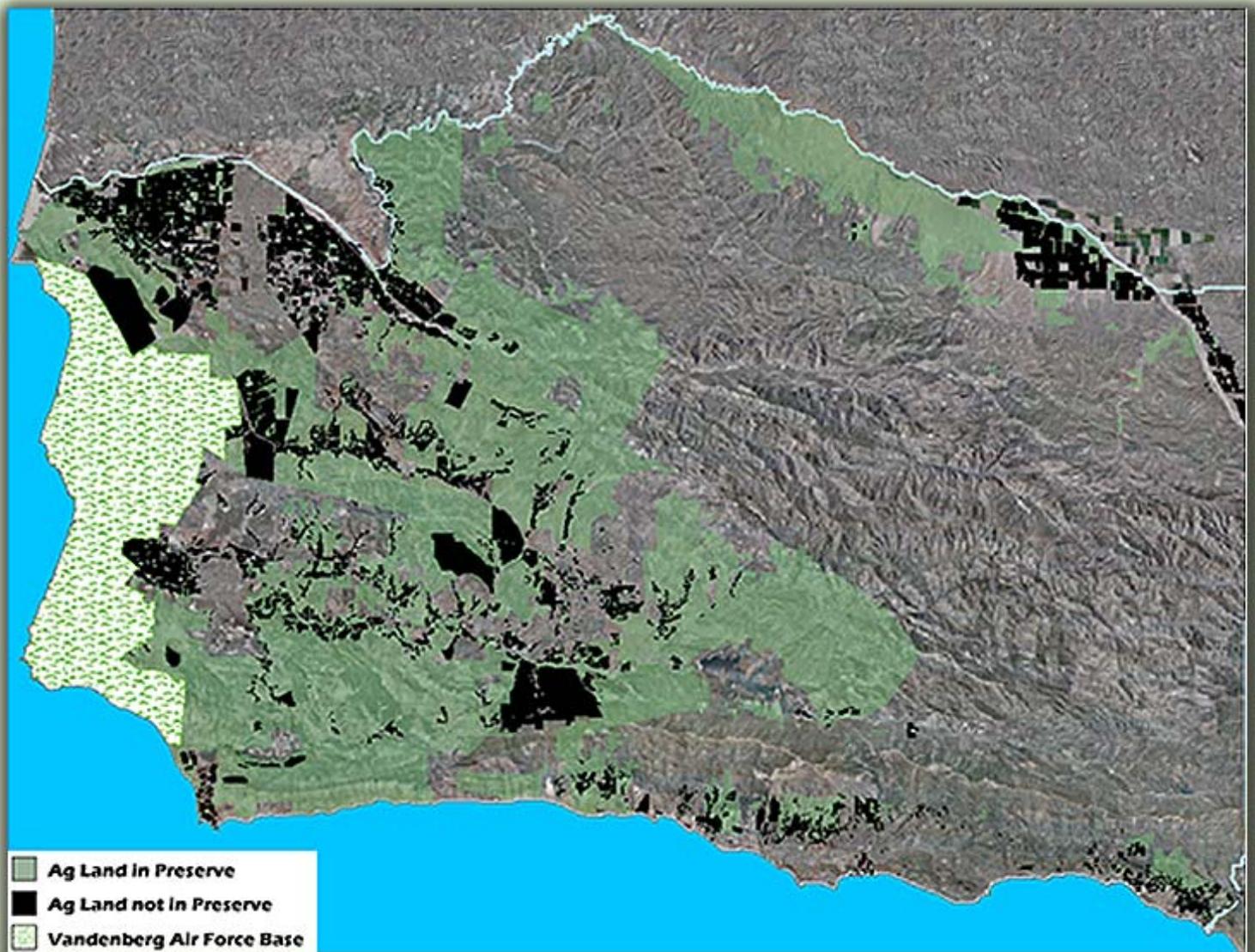


Agricultural Production Report 2009



Santa Barbara County

The cover . . .

