2008 Crop Statistics & Annual Report



Department of Agriculture, Weights & Measures

Cover Photo Credits: The 2008 Crop Statistics and Annual Report was produced by Deputy "Oranges by Dad" by phxpma Agricultural Commissioner/Sealer Dawn Nielsen and Agricultural Inspector "Bee and Orange Blossom" by RobW Marcia Milam with assistance from GIS Analyst John Taylor. "navel oranges 99c LB" by Robert S Donovan Printed on recycled paper

ROBERT G. ATKINS

AGRICULTURAL COMMISSIONER/ SEALER OF WEIGHTS AND MEASURES



DEPARTMENT OF AGRICULTURE, WEIGHTS AND MEASURES

5555 Overland Avenue, Suite 3101, San Diego, CA 92123-1256 http://www.sdcawm.org AGRICULTURE (858) 694-2739 FAX (858) 495-5012

WEIGHTS & MEASURES

(858) 694-2778 FAX (858) 505-6484

COUNTY VETERINARIAN (858) 694-2838 FAX (858) 571-4268

SAN MARCOS OFFICE (760) 752-4700 FAX (760) 752-4703

A.G. Kawamura, Secretary
California Department of Food and Agriculture
and

The Honorable Board of Supervisors of the County of San Diego Supervisor Dianne Jacob, Chairwoman, 2nd District Supervisor Pam Slater-Price, Vice Chairwoman, 3rd District Supervisor Greg Cox, 1st District Supervisor Ron Roberts, 4th District Supervisor Bill Horn, 5th District

I respectfully submit the 2008 report of acreage, yield, and value of agricultural production for San Diego County. This report also contains the annual report of the many diverse programs within the Department of Agriculture, Weights and Measures that support the County's focus on children, the environment, and safe and livable communities.

Despite drought and a slowing economy, the total value of San Diego County agriculture increased 1% over 2007 for a final dollar value of \$1,552,221,674. This is mainly due to an increase in value for a few key crops. Cut flowers, avocados, citrus and eggs contributed greatly to the final value, as well as herbs, which made it into the Top Ten crops for the first time in 2008.*

San Diego County's unique topography creates a wide variety of microclimates resulting in nearly 30 different types of vegetation communities. This diversity allows for San Diego to grow over 200 different agricultural commodities - from strawberries and tomatoes along the coast, to apples in the mountain areas, to palm trees in the desert. The diversity and success of San Diego County's agricultural industry is reflected in the 37 crops with a value of over \$1 million.

This report would not be possible without the many farmers, ranchers, and nurserymen and women who provide the information vital to this report. In addition, I would like to thank industry groups for their support in the compilation of these statistics. Additionally, recognition should be given to the dedicated Agriculture, Weights and Measures staff who continually strive to provide our customers with superior service.

Sincerely,

Robert G. Atkins

Agricultural Commissioner/ Sealer of Weights and Measures

* All reported figures represent Freight on Board (F.O.B.) values for products. These are not net values and do not reflect cost of production. Total values may not add precisely due to rounding. Gross value of farm products does not reflect the total value to the economy.

Summany of Major Crops_

Total Value	\$1,552,221,674
Change in Value from 2007	\$15,791,701
Percent Change	+1.0%
Total Acreage	312,766
Change in Acreage from 2007	3,775
Percent Change	+1.2%
Highest Value Crop, Per Acre	Indoor Flowering & Foliage Plants
Value Per Acre	\$498,564
Lowest Value Crop, Per Acre	Oat Grain
Value Per Acre	\$15

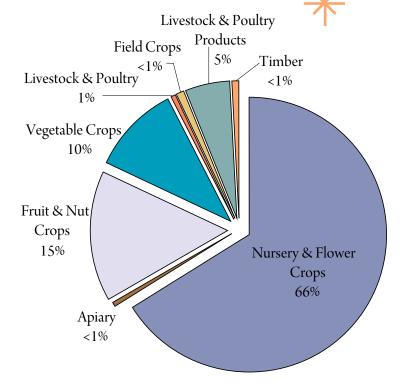
Overview of Changes

Indoor Flowering and Foliage Plants remains the number one crop in San Diego County although decreasing slightly in value (1%) to \$319,080,960. Ornamental Trees and Shrubs, which last year came in a close second, slipped a bit more (5%) to \$304,336,245. Overall acreage for nurseries and cut flowers increased slightly while the total value stayed nearly flat, increasing only 1%. In 2008, the total value for all nursery products (including cut flowers and foliage) topped the one billion dollar mark for the second year in a row, totaling \$1,042,703,756.

Fruit and Nut Crops increased in acreage (1%), and increased in value (4%). Avocados remain the largest fruit crop, increasing significantly this year (14%). Strawberries, however, decreased significantly in both acreage and value (48% each). This is attributed to improved data gathering.

Vegetables and Vine Fruits increased both in value (2%) and acreage (5%) this past year. Herbs increased in value (39%), pushing it into the Top Ten crops for San Diego County.

Major Crop Pencentages



Livestock and Poultry decreased in value (39%), primarily as a result of the decrease in the price and number of cattle. Ratites and ratite products decreased significantly (-93% and -57%, respectively), as there were no reported sales for ratite chicks or hides for 2008. However, due to the increase in the price and number of eggs, Livestock and Poultry Products overall increased in value (17%).

mparisons of Major Crops Two Year Comparison \$1,050 2007 \$1,000 Value Value Acres Acres \$950 Nursery & Flower Crops 10,670 \$1,042,703,756 9,836 \$1,042,461,078 Fruit & Nut Crops 43,624 \$239,810,088 46,180 231,160,982 \$900 Vegetable Crops 7,228 \$163,027,398 6,888 \$159,549,612 \$850 Field Crops 251,244 \$4,599,445 246,087 \$5,299,084 Apiary \$3,186,328 \$3,423,868 \$800 Timber \$870,000 \$749,310 \$750 Livestock & Poultry \$12,575,250 \$20,461,957 \$85,449,409 Livestock & Poultry Products \$73,324,083 \$700 Totals 312,766 \$1,552,221,674 308,991 \$1,536,429,973 1 en Year Comparison \$500 1998 \$450 Value Value Acres Acres \$1,042,703,756 \$722,186,252 Nursery & Flower Crops 10,670 8,337 \$400 Fruit & Nut Crops 43,624 \$239,810,088 44,855 225,669,472 Vegetable Crops 7,228 \$163,027,398 12,563 \$128,472,996 Field Crops 106,507 251,244 \$4,599,445 \$6,147,451 \$350 Apiary \$3,186,328 \$1,157,229 Timber \$870,000 \$556,588 \$300 Livestock & Poultry \$12,575,250 \$15,634,166 Livestock & Poultry Products \$85,449,409 \$78,623,079 Totals 312,766 \$1,552,221,674 172,262 \$1,178,447,233 \$250 \$200 \$150 2008 \$100 1998 \$50 \$0 Apiary Crops Nursery & Fruit & Nut Timber Crops Livestock Flower Crops Poultry & Poultry Products Crop Comparison 1998 to 2008

