



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

William D. Gillette  
Commissioner / Director

April 11, 2005

**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 2004 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 2004 gross production was valued at \$902,891,898. This is a \$44.9 million (5%) increase in gross value when compared with the 2003 figures.

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 \$1.8 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 and special thanks to the members of my staff, particularly Mike Champion, who worked so hard at compiling it.

Respectfully submitted,

*William D. Gillette*

William D. Gillette  
Agricultural Commissioner

## TABLE OF CONTENTS

<b>VEGETABLE CROPS.....</b>	<b>1</b>
<b>FIELD CROPS .....</b>	<b>2</b>
<b>FRUIT AND NUT CROPS.....</b>	<b>3</b>
<b>NURSERY PRODUCTS.....</b>	<b>4</b>
<b>SEED CROPS .....</b>	<b>5</b>
<b>LIVESTOCK AND POULTRY .....</b>	<b>6</b>
<b>LIVESTOCK, POULTRY AND APIARY PRODUCTS .....</b>	<b>6</b>
<b>MISCELLANEOUS CROPS.....</b>	<b>7</b>
<b>MILLION DOLLAR PRODUCTS.....</b>	<b>8</b>
<b>SUMMARY .....</b>	<b>9</b>
<b>COMPARATIVE AGRICULTURAL VALUES.....</b>	<b>10</b>
<b>SUSTAINABLE AGRICULTURAL SUMMARY .....</b>	<b>11</b>
<b>DEPARTMENT STAFF .....</b>	<b>14</b>



# VEGETABLE CROPS

	<u>Production</u>				<u>Value</u>			
	<u>Year</u>	<u>Harvested Acreage</u>	<u>Per Acre</u>	<u>Total</u>	<u>Unit</u>	<u>Unit Wt.</u>	<u>Per Unit</u>	<u>Total</u>
<b>Bell Pepper</b>	<b>2004</b>	<b>407</b>	<b>1,153.64</b>	<b>469,532</b>	<b>CTN</b>	<b>25#</b>	<b>\$6.08</b>	<b>\$2,854,755</b>
	2003	481	1,163.25	559,523	CTN	25#	\$5.66	\$3,166,900
<b>Broccoli</b>	<b>2004</b>	<b>27,053</b>	<b>595.82</b>	<b>16,118,719</b>	<b>CTN</b>	<b>22#</b>	<b>7.02</b>	<b>113,153,407</b>
	2003	27,131	652.60	17,705,691	CTN	22#	6.63	117,388,731
<b>Cabbage</b>	<b>2004</b>	<b>1,025</b>	<b>795.74</b>	<b>815,634</b>	<b>CTN</b>	<b>50#</b>	<b>8.42</b>	<b>6,867,638</b>
	2003	1,567	727.05	1,139,287	CTN	50#	6.37	7,257,258
<b>Cauliflower</b>	<b>2004</b>	<b>7,483</b>	<b>677.46</b>	<b>5,069,433</b>	<b>CTN</b>	<b>25#</b>	<b>7.06</b>	<b>35,790,197</b>
	2003	7,602	760.57	5,781,853	CTN	25#	7.54	43,595,172
<b>Celery</b>	<b>2004</b>	<b>3,716</b>	<b>1,147.77</b>	<b>4,265,113</b>	<b>CTN</b>	<b>60#</b>	<b>7.27</b>	<b>31,007,372</b>
	2003	3,769	1,284.84	4,842,562	CTN	60#	6.95	33,655,806
<b>Lettuce, Head</b>	<b>2004</b>	<b>11,049</b>	<b>774.11</b>	<b>8,553,141</b>	<b>CTN</b>	<b>50#</b>	<b>5.97</b>	<b>51,062,252</b>
	2003	11,666	760.47	8,871,643	CTN	50#	8.03	71,239,293
<b>Lettuce, Leaf</b>	<b>2004</b>	<b>3,568</b>	<b>745.46</b>	<b>2,659,801</b>	<b>CTN</b>	<b>30#</b>	<b>6.75</b>	<b>17,953,657</b>
	2003	3,279	832.29	2,729,079	CTN	30#	8.65	23,606,533
<b>Peas, Edible Pod</b>	<b>2004</b>	<b>1,306</b>	<b>594.30</b>	<b>776,156</b>	<b>CTN</b>	<b>10#</b>	<b>11.02</b>	<b>8,553,239</b>
	2003	1,237	649.96	804,001	CTN	10#	8.56	6,882,249
<b>Spinach</b>	<b>2004</b>	<b>1,033</b>	<b>903.25</b>	<b>933,057</b>	<b>CTN</b>	<b>20#</b>	<b>7.10</b>	<b>6,624,705</b>
	2003	927	858.65	795,969	CTN	20#	7.94	6,319,994
<b>Squash, Summer</b>	<b>2004</b>	<b>1,187</b>	<b>877.49</b>	<b>1,041,581</b>	<b>CTN</b>	<b>26#</b>	<b>7.65</b>	<b>7,968,095</b>
	2003	1,229	812.71	998,821	CTN	26#	6.02	6,012,902
<b>Miscellaneous</b>	<b>2004</b>	<b>12,010</b>						<b>67,914,924</b>
	2003	11,523						56,966,586
<b>Total</b>	<b>2004</b>	<b>69,837</b>						<b>\$349,750,241</b>
	2003	70,411						\$376,091,424