. . . depicts the extent and importance of the Agricultural Preserve Program in Santa Barbara County. In exchange for long term commitments to keep their land in agriculture, qualifying farmers receive an adjustment to their property taxes. Approximately 70% of the total agricultural acreage in the County is under contract in the Agricultural Preserve Program.

Many thanks to UCSB intern Maria Alvarado for all her help on producing this year's crop report.



Agricultural Commissioner's Office
Weights & Measures ■ County of Santa Barbara

William D. Gillette
Commissioner / Director

April 12, 2010

The Honorable Board of Supervisors

Santa Barbara County
and

A. G. Kawamura, Secretary

California Department of Food and Agriculture

I am pleased to submit the 2009 Santa Barbara County Agricultural Production Report. This annual report presents statistical information on the acreage, yield, and value of Santa Barbara County agricultural products.

Agriculture continues to be the County's major producing industry. The 2009 gross production was valued at \$1,241,400,501. This is a \$104 million (9.1%) increase in gross value when compared with the 2008 figures and is the fourth year in a row that agriculture has surpassed the one billion dollar benchmark.

Santa Barbara County's diversified agriculture continues to provide a strong base for our local economy. Through the multiplier effect, it has a local impact in excess of 2.4 billion dollars.

It must be emphasized that the values in this report are gross values and in no way reflect net income. All of the various costs of production must be subtracted to determine the net income.

I wish to express my appreciation for the cooperation of all the growers, organizations and individuals who provided the information necessary for this report.

Respectfully submitted,

Guy Tingos
Deputy Agricultural Commissioner

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Vegetable Crops

Item	Year	Harvested Acreage	Yield Per Acre	Total Production	Unit	Wt.	Price Per Unit	Total Value
Bell Pepper	2009	331	1,359.20	449,895.2	CTN	25#	\$7.62	\$3,428,201
	2008	426	1,429.8	609,095	CTN	25#	\$9.23	\$5,621,947
Broccoli	2009	26,293	670.70	17,634,715	CTN	22#	\$8.50	\$149,895,078
	2008	27,954	684.69	19,139,824	CTN	22#	\$8.35	\$159,817,530
Cabbage	2009	887	837.78	743,110.86	CTN	50#	\$6.86	\$5,097,740
	2008	932	844.24	786,832	CTN	50#	\$6.74	\$5,303,248
Cauliflower	2009	7,819	770.00	6,020,630	CTN	25#	\$10.50	\$63,216,615
	2008	8,452	682.76	5,770,688	CTN	25#	\$8.21	\$47,377,348
Celery	2009	3,588	1,166.82	4,186,550	CTN	60#	\$9.76	\$40,860,729
	2008	3,646	1,125.19	4,102,443	CTN	60#	\$10.04	\$41,188,528
Lettuce, Head	2009	10,215	656.69	6,708,088.4	CTN	50#	\$9.25	\$62,049,817
	2008	12,462	723.21	9,012,643	CTN	50#	\$9.21	\$83,006,442
Lettuce, Leaf	2009	4,074	650.20	2,648,914.8	CTN	30#	\$10.83	\$28,687,747
	2008	4,235	787.95	3,336,968	CTN	30#	\$8.83	\$29,465,427
Spinach	2009	1,092	859.60	938,683.2	CTN	20#	\$9.69	\$9,095,840
	2008	1,124	852.85	958,603	CTN	20#	\$7.28	\$6,978,630
Squash, Summer	2009	1,013	737.94	747,533.22	CTN	26#	\$6.94	\$5,187,880
	2008	1,014	726.97	737,148	CTN	26#	\$6.83	\$5,034,721
Miscellaneous	2009	10,463						\$101,795,607
	2008	10,117						\$67,719,822
Total	2009	65,775						\$469,315,254
	2008	70,362						\$451,513,643

