2005
Crop Statistics & Annual Report

County of San Diego
Department of Agriculture, Weights & Measures

Dedication

The 2005 Crop Statistics and Annual Report for the County of San Diego is being dedicated to Kathleen Thuner, our Agricultural Commissioner/ Sealer for the past 23 years. Kathleen retired in January of 2006 bringing a close to an illustrious and historic career.

Her appointment in May of 1983 as County Agricultural Commissioner and Sealer of Weights and Measures continued a legacy of "firsts" in her career. Kathleen was the first female to hold the positions of agricultural inspector, deputy agricultural commissioner, and county agricultural commissioner in the state of California. She was also the first female since 1947 to serve as a Sealer of Weights and Measures in California.

Kathleen's vigilance over the years in pest detection and pest exclusion contributed significantly to the sustainability of a thriving and diverse agriculture industry in San Diego County.

Under Kathleen's leadership, the Pesticide Regulatory Program transformed into a consummate enforcement program, second to none in the state, ensuring safe and livable communities with regard to the health of county residents and the protection of the environment.

Kathleen made the protection of consumers and maintaining a fair marketplace a priority in her tenure as Sealer of Weights and Measures. Her success in the passage of the Consumer Confidence Protection Ordinance, the first of its kind in California and a template for similar ordinances passed in other counties, has greatly benefited all consumers in the County of San Diego.

Kathleen's dedicated and visionary leadership combined with her innovation, creativity, sense of fairness and pursuit of excellence has earned her the respect of her staff as well as those in the agricultural industry. The Department will continue to build on her accomplishments and wishes her all the best in her well-deserved retirement.

The quilt appearing on the front and back covers of this year's report was presented to Kathleen Thuner in honor of her retirement. Many individuals contributed signatures and squares to the quilt representing significant events and special memories of her 23 year career as Agriculture Commissioner/ Sealer of Weights and Measures of the County of San Diego.

Quilt photographed by Michael Plack of Metro Photographic.

CATHY V. NEVILLE
ACTING
AGRICULTURAL COMMISSIONER
SEALER OF WEIGHTS
AND MEASURES

County of San Diego

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

I respectfully submit the San Diego County 2005 report of acreage, yield, and value of agricultural production in accordance with Section 2279 of the California Food and Agricultural Code. This report also contains the annual report of the many and diverse programs of the Department of Agriculture, Weights and Measures that support the County's focus on kids, the environment, and safe and livable communities.

Agriculture continues to be a vibrant component of the economy in San Diego County. In 2005 agriculture increased in both value and acreage. The total reported value for all agricultural commodities produced in the County for 2005 is $1,531,541,236. This is the highest crop value ever reported for San Diego County representing a 5% increase from 2004. 2005 is the 13th consecutive year of growth in value for the San Diego County agricultural industry. Acreage dedicated to agriculture in San Diego County also grew by 3%.

Indoor Flowering and Foliage Plants remains the number one crop with a value of $311,050,300. This crop has been the top commodity in San Diego County for over two decades. Although the acreage and value of Indoor Flowering and Foliage Plants remained relatively constant from 2004, Ornamental Trees and Shrubs continued to increase in both acreage (4%) and value (5%) for a dollar value of $287,586,060. While Cut Christmas Tree acreage remained constant, the value increased by 10%. Total nursery and flower production increased only slightly this year in acreage (1%) and value (2%).

The value of Fruit and Nut Crops grew 29% in 2005 even as acreage saw a slight decrease. The greatest gains were in apples and Hass avocados. While apples saw a 6% decrease in acreage from 2004, production increased by 38%, and total agricultural value increased by 42%. Hass avocado acreage increased by 3%, while production increased by 33% and total agricultural value by 45%. Favorable climatic conditions in late 2004 and early 2005 contributed to the significant increase in production of both tree crops.

In Vegetable and Vine Fruits, mushrooms, melons, oriental vegetables, and potatoes showed the greatest gains in total value. Melon acreage increased by 61% and total value by 46% over 2004. While mushroom acreage remained constant, mushroom production increase by 29%, and the value increased by 32% in 2005. Oriental vegetables increased significantly in both acreage (24%) and value (23%). Potato acreage continued a two year gain increasing by 38% in 2005. The value of the potato crop also increased in 2005, by 29%.

Livestock and Poultry number of head and value and the value of Livestock and Poultry Products decreased as livestock and poultry facilities continue to either close or migrate out of San Diego County to the Central Valley in California. The number of chickens produced decreased by 23% and the number of head of cattle by 14% in 2005. Correspondingly, milk production was down 25% and value decreased 28% from 2004. Chicken eggs continued a two year downward trend with a reduction in dozens of eggs produced (4%) and total value (27%).

Timber and firewood continued a multi-year upward trend with value of timber increasing by 34% and the value of firewood by 30%. This upward trend is a result of dead and dying trees being removed in the aftermath of the fires of 2003.

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 success of San Diego County's diverse agricultural industry is reflected in the fact that 47 of the over 200 crops produced have a value of over $1 million.

All reported figures represent Freight on Board (F.O.B.) values for products, whether sold or used on the farm where grown. These are not net values and do not reflect cost of production. Total values do not add precisely due to rounding. Gross value of farm products does not reflect the total value to the economy. It is estimated for every dollar value of an agricultural product, there is a multiplying factor (3.5) that may be applied, making an estimated economic impact of $5.4 billion to San Diego County.

I would like to express my thanks to the many farmers, ranchers, nurserymen and women who provide the information vital to submitting this report. In addition, I would like to thank industry groups, including the San Diego County Farm Bureau and the California Avocado Commission, for their support in the compilation of statistics. Finally, I would like to express my appreciation to Deputy Agricultural Commissioner/Sealer Dawn Nielsen, Senior Agricultural Inspectors Vince Acosta and Karen Melvin, and Marcia Milam for their diligent effort in the preparation and production of this report.

Sincerely,

Cathy V. Neville

Cathy V. Neville
Acting Agricultural Commissioner/
Sealer of Weights and Measures

2005 Agricultural Crop Highlights

Total Value	$1,531,541,236
Estimated Economic Impact	$5,360,394,326
Change in Value from 2004	$69,423,495
Percent of Change	+5%
Total Acreage	273,176
Change in Acreage from 2004	6,742
Percent of Change	+3%
#1 Crop	Indoor Flowering & Foliage Plants
Crop with the Highest Value Per Acre	Indoor Flowering & Foliage Plants
Dollar Value Per Acre	$603,981
Crop with the Lowest Value Per Acre	Oat Grain
Dollar Value Per Acre	$3.62
Rank of Agriculture as a Component of San Diego County's Economy	5th*

**As reported by the Greater San Diego Chamber of Commerce*

Test Your Organic Knowledge
Do You Know What these Terms Mean?

There are government standards for organic foods. Here are some commonly used terms - Do you know what they mean?

1. *"100% Organic" -*
2. *"Organic"-*
3. *"Made with [organic ingredients]"–*
4. *"Natural" or "All Natural"-*

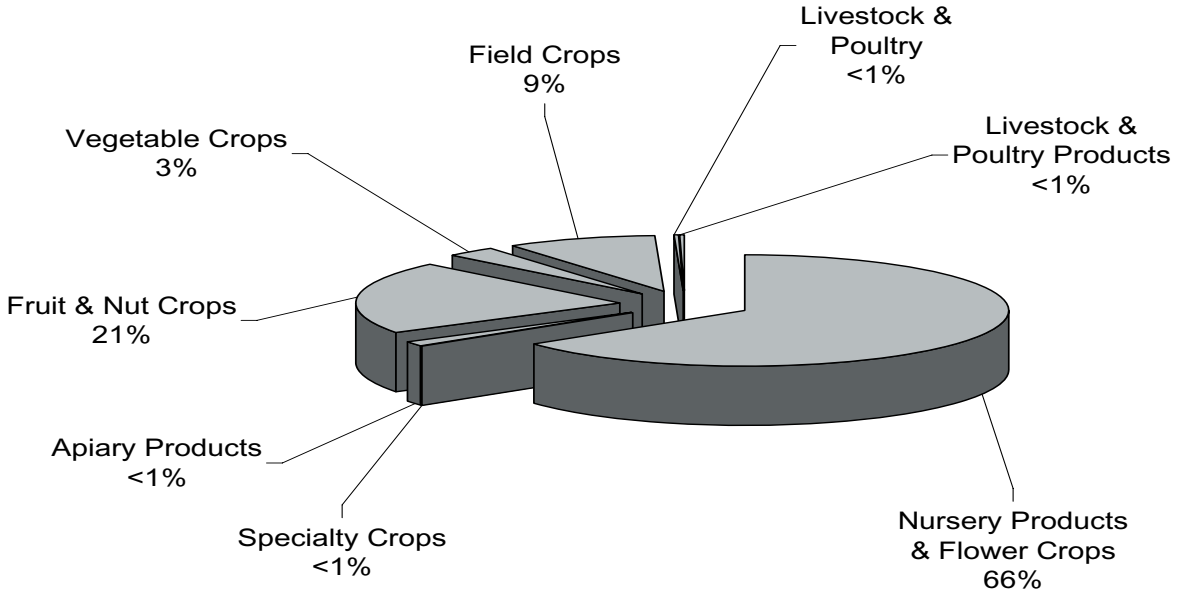
Be aware of what the label means. See page 17 for answers.