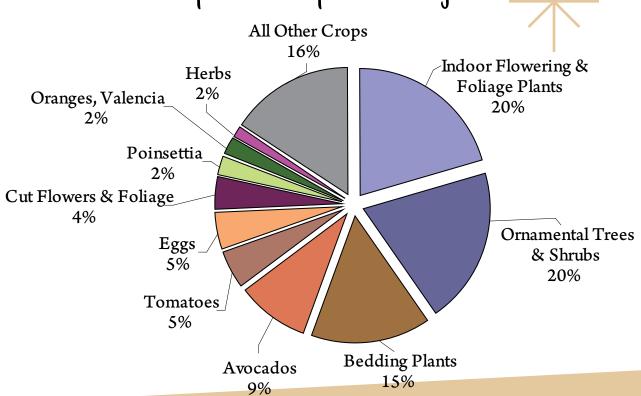
Top Ten Crops



	2008	2007	1998
Indoor Flowering & Foliage Plants	\$319,080,960	\$322,339,342	\$295,878,756
Ornamental Trees & Shrubs	\$304,336,245	\$321,830,298	\$129,986,578
Bedding Plants	\$237,288,380	\$237,048,120	\$146,565,455
Avocados	\$144,694,905	\$127,099,496	\$136,500,282
Tomatoes	\$74,241,799	\$88,061,693	\$35,313,316
Eggs	\$70,764,375	\$56,338,333	\$55,432,079
Cut Flowers & Foliage	\$67,455,433	\$60,204,650	\$81,326,059
Poinsettia	\$38,671,854	\$38,794,400	\$31,254,654
Oranges, Valencia	\$26,875,129	\$26,891,110	\$27,008,583
Herbs	\$23,555,340	\$17,000,948	\$22,385,918
All Other Crops	\$245,257,255	\$240,821,584	\$216,795,553



Top Ten Crop Pencentages





What Makes San Diego Agriculture Unique?

- San Diego County is the most southwestern county in the United States with a geographic area of 4,200 square miles, approximately the size of Connecticut, and a population of more than 3 million.
- The National Weather Service describes the San Diego climate as the most nearly perfect in America, characterized as Mediterranean, with warm winters and cool summers.
- San Diego County's varied topography creates a wide fluctuation of microclimates resulting in nearly 30 different types of vegetation communities. This diversity allows San Diego to grow over 200 different agricultural commodities from strawberries and tomatoes along the coast, to apples in the mountain areas, to palm trees in the desert.



• San Diego County has the 6th highest urban population among counties in the United States, but the County also has the 16th largest agricultural economy.

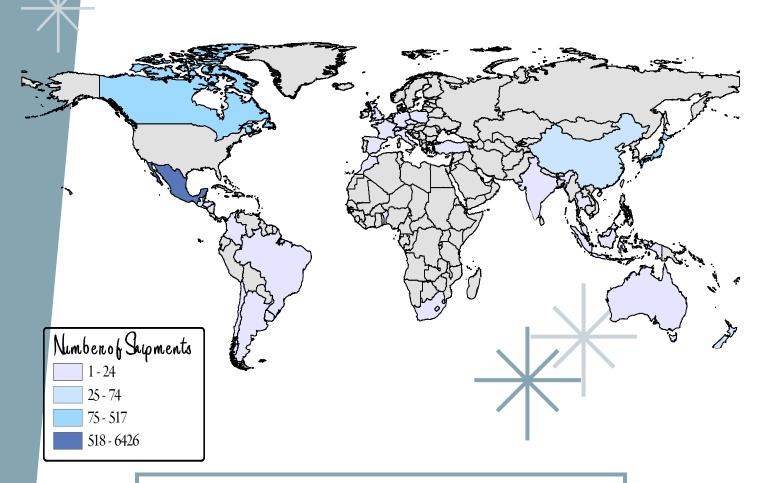


- Nearly 27% of farms in San Diego County are operated by women.
- Agriculture in San Diego County covers 312,766 acres and is a key contributor to San Diego County's economy, along with Defense, Manufacturing, Tourism and Biotechnology.
- San Diego County has 6,687 farms, more than any other county in the United States!!
- 68% of San Diego County farms are 1-9 acres. A median size farm in San Diego is only 4 acres!
- The high cost of water and land makes farming in San Diego County expensive and encourages growers to raise products with a high dollar value per acre.
- San Diego County ranks number one in both California and the nation in the production value of nursery, floriculture, and avocados.
- Statewide, San Diego County is in the top five in the production of avocados, oranges, lemons, grapefruit, tangerines, floriculture, nursery, eggs, fresh market tomatoes, mushrooms, and honey.
- San Diego County produces the highest dollar value per acre (\$4,963/acre) of any county in California.
- San Diego County has the largest community of organic growers in the state and nation, with 343 farms growing more than 150 crops!



