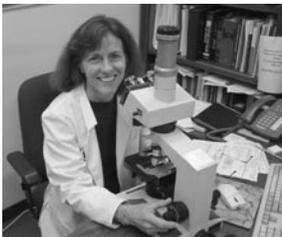


2004
Crop Statistics &
Annual Report



County of San Diego
Department of Agriculture, Weights & Measures



We would like to thank Kerry Mahoney, D.V.M. for her 28 years of outstanding public service, protecting both San Diego County's human and animal residents from many pathogens and diseases. Dr Mahoney worked her entire county career in the San Diego County Animal Disease Diagnostic Laboratory (formerly the Office of the County Veterinarian) in the Department of Agriculture, Weights and Measures. Since 1995, she has served as the County Veterinarian and director of the laboratory. Kerry is going off surfing!



Young artist **Analia Davis** created the artwork featured on this year's crop report cover. She has been home schooled while residing in El Cajon. Her artwork was submitted to the San Diego County Fair thru her art classes at Art with Larisse. She was 14 years old when her sketch of the Duck won an 1st Place award for Children's Best at the 2004 County Fair. Her interests include: painting, crafts, beadwork, reading, cooking and swimming.



County of San Diego

KATHLEEN A. THUNER
AGRICULTURAL COMMISSIONER
SEALER OF WEIGHTS
AND MEASURES

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A.G. Kawamura
Secretary

California Department of Food and Agriculture
and

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

I respectfully submit the San Diego County 2004 report of acreage, yield and value of agricultural production. 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 thrive in San Diego County with a total reported agricultural value of **\$1,462,117,741** for 2004. This is the highest crop value ever reported for San Diego County representing an 8% increase from the prior year. This is the 12th consecutive year of growth in value for the San Diego County agricultural industry.

As in the past twenty years, since 1984, Indoor Flowering and Foliage Plants continues to be the number one crop with a value of \$310,589,600. Although the value of this crop remained relatively constant from 2003, Ornamental Trees and Shrubs increased in both acreage (23%) and value (20%) for a dollar value of \$274,873,900, an increase of \$45 million over last year. Many of the acres newly dedicated to this crop are not lands recently converted to agriculture, but transformed citrus acreage in the northern portion of the county. Cut Flower and Christmas Tree acreage continues to decline, but this is more than offset by increases in other nursery acreage. Total nursery production acreage increased by 11% while the value increased by 6%. Throughout the county, total agricultural acreage remained stable, slightly increasing by 0.53%.

The value of Vegetables grew an impressive 29% due to increases in acreage (5%) production (7%) and price. Potato acreage, which notably decreased in 2003, rebounded back this year. Tomatoes, which decreased in acreage to the 2002 level, increased in both yield and price resulting in a 57% increase in value. Of all crops, Squash showed the greatest percentage increase in value due to increases in acreage (43%) production (2%) and price (27%), yielding an 85% increase in value.

In 2004, the Total Livestock and Poultry value increased 12%, while Livestock and Poultry Products value decreased 1%. Twenty years ago, Eggs was the number two crop in the county, narrowly losing to Indoor Decoratives (now called Indoor Flowering and Foliage Plants.) Interestingly, the per unit value for Eggs twenty years ago was \$.57 compared with \$.66, the per unit value today. In 2004, the overall value of Eggs decreased 8% due to loss of production facilities. The value of Milk increased 26%, primarily due to the increased price. The value of Cattle and Calves, Hogs and Pigs and Lambs and Sheep also increased accounting for the higher values for Total Livestock and Poultry.

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 citrus in the desert. The success of the San Diego County diverse agricultural industry is reflected in the 45 crops with 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 \$ 5,117,412,094.**

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. And finally, I would like to thank the many members of this department that work to compile statistics, write, edit and produce this report, especially Senior Agricultural Inspectors Lynn Parker, Vince Acosta, and Karen Melvin and Deputy Agricultural Commissioner/Sealer, Dawn Nielsen.