For more information on
San Diego County's Organic Growers
see page 16.

Summary of Major Crops

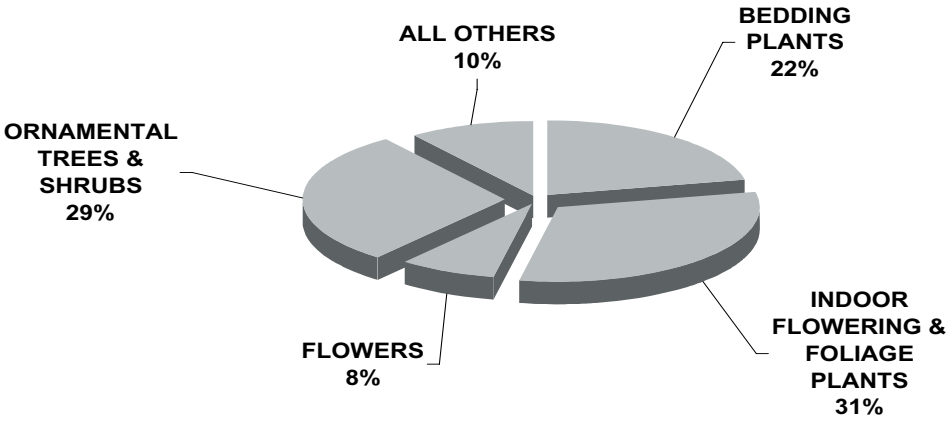
	2005			2004		
	ACRES	HECTARES	VALUE	ACRES	HECTARES	VALUE
Nursery & Flower Crops	10,221	4,136	$990,900,400	10,070	4,075	$972,928,140
Fruit & Nut Crops	42,815	17,327	$325,988,273	43,127	17,453	$252,489,571
Vegetable Crops	7,044	2,851	$137,990,797	6,736	2,726	$140,979,535
Livestock & Poultry Products			$47,631,604			$64,924,206
Livestock & Poultry			$18,596,610			$20,967,320
Field Crops	213,096	86,239	$6,154,802	206,149	83,427	$5,939,669
Apiary			$3,323,750			$3,162,300
Specialty Crops			$955,000			$727,000
TOTALS	**273,176**		**$1,531,541,236**	**266,082**		**$1,462,117,741**

Value of Major Crops
2005

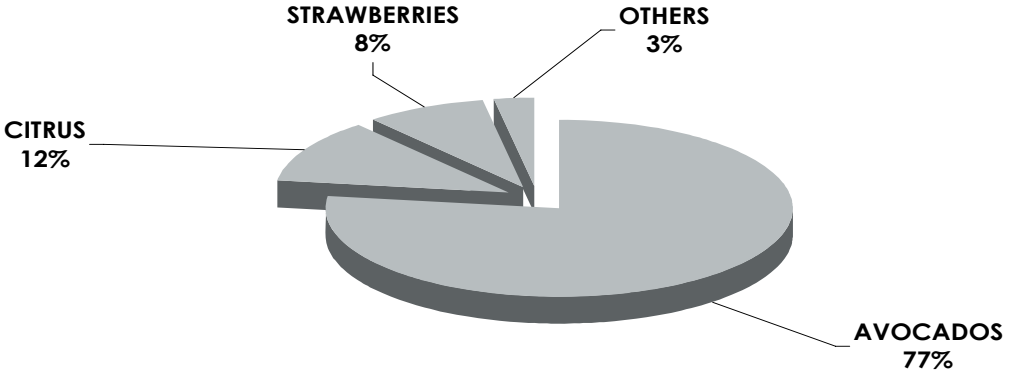


Summary of Major Crops
2005

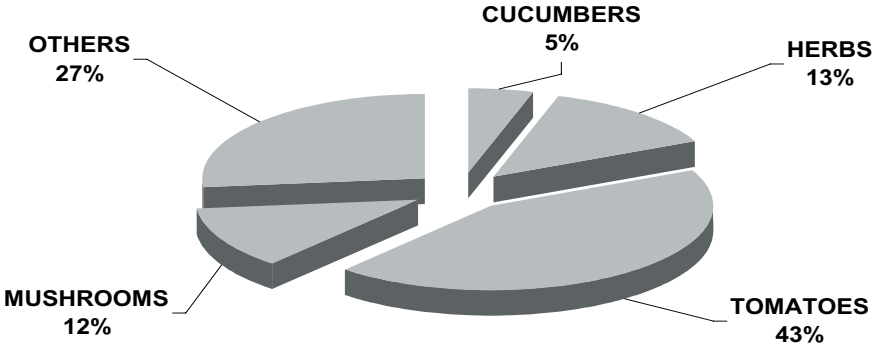
Nursery and Flower Crops



Fruit and Nut Crops



Vegetable Crops



Nursery & Flower Crops
2004 & 2005

Nursery Crops

	YEAR	ACRES	HECTARES	TOTAL
BEDDING PLANTS, COLOR	2005	910	368	$215,366,320
	2004	915	370	$209,514,000
BULBS, CORMS, RHIZOMES, ROOTS, TUBERS	2005	135	55	$2,503,100
	2004	138	56	$2,491,000
CACTUS AND SUCCULENTS	2005	205	83	$19,347,200
	2004	200	81	$19,158,600
CITRUS, AVOCADO, AND SUBTOPICAL FRUIT TREES	2005	195	79	$9,100,300
	2004	200	81	$8,968,400
CUT CHRISTMAS TREES	2005	100	40	$1,118,400
	2004	100	40	$1,021,200
HERBACEOUS PERENNIALS	2005	315	127	$19,869,200
	2004	300	121	$19,765,500
INDOOR FLOWERING AND FOLIAGE PLANTS	2005	515	208	$311,050,300
	2004	510	206	$310,589,600
ORNAMENTAL TREES AND SHRUBS	2005	3650	1477	$287,586,060
	2004	3500	1416	$274,873,900
POINSETTIA	2005	140	57	$38,127,200
	2004	130	53	$36,548,700
TURF	2005	567	229	$10,400,000
	2004	567	229	$10,621,200
TOTAL NURSERY PRODUCTS	2005	6732		**$914,468,080**
	2004	6560		**$893,552,100**

Nursery & Flower Crops
2004 & 2005

Flower Crops

	YEAR	ACRES	HECTARES	TOTAL
CARNATIONS	2005	18	7	$739,800
	2004	20	8	$820,000
CUT FOLIAGE	2005	520	210	$8,525,300
	2004	500	202	$8,826,540
LEPTOSPERMUM	2005	330	134	$1,757,580
	2004	325	132	$1,804,500
PROTEAS	2005	500	202	$3,149,640
	2004	500	202	$3,005,800
ROSES	2005	16	6	$2,212,300
	2004	15	6	$2,455,000
WAX FLOWERS	2005	690	279	$4,657,500
	2004	700	283	$5,503,000
ALL OTHERS	2005	1,415	573	$55,390,200
	2004	1,450	587	$56,891,200
TOTAL FLOWER PRODUCTS	2005	3,489	1,412	$76,432,320
	2004	3,510	1,420	$79,306,040
TOTAL NURSERY AND	**2005**	**10,221**		**$990,900,400**
FLOWER PRODUCTS	**2004**	**10,070**		**$972,858,140**