Trading Partners





60 Countries, 8065 Shipments

Argentina	4	El Salvador	3	Korea	17	Puerto Rico	74
Australia	21	European Union	1	Kuwait	2	Qatar	1
Bahamas	7	France	2	Macau	7	Saint Martin	1
Barbados	1	French Polynesia	3	Malaysia	4	Singapore	10
Benin	1	Germany	20	Malta	1	South Africa	12
Bermuda	47	Guadeloupe	1	Martinique	1	Spain	5
Brazil	1	Guam	15	Mauritius	1	Switzerland	1
Canada	517	Guatemala	43	Mexico	6,426	Taiwan	36
Chile	4	Honduras	9	Micronesia	3	Thailand	4
China	65	India	2	Morocco	1	Trinidad & Tobago	5
Colombia	8	Indonesia	3	Netherlands	7	Turkey	4
Costa Rica	24	Israel	17	New Zealand	48	United Kingdom	14
Cyprus	1	Italy	8	N. Mariana Islands	1	Uruguay	2
Czech Republic	1	Jamaica	8	Philippines	1	Vietnam	4
Denmark	2	Japan	513	Poland	4		
Dominican Repub	olic 16	_					



Nunsery Crops

J	<u> </u>		
Сгор		Acres	Total
Bedding Plants, Color	2008	980	\$237,288,380
	2007	920	\$237,048,120
Bulbs, Corms, Rhizomes, Roots, Tubers	2008	185	\$3,409,920
	2007	165	\$3,617,295
Cacti & Succulents	2008	235	\$20,201,775
	2007	216	\$17,489,088
Citrus, Avocado, & Subtropical Fruit Trees	2008	275	\$15,071,100
	2007	235	\$13,120,990
Herbaceous Perennials	2008	382	\$26,878,284
	2007	330	\$19,414,890
Indoor Flowering & Foliage Plants	2008	640	\$319,080,960
	2007	598	\$322,339,342
Ornamental Trees & Shrubs	2008	3,765	\$304,336,245
	2007	3,502	\$321,830,298
Poinsettia	2008	142	\$38,671,854
	2007	142	\$38,794,400
Miscellaneous Nursery Products*	2008	605	\$10,309,805

Nunsery & ** Cut Flower Crops

Cut Flower & Foliage Crops

Crop		Acres	Total
Leptospermum	2008	396	\$1,898,028
	2007	332	\$1,801,764
Proteas	2008	550	\$3,437,500
	2007	500	\$3,466,140
Wax Flowers	2008	770	\$5,357,660
	2007	705	\$4,722,090
Other Cut Flowers	2008	950	\$36,846,700
	2007	890	\$36,628,882
Foliage	2008	795	\$19,915,545
	2007	710	\$13,585,774

Nursery & Cut Flower Totals

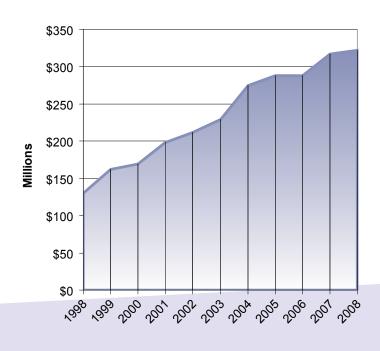
	Year	Acres	Total
Nursery	2008	7,209	\$975,248,323
	2007	6,699	\$982,256,428
Cut Flowers	2008	3,461	\$67,455,433
& Foliage	2007	3,317	\$60,204,650
Total	2008	10,670	\$1,042,703,756
	2007	9,836	\$1,042,461,078

Value of Ornamental Trees & Shrubs

2007

591

\$8,602,005







San Diego Agriculture Quick Fact

San Diego County ranks #1 out of 2,703 counties in the United States that produce Nursery, Greenhouse, Floriculture and Sod crops.

*Includes Turf and Cut Christmas Trees

Fruit & Nut Crops

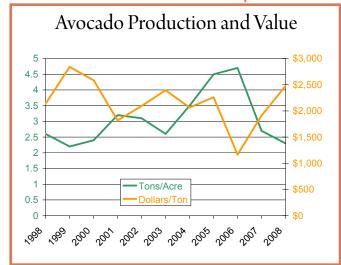


Crop	Year	Acres	Tons /Acre	Tons Total	US\$ /Ton	Total
Apples	2008	270	1.5	405	814	\$329,670
	2007	442	1.1	486	723	\$351,523
Total Avocados	2008	26,549		59,805		\$144,694,905
	2007	26,064		67,002		\$127,099,496
Hass	2008	24,506	2.3	56,364	2,476	\$139,556,769
	2007	24,208	2.7	65,362	1,910	\$124,840,656
Lamb-Hass	2008	1,100	2.1	2,310	1,852	\$4,278,120
	2007	995	1.0	995	1,812	\$1,802,940
Other	2008	943	1.2	1,132	760	\$860,016
	2007	861	0.8	646	706	\$455,900
Berries, Misc.	2008	221	6.4	1,414	4,400	\$6,223,360
	2007	127	9.4	1,194	4,350	\$5,193,030
Total Citrus	2008	14,650		216,092		\$64,586,235
	2007	14,464		205,051		\$60,450,517
Total Grapefruit	2008	2,217	16.8	37,246		\$7,351,129
	2007	2,145	17.4	37,323		\$6,535,386
Fresh Market	2008		12.7	28,156	233	\$6,560,325
	2007		13.2	28,314	206	\$5,832,684
Byproduct	2008		4.1	9,090	87	\$790,804
	2007		4.2	9,009	78	\$702,702

Crop	Year	Acres	Tons /Acre	Tons Total	US\$ /Ton	Total
Kumquats	2008	219	2.5	548	1,595	\$873,263
	2007	224	3.0	672	1,764	\$1,185,408
Total Lemons	2008	3,922	12.6	49,417		\$20,047,695
	2007	3,743	12.8	47,910		\$17,852,613
Fresh Market	2008		8.5	33,337	543	\$18,101,991
	2007		8.6	32,190	496	\$15,966,141
Byproduct	2008		4.1	16,080	121	\$1,945,704
	2007		4.2	15,721	120	\$1,886,472
Total Limes	2008	357	10.5	3,749		\$1,170,068
	2007	351	10.8	3,791		\$1,079,430
Fresh Market	2008		6.5	2,321	455	\$1,055,828
	2007		6.9	2,422	405	\$980,870
Byproduct	2008		4.0	1,428	80	\$114,240
	2007		3.9	1,369	72	\$98,561