KATHLEEN A. THUNER
Agricultural Commissioner/
Sealer of Weights and Measures

2004 Agricultural Crop Highlights

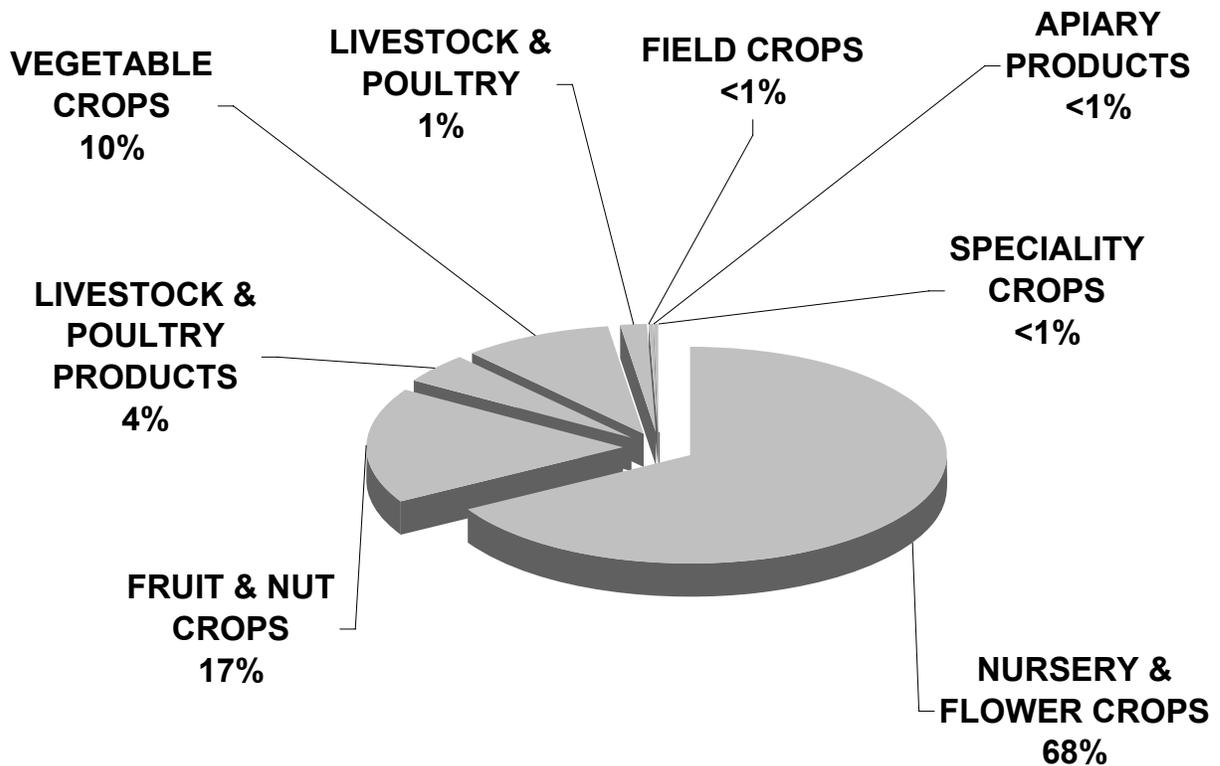
Total Value	\$1,462,117,741
Estimated Economic Impact	\$5,117,412,094
Change in Value from 2003 Percent of Change	\$110,892,329 8%
Total Acreage	266,434
Change in Acreage from 2003 Percent of Change	1,393 .53%
#1 Crop	Indoor Flowering & Foliage Plants
Crop with the Greatest Percent Increase in Value Percent of Change	Squash 85%
Crop with the Greatest Percent Decrease in Value Percent of Change	Wheat -100%
Crop with the Highest Value Per Acre Dollar Value Per Acre	Indoor Flowering & Foliage Plants \$608,999
Crop with the Lowest Value Per Acre (excluding rangeland) Dollar Value Per Acre	Oat Grain \$3.74
Rank of Agriculture as a Component of San Diego County's Economy	5th*

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

Summary of Major Types of Crops

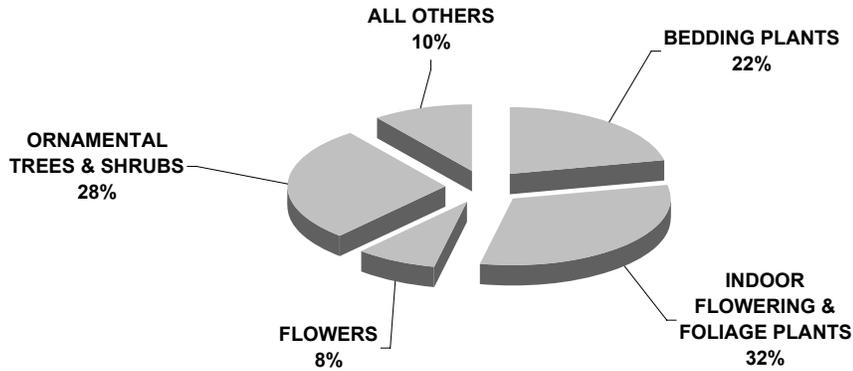
	2004			2003		
	ACRES	HECTARES	VALUE	ACRES	HECTARES	VALUE
Nursery & Flower Crops	10,075	4,077	\$972,928,140	9,531	3,857	\$927,059,200
Fruit & Nut Crops	43,127	17,453	\$252,489,571	43,374	17,553	\$236,858,163
Livestock & Poultry Products			\$64,924,206			\$65,692,081
Vegetable Crops	7,083	2,866	\$140,979,535	6,757	2,735	\$92,659,801
Livestock & Poultry			\$20,967,320			\$18,732,891
Field Crops	206,149	83,427	\$5,939,669	205,379	83,116	\$6,216,920
Apiary Products			\$3,162,300			\$3,326,399
Specialty Crops			\$727,000			\$679,957
TOTALS	266,434	107,823	\$1,462,117,741	265,041	107,261	\$1,351,225,412