Fruit & Nut Crops
2004 & 2005

		HARVESTED		PRODUCTION		TOTAL PRODUCTION		US $ PER UNIT		
				Tons	Metric Tons			US $	US $	
	YEAR	Acres	Hectares	/ Acre	/ Hectare	Tons	Metric Tons	/ Ton	/ Metric Ton	TOTAL
APPLES	2005	435	176	1.5	3.36	653	591	438	483	$285,795
	2004	465	188	1.02	2.29	474	431	423	466	$200,629
TOTAL AVOCADOS	2005	26,326	10,654			114,047	46,154			$251,452,135
	2004	26,122	10,571			87,987	35,608			$175,006,539
HASS	2005	24,341	9,851	4.5	10.09	109,535	99,397	2,260	2,491	$247,547,970
	2004	23,547	9,529	3.5	7.85	82,415	74,803	2,065	2,276	$170,185,943
FUERTE	2005	375	152	0.87	1.95	326	296	804	886	$262,345
	2004	400	162	0.88	1.97	352	319	808	891	$284,416
OTHER	2005	1,610	652	2.60	5.83	4,186	3,801	870	959	$3,641,820
	2004	2,175	880	2.40	5.38	5,220	4,734	869	958	$4,536,180
BERRIES, MISC	2005	112	45	6.60	14.8	739	666	3,745	4,128	$2,768,304
	2004	115	47	6.43	14.41	740	677	3,508	3,867	$2,594,166
TOTAL CITRUS	2005	13,803	5,586			201,481	81,538			$38,364,492
	2004	14,183	5,740			209,816	84,911			$39,483,239
TOTAL GRAPEFRUIT	2005	2,405	973	17.2	38.56	41,366	37,519			$4,639,245
	2004	2,418	979	17.4	39.01	42,073	38,191			$4,236,916
FRESH MARKET	2005	2,405	973	13	29.14	31,265	28,353	129	142	$4,033,185
	2004	2,418	979	12.9	28.92	31,192	28,313	116	127	$3,605,818
BY PRODUCT	2005			4.2	9.42	10,101	9,166	60	66	$606,060
	2004			4.5	10.09	10,881	9,878	58	64	$631,098
KUMQUATS	2005	226	91	2.3	5.16	520	470	1,292	1,424	$671,582
	2004	200	81	2.2	4.93	440	399	1,200	1,323	$528,000
TOTAL LEMONS	2005	3,400	1,376	16.7	37.44	56,780	51,517			$11,520,900
	2004	3,595	1,455	16.9	37.88	60,756	55,115			$12,507,005
FRESH MARKET	2005	3,400	1,376	10.7	23.99	36,380	33,010	255	281	$9,276,900
	2004	3,595	1,455	10.8	24.21	38,826	35,226	260	287	$10,094,760
BY PRODUCTS	2005			6	13.45	20,400	18,507	110	121	$2,244,000
	2004			6.1	13.67	21,930	19,890	110	121	$2,412,245
TOTAL LIMES	2005	425	172	9.45	21.18	4,016	3,643			$604,353
	2004	450	182	9.55	21.41	4,298	3,897			$610,650
FRESH MARKET	2005	425	172	5.7	12.78	2,423	2,198	210	231	$508,725
	2004	450	182	5.6	12.55	2,520	2,284	200	220	$504,000
BY PRODUCT	2005			3.75	8.41	1,594	1,447	60	66	$95,628
	2004			3.95	8.85	1,778	1,611	60	94	$106,650

Fruit & Nut Crops
2004 & 2005

		HARVESTED		PRODUCTION		TOTAL PRODUCTION		US $ PER UNIT		
	YEAR	Acres	Hectares	Tons / Acre	Metric Tons / Hectare	Tons	Metric Tons	US $ / Ton	US $ / Metric Ton	TOTAL
TOTAL ORANGES,NAVEL	2005	1,134	459	15.0	33.56	16,976	15,404			$4,182,595
	2004	1,200	486	14.7	32.95	17,640	16,014			$4,334,400
FRESH MARKET	2005	1,134	459	10.5	23.47	11,873	10,773	305	336	$3,621,265
	2004	1,200	486	10.5	23.54	12,600	11,440	300	331	$3,780,000
BY PRODUCT	2005			4.5	10.09	5,103	4,631	110	121	$561,330
	2004			4.2	9.42	5,040	4,578	110	121	$554,400
TOTAL ORANGES,VALENCIA	2005	5,515	2,232	12.9	28.92	71,144	64,549			$14,251,863
	2004	5,640	2,282	13.4	29.93	75,294	68,300			$14,803,308
FRESH MARKET	2005	5,515	2,232	7.7	17.26	42,466	38,524	262	289	$11,125,961
	2004	5,640	2,282	8.2	18.38	46,248	41,943	251	277	$11,608,248
BY PRODUCT	2005			5.2	11.66	28,678	26,025	109	120	$3,125,902
	2004			5.2	11.54	29,046	26,334	110	121	$3,195,060
TOTAL TANGERINE,TANGELO	2005	698	282	15.3	34.30	10,679	9,673			$2,493,954
	2004	680	275	13.7	30.71	9,316	8,445			$2,462,960
FRESH MARKET	2005	698	282	10.1	22.64	7,050	6,384	310	342	$2,185,438
	2004	680	275	9.1	20.24	6,188	5,566	350	386	$2,165,800
BY PRODUCT	2005			5.2	11.66	3,630	3,288	85	94	$308,516
	2004			4.6	10.31	3,128	2,835	95	105	$297,160
GRAPES,WINE	2005	268	108	2.3	5.16	616	557	634	699	$390,798
	2004	300	121	1.8	4.04	540	489	700	772	$378,000
MACADAMIA NUTS	2005	130	53	1.3	2.85	169	151	1,740	1,918	$294,060
	2004	140	57	1.2	2.69	168	153	1,705	1,879	$286,440
MISC. FRUITS & NUTS*	2005	586	237							$3,710,200
	2004	600	243							$3,998,540
PERSIMMONS	2005	401	162	6.9	15.29	2,735	2,477	480	529	$1,312,704
	2004	450	182	7.1	15.92	3,195	2,897	390	430	$1,246,050
TOTAL STRAWBERRIES	2005	754	305	34.8	78.01	26,239	23,793			$27,409,785
	2004	752	304	36.4	81.57	27,365	24,797			$29,191,436
FRESH MARKET	2005	754	305	20.1	45.06	15,155	13,743	1,459	1,608	$22,111,729
	2004	752	304	21.0	47.05	15,785	14,303	1,484	1,636	$23,424,198
PROCESSING	2005			14.7	32.95	11,084	10,050	478	527	$5,298,056
	2004			15.4	34.52	11,581	10,494	498	549	$5,767,238
TOTAL FRUIT & NUT CROPS	2005	42,815								**$325,988,273**
	2004	43,127								**$252,385,039**

*Includes Apricots, Cherimoyas, Guavas, Peaches, Pears and Walnuts.

Vegetable Crops
2004 & 2005

	YEAR	HARVESTED Acres	HARVESTED Hectares	PRODUCTION Tons / Acre	PRODUCTION Metric Tons / Hectare	TOTAL PRODUCTION Tons	TOTAL PRODUCTION Metric Tons	US$ PER UNIT US $ / Ton	US$ PER UNIT US $ / Metric Ton	TOTAL
BEANS, SNAP	2005	541	219	5.7	12.8	3,084	2,799	1,310	1,444	$4,039,647
	2004	562	227	5.5	12.3	3,091	2,799	1,350	1,488	$4,172,850
BUNCH VEGETABLES[1]	2005	495	200							$3,776,700
	2004	415	168							$3,258,400
CORN, SWEET	2005	240	97	7.8	17.5	1,872	1,697	630	694	$1,179,360
	2004	258	104	7.4	16.6	1,909	1,725	595	656	$1,135,974
CUCUMBERS	2005	491	199	16.8	37.6	8,229	7,476	814	897	$6,698,569
	2004	493	200	16.5	37.0	8,117	7,398	871	960	$7,068,432
HERBS	2005	396	160	18.1	40.6	7,168	6,491	2,527	2,786	$18,112,525
	2004	385	156	17.9	40.1	6,892	6,260	2,500	2,756	$17,228,750
LETTUCE	2005	349	141	12.7	28.5	4,432	4,014	510	562	$2,260,473
	2004	347	140	12.8	28.7	4,442	4,017	505	557	$2,243,008
MELONS	2005	172	70	4.6	10.2	783	714	329	355	$257,475
	2004	107	43	4.9	11.0	523	471	336	370	$175,795
MUSHROOMS	2005	16	6	262.0	587.3	4,192	3,524	3,939	4,342	$16,512,288
	2004	16	6	203.0	455.1	3,248	2,730	3,850	4,244	$12,504,800
ORIENTAL VEGETABLES[2]	2005	130	53	5.4	12.1	702	642	960	695	$673,920
	2004	105	42	5.5	12.3	578	518	952	695	$549,780
PEPPERS	2005	217	88	18.0	40.4	3,906	3,551	693	764	$2,706,858
	2004	213	86	17.8	39.9	3,790	3,431	699	770	$2,647,445
POTATOES	2005	520	210	19.8	44.4	10,296	9,322	147	162	$1,513,512
	2004	378	153	21.0	47.0	7,923	7,189	148	163	$1,172,589
SQUASH	2005	432	175	10.7	23.9	4,614	4,190	573	632	$2,643,707
	2004	421	170	10.8	24.3	4,559	4,128	576	635	$2,626,214
TOMATOES	2005	2,317	938	33.2	74.5	76,971	69,853	776	855	$59,729,263
	2004	2,341	947	58.1	130.2	87,144	123,337	790	871	$68,858,898
MISCELLANEOUS VEGETABLES[3]	2005	728	295							$17,886,500
	2004	695	281							$17,336,600
TOTAL VEGETABLES	**2005**	**7,044**								**$137,990,797**
	2004	**6,736**								**$140,979,535**

1 Collards, Green Onions, Mustard & Turnip Greens, Parsley, Radishes and Spinach.
2 Bamboo Shoots, Bok Choy, Chinese Greens, Daikon, Gai Choy, Gai Lon, and Snap Peas.
3 Cauliflower, Celery, Chayote, Pumpkin, Sweet Potato, Tomatillo, Winter Squash and Others.