## FIELD CROPS

	Year	Harvested Acreage	Production		Unit	Value	
			Per Acre	Total		Per Unit	Total
Beans, Dry Edible	2004	2,920	13.44	39,245	CWT	\$59.22	\$2,324,089
	2003	4,283	14.93	63,945	CWT	\$54.01	\$3,453,670
Alfalfa	2004	829	8.02	6,649	TON	121.52	807,987
	2003	935	7.60	7,106	TON	110.10	782,371
Hay, Grain	2004	3,331	2.17	7,228	TON	114.56	828,040
	2003	4,113	3.22	13,244	TON	80.98	1,072,499
Pasture Irrigated	2004	5,300				120.00	636,000
	2003	5,300				120.00	636,000
Non-irrigated**	2004	589,640				7.25	4,274,890
	2003	589,640				7.25	4,274,890
Silage	2004	1,130	12.64	14,283	TON	35.73	510,332
	2003	1,439	12.94	18,621	TON	21.61	402,400
Miscellaneous	2004	114					29,500
	2003	528					630,491
<b>Total</b>	2004	<b>603,264</b>					<b>\$9,410,838</b>
	2003	606,238					\$11,252,321

\*\* Grazing land as reported by Farmland Mapping & Monitoring Program (Excludes Federal grazing allotments).



## FRUIT AND NUT CROPS

	Year	Production			Value		
		Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Avocados	2004	8,485	2.00	16,970	TON	\$1,729.73	\$29,353,518
	2003	8,352	2.95	24,638	TON	\$2,247.98	\$55,385,731
Wine Grapes	2004	17,408	3.67	63,887	TON	1,305.86	83,427,478
	2003	16,667	2.88	48,001	TON	1,371.81	65,848,251
Lemons	2004	1,772	15.26	27,041	TON	436.28	11,797,448
	2003	1,870	14.36	26,853	TON	281.11	7,548,647
Strawberries Total	2004	5,239					186,066,115
	2003	3,763					142,898,737
Fresh	2004		3,608.48	18,904,827	12#	8.21	{155,208,630}
	2003		4,299.30	16,178,266	12#	6.88	{111,306,470}
Processing	2004		11.63	56,371	TON	547.40	{30,857,485}
	2003		15.00	56,445	TON	559.70	{31,592,267}
Miscellaneous	2004	1,253					6,382,550
	2003	1,221					3,292,576
Total	2004	34,157					\$317,027,109
	2003	31,873					\$274,973,942