Summary of Major Types of Crops 2004

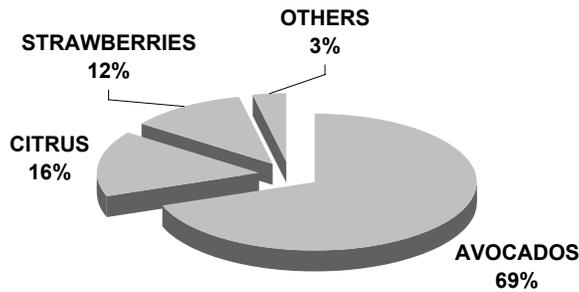


Summary of Major Types of Crops 2004

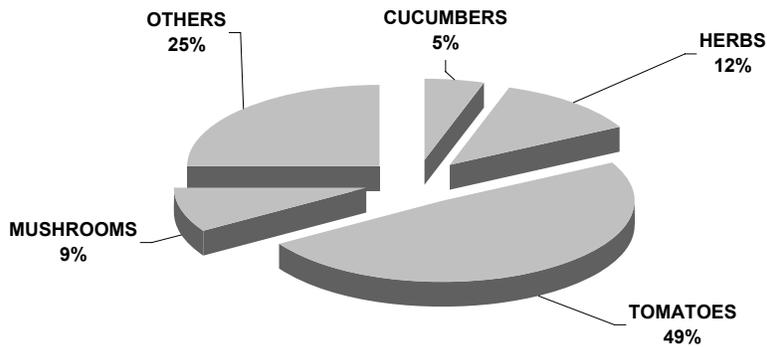
Nursery and Flower Crops



Fruit and Nut Crops



Vegetable Crops



Nursery & Flower Crops 2003 & 2004

Nursery Crops

	YEAR	ACRES	HECTARES	TOTAL
BEDDING PLANTS, COLOR	2004	915	370	\$209,514,000
	2003	905	366	\$201,254,658
BULBS, CORMS, RHIZOMES, ROOTS, TUBERS	2004	138	56	\$2,491,000
	2003	142	57	\$2,385,456
CACTUS AND SUCCULENTS	2004	200	81	\$19,158,600
	2003	210	85	\$21,557,887
CITRUS, AVOCADO, AND SUBTROPICAL FRUIT TREES	2004	200	81	\$8,968,400
	2003	185	75	\$8,058,872
CUT CHRISTMAS TREES	2004	100	40	\$1,021,200
	2003	145	59	\$1,562,100
HERBACEOUS PERENNIALS	2004	300	121	\$19,765,500
	2003	280	113	\$17,954,612
INDOOR FLOWERING AND FOLIAGE PLANTS	2004	510	206	\$310,589,600
	2003	507	205	\$312,115,863
ORNAMENTAL TREES AND SHRUBS	2004	3500	1416	\$274,873,900
	2003	2854	1155	\$229,565,221
POINSETTIA	2004	130	53	\$36,548,700
	2003	125	51	\$38,456,512
TURF	2004	567	229	\$10,621,200
	2003	571	231	\$10,400,000
TOTAL NURSERY PRODUCTS	2004	6560	2655	\$893,552,100
	2003	5924	2397	\$843,311,181

Nursery & Flower Crops 2003 & 2004

Flower Crops

	YEAR	ACRES	HECTARES	TOTAL
TOTAL CARNATIONS	2004	20	8	\$820,000
	2003	26	11	\$1,135,010
CARNATION, STANDARD	2004	4	2	\$305,000
	2003	6	2	\$479,554
CARNATION, MINI	2004	16	6	\$515,000
	2003	20	8	\$655,456
CUT FOLIAGE	2004	500	202	\$8,826,540
	2003	485	196	\$9,021,648
LEPTOSPERMUM	2004	325	132	\$1,804,500
	2003	375	152	\$2,102,164
PROTEAS	2004	500	202	\$3,005,800
	2003	447	181	\$3,025,465
ROSES	2004	15	6	\$2,455,000
	2003	16	6	\$2,954,565
WAX FLOWERS	2004	700	283	\$5,503,000
	2003	759	307	\$6,854,646
ALL OTHERS	2004	1,450	587	\$56,891,200
	2003	1,489	603	\$58,654,521
TOTAL FLOWER PRODUCTS	2004	3,515	1,423	\$79,306,040
	2003	3,607	1,460	\$83,748,019
TOTAL NURSERY AND FLOWER PRODUCTS	2004	10,075		\$972,858,140
	2003	9,531		\$927,059,200