At a Glance...10 Years of Avocados





Year	Value of Avocados	Value of Agricuture	% of Total
1998	\$136,500,282	\$1,178,447,233	11.6%
1999	\$147,846,527	\$1,236,343,113	12.0%
2000	\$149,549,586	\$1,254,509,514	11.9%
2001	\$138,624,103	\$1,289,741,407	10.7%
2002	\$152,277,067	\$1,297,278,470	11.7%
2003	\$146,171,423	\$1,351,225,412	10.8%
2004	\$175,006,539	\$1,462,117,741	12.0%
2005	\$251,452,135	\$1,531,541,236	16.4%
2006	\$137,305,800	\$1,461,665,261	9.4%
2007	\$127,099,496	\$1,536,429,974	8.3%
2008	\$144 694 905	\$1 552 221 674	0.3%



Fruit & Nut Crops

Crop	Year	Acres	Tons /Acre	Tons Total	US\$ /Ton	Total
Total Navels	2008	1,472	11.2	16,486		\$4,296,768
	2007	1,420	10.6	15,052		\$3,721,820
Fresh Market	2008		7.5	11,040	330	\$3,643,200
	2007		7.1	10,082	310	\$3,125,420
Byproduct	2008		3.7	5,446	120	\$653,568
	2007		3.5	4,970	120	\$596,400
Total Valencias	2008	5,531	17.2	95,133		\$26,875,129
	2007	5,632	15.4	86,733		\$26,891,110
Fresh Market	2008		12.9	71,350	336	\$23,973,566
	2007		11.3	63,642	379	\$24,120,166
Byproduct	2008		4.3	23,783	122	\$2,901,563
	2007		4.1	23,091	120	\$2,770,944
Total Tangerines	2008	932	14.5	13,514		\$3,972,184
	2007	949	14.3	13,571		\$3,184,749
Fresh Market	2008		11.0	10,252	355	\$3,639,460
	2007		10.7	10,154	281	\$2,853,358
Byproduct	2008		3.5	3,262	102	\$332,724
	2007		3.6	3,416	97	\$331,391

Crop	Year	Acres	Tons /Acre	Tons Total	US\$ /Ton	Total
Grapes, Wine	2008	365	1.7	621	1,021	\$633,531
	2007	328	1.9	623	995	\$620,084
Macadamia Nuts	2008	63	0.7	44	2,871	\$126,611
	2007	61	0.9	55	3,458	\$189,844
Misc Fruit & Nuts*	2008	707				\$5,186,552
	2007	538				\$4,298,620
Persimmons	2008	354	5.5	1,947	841	\$1,637,427
	2007	420	6.1	2,562	643	\$1,647,366
Total Strawberries	2008	445	33.8	15,041		\$16,391,798
	2007	863	34.7	29,947		\$31,310,503
Fresh Market	2008		19.5	8,678	1,482	\$12,860,055
	2007		20.2	17,433	1,430	\$24,928,618
Processing	2008		14.3	6,364	555	\$3,531,743
	2007		14.5	12,514	510	\$6,381,885

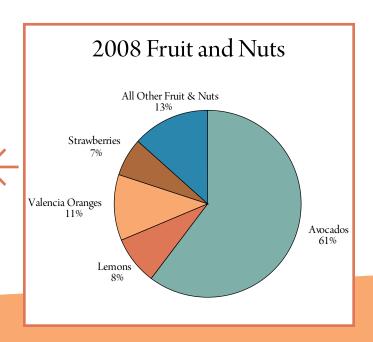
Total Fruit & Nuts

Year	Acres	Total
2008	43,624	\$239,810,088
2007	43,307	\$231,160,982



San Diego Agriculture Quick Fact

According to the USDA's 2007 Census of Agriculture, the number of farms in San Diego County increased 27% between 2002 and 2007, from 5,255 to 6,687.



Vegetable Crops*



Crop	Year	Acres	Tons /Acre	Tons Total	US \$ /Ton	Total
Beans, Snap	2008	306	5.4	1,652	\$1,330	\$2,197,692
	2007	296	7.2	2,131	\$1,404	\$2,992,205
Bunch Veg.*	2008	885				\$7,801,275
	2007	583				\$4,908,568
Corn, Sweet	2008	144	7.6	1,094	\$472	\$516,557
	2007	176	7.8	1,373	\$656	\$900,557
Cucumbers	2008	339	16.4	5,560	\$518	\$2,879,873
	2007	347	16.8	5,830	\$780	\$4,547,088
Herbs	2008	482	18.0	8,676	\$2,715	\$23,555,340
	2007	359	18.2	6,534	\$2,602	\$17,000,948
Lettuce	2008	580	11.0	6,380	\$519	\$3,311,220
	2007	590	10.8	6,372	\$600	\$3,823,200
Melons	2008	166	4.8	797	\$318	\$253,382
	2007	144	4.5	648	\$430	\$278,640
Mushrooms	2008	19	132.0	2,508	\$3,240	\$8,125,920
	2007	19	170.0	3,230	\$3,155	\$10,190,650
Oriental Veg.**	2008	67				\$549,534
	2007	61				\$585,710
Peppers	2008	188	18.1	3,403	\$730	\$2,484,044
	2007	154	18.2	2,803	\$688	\$1,928,326

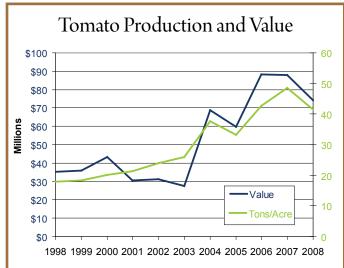
Crop	Year	Acres	Tons /Acre	Tons Total	US\$ /Ton	Total
Potatoes	2008	603	12.5	7,538	\$367	\$2,766,263
	2007	603	16.5	9,950	\$200	\$1,989,900
Squash	2008	241	10.7	2,579	\$594	\$1,531,748
	2007	355	10.8	3,834	\$652	\$2,499,768
Tomatoes	2008	2,179	41.5	90,429	\$821	\$74,241,799
	2007	2,313	48.5	112,181	\$785	\$88,061,693
Misc Veg.***	2008	1,029				\$32,812,752
1	2007	888				\$19,842,360

Total Vegetables Year Acres Total 2008 7,228 \$163,027,398 2007 6,888 \$159,549,612

