Acres (2007 Census)	23,876

Biological Control

Pest	Agent/Mechanism	Scope of Program
Yellow Starthistle (<u>Centaurea solstitialis</u>)	Hairy Weevil (<u>Eustenopus villosus</u>)	Ongoing
	YST Flower Weevil (<u>Larinus curtus</u>)	Ongoing
	Rust Pathogen (<u>Puccinia jaceae</u> var. <u>solstitialis</u>)	Ongoing
Red Gum Lerp Psyllid (<u>Glycaspis brimblecombei</u>)	Encyrtid Parasitoid Wasp (<u>Psyllaephagus bliteus</u>)	Ongoing

Million Dollar Crops



Category	<u>Gross Value/Million Dollars</u>		<u>Ranking</u>	
	2009	2008	2009	2008*
Sweet Corn	15.4	13.5	1	1
Tomatoes, All	8.0	6.4	2	3
Grapes	6.7	5.8	3	4
Cattle & Calves	6.0	12.0	4	2
Field Corn	3.4	5.1	5	5
Rangeland Pasture	3.3	3.3	6	7
Cherries	2.7	2.0	7	9
Hay - Alfalfa	2.1	3.8	8	6
Apricots, All	1.5	1.8	9	10
Beans	1.3	1.4	10	13
Walnuts	1.2	1.4	11	11
Herbaceous Perennials	1.1	1.3	12	14
Irrigated Pasture	1.0		13	

*2008 rankings revised

Contra Costa County Certified Farmers' Markets

Tuesday

Concord
El Cerrito
Walnut Creek Kaiser

Wednesday

Point Richmond

Thursday

Antioch Kaiser
Concord
Danville
Martinez
Martinez Kaiser

Friday

Richmond
Walnut Creek Rossmoor

Saturday

Brentwood
Clayton
Danville
Diablo Valley
El Cerrito
Hercules
Orinda
Pinole
Pittsburg
Pleasant Hill
San Ramon

Sunday

Crockett
Kensington
Martinez
Moraga
Walnut Creek

For more information about the Certified Farmers' Markets in Contra Costa County, visit our website at www.co.contra-costa.ca.us and click on Departments, then Agriculture/Weights & Measures.

Pest Exclusion



Cedar Apple Rust



Japanese Beetle



Glassywinged Sharpshooter

Shipments Inspected

Mail/UPS/Fed Ex/Express Carriers	60,126
Truck shipments from within California	4,469
Truck shipments from other states	135
Household Goods	105

Total A & Q Rated Pests Found 57

<i>Quarantine Rejections</i>	<i>Total</i>	<i>Canine Program*</i>
Cedar-Apple Rust	16	2
Live Pests	13	3
Japanese Beetle	10	
Citrus Pests	9	2
Plum Curculio	8	
Burrowing Nematode	4	2
Colorado Potato Beetle	4	
Caribbean Fruit Fly	2	
Gypsy Moth	2	
Medfly	2	
Nursery Stock Certificate	2	
Red Imported Fire Ant	1	
Hydrilla	1	
Peach Rosette	1	
Hawaii Certification	1	
European Corn Borer		1
Golden Nematode		1
Glassywinged Sharpshooter		1
Chestnut Bark/Oak Wilt		1
Reasonable Cause	1	
Origin/Markings	197	15
<i>Total</i>	<i>273</i>	<i>29</i>

* Contra Costa County has two canine detection teams that work in the Bay Area. The canine program values represent finds not marked as containing plant material in Contra Costa County only.

“A” and “Q” Rated Pests

Pests vary as to the level of potential harm they can do, so it is necessary to have a rating system to represent the statewide importance of the pest. Of special interest are pests that are rated “A” or “Q”. These organisms have the potential to cause serious harm and require enforcement action when they are found. “A” rated pests, such as the Mediterranean Fruit Fly, are known to cause serious harm. “Q” rated pests are those that are suspected to cause serious harm but their status is uncertain because of incomplete information about the species.

A & Q Pest Interceptions in 2009



Little Fire Ant



Magnolia White Scale



Spiraling Whitefly

ANTS

Technomyrmex albipes / White-footed Ant

Q

10

Ochetellus glaber / Black House Ant

Q

1

Pheidole megacephala / Bigheaded Ant

Q

4

SCALES

Pseudaulacaspis cockerelli / Magnolia White Scale

A

4

Pseudaulacaspis pentagona / White Peach Scale

A

1

Ceroplastes rubens / Red Wax Scale

A

1

OTHER INSECTS, MITES, & MOLLUSCS

Lymantria dispar / Gypsy Moth

A

1

Empoasca sp. / Leafhopper

Q

1

Cerataphis sp. / Aphid

Q

2

Dreissena bugensis / Quagga Mussel

Q

1

PLANT DISEASES

Uromyces transversalis / Gladiolus Rust

Q

27

Mycosphaerella buckinghamiae / Leaf Spot

Q

1

Phytophthora ramorum / Sudden Oak Death

Q

1

Phytophthora hibernalis / Disease

Q

1

WEEDS

Cuscuta japonica / Giant Dodder

A

1