Fruit and Nut Crops

Item	Year	Harvested Acreage	Yield Per Acre	Total Production	Unit	Price Per Unit	Total Value
Avocados	2009	7,520	3.09	23,236	TON	\$2028.22	\$47,129,342
	2008	8,148	2.49	20,290	TON	\$1,858.77	\$37,714,443
Wine Grapes	2009	22,050	4.5	99,225	TON	\$1,385.00	\$137,426,625
	2008	21,643	2.85	61,797	TON	\$1,394.05	\$86,148,108
Lemons	2009	1,448	17.83	25,817	TON	\$570.35	\$14,725,205
	2008	1,480	16.67	24,672	TON	\$630.95	\$15,566,798
Strawberries Total	2009	7,550	---	---	---	---	\$344,614,465
	2008	7,193	---	---	---	---	\$309,277,708
Fresh	2009	---	4,311	32,548,050	12#	\$9.20	\$299,442,060
	2008	---	3,601	25,901,993	12#	\$10.25	\$265,495,428
Processing	2009	---	9.50	71,725	TON	\$629.80	\$45,172,405
	2008	---	8.37	60,205	TON	\$727.22	\$43,782,280
Miscellaneous	2009	1,395					\$3,500,019
	2008	1,232					\$2,892,706
Total	2009	39,963					\$547,395,656
	2008	38,888					\$451,599,763

Nursery Products

Cut Flowers:	Year	Greenhouse Sq. Ft.	Field Acres	Total Value
Chrysanthemum	2009	1,750,220	1.55	\$8,608,491
	2008	1,789,100	1.75	\$8,945,259
Dahlia	2009		26	\$2,423,807
	2008		17.6	\$1,408,692
Gerbera	2009	3,135,640	---	\$25,911,900
	2008	3,076,800	---	\$22,194,789
Iris	2009	68,000	28.05	\$3,724,376
	2008	---	---	---
Lily	2009	3,319,174	23.5	\$22,493,289
	2008	2,959,174	18.7	\$19,877,637
Miscellaneous Cut Flowers	2009	5,008,752	1,174.8	\$40,901,375
	2008	5,479,670	1,254.5	\$46,772,740
Total Cut Flowers	2009	13,281,786	1,253.9	\$104,063,238
	2008	13,304,744	1,292.6	\$99,199,117
Cut Foliage	2009	---	4.3	\$71,310
	2008	---	4.1	\$71,716
Potted Plants:				
Foliage	2009	530,826	---	\$1,916,703
	2008	515,549	---	\$1,867,870
Orchid	2009	2,397,230	15	\$11,191,660
	2008	2,550,430	15	\$9,555,241
Poinsettia	2009	214,000	---	\$665,489
	2008	223,500	---	\$737,302
Miscellaneous Potted Plants	2009	1,676,932	34.22	\$15,265,787
	2008	2,009,353	33.35	\$23,674,018
Other Nursery Products (Includes Herbaceous Perennials, Ground Covers, Turf, Bulbs, Bedding Plants, Vegetable Transplants, Fruit Trees and Vines, Woody Ornamentals, and Ground Covers)	2009	2,056,236	386.19	\$37,148,087
	2008	1,927,792	450.13	\$41,407,506
TOTAL	2009	20,157,010	1,693.61	\$170,322,274
	2008	20,531,368	1,795.13	\$176,512,770

Field Crops

Item	Year	Harvested Acreage	Yield Per Acre	Total Production	Unit	Price Per Unit	Total Value
Beans, Dry Edible	2009	3,265	18.85	61,545.25	CWT	\$57.88	\$3,562,239
	2008	4,005	15.37	61,557	CWT	\$57.88	\$3,562,919
Alfalfa	2009	564	6.84	3,857.76	TON	\$195.61	\$754,616
	2008	596	7.16	4,267	TON	\$204.04	\$870,639
Hay, Grain	2009	4,515	2.87	12,958.05	TON	\$167.07	\$2,164,901
	2008	4,862	2.87	13,954	TON	\$167.19	\$2,332,969
Pasture, Irrigated	2009	5,300				\$120.00	\$636,000
	2008	5,300				\$120.00	\$636,000
Non-Irrigated**	2009	584,125				\$7.25	\$4,234,906
	2008	584,449				\$7.25	\$4,237,255
Silage	2009	2,013	11.85	23,854.05	TON	\$28.50	\$679,840
	2008	2,143	12.22	26,188	TON	\$30.51	\$798,996
Miscellaneous	2009	945					\$239,107
	2008	949					\$239,148
Total	2009	600,727					\$12,271,609
	2008	602,304					\$12,677,926