**At a Glance...10 Years of Tomatoes

Year	Value	Tons/Acre
1998	\$35,313,316	17.9
1999	\$35,803,562	18.3
2000	\$43,372,452	20.2
2001	\$30,578,337	21.3
2002	\$31,071,677	23.9
2003	\$27,481,381	25.9
2004	\$68,858,898	37.6
2005	\$59,729,263	33.2
2006	\$88,378,386	42.6
2007	\$88,061,693	48.5
2008	\$74,241,799	41.5





Includes Collards, Green Onions, Mustard and Turnip Greens, Parsley, Radishes and Spinach Includes Bamboo Shoots, Bok Choy, Chinese Greens, Daikon, Gai Choy, Gai Lon and Snap Peas Includes Cauliflower, Celery, Chayote, Sweet Potatoes, Tomatillos and Others



Field & Specialty **Total Total Total

Field Crops

Crop	Year	Acres Harvested	Tons/ Acre	Tons Total Production	US \$ /Ton	Total
Barley, Grain	2008	250	1.1	275	160.00	\$44,000
	2007	900	1.2	1,080	148.00	\$159,840
Greenchop	2008	85	22.0	1,870	27.00	\$50,490
	2007	85	21.5	1,828	27.20	\$49,708
Hay, Oat	2008	1,000	1.3	1,300	92.00	\$119,600
	2007	1,000	1.2	1,200	71.00	\$85,200
Oat, Grain	2008	250	0.1	25	150.00	\$3,750
	2007	275	0.1	28	140.00	\$3,850
Pasture, Irrigated	2008	1,560			1,880.00	\$2,932,800
	2007	1,905			1,880.00	\$3,581,400
Range	2008	248,072			5.80	\$1,438,818
	2007	241,882			5.80	\$1,402,916
Silage	2008	27	13.7	370	27.00	\$9,987
	2007	40	14.7	588	27.50	\$1 <mark>6</mark> ,170

Total Field							
Year	Acres	Total					
2008	251,244	\$4,599,445					
2007	246,087	\$5,299,084					



San Diego Agriculture Quick Fact

In 2007, San Diego bee keepers produced over a million pounds of honey! San Diego ranks 5th in the state for honey production.



	,	
Timber	2008	\$120,000
	2007	\$170,000
Firewood	2008	\$750,000
	2007	\$579,310

Total Timber				
Year	Total			
2008	\$870,000			
2007	\$749,310			





Apiany Crops

Crop	Year	Value
Honey	2008	\$2,001,886
	2007	\$2,206,236
Bees Wax	2008	\$62,997
	2007	\$54,222
Bees & Queens	2008	\$150,200
	2007	\$166,889
Pollen	2008	\$65,810
	2007	\$84,971
Pollination	2008	\$905,435
	2007	\$911,550

Total .	Apiary
Year	Total
2008	\$3,186,328
2007	\$3,423,868

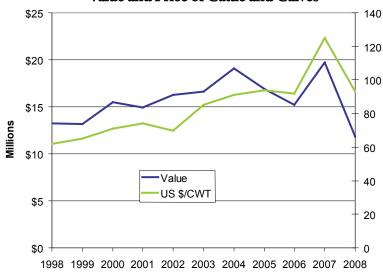
Lwestock, Poultry & Products



Livestock & Poultry

Crop	Year	Number of Head	Total CWT*	US \$/ CWT	Total
Cattle and Calves	2008	17,000	127,500	\$92.90	\$11,844,750
	2007	21,000	157,500	\$125.00	\$19,687,500
Hogs and Pigs	2008	800	2,000	\$48.00	\$96,000
	2007	1,300	3,250	\$48.80	\$158,600
Chickens	2008	557,500	22,300	\$24.00	\$535,200
	2007	557,500	22,300	\$20.00	\$446,000
Ratites Total	2008				\$8,000
	2007				\$118,000
Chicks	2008	0		n/a	\$0
	2007	550		\$110.00	\$60,500
Meat	2008	1,000 I	bs	\$8.00	\$8,000
	2007	10,000 ll	bs	\$5.75	\$57,500
Lambs and Sheep	2008	1,000	1,000	\$91.30	\$91,300
	2007	573	573	\$90.50	\$51,857

Value and Price of Cattle and Calves



Total Livestock & Poultry Year Number Total 2008 576,300 \$12,575,250

580,923

2007

San Diego Agriculture Quick Fact

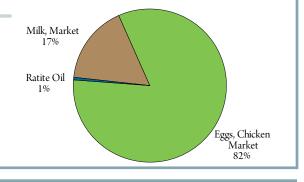
With more than 2 million "layers," San Diego County ranks 3rd in the state for numbers of egg-laying chickens.

**Livestock & Poultry Products

Сгор	Year	Number		Total CWT	US \$ /Unit	Total
Milk, Market	2008			816,582	\$17.31	\$14,135,034
	2007			840,718	\$18.67	\$15,699,000
Eggs, Chicken Market	2008	70,764,375	dz		\$1.00	\$70,764,375
	2007	64,020,833	dz		\$0.88	\$56,338,333
Ratite Products Total	2008					\$550,000
	2007					\$1,286,750
Hides	2008	0			n/a	\$0
	2007	50			\$135.00	\$6,750
Ratite Oil	2008	1,100	gal		\$500.00	\$550,000
	2007	1,000	gal		\$1,280.00	\$1,280,000

Livestock and Poultry Products

\$20,461,957



Total Livestock & Poultry Products

Year Total

2008 \$85,449,409

2007 \$73,324,083

Oun Ginl Friday

Benjamin Franklin said, "An ounce of prevention is worth a pound of cure." In 2008, San Diego County gained not just an ounce of prevention, but 60 pounds of it! This past year, we welcomed Friday, a 3-yearold female black Labrador retriever, our newest tool in the search for unmarked and often illegal agricultural products. Without proper certification and inspection, these products enter the county bringing unwanted disease and insect pests. Once these pests are here, it is difficult and expensive to control the resulting damage. The best way to prevent damage to our crops is to stop agricultural pests from entering the county in the first place.

Historically, man's best friend has performed many roles for people, such as hunting, herding, protection, and assisting handicapped individuals. But today, the dog's nose is cutting edge technology and has aided in sniffing out all sorts of things: bombs hidden in luggage, mold or termites buried deep in your house, and diseases such as diabetes and cancer in humans. Dogs' noses have nearly 220 million smell-sensitive cells compared to man's five million smell cells, giving them such a superior sense of smell. Add the fact that dogs are great team players and you have the perfect sleuthing pal.