# NURSERY PRODUCTS

	Year	Production Area		Value
		House Sq. Ft.	Field Acres	Total
<b>Flowers &amp; Foliage</b>				
<b>Cut Flowers:</b>				
Aster	2004	615,076		\$1,342,925
	2003	516,808		\$1,196,900
Chrysanthemum	2004	3,058,780		11,500,879
	2003	3,182,780		13,684,775
Delphinium	2004		58.16	2,336,116
	2003		61.57	1,717,842
Gerbera	2004	3,023,214		21,956,946
	2003	2,589,160		18,035,705
Lily	2004	2,758,408		17,239,966
	2003	2,131,180		11,253,843
Orchid	2004	979,134		5,568,959
	2003	919,634		4,996,132
Rose	2004	1,487,330		6,646,978
	2003	2,083,650		10,351,089
Snapdragon	2004	477,810	9.00	1,086,992
	2003	623,480	6.00	1,718,116
Miscellaneous Cut Flowers	2004	1,523,399	1,344.72	36,844,865
	2003	1,473,302	1,365.82	24,284,248
Total Cut Flowers	2004	13,923,151	1,411.88	{104,524,626}
	2003	13,519,994	1,433.39	{87,238,650}
Cut Foliage	2004		8.96	180,209
	2003		10.03	155,024
<b>Potted Plants:</b>				
Foliage	2004	536,548		2,154,486
	2003	1,229,290		2,879,272
Orchid	2004	1,475,717		7,046,971
	2003	1,586,049		6,486,588
Poinsettia	2004	281,600		792,443
	2003	363,600		1,182,622
Miscellaneous Potted Plants	2004	5,788,719	54.63	25,659,985
	2003	3,309,885	15.73	21,228,113

## Nursery Products cont.

	Year	Production Area		Value
		House Sq. Ft.	Field Acres	Total
Other Nursery Products: Includes Herbaceous Perennials, Ground Covers, Turf, Bulbs, Bedding Plants, Vegetable Transplants, Fruit Trees and Vines, Woody Ornamentals, and Ground Covers	2004	1,396,550	483.98	\$35,729,118
	2003	1,414,772	373.97	\$32,314,556
<b>Total</b>	2004	<b>23,402,285</b>	<b>1,959.45</b>	<b>\$176,087,838</b>
	2003	24,951,950	1,752.12	\$151,484,825



## SEED CROPS

	Year	Production			Value		
		Harvested Acreage	Per Acre	Total	Per Unit	Total	
Bean Seed	2004	831	15.52	12,897	CWT	\$79.68	\$1,027,633
	2003	633	15.51	9,818	CWT	\$65.31	\$ 641,214
Flower Seed	2004	578					7,556,051
	2003	651					4,379,685
Vegetable Seed	2004	501					2,256,563
	2003	289					996,629
<b>Total</b>	2004	<b>1,910</b>					<b>\$10,840,247</b>
	2003	1,573					\$ 6,017,528



## LIVESTOCK AND POULTRY

	Year	Production		Unit	Value	
		No. of Head	Total Liveweight		Per Unit	Total
Cattle and Calves	2004	48,648	316,212	CWT	\$90.48	\$28,610,862
	2003	44,225	287,463	CWT	\$81.51	\$23,431,109
Miscellaneous	2004					4,411,900
	2003					4,398,000
Total	2004					\$33,022,762
	2003					\$27,829,109



## LIVESTOCK, POULTRY AND DIARY PRODUCTS

	Year	Production	Unit	Value	
				Per Unit	Total
Milk and Milk Products	2004	421,754	CWT	\$14.83	\$6,254,612
	2003	334,614	CWT	\$12.87	\$4,306,482
Miscellaneous	2004				498,251
	2003				6,060,952
Total	2004				\$6,752,863
	2003				\$10,367,434



## **MISCELLANEOUS CROPS**

### **VEGETABLE CROPS**

**Includes:** Anise, artichoke, arugula, asparagus, beets, brussel sprouts, carrots, chard, Chinese cabbage, cilantro, corn, cucumber, endive, escarole, fava beans, frisee, green beans, herbs, kale, kohlrabi, leeks, lettuce (specialty), mache, mizuma, mustard greens, onions, parsley, parsnips, peppers, potato, radicchio, radish, squash (winter), tomatillo, tomato, turnips and watercress.

### **FIELD CROPS**

**Includes:** Small grains and pea hay.

### **FRUIT AND NUT CROPS**

**Includes:** Apple, almonds, blueberry, cherimoya, kiwi, guava, lime, olive, passion fruit, peach, pears, persimmon, pistachio, raspberry, sapote, and walnut.