Field, Specialty Crops & Apiary Products
2004 & 2005

		HARVESTED		PRODUCTION		TOTAL PRODUCTION		US$ PER UNIT		
	YEAR	Acres	Hectares	Tons / Acre	Metric Tons / Hectare	Tons	Metric Tons	US $ / Ton	US $ / Metric Ton	TOTAL
BARLEY, GRAIN	2005	1,580	639	0.6	1.35	948	863	151.00	166.45	$143,148
	2004	130	53	0.6	1.35	78	72	167.00	184.08	$13,026
GREENCHOP	2005	57	23	21.5	48.2	1,226	1,109	27.14	29.92	$33,260
	2004	65	26	21.9	49.0	1,422	1,275	27.00	29.76	$38,383
HAY, OAT	2005	1,500	607	0.88	1.97	1,320	1,196	64.00	70.55	$84,480
	2004	1,000	405	0.86	1.93	860	782	65.00	71.65	$55,900
OAT, GRAIN	2005	451	183	0.03	0.07	14	13	121.00	133.38	$1,634
	2004	451	183	0.03	0.07	14	13	125.00	137.79	$1,688
PASTURE, IRRIGATED	2005	2,481	1,004					1,862.00	2,055.95	$4,619,622
	2004	2,475	1,002					1,862.00	2,052.48	$4,608,450
RANGE	2005	207,000	83,772					6.10	6.72	$1,262,700
	2004	202,000	81,748					6.00	6.61	$1,212,000
SILAGE	2005	27	11	13.6	30.49	367	335	27.12	29.89	$9,958
	2004	28	11	13.52	30.31	379	333	27.00	29.76	$10,222
TOTAL FIELD CROPS	2005	213,096								**$6,154,802**
	2004	206,149								**$5,939,669**
HONEY	2005									$2,115,200
	2004									$2,015,200
BEES WAX	2005									$65,250
	2004									$53,800
BEES AND QUEENS	2005									$183,200
	2004									$185,600
POLLEN	2005									$89,900
	2004									$87,500
POLLINATION	2005									$870,200
	2004									$820,200
TOTAL APIARY	2005									**$3,323,750**
	2004									**$3,162,300**
TIMBER	2005									$235,000
	2004									$175,000
FIREWOOD	2005									$720,000
	2004									$552,000
TOTAL TIMBER PRODUCTS	2005									**$955,000**
	2004									**$727,000**

Livestock & Poultry
2004 & 2005

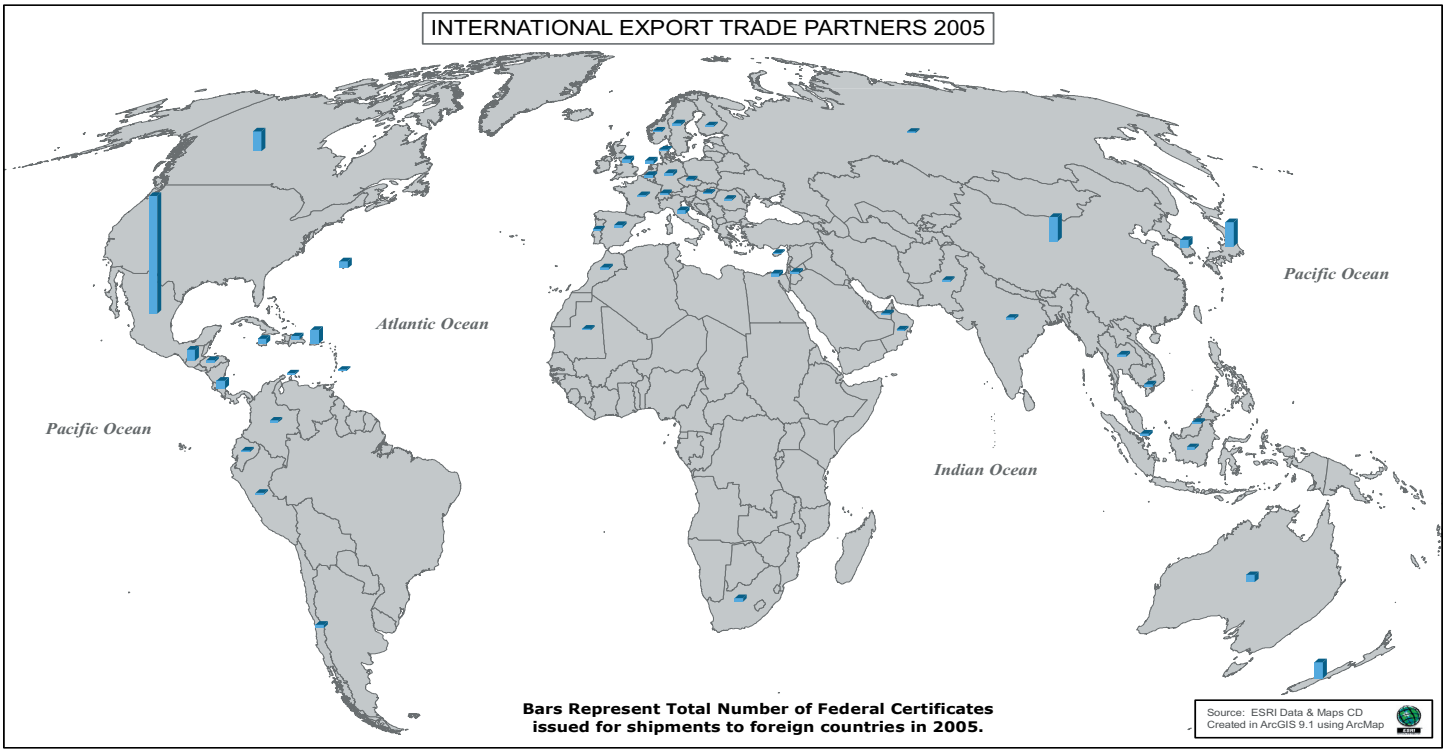
	YEAR	# OF HEAD	TOTAL WEIGHT CWT*	TOTAL WEIGHT Metric Ton	US $ PER UNIT $ / CWT	US $ PER UNIT $ / Metric Ton	TOTAL
CATTLE AND CALVES	2005	24,000	180,000	8,164	94	2,072	$16,920,000
	2004	28,000	210,000	9,524	91	2,006	$19,110,000
HOGS AND PIGS	2005	1180	2,950	134	50.00	1,102	$147,500
	2004	1240	3,100	141	49.5	1,091	$153,450
CHICKENS, MISC. MEAT	2005	786,500	28,314	1,284	15	330.69	$424,710
	2004	1,021,100	36,760	1,667	15	330.69	$551,400
RABBITS	2005	1,000	50	2	49	1,080	$2,450
	2004	1,200	60	3	49.5	1,091	$2,970
RATITE TOTAL	2005						$1,052,500
	2004						$1,100,000
CHICKS	2005	3,000			80/chick		$240,000
	2004	3,250			80/chick		$260,000
MEAT	2005	250,000lbs			3.25/lb		$812,500
	2004	280,000lbs			3/lb		$840,000
LAMB,SHEEP	2005	500	500	23	98.9	2,180	$49,450
	2004	550	550	25	90	1,984	$49,500
TOTAL LIVESTOCK	2005	816,180					**$18,596,610**
AND POULTRY	2004	1,055,340					**$20,967,320**

*CWT=A unit of weight measurement created by U.S. merchants in the late 1800s. A hundreth weight is equal to 100 pounds.