Like many dogs used in sleuthing jobs, Friday came from humble beginnings and was rescued from an animal shelter. The USDA tests and rejects hundreds of dogs just to find a single candidate to undergo the rigors of the training. Friday was the star pupil of her class. She met her partner, Inspector Jeremy Partch, in October of 2008, and the two of them



Friday and her partner, Jeremy Partch

Friday, hard at work

completed a ten-week training course at the USDA's National Detection Dog Training Center in Orlando, Florida. Initially, Friday was trained to detect fruit such as citrus, mango, guava, and apples. As her training continues, she has added additional scents to her repertoire. She has also learned to walk on conveyor belts and search vehicles to detect illegal or unmarked plant material.

Friday arrived during a year when two quarantines were enacted in San Diego County: Asian Citrus Psyllid (ACP) and Mediterranean Fruit Fly (MFF). During the summer of 2008, a small population of ACP was found in San Diego County. An aggressive control and quarantine program was implemented to protect local and statewide growers from this invasive pest. ACP carries the deadly bacterial

disease called "citrus greening". Fortunately, this disease has not been found in California. Last November, Mediterranean Fruit Fly (MFF) was found in the El Cajon area of San Diego County and a quarantine was implemented which included treatments, increased trapping and sterile fly releases. The female MFF can lay eggs in more than 250 fruits and vegetables and the burrowing larvae render the fruit inedible.

San Diego County was one of three counties in California awarded a contract for a canine inspection team by the California Department of Food and Agriculture. As part of the team, Friday inspects packages at a variety of parcel terminals. In the past, parcel inspections have been limited to an inspector's ability to recognize suspicious packages, which are often designed to conceal their contents. Statewide in 2008, dog teams intercepted 972 unmarked packages containing plant material. Sixty four pests were found, and 54 were found to be of significant concern, having either an A or Q rating.

We are excited to have such an effective resource in the effort to protect San Diego County's \$1.5 billion agricultural industry. She is truly our girl Friday.



Friday, sitting pretty for the camera

ustainable

The California Department of Food and Agriculture (CDFA) defines A-rated pests as organisms of known economic importance, subject to state-enforced action involving eradication, quarantine, containment, rejection, or other holding action.

A-Rated Pest Finds

Allopeas clavulinum, Allopeas Snail Aspidiotus destructor, Coconut Scale Bactrocera dorsalis, Oriental Fruit Fly Bactrocera oleae, Olive Fruit Fly Ceratitis capitata, Mediterranean Fruit Fly Ceroplastes floridensis, Florida Wax Scale Ceroplastes rubens, Red Wax Scale Ceroplastes rusci, Fig Wax Scale Ceroplastes sp, Wax Scale *Chrysodeixis eriosoma*, Green Garden Looper Chrysomphalus aonidum, Florida Red Scale Coccus viridis, Green Scale Diaprepes abbreviatus, Diaprepes Root Weevil Fusarium oxysporum, Fusarium Wilt Howardia biclavis, Mining Scale Hydrilla verticillata, Hydrilla Pinnaspis strachani, Lesser Snow Scale Pseudaulacaspis cockerelli, Magnolia White Scale 10 *Pseudaulacaspis pentagona*, White Peach Scale Pseudococcus citriculus, Citriculus mealybug Radopholus similis, Burrowing Nematode Solenopsis invicta, Red Imported Fire Ant







Mediterranean Fruit Fly

The CDFA defines Q-rated pests as organisms requiring a temporary 'A' action, pending determination of a permanent rating. The organism is suspected to be of economic importance, but its status is uncertain because of incomplete identification or inadequate information.

tgriculture**

4	Q-Ro	ited f	Pest Finds	
18				
2	Agaillia sp, Leafhopper	5	Pheidole sp, Ant	1
2	Aulacaspis yasumatsui, Cycad Aulacaspis Scale	3	Phytophthora ramorum, Sudden Oak Death	1
1	Carausius morosus, Indian Walking Stick	1	<i>Pinnaspis buxi</i> , Boxwood Scale	1
3	Ceroplastes sp, Wax Scale	28	Puccinia horiana, Chrysanthemum White Rust	1
1	Cicadellidae, Sharpshooter egg masses	2	Ripersiella sp, Root Mealybug	8
1	Coloeptera sp, Wood-boring Beetles	3	Succineidae sp, Amber Snail	7
1	Diaphorina citri, Asian Citrus Psyllid	1,082	Uromyces transversalis, Gladiolus Rust	1
1	Euphyllura olivina, Olive Psyllid	2	Vinsonia stellifera, Stellate Scale	1
5	Fulgoroidae sp, Planthopper	1	Xiphinema sp, Dagger Nematode	1
02	Halyomorpha halys, Marmorated Stink Bug	1	Zachrysia provisoria, Cuban Land Snail	4
1	Klambothrips myopori, Myoporum Thrips	31	Various Lepidoptera	5
1	Palmicultor lumpurensis, Bamboo Mealybug	19	Various Mealybugs	7
1	Palmicultor palmarum, Palm Mealybug	1	Various Scales	4
7	Peronospora sp, Downy Mildew	2	Various Snails	6



Yellow Starthistle



3

2

13

1

Purple Loosestrife



Pest Management Technicians spraying Perennial Pepperweed

Invasive Weed Control Activities

Weed	Rating	Removal Methods	Scope of Treatment
Spotted Knapweed Centaurea biebersteinii	A	Herbicides Hand Removal	3 Sites, 10.2 Acres
Purple Loosestrife <i>Lythrum salicaria</i>	В	Herbicides Hand Removal	2 Sites, 1 Acre
Perennial Pepperweed Lepidium latifolium	В	Herbicides Hand Removal	18 Sites, 215 Acres
Tamarisk <i>Tamarix ramosissima</i>	В	Herbicides	1 Site, 32.9 Acres
Cape Ivy <i>Delairea odorata</i>	С	Herbicides	1 Site, 0.2 Acres
Yellow Starthistle Centaurea solstitialis	С	Herbicides Hand Removal	8 Sites, 14 Acres

*Programs and Senucces

Pest Detection is a critical component of the statewide pest prevention network, providing an early warning system designed to detect the introduction and prevent the establishment of harmful insect pests such as fruit flies, Japanese beetle, and Gypsy moth. In 2008, a total of 253,909 trap inspections were conducted.