### **NURSERY PRODUCTS**

#### **Cut flowers**

**Includes:** Agapanthus, alstromeria, anemone, anthurium, bird of paradise, carnation, celosia, dahlia, freesia, gardenia, gladiola, gypsophlia, hydrangea, iris, kangaroo paw, larkspur, lavender, limonium, lisianthus, misty blue, monte casino, phlox, Queen Anne's lace, ranunculus, solidago, statice, stephanotis, stock, sunflower, sweet pea, tuberose, and tulip.

#### **Potted plants**

**Includes:** Begonia, carnation, chrysanthemum, cyclamen, dahlia, exacum, fuchsia, gardenia, geranium, gerbera, hydrangea, impatiens, lily, and rose.

### **LIVESTOCK AND POULTRY**

**Includes:** Aquaculture, breeding stock, lambs, llamas, and sheep.

### **LIVESTOCK, POULTRY AND APIARY PRODUCTS**

**Includes:** Apiary products (honey, bees wax, pollen, pollination), eggs, fertilizer, and wool.

## MILLION DOLLAR PRODUCTS

### 2004 Ranking

### 2003 Ranking

1	Strawberries	186,066,115	1
2	Broccoli	113,153,407	2
3	Wine Grapes	83,427,478	4
4	Head Lettuce	51,062,252	3
5	Cauliflower	35,790,197	6
6	Celery	31,007,372	7
7	Avocados	29,353,518	5
8	Cattle	28,610,862	9
9	Gerbera cut flowers	21,956,946	10
10	Leaf Lettuce	17,953,657	8
11	Lily cut flowers	17,239,966	12
12	Lemons	11,797,448	14
13	Chrysanthemum cut flowers	11,500,879	11
14	Peas, edible pod	8,553,239	16
15	Summer Squash	7,968,095	19
16	Flower Seed	7,556,051	21
17	Orchid potted plants	7,046,971	17
18	Cabbage	6,867,638	15
19	Rose cut flowers	6,646,978	13
20	Spinach	6,624,705	18
21	Milk	6,254,612	22
22	Orchid cut flowers	5,568,959	20
23	Bell Peppers	2,854,755	24
24	Delphinium cut flowers	2,336,116	26
25	Beans, Dry edible	2,324,089	23
26	Vegetable Seed	2,256,563	---
27	Aster cut flowers	1,342,925	27
28	Snapdragon cut flowers	1,086,992	25
29	Bean Seed	1,027,633	---

## SUMMARY

	<u>YEAR</u>	<u>ACREAGE</u>	<u>FOB VALUE</u>
<b>Vegetables</b>	<b>2004</b>	<b>69,837</b>	<b>\$349,750,241</b>
	2003	70,411	\$376,091,424
<b>Field Crops</b>	<b>2004</b>	<b>603,264</b>	<b>9,410,838</b>
	2003	606,238	11,252,321
<b>Fruit &amp; Nut Crops</b>	<b>2004</b>	<b>34,157</b>	<b>317,027,109</b>
	2003	31,873	274,973,942
<b>Nursery Products</b>	<b>2004</b>	<b>2,497</b>	<b>176,087,838</b>
	2003	2,325	151,484,825
<b>Seed Crops</b>	<b>2004</b>	<b>1,910</b>	<b>10,840,247</b>
	2003	1,573	6,017,528
<b>Livestock and Poultry</b>	<b>2004</b>		<b>33,022,762</b>
	2003		27,829,109
<b>Livestock, Poultry and Apiary Products</b>	<b>2004</b>		<b>6,752,863</b>
	2003		10,367,434
<hr/>			
<b>Total</b>	<b>2004</b>	<b>711,665</b>	<b>\$902,891,898</b>
	2003	712,420	\$858,016,583

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**COMPARATIVE AGRICULTURAL VALUES**

<b>2004.....</b>	<b>\$902,891,898</b>
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
1989.....	481,283,756
1988.....	436,515,018
1987.....	381,670,169
1986.....	348,169,389
1985.....	341,811,369