Fruit & Nut Crops 2003 & 2004

	YEAR	HARVESTED		PRODUCTION		TOTAL PRODUCTION		\$ PER UNIT		
		Acres	Hectares	Tons / Acre	Metric Tons / Hectare	Ton	Metric Ton	US\$ /Ton	US\$ / Metric Ton	TOTAL
APPLES	2004	465	188	1.0	2.3	474	431	423	466	\$200,629
	2003	480	194	2.0	4.5	955	865	401	442	\$383,035
TOTAL AVOCADOS	2004	26,122	10,571			87,987	35,608			\$175,006,539
	2003	25,482	10,312			63,606	25,741			\$146,171,423
HASS	2004	23,547	9,529	3.5	7.8	82,415	74,803	2,065	2,276	\$170,185,943
	2003	23,125	9,359	2.6	5.8	59,663	54,095	2,394	2,639	\$142,832,025
FUERTE	2004	400	162	0.9	2.0	352	319	808	891	\$284,416
	2003	503	204	0.9	2.0	458	416	785	865	\$359,295
OTHER	2004	2,175	880	2.4	5.4	5,220	4,734	869	958	\$4,536,180
	2003	1,854	750	1.9	4.2	3,486	3,158	855	942	\$2,980,103
BERRIES, MISC	2004	115	47	6.4	14.4	740	677	3,508	3,867	\$2,594,166
	2003	157	64	6.5	14.6	1,022	934	3,621	3,991	\$3,701,024
TOTAL CITRUS	2004	14,183	5,740			209,816	84,911			\$39,587,771
	2003	14,758	5,972			205,894	83,324			\$45,471,414
TOTAL GRAPEFRUIT	2004	2,418	979	17.4	39.0	42,073	38,191			\$4,236,916
	2003	2,424	981	13.8	30.9	33,403	30,303			\$2,877,919
FRESH MARKET	2004	2,418	979	12.9	28.9	31,192	28,313	116	127	\$3,605,818
	2003	2,424	981	9.8	22.0	23,755	21,553	98	108	\$2,328,010
BY PRODUCT	2004			4.5	10.1	10,881	9,878	58	64	\$631,098
	2003			4.0	8.9	9,648	8,751	57	63	\$549,909
KUMQUATS	2004	200	81	2.2	4.9	440	399	1,200	1,323	\$528,000
	2003	227	92	2.5	5.6	568	515	1,486	1,638	\$843,305
TOTAL LEMONS	2004	3,595	1,455	16.9	37.9	60,756	55,115			\$12,507,005
	2003	3,636	1,471	17.4	39.0	63,266	57,384			\$19,556,391
FRESH MARKET	2004	3,595	1,455	10.8	24.2	38,826	35,226	260	287	\$10,094,760
	2003	3,636	1,471	11.8	26.4	42,868	38,879	401	442	\$17,190,228
BY PRODUCTS	2004			6.1	13.7	21,930	19,890	110	121	\$2,412,245
	2003			5.6	12.6	20,398	18,505	116	128	\$2,366,163
TOTAL LIMES	2004	450	182	9.6	21.4	4,298	3,897			\$671,718
	2003	495	200	8.7	19.5	4,297	3,892			\$1,077,654
FRESH MARKET	2004	495	200	5.6	12.6	2,772	2,510	200	220	\$554,400
	2003	495	200	4.8	10.9	2,396	2,170	403	444	\$965,507
BY PRODUCT	2004			4.0	8.8	1,955	1,770	60	66	\$117,318
	2003			3.8	8.6	1,901	1,722	59	94	\$112,147

Fruit & Nut Crops 2003 & 2004

	YEAR	HARVESTED		PRODUCTION		TOTAL PRODUCTION		\$ PER UNIT		TOTAL
		Acres	Hectares	Tons / Acre	Metric Tons / Hectare	Ton	Metric Ton	US\$ /Ton	US\$ / Metric Ton	
TOTAL ORANGES,NAVEL	2004	1,200	486	14.7	33.0	17,640	16,014			\$4,334,400
	2003	1,299	526	14.9	33.4	19,329	17,547			\$4,915,171
FRESH MARKET	2004	1,200	486	10.5	23.5	12,600	11,440	300	331	\$3,780,000
	2003	1,299	526	11.0	24.7	14,328	13,008	305	336	\$4,370,040
BY PRODUCT	2004			4.2	9.4	5,040	4,578	110	121	\$554,400
	2003			3.9	8.6	5,001	4,539	109	120	\$545,131
TOTAL ORANGES,VALENCIA	2004	5,640	2,282	13.4	29.9	75,294	68,300			\$14,803,308
	2003	5,985	2,422	12.6	28.3	75,531	68,518			\$12,709,821
FRESH MARKET	2004	5,640	2,282	8.2	18.4	46,248	41,943	251	277	\$11,608,248
	2003	5,985	2,422	7.6	17.1	45,666	41,416	209	230	\$9,544,110
BY PRODUCT	2004			5.2	11.5	29,046	26,334	110	121	\$3,195,060
	2003			5.0	11.2	29,865	27,102	106	117	\$3,165,711
TOTAL TANGERINE,TANGELO	2004	680	275	13.7	30.7	9,316	8,445			\$2,506,424
	2003	692	280	13.7	30.8	9,501	8,618			\$3,491,153
FRESH MARKET	2004	692	280	9.1	20.4	6,297	5,712	350	386	\$2,204,020
	2003	692	280	9.0	20.2	6,249	5,667	503	554	\$3,143,146
BY PRODUCT	2004			4.6	10.3	3,183	2,887	95	105	\$302,404
	2003			4.7	10.5	3,252	2,951	107	118	\$348,007
GRAPES,WINE	2004	300	121	1.8	4.0	540	489	700	772	\$378,000
	2003	304	123	2.1	4.7	632	573	380	419	\$240,274
MACADAMIA NUTS	2004	140	57	1.2	2.9	168	162	1,705	1,879	\$286,440
	2003	150	61	1.2	2.7	182	165	1,682	1,854	\$305,283
MISC. FRUITS & NUTS*	2004	600	243							\$3,998,540
	2003	685	277							\$4,689,510
PERSIMMONS	2004	450	182	7.1	15.9	3,195	2,897	390	430	\$1,246,050
	2003	478	193	5.9	13.2	2,820	2,553	523	577	\$1,474,965
TOTAL STRAWBERRIES	2004	752	304	36.4	81.6	27,365	24,797			\$29,191,436
	2003	880	356	36.5	81.8	32,111	29,121			\$34,421,235
FRESH MARKET	2004	752	304	21.0	47.0	15,785	14,303	1,484	1,636	\$23,424,198
	2003	880	356	21.3	47.7	18,735	16,992	1,456	1,605	\$27,278,451
PROCESSING	2004			15.4	34.5	11,581	10,494	498	549	\$5,767,238
	2003			15.2	34.1	13,376	12,129	534	589	\$7,142,784
TOTAL FRUIT & NUT CROPS	2004	43,127								\$252,489,571
	2003	43,374								\$236,858,163