Pesticide Regulation is responsible for the implementation of state and federal pesticide laws and regulations. Inspections, investigations, and permits ensure pesticides are used in a responsible manner that protects the environment, the public and the employees of businesses that handle pesticides. Highlights for 2008:

- Successfully supported industry's legislative efforts to include San Diego County in the Structural Fumigation Enforcement Program.
- Completed over 1,100 pesticide use monitoring inspections to assess and document whether
 pesticide use activities were in compliance with laws designed to assure safety of handlers, field
 workers, the public and the environment.
- Presented four Fieldworker Training sessions in Spanish at various locations throughout the county to help growers ensure worker safety.

Agricultural Water Quality carries out the requirements of the County's Stormwater Permit, issued by the San Diego Regional Water Quality Control Board (RWQCB) and provides hazardous materials information for first responders and citizens. Education, inspections and investigations are aimed at reducing contaminants in local waterways. Inspections focus on "high priority commercial facilities," including nurseries, greenhouses, agricultural and structural pest control businesses, and equestrian facilities. Highlights for 2008:

- Improved compliance with Stormwater Training requirements by developing a forms package to simplify training and documentation and decreased need for on-site re-inspections by using new "Return to Compliance" documentation form.
- Completed a vision session with Department of Public Works to streamline stormwater inspections.

Integrated Pest Control performs eradication and control of invasive weeds such as spotted knapweed, tamarisk, and perennial pepperweed. Other activities include rodent bait production and weed control on roadsides, airports, flood control channels, sewage treatment plants and inactive landfills. In 2008:

- 3,062 acres of weed control performed on County roadsides and airports.
- 176 County-operated facilities received structural pest control.
- 20,854 pounds of rodent bait manufactured.

Cwil Actions serves as an advocate at hearings for violations found by inspectors in all programs. In 2008, a total of 402 cases were completed in the following categories:

- Certified Farmers' Market Actions: 21
- Structural Pesticides Actions: 35
- Standards Enforcement Actions: 290
- Quarantine Actions:
- Agricultural Pesticide Actions: 53
- Organics Program Actions: 2

Plant Health and Pest Prevention performs annual inspections of nurseries throughout the county to ensure cleanliness and proper licensing, certifies that San Diego's outgoing agricultural products meet the plant cleanliness requirements of the importing country, state or county and inspects shipments of produce and plants coming into San Diego County from other countries and states for exotic pests. Highlights for 2008:

- 8,694 acres of nursery stock inspected at 632 production facilities.
- 65 new nurseries licensed.
- 1,385 outgoing plant shipments certified as free of glassy-winged sharpshooter.
- 16,200 shipments of incoming plant material inspected and 84 exotic noxious pests intercepted.
- 16,975 shipments of agricultural commodities certified for export to 60 countries and 22 states.
- 314 nurseries comprising 5,310 acres inspected for sudden oak death,1 positive find requiring 31 trace forwards.





Standards Enforcement conducts consumer protection regulatory work by checking weighing and measuring devices, price verification of scanners, certified farmers' markets, organic farming, and fruit, vegetable and shell egg quality. Highlights for 2008:

- 45,963 commercial weighing and measuring devices (scales, gas pumps, utility sub-meters, taximeters, etc.) inspected, providing assurance of accuracy to both
 purchasers and sellers in transactions based upon weight, measure, or count. 93% of commercial devices inspected were in compliance on initial inspection.
- 36 active farmers' markets in San Diego County and 149 local growers certified.
- 343 growers registered as organic in San Diego County, the largest community of organic growers in the country.
- 58 egg facilities inspected for quality 192 times.
- 556 consumer complaints about commercial meters, petroleum and price overcharges investigated.

Environmental Services prepares crop statistics, documents agricultural losses and provides agricultural information to land use projects involving agricultural lands. Special projects include community outreach and media relations.



The County Veterinarian operates the only County-run animal disease diagnostic laboratory in the State, as well as the Entomology and Plant Pathology laboratories. Their services are critical for rapid insect and plant disease identification and minimizing new pest infestations. The San Diego Animal Disease Diagnostic Laboratory examines specimens from domestic animals and wildlife for pathogens affecting animals and diseases transmissible to humans, including rabies, plague, West Nile Virus, Newcastle disease, E. coli, and Avian Influenza. Highlights for 2008:

- 3,399 necropsies and other tests were performed, comprising 786 domestic dogs, 377 domestic cats, 1,327 birds, 62 livestock, 37 equine, 239 wildlife, 18 fish/reptiles/amphibians, 178 tick group tests and 846 rabies tests.
- The Plant Pathology lab processed 9,959 samples.
- The Entomology Lab processed 41,189 samples and handled 1,074 bee calls.



Main Phone: (858)694-8988

Website: www.sdcawm.org

Email: sdcawm@sdcounty.ca.gov

Program	Serwices	Number
Agricultural Water Quality	Stormwater; agricultural hazardous material storage	(858)694-8980
Entomology	Insect identification; apiary registration; pest surveys	(858)694-3076
Environmental Services	Crop statistics; land use issues; public information	(858)694-2775
Integrated Pest Control	Invasive weed control; rodent bait production	(858)694-3540
Plant Health & Pest Prevention	Licenses to sell nursery products, flowers & foliage; shipping certificates; incoming shipment inspection; nursery inspections; glassy-winged sharpshooter; sudden oak death	(760)752-4700
	Inspection Request Line	(760)752-4713
Pest Detection	Exotic insect trapping/eradication	(858)571-4209
	Exotic insect trapping/ eradication	(800)300-TRAP
Pesticide Regulation	Voluntary compliance inspections; registration; operator identification numbers; pesticide use reporting; restricted materials permits; employee pesticide training requirements; pesticide complaints	(858)694-8980
Plant Pathology	Plant disease diagnostic services; plant disease surveys	(858)694-2753
Standards Enforcement	Certified farmers' markets; certified producer certificates; organic handler/ producer; egg producer/handler; scanner registration; commercial weighing & measuring devices; device serviceperson; weighmaster	(858)694-2778
Veterinarian	Animal necropsies and associated lab services; wildlife damage complaints	(858)694-2838