## SUSTAINABLE AGRICULTURE

### BIOLOGICAL CONTROL EFFORTS

<u>PEST</u>	<u>BIO-CONTROL AGENT</u>	<u>SCOPE OF PROGRAM</u> <sup>(1)</sup>
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 wasp) <i>Aphelinus sp.</i> <i>Diaeretiella rapae</i>	40 acres (Santa Ynez and Santa Maria)+
Woolly Whitefly <i>Aleurothrixus floccosus</i>	Hymenoptera (parasitic wasp) <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 wasp) <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 (Summerland, Carpinteria & Goleta)
Yellow Starthistle <i>Centaurea solstitialis</i>	<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 (Los Padres National Forest) various sites (Los Padres National Forest) 2 sites (Los Padres National Forest) 3 sites (Los Padres National Forest) 2 sites (Los Padres National Forest) 1 site (Los Padres National Forest)

(1) Represents total number of individual sites, acres, etc. incorporated in the program efforts.

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

## Sustainable Agriculture cont.

### BIOLOGICAL CONTROL EFFORTS

<u>PEST</u>	<u>BIO-CONTROL AGENT</u>	<u>SCOPE OF PROGRAM</u>
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 wasp) <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 &amp; lounsburyi</i> <i>Utetes africanus</i>	Various sites (Santa Barbara & Montecito)
Nesting Whitefly <i>Paraleurodes minei</i>	Coleoptera: Coccinellidae <i>Nephaspis sp</i> (a ladybug)	3 sites (Goleta, Santa Barbara & Carpinteria)
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)
Pampas Grass <i>Cortaderia selloana</i>	hand/mechanical removal	118 tons removed

## Sustainable Agriculture cont.

### PEST EXCLUSION

<u>PEST (RATING)</u>	<u>HOST/MECHANISM/ORIGIN</u>	<u>NUMBER/DISPOSITION</u>
<b>SCALE INSECTS:</b>		
Magnolia White Scale (A)	Nursery Stock/Common Carrier/Hawaii	1 Rejected/Destroyed
<i>Pseudaulacaspis cockerelli</i>	Nursery Stock/Common Carrier/Florida	2 Rejected/Destroyed
Lesser Snow Scale (A)	Cut Flowers/Common Carrier/Hawaii	1 Rejected/Destroyed
<i>Pinnaspis strachani</i>		
<b>ANTS:</b>		
an ant (Q)	Cut Flowers/Common Carrier/Hawaii	2 Rejected/Treated
<i>Pheidole</i> sp.		
<b>WHITEFLYS:</b>		
Croton Whitefly (Q)	Cut Flowers/Common Carrier/Hawaii	2 Rejected/Destroyed
<i>Orchamoplatus mammaeferus</i>		

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.

### ORGANIC FARMING

**60 Organic Farms were registered in Santa Barbara County in 2004. 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, mizuma, mushrooms, mustard greens, nopales, 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, raspberry, sapote, strawberry, tangelo, tangerine, and watermelon.

#### FIELD CROPS

**Includes:** Pasture and rangeland.

#### NURSERY PRODUCTS

**Includes:** Cactus, potted plants, and potted herbs.

# DEPARTMENT STAFF

## **Commissioner/ Director**

William D. Gillette

## **Deputy Commissioners**

Joe Karl     Guy Tingos

## **Entomologist**

Jerry Davidson

## **Plant Pathologist**

Heather Scheck

## **Supervising Agricultural Biologist**

Debbie Trupe

## **Supervising Weights and Measures Inspector**

Diane Green

## **Agricultural Program Specialist**

David Chang

## **Business Manager**

Elena Morelos

## **Computer System Specialist**

Gus Maio

## **Administrative Staff**

Judi Douglass     Jennifer Kam

Joyce Kougl     Traci Lewis

## **Weights and Measures Inspectors**

Dennis Gibson     Rod Ross

## **Agricultural Biologists**

Susan Bryant	Harriet Heath
Alma Cangelosi	Lottie Martin
Mike Champion	Ken Masuda
Kevin Cheesman	Mary Ann Rajala
Elizabeth Davis	Mike Roberts
Tom Donlon	Jeff Saleen
Maria Grijalva	Stephanie Stark





# Agricultural Commissioner's Office

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William D. Gillette  
Commissioner / Director