Livestock & Poultry Products
2004 & 2005

	YEAR	Number	TOTAL WEIGHT CWT	TOTAL WEIGHT Metric Ton	US $ PER UNIT $ / CWT	US $ PER UNIT $ / Metric Ton	TOTAL
MILK, MARKET	2005		852,111	38,647	14.45	319	$12,313,004
	2004		1,133,280	51,399	15	331	$16,999,200
EGGS, CHICKEN MARKET	2005		68,427,200doz		0.5doz		$34,213,600
	2004		71,196,600doz		0.66doz		$46,989,756
RATITE PRODUCTS TOTAL	2005						$1,105,000
	2004						$935,250
HIDES	2005	600			135/hide		$81,000
	2004	750			147/hide		$110,250
OIL	2005	800gal			1280/gal		$1,024,000
	2004	3,000gal			275/gal		$825,000
TOTAL LIVESTOCK AND	**2005**						**$47,631,604**
POULTRY PRODUCTS	**2004**						**$64,924,206**

Our Trading Partners

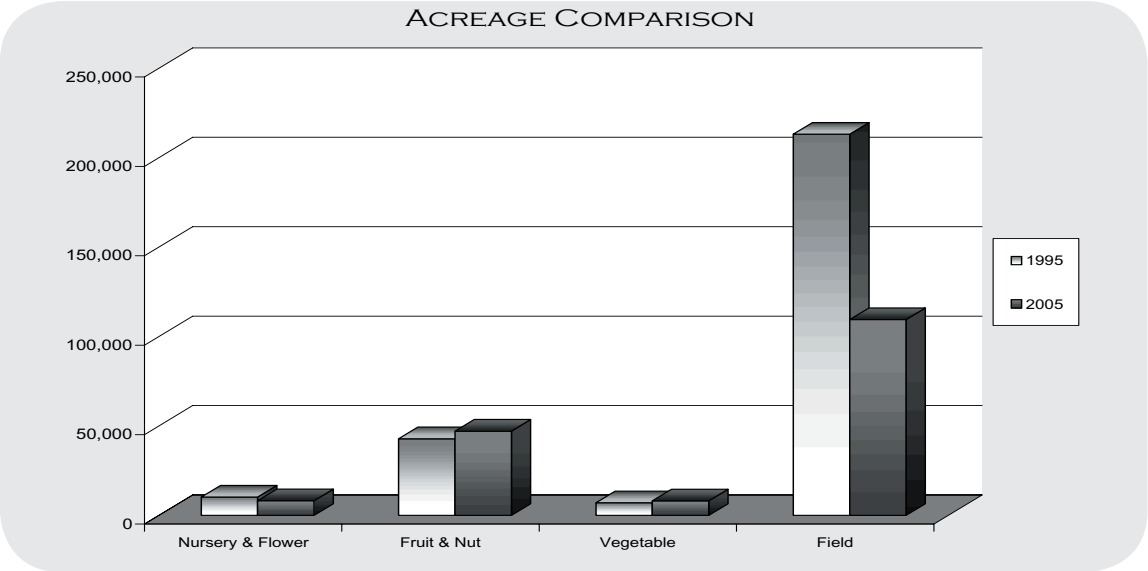


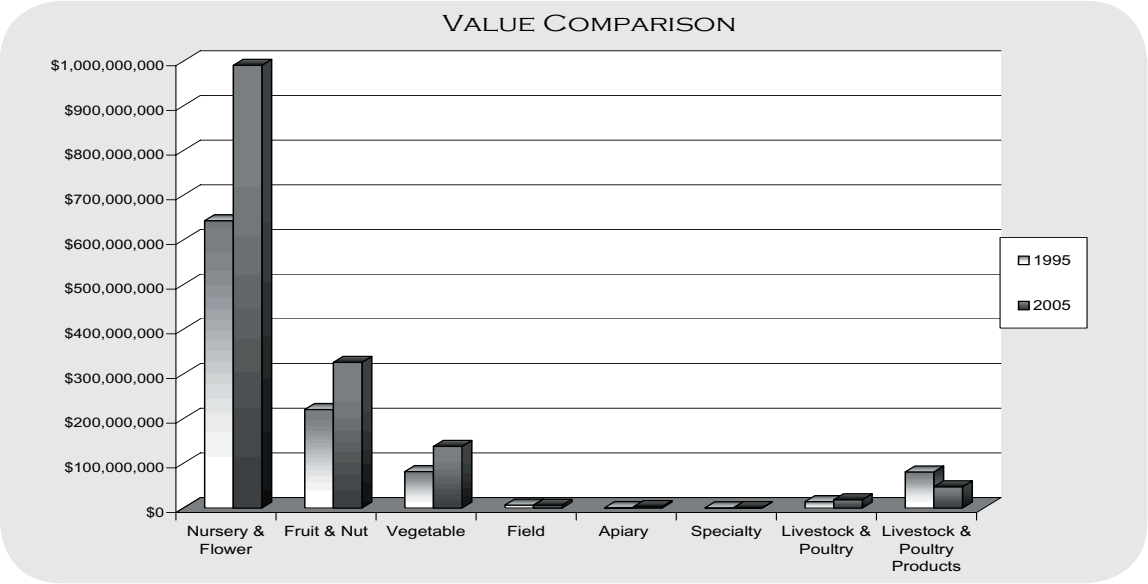
62 Countries - 8445 Shipments

Country	Totals	Country	Totals	Country	Totals
Aruba	1	Honduras	6	People's Republic of China	620
Australia	42	Hong Kong	40	Peru	1
Bahamas	12	Hungary	3	Portugal	1
Barbados	1	India	5	Puerto Rico	108
Belgium	4	Indonesia	6	Republic of Korea	27
Bermuda	29	Israel	11	Romania	1
Canada	554	Italy	13	Russian Federation	1
Cayman Islands	1	Jamaica	26	Saudi Arabia	1
Chile	11	Japan	621	Singapore	12
Colombia	7	Jordan	7	South Africa	15
Costa Rica	37	Korea	7	Spain	7
Cypress	1	Malaysia	5	Sweden	4
Czech Republic	2	Mauritius	1	Switzerland	7
Denmark	2	Mexico	5847	Taiwan	56
Dominican Republic	12	Morocco	2	Thailand	8
Ecuador	1	Netherlands	14	Trinidad & Tobago	8
Finland	1	New Zealand	117	Vietnam	9
France	1	Northern Mariana Islands	13	Virgin Islands	1
Germany	10	Norway	1	United Kingdom	15
Guam	8	Oman	1	United Arab Emirates	2
Guatemala	56	Pakistan	2		

Ten Year Comparison
1995 & 2005

	2005			1995		
	ACRES	HECTARES	VALUE	ACRES	HECTARES	VALUE
Nursery & Flower Crops	10,221	4136	$990,900,400	8,163	3,304	$643,192,766
Fruit & Nut Crops	42,815	17327	$325,988,273	47,087	19,056	$220,648,993
Vegetable Crops	7,044	2851	$137,990,797	8,115	3,284	$81,729,577
Livestock & Poultry Products			$47,631,604			$80,881,406
Livestock & Poultry			$18,596,610			$14,400,080
Field Crops	213,096	86239	$6,154,802	109,464	44,299	$6,716,147
Apiray			$3,323,750			$1,151,497
Specialty Crops			$955,000			$672,658
TOTALS	273,176	110,553	**$1,531,541,236**	172,829	69,943	$1,049,393,124





Ten Year Comparison
1995 & 2005

Crops Valued at 10 million or more

	2005	1995
Indoor Flowering & Foliage Plants	$311,050,300	$254,458,127
Ornamental Trees and Shrubs	$287,586,060	$114,325,458
Avocados	$251,452,135	$104,502,732
Bedding Plants	$215,366,320	$113,312,214
Cut Flowers and Foliage	$76,432,320	Category not reported separately in 1995
Tomatoes	$59,729,263	$14,619,031
Poinsettia	$38,127,200	$11,458,589
Eggs	$34,213,600	$60,155,075
Strawberries	$27,409,785	$11,062,030
Herbaceous Perennials	$19,869,200	$8,120,058
Cactus and Succulents	$19,347,200	$17,987,400
Herbs	$18,112,525	$19,289,344
Cattle and Calves	$16,920,000	$13,432,500
Mushrooms	$16,512,288	$11,080,125
Valencia Oranges	$14,251,863	$35,720,933
Milk, Market	$12,313,004	$19,075,088
Lemons	$11,520,900	$30,937,452
Turf	$10,400,000	Category not reported separately in 1995

Contact Us!