Department Personnel

Robert G. Atkins, Agricultural Commissioner/Sealer of Weights & Measures

Donald Bradburn, Deputy Director Special Programs & Support Nikos Gurfield, County Veterinarian Lisa Leondis, Deputy Director Agriculture & Standards

Jim Byers, Deputy Commissioner & Sealer STANDARDS ENFORCEMENT

Ha Dang, Deputy Commissioner & Sealer PESTICIDE REGULATION

Karen Melvin, Deputy Commissioner & Sealer PEST DETECTION

Cathy Neville, Deputy Commissioner & Sealer PLANT HEALTH AND PEST PREVENTION

Dawn Nielsen, Deputy Commissioner & Sealer INTEGRATED PEST MANAGEMENT, ENVIRONMENTAL ISSUES

Plant Health & Pest Prevention

Bixby, Clark: Supv ASI Dobbins, Katie: Supv ASI Moore, Megan: Supv ASI Brandon, Delores: Supv ASI McGuire, Charity: Adm Sec I Myers, Robin: Office Asst Austin, Ashley: Sdt Worker

Agriculture/Standards Inspectors:

Agnes Jr., Sulpicio Basinski, Nick Betschart, Chris Delaval, Robert Desserich, Steve Farhoomand, Manige Feeley, Mike Fritz, David Ghebretnsea, Kahsai Goss, Nicole Javed, Saiqa MacGregor, Robert McNair, Narriman Olivares, Jorge Partch, Jeremy

Rodriguez, Vicente Savage, Andrea Sixtus, Ann Terhall, Greg Westrick, Jeff Wube, Muluneh Yeaney, Priscilla

Insect Detection Specialists:

Fanelli, Joseph Hill, Evelyn Robinson, Steve Seeby, Gene Thewlis, Joan Torres, Claudia Van Cleve, Merle Wristen, Daniel

Pesticide Regulation

Appel, Nancy: Supv ASI Redding, Stasi: Supv ASI Wynn, Jim: Supv ASI Bilog, Gemma: Sr Office Asst Joseph, Sabumon: Office Asst Raymond, Suzanne: Ofc Asst Thomas, Tina: Office Assistant

Ag/Standards Inspectors:

Amador, Abdel Anzaldo Veronica Arriaga, Jose Avina, Tony Bacon, Warren Elder, Travis
Estrella, Dinna
Moreno, Lauren
Moss, Adrienne
Olsen, Ted

Sapp, Jason Silva, Nestor Springer, Kathryn Syzonenko, Nancy Wann, Ryan

Animal Disease Brewer, Karin: Reg Vet Tech Diosa, April: Student Worker Doggett, Deborah: Dis Rsrch Sci Dunne, Gundula: Vet Officer Ellis Tracy: An Scientist

Dunne, Gundula: Vet Officer
Ellis, Tracy: Ag Scientist
Grewal, Dr.Saran: Ag Scientist
Heaton, Edith: Reg Vet Tech
Jaworski, Dalphne: Sr Rsrch Sci
Jones, George: Apiary Spec.

Caboratory
Kellum, Dr. David: Ag Scientist
Keon, Elyse: Office Support
Lim, Arleen: Disease Rsrch Sci
Mahoney, Dr. Kerry: Vet Pathlgst
Nolan, Pat: Ag Scientist
Rickman, Dr. Barry: Vet Pathlgst
Silber, Dr. Alex: Vet Pathlgst
Waldrop, Bill: IDS II

Administration

Aragaki, Susie: Admin Analyst Allen, Veronica: Admin Analyst Belenzo, Armando: Accnt Tech Chin, Shirley: HR Officer Espiritu, Erlinda: Purch Clerk Foronas, Aida: Sr Accountant Goff, Linda: Admin Trainee Marshall, Marilyn: Off Support Pieper, Cirila: Acct Clerk Powell, Marci: Admin Sec IV Rushton, Belinda: HR Assistant

Standards Enforcement

Davis, Cindy: Supv ASI Mares, Marco: Supv ASI Williams, Rick: Supv ASI Burton, Ris: Office Asst Roughton, Mark: Sr Office Asst Widjaja, Sutjipto: Office Asst

Ag/Standards Inspectors:

Bloomer, Tom Dewall, Paula
Braaten, Glenn Gordon, Lynn
Bryant, Robert Guidry, Lee
Connelly, Neil Holbrook, Tim
Deguzman, Janice Deneau, Louis Lyles, Mark

Ong, Quang Porter, Kevin Roma, Robert Shipley, Brad Silva, Annie Stevens, Mazen

Pest Detection

Breuninger, Tim: Sr IDS Feeley, Linda: Sr IDS Gross, Charles: Sr IDS Guyot, Cameron: Dept. Clerk Thomas, Christine: St. Worker

Sr IDS Duh, Tina: St. Worker

Insect Detection Specialists:

Allingham, Guy Arne, Richard Avila, Rishi Blank, Linda Burkman, Brian Burquez, Raul Buttner, Mark Casillas, Manuel

Alfaro, Orlando

Fregoso, Jorge Hernandez, Alberto Hock, Kim Jama, Mohamed Joseph, Roy Leech, Bill Miller, Bob Moss, Belinda

Oluwasakin, Daniel Pierce, Franklin Robles, Ivan Roskop-Waters, Kara Rowin, Mary Rushton, Paul Sharon, Alan

Velardi, John

Wagner, Valerie

Integrated Pest Control

Martinez, Mark: Supv PM Tech Graves, Walter: Env Planner

Winans, Bill: Sr ASI

Pest Management Technicians

Cadena, Paul Daly, James Gardner, Bruce Wood, Ray

Environmental Issues

Carr, Colleen: Sr ASI

Milam, Marcia: ASI

Information Technology/Gis

Acosta, Vince: Sr ASI

Taylor, John: GIS Analyst

Civil Actions

Lorang, Sally: Civil Actions Invstgtr

Peck, Mike: Sdt Worker



Department of Agriculture, Weights & Measures 5555 Overland Ave, Suite 3101
San Diego, CA 92123
www.sdcawm.org