Livestock and Poultry

Item	Year	Number of Head	Total Liveweight	Unit	Price Per Unit	Total Value
Cattle and Calves	2009	37,694	245,011	CWT	\$85.75	\$21,009,693
	2008	39,229	254,989	CWT	\$92.91	\$23,691,028
Miscellaneous	2009					\$2,598,731
	2008					\$2,697,279
Total	2009					\$23,608,424
	2008					\$26,388,307

Livestock, Poultry, & Apiary Products

Item	Year	Total Value
Miscellaneous	2009	\$8,150,727
	2008	\$8,267,350
Total	2009	\$8,150,727
	2008	\$8,267,350

Seed Crops

Item	Year	Harvested Acreage	Yield Per Acre	Total Production	Unit	Price Per Unit	Total Value
Bean Seed	2009	723	21.91	15,841	CWT	\$73.89	\$1,170,491
	2008	741	22.11	16,384	CWT	\$74.09	\$1,213,891
Flower Seed	2009	752					\$6,335,539
	2008	740					\$5,953,941
Vegetable Seed	2009	724					\$2,830,527
	2008	820					\$3,222,527
Total	2009	2,199					\$10,336,557
	2008	2,301					\$10,390,359

MISCELLANEOUS CROPS

VEGETABLE CROPS

Includes: Anise, artichoke, arugula, asparagus, baby vegetables, basil, beets, brussels sprouts, carrots, celery root, chard, cherry tomatoes, chervil, chili peppers, Chinese cabbage, cilantro, sweet corn, collard greens, cucumber, dandelion, eggplant, endive, escarole, frisee, green beans, Indian corn, kale, kohlrabi, leeks, processed lettuce, mache, mizuma, mustard greens, dry onions, green onions, parsley, peaches, peas (edible pod), potato, processed celery, radicchio, radish, winter squash, tomatillos, tomatoes, and upland cress.

FRUIT AND NUT CROPS

Includes: Apple, apricot, blackberry, blueberry, cherimoya, guava, lime, melons, olive, oranges, passion fruit, peach, pears, persimmon, pistachio, plum, pluot, pumpkin, raspberry, sapote, tangerines, walnut, and watermelon.

NURSERY PRODUCTS

Cut flowers

Includes: Agapanthus, alstromeria, anemone, anthurium, aster, bells of Ireland, Bird of Paradise, buplurium, calla lily, carnation, celosia, delphinium, dianthus, freesia, gardenia, gladiola, gypsophlia, hyacinth, hydrangea, kangaroo paw, larkspur, liatris, limonium, lisianthus, maine blue, misty, monte casino, narcissus, orchid, ornithogalum, protea, Queen Anne's lace, ranunculus, rose, safari sunset, scented geranium, snapdragon, solidago, solidaster, statice, stephanotis, stock, sunflower, sweet pea, tuberose, tulip, and veronica.

Potted plants

Includes: Anthurium, begonia, calla lily, corn pepper strawflower, cyclamen, exacum, fuchsia, geranium, gerbera, hydrangea, ivy, kalanchoe cineraria, lavender, lily, ornamental pepper, prim rose, and rose.

FIELD CROPS

Includes: Alfalfa hay, irrigated pasture, and silage.

LIVESTOCK AND POULTRY

Includes: Aquaculture, breeding stock, chickens, goats, sheep, and swine.

LIVESTOCK, POULTRY AND APIARY PRODUCTS

Includes: Apiary products (honey, bees wax, pollen, and pollination), milk, and milk products.