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

Vegetable Crops 2003 & 2004

	YEAR	HARVESTED		PRODUCTION		TOTAL PRODUCTION		PER UNIT		TOTAL
		Acres	Hectares	Ton / Acre	Metric Ton / Hectare	Ton	Metric Tons	US \$ /Acre	US \$ Metric Ton	
BEANS, SNAP	2004	562	227	5.5	12.3	3,091	2,799	1,350	1,488	\$4,172,850
	2003	424	172	5.4	12.0	2,273	2,067	1,196	1,318	\$2,718,030
BUNCH VEGETABLES ¹	2004	415	168							\$3,258,400
	2003	403	163							\$3,125,451
CORN, SWEET	2004	258	104	7.4	16.6	1,909	1,725	595	656	\$1,135,974
	2003	399	161	7.6	17.0	3,024	2,735	490	540	\$1,481,956
TOTAL CUCUMBERS	2004	493	200			8,117	7,397			\$7,068,432
	2003	505	204			7,906	7,210			\$5,715,464
FIELD GROWN	2004	479	194	15.9	35.5	7,592	6,893	810	820	\$6,149,682
	2003	491	199	15.0	33.7	7,380	6,704	659	726	\$4,863,222
HOT HOUSE GROWN	2004	14	6	37.5	84.1	525	504	1,750	1,929	\$918,750
	2003	14	6	37.6	84.3	526	506	1,619	1,785	\$852,242
HERBS	2004	385	156	17.9	40.1	6,892	6,260	2,500	2,756	\$17,228,750
	2003	403	163	18.0	40.4	7,258	6,580	2,486	2,740	\$18,043,388
MUSHROOMS	2004	16	6	203.0	455.1	3,248	2,730	3,850	4,244	\$12,504,800
	2003	15	6	189.0	423.7	2,835	2,542	3,565	3,930	\$10,106,775
LETTUCE	2004	347	140	12.8	28.7	4,442	4,017	505	557	\$2,243,008
	2003	203	82	13.9	31.1	2,816	2,549	621	685	\$1,748,488
MELONS	2004	107	43	4.9	11.0	523	471	336	355	\$175,795
	2003	101	41	4.7	10.6	477	434	336	370	\$160,171
ORIENTAL VEGETABLES ²	2004	105	42	5.5	12.3	578	518	952	695	\$549,780
	2003	124	50	5.4	12.1	671	607	949	695	\$636,589
PEPPERS, BELL	2004	205	83	17.9	40.1	3,668	3,328	695	766	\$2,548,913
	2003	237	96	18.0	40.4	4,271	3,878	565	623	\$2,412,946
PEPPERS, CHILI	2004	8	3	15.3	34.3	122	103	805	1,087	\$98,532
	2003	11	4	12.5	28.0	138	112	559	616	\$76,863
POTATOES	2004	378	153	21.0	47.0	7,923	7,189	148	163	\$1,172,589
	2003	203	82	21.9	49.0	4,442	4,022	150	165	\$666,240
SQUASH	2004	421	170	10.8	24.3	4,559	4,128	576	635	\$2,626,214
	2003	295	119	10.6	23.8	3,130	2,830	453	499	\$1,417,890
TOTAL TOMATOES	2004	2,341	947			87,144	79,028			\$68,858,898
	2003	2,522	1021			64,897	58,892			\$43,905,818
TOMATOES, FRESH	2004	2,291	927	37.6	84.3	86,119	78,109	790	871	\$68,033,773
	2003	2,453	993	25.9	58.2	63,655	57,763	675	744	\$42,967,395
TOMATOES, CHERRY	2004	50	20	20.5	46.0	1,025	919	805	887	\$825,125
	2003	69	28	18.0	40.3	1,241	1,129	756	833	\$938,423
MISC. VEGETABLES ³	2004	695	281							\$17,336,600
	2003	709	287							\$16,954,653
TOTAL VEGETABLES	2004	7,083								\$140,979,535
	2003	6,757								\$109,170,722

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 Crops, Specialty Crops and Apiary Products 2003 & 2004