Email us at: sdcawm@sdcounty.ca.gov

Program	Services	Call Us!
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; endangered species; public information; geographic information system.	858.694.2775
Integrated Pest Control	Invasive weed control, rodent bait production, Integrated Pest Management (IPM).	858.694.4209
Plant Health and Pest Prevention	Licenses to sell nursery products, flowers & foliage; phytosanitary certificates; quarantine compliance certificates; incoming shipments; nursery inspections; Glassy-winged Sharp Shooter; Sudden Oak Death.	760-752-4700 Inspection Request Line:760.752.4713
Pest Detection	Exotic insect trapping/eradication.	858.694.4209 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/Nematology	Plant disease diagnostic services; plant disease surveys.	858-694-2753
Standards Enforcement	Certified farmers' market, 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

Organics Experience Healthy Growth in San Diego County

Emerging from a grassroots movement in the late 1970s, the production of organic produce has grown to become one of the fastest-growing categories in the mainstream food industry today. In 2005, nearly two-thirds of U.S. consumers bought organic foods and beverages, up from about half in 2004. During the past decade, U.S. sales have grown 20 percent or more annually. Organic food and beverage sales nationally are estimated to have topped $15 billion in 2004. Sales are projected to more than double by 2009.

San Diego County has always been at the forefront of organic farming. Today, the county has over 300 growers registered as organic, more than any other county in the nation! Last year, San Diego organic growers produced over 140 different crops on 6,400 acres with gross sales topping $28.6 million dollars. Crop varieties range from the usual such as oranges, grapes, and avocados to the unusual like cherimoyas, loquats, and jujubes.

The majority of organic produce grown locally is sold to wholesalers who in turn sell it to markets all the way from San Francisco to New York City. A portion of the produce is sold directly to local restaurants and natural food stores. Organic growers also sell directly to the public through produce stands, Certified Farmers' Markets throughout the County of San Diego, and Community Supported Agriculture (CSA) programs. Members of a CSA program receive boxes of fresh organic fruits and vegetables delivered throughout the year for a weekly or annual fee.

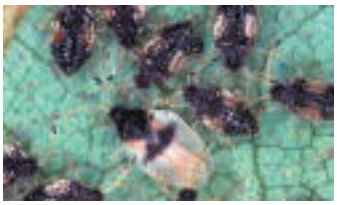
So what can the public count on when they buy products labeled as organic? Organic fruits and vegetables are grown using only botanical or primarily non-synthetic pest controls. Fertilizers made with sewage sludge or synthetic ingredients allowed in most conventional food production cannot be used. No genetically engineered modification or irradiation is permitted.

All organic products sold in the U.S. must comply with the Organic Food Production Act of 1990. Organic products sold in California must also comply with the California Organic Products Act of 2003.

The California Department of Food and Agriculture (CDFA) State Organic Program was created at the request of the organic food industry with the goal of protecting producers, handlers, processors, retailers, and consumers of organic foods sold in California by enforcing labeling laws relating to "organic" claims for fresh agricultural products. The County Agricultural Commissioners in California work with the CDFA Organic Program in registering certified organic growers, enforcing applicable organic laws and regulations, and investigating consumer complaints regarding organic products.

For more information on Organic Farming, please check this website: http://www.cdfa.ca.gov/is/fveqc/organic.htm

Avocado Lace Bug Arrives in San Diego County



A new pest that poses a threat to the avocado industry in San Diego County has been found. Avocado Lace Bug (ALB), *Psudacysta perseae*, was first identified in the fall of 2004 on backyard avocado trees in the Chula Vista and National City areas in the southern section of the County. In winter 2004/2005 a survey conducted by the San Diego County Department of Agriculture, Weights and Measures (AWM) and the California Department of Food and Agriculture (CDFA) determined 134 square miles of San Diego County is infested with ALB. More recent surveying confirms the infested area appears to be confined to the southern portion of the county at present.

This insect pest is of concern because avocados are a major crop in San Diego County with significant economic impact in the region. San Diego County is the top producer of avocados in the nation with 26,000 acres of avocados grown and an annual value of over $251 million.

Besides its occurrence here in San Diego County, México, Puerto Rico, and the Dominican Republic have all reported the presence of ALB. In recent years, ALB has become an economic problem in the State of Florida with the occurrence of occasional severe infestations.

ALB is a true bug belonging to the insect order Hemiptera; family Tingidae. Adult ALBs are small winged insects about 2 mm in length with black bodies, yellow legs and antennae, and are visible to the naked eye. The insects live in colonies on the lower surfaces of leaves, often with adults, eggs and nymphs together. Eggs appear like grains of black pepper on the undersides of leaves.

Damage occurs to avocado trees when ALB feeds on the underside of leaves with piercing, sucking mouth parts. Initially small white or yellow spots appear on the upper surface of the leaves corresponding to where the insects feed below. Heavy feeding by large numbers of lace bugs eventually causes dead areas on the leaves between the leaf veins. This is called "windowing." The "windowed" areas on the leaf eventually fall out. Heavy leaf drop (defoliation) follows. ALB does not appear to feed on the avocado fruit. However, in addition to the loss of large amounts of leaves exposing the avocado fruit to sunburn, fewer fruit will be produced by the tree.

Both AWM and CDFA are continuing to monitor the ALB situation. At present, no quarantine has been imposed and no eradication efforts have occurred. Entomologists from the University of California, Riverside and the CDFA are researching biological and chemical controls for ALB. The goal of AWM and CDFA is containment and control of this new pest that poses a threat to the avocado industry in the County of San Diego.

Answers to What do these Organic terms mean?

100% Organic - Raw or processed agricultural products that contain 100 percent organic ingredients.
Organic - Agricultural products that contain not less than 95 percent organic ingredients.
Made with [organic ingredients] - Multi-ingredient products containing at least 70 percent organically produced ingredients.
Natural or All Natural - This label does not mean organic. There is no standard definition for this term with the exception of meat and poultry products and the claim cannot be verified.

Programs and Services Annual Report

The County of San Diego Department of Agriculture, Weights and Measures (AWM) provides regulatory enforcement of state and federal laws found in the California Food and Agricultural Code, the Business and Professions Code, the California Code of Regulations, as well as the County Code of Regulatory Ordinances. In addition to enforcement responsibilities, staff provides extensive customer-service based education and outreach to the local community. Following are highlights for the 2005 year.

Plant Health and Pest Prevention - This program maintains the first line of defense against new pests by inspecting incoming shipments of plants and other materials from other states and countries. Inspectors also inspect and certify that agricultural commodities originating in San Diego County are in compliance with the regulations of other counties, states, and countries.

Pierce's Disease Control Program protects California's wine and table grape industries against the Glassy-winged Sharpshooter, the insect responsible for transmitting Pierce's Disease. While this disease is devastating to the wine and grape industry, it is mainly spread by the transportation of nursery stock.

Nursery and Seed inspectors inspect local nurseries and shipments of seed for cleanliness. This vital program places the emphasis on detection and prevention of potentially harmful pests.

Sudden Oak Death (SOD) works in a cooperative effort with state and federal officials to detect *Phytophthora ramorum*, which causes death in oaks, and damage in over 60 other plants. In 2005, the Federal Order restricting the movement of nursery stock from California and other states was implemented to control the spread of SOD. This order could have potentially devastated the nursery industry in San Diego County. However, County inspectors worked overtime to meet the deadlines imposed by the Federal Order, certifying hundreds of local nurseries as SOD-free so that sales and shipping could continue uninterrupted.

Highlights for 2005 include:

- 8,446 shipments of agricultural commodities to 62 countries were certified.
- 9,331 certificates issued for agricultural commodities being shipped to 21 states.
- 1,436 outgoing plant shipments certified as free from Glassy-winged Sharpshooters.
- 7,497 acres of nursery stock inspected at over 800 production facilities.
- 49 new nurseries were licensed.
- 300 nurseries covering 5,170 acres were sampled, inspected, and certified as free from Sudden Oak Death.

Entomology – The laboratory is critical to the rapid identification of insects and to the utilization of effective treatments to minimize the duration and spread of new pest infestations. The lab also provides identification services, free of charge, to public parks, commercial growers, schools, pest control businesses, and homeowners. Biological control activities were ongoing in the County in 2005. Biological control efforts, an important component of Integrated Pest Management (IPM), were initiated and continued against the Redgum Lerp Psyllid, Giant Whitefly, Glassy-winged Sharpshooter, and Brown Garden Snail. Surveys were conducted in San Diego County for the following exotic pests, Red Imported Fire Ant, Citrus Leaf Miner, and Avocado Lace Bug. There were numerous requests for suppliers of biological control agents from county residents.

Entomologist Checking For Bugs

In 2005:

- **4,666 insect samples were identified, 641 of the samples were submitted by homeowners.**
- **1213 bee calls were received from the pest information phone line.**
- **3108 sharpshooters were submitted for identification, of which 2457 were Glassy-winged Sharpshooters.**
- **Co-Sponsored Insect Fairs at Quail Botanical Gardens and Four-Square School introducing kids to the wonderful world of insects.**

Plant Pathology/Nematology - San Diego County is one of four counties in the state with a plant pathologist and a pathology/nematology lab. The lab identifies disease and nematode problems of thousands of plant samples from commercial growers, nursery and landscape professionals, and home gardeners.