MILLION DOLLAR PRODUCTS

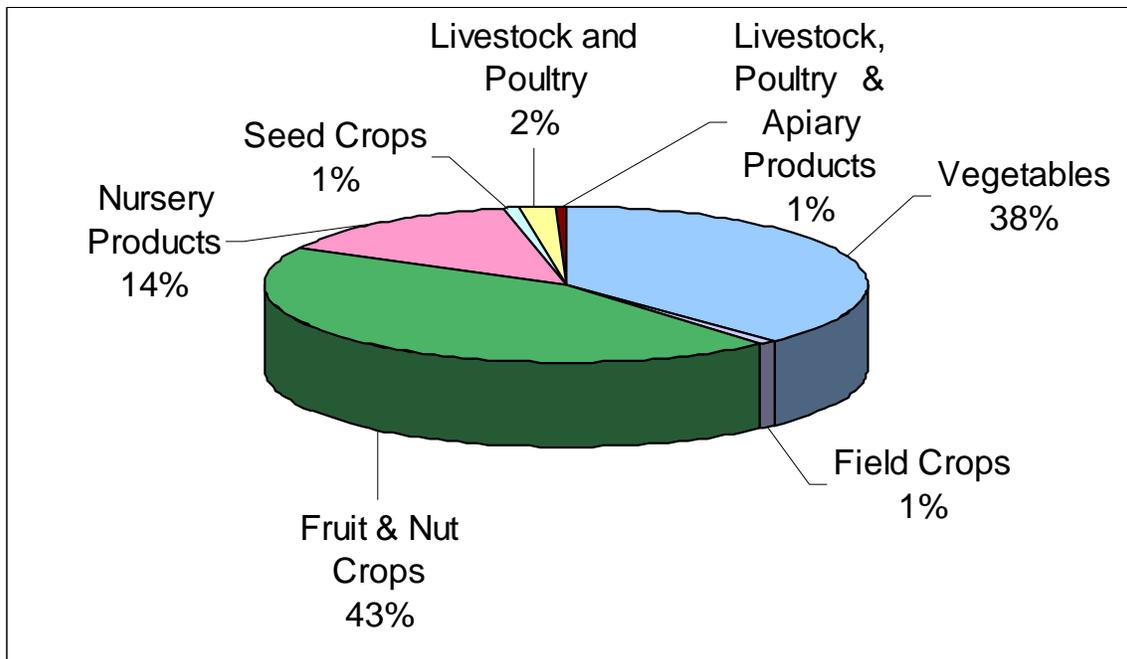
2009 Ranking

2008

1	Strawberries	\$344,614,465	1
2	Broccoli	\$149,895,078	2
3	Wine Grapes	\$137,426,625	3
4	Cauliflower	\$63,216,615	5
5	Head Lettuce	\$62,049,817	4
6	Avocado	\$47,129,342	7
7	Celery	\$40,860,729	6
8	Leaf Lettuce	\$28,687,747	8
9	Gerbera Cut Flowers	\$25,911,900	10
10	Lily Cut Flowers	\$22,493,289	11
11	Cattle	\$21,009,693	9
12	Lemons	\$14,725,205	12
13	Orchid Potted Plants	\$11,191,660	13
14	Spinach	\$9,095,840	15
15	Chrysanthemum Cut Flowers	\$8,608,491	14
16	Flower seed	\$6,335,539	16
17	Summer Squash	\$5,187,880	20
18	Cabbage	\$5,097,740	19
19	Iris Cut Flowers	\$3,724,376	---
20	Beans, Dry Edible	\$3,562,239	18
21	Bell Peppers	\$3,428,201	17
22	Vegetable Seed	\$2,830,527	21
23	Dahlia Cut Flowers	\$2,423,807	24
24	Hay, Grain	\$2,164,901	22
25	Foliage Potted Plants	\$1,916,703	23
26	Bean Seed	\$1,170,491	25