	YEAR	HARVESTED		PRODUCTION		TOTAL PRODUCTION		PER UNIT		TOTAL
		Acres	Hectares	Ton / Acre	Metric Ton / Hectare	Ton	Metric Ton	US \$ /Acre	US \$ Metric Ton	
BARLEY, GRAIN	2004	130	53	0.6	1.4	78	72	167.0	184.1	\$13,026
	2003	80	32	0.7	1.5	54	49	165.0	181.9	\$8,976
GREENCHOP	2004	65	26	21.9	49.0	1,422	1,275	27.0	29.8	\$38,383
	2003	80	32	21.0	47.1	1,682	1,508	26.0	28.7	\$43,759
HAY, OAT	2004	1,000	405	0.9	1.9	860	782	65.0	71.7	\$55,900
	2003	3,300	1,335	1.3	2.8	4,125	3,738	59.0	65.0	\$243,251
OAT, GRAIN	2004	451	183	0.0	0.1	14	13	125.0	137.8	\$1,688
	2003	400	162	0.0	0.1	16	15	111.5	122.9	\$1,784
PASTURE, IRRIGATED	2004	2,475	1,002					1,862.0	2,055.9	\$4,608,450
	2003	2,489	1,007					1,862.0	2,052.5	\$4,634,518
RANGE	2004	202,000	81,748					6.0	6.6	\$1,212,000
	2003	198,000	80,130					5.9	6.5	\$1,162,260
SILAGE	2004	28	11	13.5	30.3	379	333	27.0	29.8	\$10,222
	2003	30	12	13.1	29.3	392	351	26.8	29.6	\$10,508
WHEAT	2004	0	0	0.0	0.0	0	0	0.0	0.0	\$0
	2003	1,000	405	0.9	2.0	890	810	125.7	138.6	\$111,864
TOTAL FIELD CROPS	2004	206,149								\$5,939,669
	2003	205,379								\$6,216,920
TIMBER	2004									\$175,000
	2003									\$167,303
FIREWOOD	2004									\$552,000
	2003									\$512,654
TOTAL TIMBER PRODUCTS	2004									\$727,000
	2003									\$679,957
HONEY	2004									\$2,015,200
	2003									\$2,165,580
BEES WAX	2004									\$53,800
	2003									\$40,321
BEES AND QUEENS	2004									\$185,600
	2003									\$187,645
POLLEN	2004									\$87,500
	2003									\$86,595
POLLINATION	2004									\$820,200
	2003									\$846,258
TOTAL APIARY	2004									\$3,162,300
	2003									\$3,138,754