In 2005 a large effort was put into completing federally mandated inspections of nurseries for Sudden Oak Death (SOD) so that the nurseries could continue to ship their products. *Phytophthora ramorum*, the microorganism that causes SOD, was found on nursery stock in a San Diego County nursery. The federal protocols for eradication were completed and the nursery has since tested free from the disease. Highlights for 2005 include:

- **Over 1300 nematode samples and 1500 disease samples were processed.**
- **3610 samples submitted to the Sacramento lab for SOD testing.**
- **Significant finds included reniform nematode, spotted knapweed, and plumeria rust. New county records include guava rust on myrtle, an important plant in the cut flower industry, and orchid fleck virus on Cymbidium orchids.**

Pest Detection - As the County's second line of defense against the introduction and spread of insect pests, Pest Detection staff work to find pests before they become established in the county, by placing and inspecting insect traps throughout the urban and residential areas of the County. 2005 highlights include:

Japanese Beetle Trap

- **Insect Detection Specialists conducted over 217,372 inspections of 9,485 insect traps. Target insects include exotic fruit flies, Japanese Beetle, Gypsy Moth, and Apple Maggot.**
- **Exotic, "A" rated pests, including Oriental Fruit Fly and Guava Fruit Fly, were found in deployed traps.**
- **Staff assisted State personnel in conducting a countywide survey determining the infestation limits of Avocado Lace Bug, a newly discovered pest in San Diego County with potentially serious implications for the state's avocado industry. In addition, staff also assisted in a survey for Red Imported Fire Ants.**

Integrated Pest Control (IPC) - This program oversees noxious weed control and eradication as well as weed and pest management for other County departments. Charged with overseeing and enforcing the Board of Supervisors' Policy mandating a reduction in the use of pesticides at all County facilities through Integrated Pest Management (IPM) practices, this program coordinated the activities of IPM staff at the County's 300+ facilities.

During 2005, agricultural biologists from this program continued AWM's leadership role with the countywide San Diego Weed Management Area for the control of non-native, invasive, or noxious weeds. IPC spearheaded an innovative pilot study using the selective feeding abilities of domestic goats to reduce the biomass of Perennial Pepperweed growing in the San Pasqual Valley. IPC also tested the use of a fungus to control Yellow Starthistle at Palomar Mountain. Other 2005 highlights:

- Responded to 1207 service requests for insect and rodent control at County facilities including 203 requests for removal of honeybee swarms or colonies.
- Squirrel and rat bait is still sold at AWM's front counters. In 2005, 23,881 pounds were sold to County residents or used at County facilities.
- Performed weed control along 14,000 miles of County-maintained roadside right of ways, flood control channels, and County-owned airport runways. Not only does this service improve driving safety for county residents, it also helps to prevent wildfires caused by vehicles or by careless motorist throwing burning objects from their vehicle.

Environmental Services – Environmental Services (ES) prepares crop statistics, documents agricultural losses, and provides information to County agencies on land use projects affecting agricultural lands and the County's Multiple Species Conservation Program. ES also deals in projects involved with community outreach and media relations. In 2005, ES was involved in the formulation of a county wide Farming Program slated for completion in 2006.

Agricultural Water Quality (AWQ) program provides educational outreach to operators of agricultural and related facilities having the potential to discharge pollutants such as bacteria, fertilizers, pesticides, and sediment into the region's waterways. Program staff visits over 200 sites each year as part of an on-going inspection and referral program. The program's educational efforts have resulted in greater regional awareness of water quality issues and generated a high volume of calls to AWQ regarding the discharge of pollutants to the waters of the region. The Hazardous Materials Inventory Unit of AWQ visits production agriculture sites to inventory hazardous materials such as petroleum products, fertilizers and pesticides to ensure that the operators of facilities storing these materials have prepared plans to address potential emergency situations.

Pesticide Regulation - The Pesticide Regulatory Program (PRP) is the enforcement program for administration of state pesticide laws in the County of San Diego. In addition to pesticide monitoring inspections, PRP is responsible for conducting pesticide illness investigations and responding to pesticide complaints received from the public. PRP also conducts monthly meetings with community organizations, farm and industry groups, and government agencies. Inspection staff participates in industry outreach events, local health fairs, and other community events. Highlights for 2005:

Inspector checking structural fumigation

- 1353 pesticide inspections conducted.
- 952 restricted materials permits issued.
- 72 pesticide complaints and illness incidents investigated.
- 31 safety training sessions conducted with a total of 2183 attendees.
- Established a Structural Fumigation Working Group to encourage dialog between industry and the Department on termite fumigation enforcement issues.
- Participated as a member of the Farmworker C.A.R.E. Coalition, bringing together agencies serving agricultural workers to address the health and well being of these workers and their families in the North County region of the County.

Inspector checking weighing device

Standards Enforcement - The Standards Enforcement (SE) Division conducts regulatory work in Weights and Measures, Direct Marketing, Organic Production, Fruit and Vegetable, and Shell Egg Quality. Each program in the Standard Enforcement Division has a direct benefit for the consumers in the County of San Diego. Highlights for 2005:

- 36,528 weighing and measuring devices (scales, gas pumps, utility sub-meters, taximeters, etc.)were inspected providing assurance of accuracy to both purchasers and sellers in transactions based upon weight, measure, or count. Over 2,987 devices were found to be incorrect and repairs were required before being permitted back into commercial use.
- 374 random sample packages of assorted commodities were tested to verify labeled contents, and as a result, 618 packages were removed from sale due to short weight and or short volume.
- 19,720 items were tested for price accuracy from stores throughout the county. In the process, more than 727 overcharges were discovered.
- 27 active Certified Farmers' Markets within San Diego County and 159 local growers certified by AWM.
- 317 growers were registered as organic in San Diego County, which is the largest community of organic growers in the country.
- 1,150,230 dozen eggs inspected for quality and wholesomeness. Over 115,493 dozen eggs were removed from distribution due to various defects.
- 489 consumer complaints were received and responded to by the SE Division. The number of complaints rose 22% over the last five years. There were 296 complaints involving commercial weighing or measuring devices, 201 of which were related to accuracy at the gas pumps. There were also 58 petroleum related complaints (i.e. signage or quality). Finally, there were 145 complaints involving price accuracy at the check stand or the quantity received in a packaged commodity.

One civil suit was closed against a major sporting goods store found to be overcharging consumers and resulted in a settlement of $509,000 in penalties, restitution, investigative costs, and court ordered improvements to its internal price accuracy system.

Office of the County Veterinarian – The County Veterinarian operates the only veterinary necropsy laboratory in the County. The San Diego County 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, tuberculosis, psittacosis, heartworms, Salmonella, Newcastle disease, and E. coli. The laboratory also provides support for a variety of agencies including the County's Public Health Laboratory, Animal Services, Environmental Health, Medical Examiner, Parks and Recreation, the Humane Society, the California Department of Fish and Game, as well as private citizens and veterinarians. Veterinary staff provides expert testimony for law enforcement agencies on animal cruelty and poisoning cases, and may eliminate the suspicion of criminal acts by establishing true cause of death. The lab also provides samples to the National Veterinary Service Laboratories for surveillance of economically important diseases such as Exotic Newcastle Disease, Avian Influenza, Salmonella, bovine spongiform encephalopathy (mad cow disease) and scrapie (spongiform encephalopathy of sheep).

Programs and Services Annual Report

Highlights for 2005:

- **Over 2600 animal samples were submitted for tests including necropsies, rabies tests, bacterial cultures, viral cultures, and serology.**
- **809 necropsies performed, comprised of 290 dogs, 245 cats, 156 birds, 34 livestock, 51 lab animal/exotics, 18 fish/reptiles/amphibians, and 15 wildlife.**

Civil Actions Investigations - AWM inspectors occasionally find violations of state laws and regulations as a result of investigations and inspections. Certain violations result in a monetary penalty being levied by AWM against the individual or company found to be in violation. Details of these cases can be found on the AWM website.

Highlights for 2005:

- **AWM enforced 311 civil penalties cases.**
- **Weights and Measures Civil Penalties accounted for 191 of the cases.**
- **Structural Pest Control Civil Penalties: 36 cases.**
- **Agricultural Civil Penalties : 75 cases.**
- **Certified Farmers Market Civil Penalties: 6 cases.**
- **Quarantine Penalties: 3 cases.**

Information Technology - IT support continues to find ways to streamline processes, optimize staff time and efforts, and make AWM more efficient and customer friendly. Our website is now available in three short, easy-to-type website addresses (www.sdcawm.org; www.sdcawm.com; and www.sdcawm.net) to take customers to the actual, more complicated website address of http://www.sdcounty.ca.gov/awm/. Geographic Inforamtion Systems (GIS) is a technology tool allowing people to see data in a spatial format as opposed to tabular. GIS is utilized for efficient analysis and planning as well as media presentations.