Summary

		ACREAGE	FOB VALUE
Vegetable Crops	2009	65,775	\$469,315,254
	2008	70,362	\$451,513,643
Fruit & Nut Crops	2009	39,963	\$547,395,656
	2008	38,888	\$451,599,763
Nursery Products	2009	2,156	\$170,322,274
	2008	2,266	\$176,512,770
Field Crops	2009	600,727	\$12,271,609
	2008	602,304	\$12,677,926
Seed Crops	2009	2,199	\$10,336,557
	2008	2,301	\$10,390,359
Livestock and Poultry	2009		\$23,608,424
	2008		\$26,388,307
Livestock, Poultry & Apiary Products	2009		\$8,150,727
	2008		\$8,267,350
Total			
	2009	710,820	\$1,241,400,501
	2008	716,121	\$1,137,350,118



COMPARATIVE AGRICULTURAL VALUES

2009	\$1,241,400,501
2008	\$1,137,350,118
2007	\$1,103,322,033
2006	\$1,016,735,144
2005	\$997,600,578
2004	\$905,387,495
2003	\$858,016,583
2002	\$771,662,986
2001	\$709,117,112
2000	\$735,003,901
1999	\$656,969,259
1998	\$611,859,484
1997	\$625,974,591
1996	\$581,637,098
1995	\$539,328,233
1994	\$509,777,967
1993	\$500,517,903
1992	\$443,228,285
1991	\$500,067,241
1990	\$508,517,249

SUSTAINABLE AGRICULTURE

BIOLOGICAL CONTROL EFFORTS

<u>PEST</u>	<u>BIO-CONTROL AGENT</u>	<u>SCOPE OF PROGRAM</u>
Ash Whitefly <i>Siphonius phillyreae</i>	Hymenoptera (parasitic wasp) <i>Encarsia partenopea</i>	County-wide+
Western Grapeleaf Skeletonizer <i>Harrisina brillians</i>	Diptera (larval parasitic fly) <i>Ametadoria sp.</i>	6 sites (Cuyama Valley)+
Grape Leafhopper <i>Erythroneura elegantula</i>	Hymenoptera (egg parasitic wasp) <i>Anagrus epos</i>	200 acres (Santa Ynez)
Russian Wheat Aphid <i>Diuraphis noxia</i>	Hymenoptera (parasitic wasps) <i>Aphelinus sp.</i> <i>Diaeretiella rapae</i>	40 acres (north County)+
Woolly Whitefly <i>Aleurothrixus floccosus</i>	Hymenoptera (parasitic wasps) <i>Cales sp.</i> <i>Amitus sp.</i>	Various sites (County-wide)+
Horn and Face Flies <i>Musca autumnalis</i> <i>Haematobia irritans</i>	Coleoptera: Scarabaeidae <i>Onthophagus taurus</i> <i>O. gazella</i> <i>O. alexis</i>	76,000 acres (County-wide)
Ice Plant Scale <i>Pulvinaria mesembryanthemi</i>	Hymenoptera (parasitic wasp) <i>Metaphycus sp.</i>	Various sites (County-wide)+
Eugenia Psyllid <i>Trioza eugeniae</i>	Hymenoptera (parasitic wasp) Eulophidae: <i>Tamarixia sp.</i>	Various sites (County-wide)+
Blue Gum Psyllid <i>Ctenarytaina eucalypti</i>	Hymenoptera (parasitic wasp) <i>Psyllaephagus pilosus</i>	Various sites (County-wide)+
Red Gum Lerp Psyllid <i>Glycaspis brimblecombei</i>	Hymenoptera (parasitic wasp) <i>Psyllaephagus bliteus</i>	Various sites (County-wide)
Eucalyptus Longhorned Borer <i>Phoracantha semipunctata</i>	Hymenoptera (parasitic wasps) <i>Avetianella longoi</i> (egg parasite) <i>Syngaster lepidus</i> (larval parasite) <i>Doryctes sp.</i> (larval parasite)	Various sites (County-wide)
Eucalyptus Snout Beetle <i>Gonipterus scutellatus</i>	Hymenoptera (parasitic wasp) <i>Anaphes nitens</i>	3 sites (south coast)

Sustainable Agriculture cont.