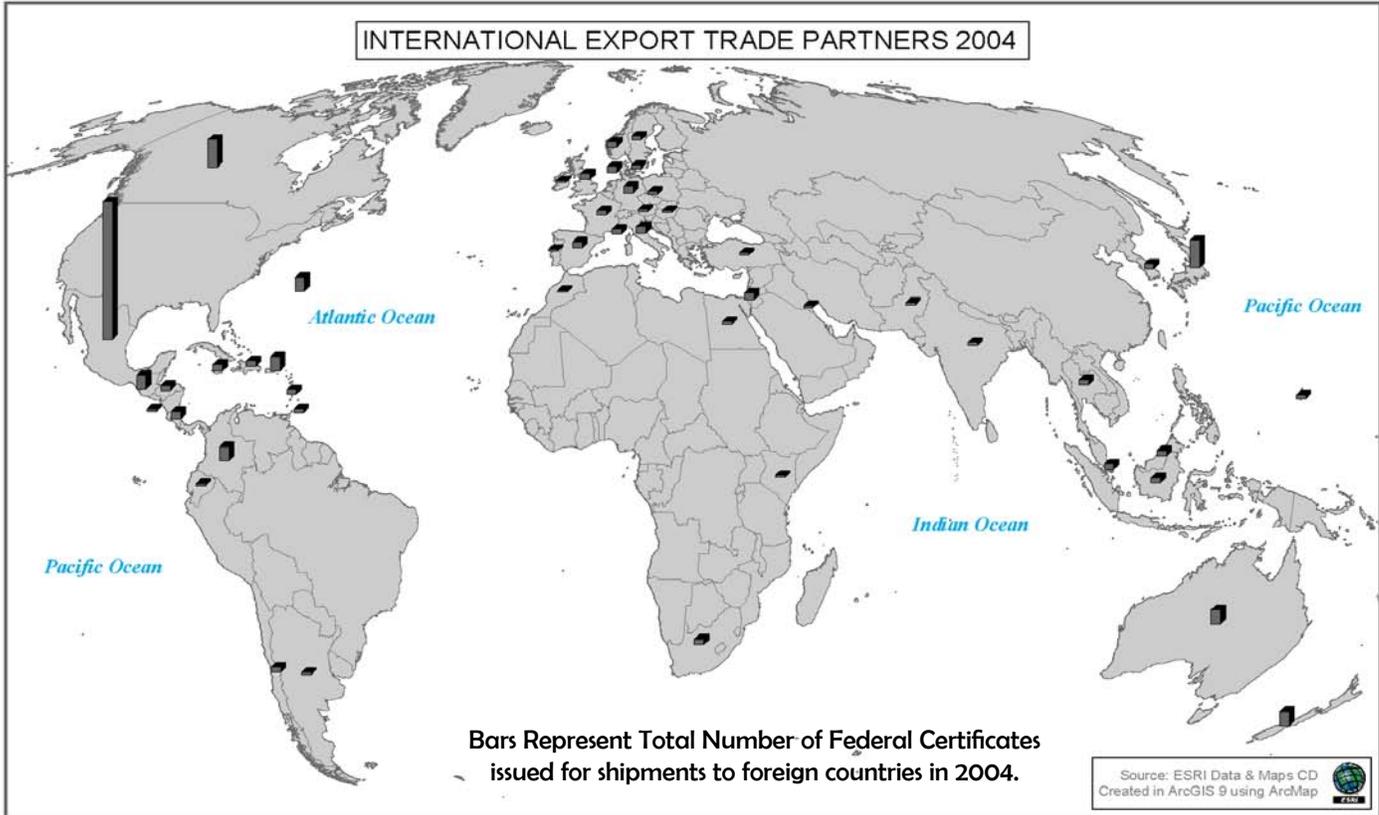
Livestock & Poultry 2003 & 2004

	YEAR		TOTAL WEIGHT		PER UNIT		TOTAL
			CWT	Metric Ton	CWT	Metric Ton	
CATTLE AND CALVES	2004	28,000	210,000	9,524	91	2006	\$19,110,000
	2003	26,000	195,000	8,844	85	1883	\$16,653,000
HOGS AND PIGS	2004	1240	3,100	141	50	1091	\$153,450
	2003	1365	3,413	155	36	787	\$121,844
CHICKENS, MISC. MEAT	2004	1,021,100	36,760	1,667	15	331	\$551,400
	2003	1,355,246	48,789	2,213	15	326	\$722,077
RABBITS	2004	1,200	60	3	50	1091	\$2,970
	2003	2,000	100	5	51	1133	\$5,140
RATITE TOTAL	2004						\$1,100,000
	2003						\$1,186,830
CHICKS	2004	3,250			80/chick		\$260,000
	2003	3,485			78/chick		\$271,830
MEAT	2004	280,000lbs			3/lb		\$840,000
	2003	300,000lbs			3/lb		\$915,000
LAMB,SHEEP	2004	550	550	25	90	1,984	\$49,500
	2003	500	500	23	88	1,940	\$44,000
TOTAL LIVESTOCK AND POULTRY	2004	1,055,340					\$20,967,320
	2003	1,388,596					\$18,732,891

Livestock & Poultry Products 2003 & 2004

	YEAR		TOTAL WEIGHT		PER UNIT		TOTAL
			CWT	Metric Ton	CWT	Metric Ton	
MILK, MARKET	2004		1,133,280	51,399	15	331	\$16,999,200
	2003		1,127,819	51,152	12	263	\$13,454,881
EGGS, CHICKEN MARKET	2004		71,196,600 doz		0.66 doz		\$46,989,756
	2003		78,921,000 doz		0.65 doz		\$51,298,650
RATITE PRODUCTS TOTAL	2004						\$935,250
	2003						\$938,550
HIDES	2004		750		147/hide		\$110,250
	2003		850		145/hide		\$123,250
OIL	2004		3,000 gal		275/gal		\$825,000
	2003		3,100 gal		263/gal		\$815,300
TOTAL LIVESTOCK AND POULTRY PRODUCTS	2004						\$65,859,456
	2003						\$66,630,631

Our Trading Partners



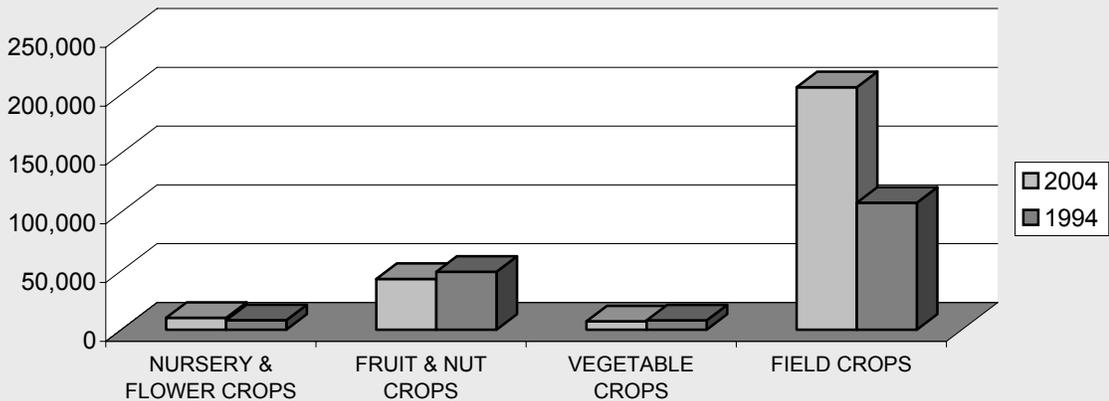
64 Countries - 8440 Shipments

Country	Totals	Country	Totals	Country	Totals
Argentina	1	Guatemala	82	Pakistan	1
Australia	62	Honduras	6	People's Republic of China	545
Austria	1	Hong Kong	28	Philippines	4
Bahamas	11	Hungary	1	Portugal	1
Barbados	2	India	2	Puerto Rico	96
Bermuda	40	Indonesia	6	Republic of Korea	43
Canada	603	Ireland	1	Russian Federation	2
Chile	6	Israel	15	Saipan	1
Colombia	102	Italy	18	Singapore	7
Costa Rica	30	Jamaica	23	South Africa	8
Czech Republic	2	Japan	508	Spain	14
Denmark	2	Kenya	1	Sweden	2
Dominica	3	Korea	4	Switzerland	3
Dominican Republic	7	Kuwait	1	Taiwan	45
Ecuador	1	Malaysia	9	Thailand	10
Egypt	1	Mexico	5886	Trinidad and Tobago	14
El Salvador	1	Morocco	1	Turkey	1
France	3	Netherlands	13	United Kingdom	10
French Polynesia	1	New Zealand	105	Vietnam	1
Germany	25	Northern Mariana Islands	12	Virgin Islands (U.S.)	1
Guam	2	Norway	3		