This annual report is available on line at http://www.sdcounty.ca.gov/awm/crop_statistics.html

What Makes Agriculture in San Diego County Unique?

- San Diego County is the most southwestern county in the United States with an area of 4,200 square miles, approximately the size of Connecticut. Population is 2.9 million.
- The U.S. Weather Bureau describes San Diego's 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 for San Diego to grow over 200 different agricultural commodities - from strawberries and tomatoes along the coast, to apples in the mountain areas, to citrus in the desert.
- San Diego County has the sixth highest urban population among counties in the United States, but the County also has the 12th largest agricultural economy.
- Agriculture ranks 5th as a component of San Diego County's economy.
- Agriculture in San Diego County covers 273,176 acres. San Diego County has 5,255 farms, the third highest number of farms compared to all counties within the United States.
- 63% of San Diego County farms are 1-9 acres, median farm size in San Diego is 5 acres. 37% are greater than 10 acres.
- In San Diego 92% of the farms are family owned. 77% of the farmers live on their land. Native Americans hold 22% of the farmland in San Diego County.
- The high cost of water (more than $600/acre foot) and land make 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, sod and avocados.
- Statewide, San Diego County is in the top five in the production of chickens, fresh market tomatoes, lemons, mushrooms, grapefruit, tangerines, cucumbers, and squash.
- San Diego County produces the most dollar value per acre ($5612/A) of any county in California.

Department Personnel

Kathleen A. Thuner
Agricultural Commissioner, Sealer of Weights & Measures

EXECUTIVE OFFICE
Powell, Marci: Admin Sec IV

CIVIL ACTIONS
Lorang, Sally, Esq.: Civil Actions Investigator
Giove, Mike: Legal Assistant

OFFICE OF THE COUNTY VETERINARIAN
Dr. Nikos Gurfield: County Veterinarian
Dunne, Dr. Gundula: Veterinary Pathologist

ANIMAL DISEASE DIAGNOSTIC LABORATORY
Keon, ELyse: Ofc Support Spc
Mahoney, Kerry: Vet Pathologist
LaFranco, Lisa: Vet Pathologist
Jaworski, Dalphne: Sr Clinical Lab Sci
Leong, Peggy: Sr Clinical Lab Sci
Lewis, Patty: Clinical Lab Sci
Shannon, Cynthia: Clinical Lab Sci
Pereira, Laurie: Reg Vet Tech
Williams, Kimberley: Reg Vet Tech
Kelly, Kimberly: Student Wkr
Cade, Beth: Student Wkr

WILDLIFE SERVICES
Erik Waardenberg
Cox, Terry

SPECIAL PROGRAMS & SUPPORT
Hilton, Renee: Deputy Director

BUDGET / ACCOUNTING
Aragaki, Susie: Principal Admin Analyst
Derose, Ardath: Admin Analyst II
Goff, Linda: Supv Clerk
Belenzo, Armando: Account Clerk Spec.
Marshall, Marilyn: Ofc Support Spc
Tully, Leah: Ofc Support Spc.

PERSONNEL / PAYROLL
Bradburn, Don: Sr. DPO
Lawson, Jennifer: Personnel Aide

ENVIRONMENTAL ISSUES/GIS
Nielsen, Dawn: Deputy Ag Comm/Sealer
Melvin, Karen: Sr ASI
Acosta, Vince: Sr ASI
Preston, Thomas: Student Wkr
Burrel, Erica: Student Wkr

AG STORMWATER/HAZMAT
Davy, Paul: Supv ASI
Fritz, David: Sr ASI
Silva, Nestor: ASI

INFO TECHNOLOGY
Schaer, Candy: Deputy Ag Comm/Sealer

ENTOMOLOGY LAB
Dr. Kellum, David: County Entomologist
Jones, George: Apiary Specist
Diosa, April: Student Worker

PLANT PATHOLOGY/NEMATOLOGY LAB
Nolan, Pat: County Plant Pathologist
Milam, Marcia: IDS I

AGRICULTURE & STANDARDS

INTEGRATED PEST CONTROL
Winans, Bill: Sr ASI
Graves, Walter: Env Mgt Spec
Cadena, Paul: Pest Mgt Tech II
Daly, James: Pest Mgt Tech I
Gardner, Bruce: Pest Mgt Tech II
Martinez, Mark: Pest Mgt Tech

PEST DETECTION
Williams, Rick: Supv. ASI
Thomas, Christine: St Wkr
Agnes Jr., Sulpicio: Sr IDS
Breuninger, Tim: Sr IDS
Feeley, Linda: Sr IDS
Gross, Charles: Sr IDS
Alfaro, Orlando: IDS II
Allingham, Guy: IDS II
Arne, Richard: IDS
Bacon, Warren: IDS II
Blank, Linda: IDS II
Bryant, Robert: IDS II
Burkman, Brian: IDS II
Buttner, Mark: IDS II
Fregoso, Jorge: IDS II
Ghebretnsea, Kahsai IDS II
Hock, Kim: IDS II
Jefferson, Sharrod: IDS II
Joseph, Roy: IDS II
Miller, Bob: IDS II
Moss, Belinda: IDS II
Parker, Katie IDS I
Randall, Larry: IDS II
Rowin, Mary: IDS II
Sharon, Alan: IDS II
Stevens, Mazen: IDS II
Thewlis, Joan: IDS II
Velardi, John: IDS II
Wagner, Valerie: IDS I
Waldrop, Bill: IDS II

PESTICIDE REGULATION
Hardy, Simone: Deputy Ag Comm/Sealer
Bilog, Gemma: Sr Clerk
Walsh, Rick: Supv ASI
Joseph, Sabumon: ICT
Thomas, Tina: ICT
Anzaldo-Heredia, Veronica: Sr ASI
Amador, Abdel: ASI
Carr, Colleen: Sr ASI
Estrella, Dinna: ASI
McCutcheon, Flo: Sr ASI
Moore, Megan: Sr ASI
Moreno, Lauren: ASI
Olsen, Ted: Sr ASI
Syzonenko, Nancy: Sr ASI

PLANT HEALTH & PEST PREVENTION
Neville, Cathy:Deputy Ag Comm/Sealer
Matsumoto, Ted: Supv ASI
Brandon, Delores: Supv ASI
Davis, Cindy: Supv ASI
Woods, Daneen: Sr Clerk
Austin, Ashley: ICT
Basinski, Nicolas: IDS II
Betschart, Chris: Sr ASI
Bixby, Clark: Sr ASI
Cie, Damien: Stdt Wkr
Desserich, Steve: Sr ASI
Elder, Travis: ASI
Farhoomand, Manige: Sr ASI
Feeley, Mike: ASI
Javed, Saiqa: ASI
Lee, Mark: IDS II
MacGregor, Robert: ASI
Metcalf, Howard: Sr ASI
Moss, Adrienne: ASI
Nelson, Matt: Std Wkr
Olivares, Jorge: ASI
Parker, Lynn: Sr ASI
Partch, Jeremy: ASI
Robinson, Steve: IDS II
Rodriguez, Vicente: Sr ASI
Siixtus, Ann: Sr ASI
Springer, Kathryn: Sr ASI
Terhall, Greg: ASI
Westrick, Jeff: ASI
Worcester, Lindsay: Sr ASI
Wube, Muluneh: ASI

STANDARDS ENFORCEMENT
Jim Byers: Deputy Ag Comm/Sealer
Mares, Marco: Supv ASI
Redding, Stasi: Supv ASI
Burton, Ris: IC
Roughton, Mark: Sr. Clerk
Shimamoto, Rika : IC
Appel, Nancy Sr ASI
Bloomer, Tom: Sr ASI
Braaten, Glenn: ASI
Connelly, Neil: Sr ASI
Dewall, Paula: Sr ASI
Dobbins, Katie: Sr ASI
Duran, Jose-Concepcion: AS
Gionfriddo, John: ASI
Gordon, Lynn: Sr ASI
Guidry, Lee: Sr ASI
Holbrook, Tim: Sr. ASI
Kebede, Atlaw: Sr ASI
Ong, Quang: ASI
Roma, Robert: ASI
Shipley, Brad: ASI
Silva, Annie: Sr ASI

County of San Diego

Department of Agriculture, Weights & Measures

Our Mission:

Promote the sustainability of agriculture while protecting the environment and ensuring the health and safety of all citizens.

Ensure equity in the marketplace by promoting awareness of laws and regulations and by enforcing them fairly and equally.

2005 crop report is available at:

sdcawm.org

San Diego AWM

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