BIOLOGICAL CONTROL EFFORTS

<u>PEST</u>	<u>BIO-CONTROL AGENT</u>	<u>SCOPE OF PROGRAM</u>
Yellow Starthistle <i>Centaurea solstitialis</i> Forest)	<i>Bangasternus orientalis</i> (a bud weevil) <i>Eustenopus villosus</i> (Hairy weevil) <i>Larinus curtis</i> (a flower weevil) Diptera: Tephritidae <i>Urophora sirunaseva</i> (a gall fly) <i>Chaetorellia succineas</i> (seedhead fly) <i>Puccinia jaceae</i> (a rust disease)	Several sites (National Forest) Various sites (National Forest) 2 sites (National Forest) 3 sites (National Forest) 2 sites (National Forest) 1 site (National Forest)
Italian Thistle <i>Carduus pycnocephalus</i>	Coleoptera: Curculionidae <i>Rhinocyllus conicus</i>	Various sites (500 acres)
Puncture Vine <i>Tribulus terrestris</i>	Coleoptera: Curculionidae <i>Microlarinus spp.</i>	3 sites (County-wide)
Giant Whitefly <i>Dialeurodicus dugesii</i>	Hymenoptera (parasitic wasps) <i>Entedononecremnus krauteri</i> (larval parasite) <i>Encarsiella noyesii</i> (larval parasite) <i>Idioporus affinis</i> (larval parasite)	Various sites (south coast)
Olive Fruit Fly <i>Bactocera oleae</i>	Hymenoptera (larval parasitic wasps) <i>Tsyttalia concolor</i> & <i>lounsburyi</i> <i>Utetes africanus</i>	Various sites (south coast)
Nesting Whitefly <i>Paraleurodes minei</i>	Coleoptera: Coccinellidae <i>Nephaspis sp</i> (a ladybug)	3 sites (south coast)
Australian Tortoise Beetle <i>Trachymela sloanei</i>	Hymenoptera (parasitic wasp) <i>Enoggera reticulata</i>	1 site (Goleta)
Eucalyptus Snout Beetle <i>Gonipterus scutellatus</i>	Hymenoptera (egg parasite) <i>Amaphes nitens</i>	3 sites (south coast)
Giant Reed <i>Arundo donax</i>	hand/mechanical removal	15 tons removed

+ Bio-control agent effectively controlling target pest in Santa Barbara County.

Sustainable Agriculture cont.

ORGANIC FARMING

72 Organic Farms were registered in Santa Barbara County in 2009. Utilizing organic principles as required by the California Organic Products Act of 2004, these farms produce a wide variety of crops.

VEGETABLE CROPS

Includes: Anise, arugula, asparagus, basil, beans, beets, bell peppers, broccoli, cabbage, carrots, cauliflower, celery, chard, cherry tomato, chicory, chili peppers, chives, cilantro, corn, cucumber, eggplant, endive, fennel, garlic, gourmet specialty vegetables, green onions, herbs, kale, kohlrabi, lettuce, leeks, mizuna, mushrooms, mustard greens, onions, oriental vegetables, parsley, peas, potato, pumpkin, radish, rhubarb, spinach, squash, sweet potato, tomato, tomatillo, turnip, and vegetable transplants.

FRUIT AND NUT CROPS

Includes: Apple, apricot, avocado, banana, cherimoya, fig, grapefruit, grape, guava, jujube, kiwi, lemon, lime, loquat, macadamia nut, mandarin, melon, nectarine, olive, orange, passion fruit, peach, persimmon, plum, pluot, raspberry, sapote, strawberry, tangelo, tangerine, and watermelon.

FIELD CROPS

Includes: Pasture and rangeland.

NURSERY PRODUCTS

Includes: Cactus, potted plants, and potted herbs.

PEST EXCLUSION

PEST (RATING)	HOST/MECHANISM/ORIGIN	NUMBER/DISPOSITION
SCALE INSECTS:		
Lesser Snow Scale (A) <i>Pinnaspis strachani</i>	Nursery Stock/Common Carrier/Costa Rica	1 Rejected/Destroyed
Lesser Snow Scale (A) <i>Pinnaspis strachani</i>	Nursery Stock/Common Carrier/Hawaii	1 Rejected/Destroyed
Tropical Palm Scale (A) <i>Hemiberlisia palmae</i>	Nursery Stock/Commercial Carrier/Hawaii	1 Rejected/Returned
Red Wax Scale (A) <i>Ceroplastes rubens</i>	Nursery Stock/Common Carrier/Hawaii	1 Rejected/Destroyed
Immature Soft Scale (Q) Unidentified	Nursery Stock/Common Carrier/Hawaii	1 Rejected/Destroyed
Armored Scale (Q) <i>Aonidiella</i> sp.	Papaya/Common Carrier/Brazil	1 Rejected/Destroyed
Purple Scale (B) <i>Lepidosaphes beckii</i>	Lime/Common Carrier/Guatemala	1 Rejected/Destroyed
Boxwood scale (A) <i>Pinnaspis buxi</i>	Cut foliage/Common Carrier/Hawaii	3 Rejected/Destroyed
Boxwood scale (A) <i>Pinnaspis buxi</i>	Nursery Stock/Common Carrier/Costa Rica	1 Rejected/Returned
ANTS:		
Whitefooted Ant (Q) <i>Technomyrmex albipes</i>	Nursery Stock/Common Carrier/Hawaii	2 Rejected/Destroyed
APHIDS:		
An aphid (Q) <i>Macrosiphum hellebori</i>	Nursery Stock/Commercial Carrier/California	1 Detected/Treated
An aphid (Q) <i>Greenidea ficicola</i>	Nursery Stock/Commercial Carrier/California	1 Detected/Treated
An aphid (Q) <i>Sipha maydis</i>	Nursery Stock/Common Carrier/California	1 Detected/Treated

Sustainable Agriculture cont.

PEST EXCLUSION

PEST (RATING)	HOST/MECHANISM/ORIGIN	NUMBER/DISPOSITION
MEALYBUGS:		
A mealybug (Q) <i>Palmicultor lumpurensis</i>	Nursery Stock/Commercial Carrier/California	1 Detected/Treated
Mealybugs (Q) Unidentified	Nursery Stock/Common Carrier/Hawaii	1 Rejected/Destroyed
Mealybugs (Q) <i>Delottococcus confusus</i>	Nursery Stock/Commercial Carrier/California	1 Detected/Treated
LEAFHOPPERS:		
A leafhopper (B) Ciccadellidae	Crop/Submitted/California	1 Detected/Collected
Leafhopper egg mass (B) <i>Homalodisca</i> sp.	Nursery Stock/Commercial Carrier/California	1 Detected/Treated
SLUGS:		
A Slug (Q) Veronicellidae	Nursery Stock/Common Carrier/Costa Rica	1 Detected/Destroyed
FUNGUS:		
Fusarium wilt of Palm (A) <i>Fusarium oxysporum</i> f. sp. <i>Canariensis</i>	Nursery Stock/Survey/California	4 Detected/Destroyed
Liquidambar leaf spot (Q) <i>Pseudocercospora liquidambaricola</i>	Nursery Stock/Common Carrier/Florida	1 Rejected/Destroyed
Gladiolus Rust (Q) <i>Uromyces transversallis</i>	Cut Flowers/Common Carrier/Netherlands	2 Rejected/Destroyed

Rating definitions:

"A" - An organism of known economic importance subject to enforcement action involving eradication, quarantine regulation, containment, rejection, or other holding action.

"Q" - An organism or disorder requiring temporary "A" action pending determination of a permanent quarantine rating. The organism is suspected to be of economic importance, but its status is uncertain because of incomplete identification or inadequate information.

"B" – An organism of known economic importance subject to: eradication, containment, control, or other holding action at the discretion of the individual County Agricultural Commissioner.

DEPARTMENT STAFF

Commissioner/Director

William D. Gillette

Assistant Director

Elena Morelos

Deputy Commissioners

Susan Bryant Guy Tingos

Entomologist

Brian Cabrera

Plant Pathologist

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