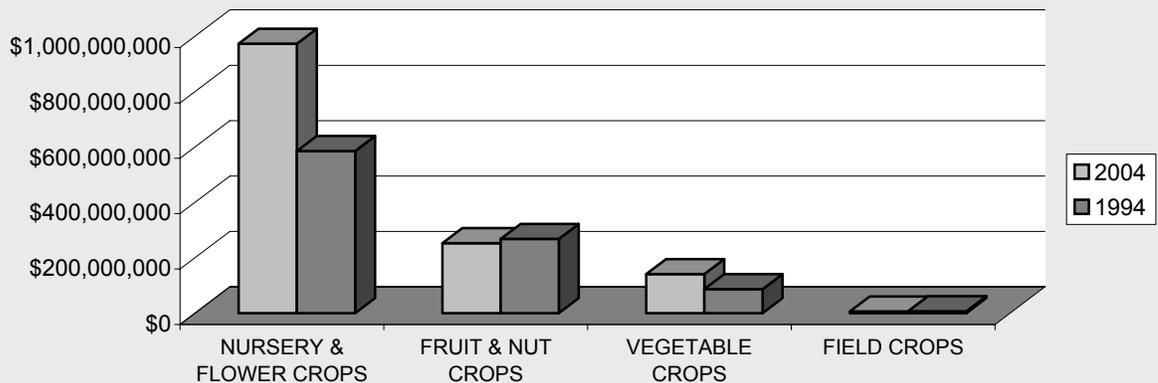
Ten Year Comparison 1994 & 2004

	2004			1994		
	ACRES	HECTARES	VALUE	ACRES	HECTARES	VALUE
Nursery & Flower Crops	10,075	4,077	\$972,928,140	8,037	3,253	\$585,433,138
Fruit & Nut Crops	43,127	17,453	\$252,489,571	49,262	19,936	\$268,572,370
Vegetable Crops	7,083	2,866	\$140,979,535	7,899	3,197	\$89,684,845
Livestock & Poultry Products			\$64,924,206			\$79,198,976
Livestock & Poultry			\$20,967,320			\$15,102,288
Field Crops	206,149	83,427	\$5,939,669	107,925	43,677	\$6,789,921
Apiary Products			\$3,162,300			\$1,409,848
Specialty Crops			\$727,000			\$772,658
TOTALS	266,434	107,823	\$1,462,117,741	173,123	70,063	\$1,046,964,044

ACREAGE COMPARISON



VALUE COMPARISON



Ten Year Comparison 1994 & 2004

Crops Valued at 10 million or more

Crop	2004	1994
Indoor Flowering & Foliage Plants	\$310,589,600	\$230,841,050
Ornamental Trees and Shrubs	\$274,873,900	\$102,426,527
Bedding Plants	\$209,514,000	\$98,012,458
Avocados	\$175,006,539	\$142,060,650
Cut Flowers and Foliage	\$79,306,040	category not reported separately in 1994
Tomatoes	\$68,858,898	\$20,117,539
Eggs	\$46,989,756	\$58,980,914
Poinsettia	\$36,548,700	\$8,758,658
Strawberries	\$29,191,436	\$18,264,758
Herbaceous Perennials	\$19,765,500	\$5,881,121
Cactus and Succulents	\$19,158,600	\$17,425,400
Cattle and Calves	\$19,110,000	\$14,256,000
Herbs	\$17,228,750	\$18,753,685
Milk, Market	\$16,999,200	\$20,212,432
Valencia Oranges	\$14,803,308	\$32,970,564
Lemons	\$12,507,005	\$31,796,517
Mushrooms	\$12,504,800	\$10,827,075
Turf	\$10,621,200	category not reported separately in 1994

Contact us!

Email us at: sdcawm@sdcounty.ca.gov

Program	Services	Call Us!
Agricultural Water Quality	Stormwater; agricultural hazardous material storage.	858.694.3122
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
Pest Exclusion	Licenses to sell nursery products, flowers & foliage; phytosanitary certificates; quarantine compliance certificates; incoming shipments; nursery inspections; Glassy-winged Sharp Shooter; Sudden Oak Death. Inspection Request Line:760.752.4713	760-752-4700
Pest Detection	Exotic insect trapping/eradication.	858.694.4209
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

What Makes Agriculture in San Diego County Unique?

- San Diego County is the most southwestern county in the United States.
- San Diego County has a geographic area of 4,200 square miles, approximately the size of Connecticut, with a population of 2.9 million.
- The U.S. Weather Bureau describes the San Diego climate as the most nearly perfect in America. The San Diego weather can be 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 in San Diego County covers 266,434 acres and ranks 5th as a component of San Diego County's economy.
- San Diego County has 5,255 farms, the third highest number of farms when comparing all counties within the United States.
- 63% of San Diego County farms are 1-9 acres, 37% are greater than 10 acres.
- Median size farm in San Diego is 5 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, and sod.
- San Diego County is also ranked number one in California and the nation in the production value of 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.

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Typical Agriculture - Urban Interface is anything but typical!

San Diego Grown 365



With more than 200 crops grown commercially by San Diego County farmers, San Diego agriculture stands out from other agricultural regions for its great diversity. This abundance of crop variety combined with the County's Mediterranean-like growing climate allows for locally produced agricultural products to be offered year round. Recognizing the unique agricultural opportunities that San Diego has to offer, the County's local growers decided to band together and create a strategy to develop programs that would give San Diego grown products a higher profile to attract consumer attention. This effort resulted in regional branding campaign entitled "San Diego Grown 365".

The mission of San Diego Grown 365 is to "help promote awareness and brand recognition for local producers and products." The program offers the "San Diego Grown 365" trademark (shown above) to farmers who want to promote the fact that their products are produced locally.

A recent survey by the San Diego County Cooperative Extension showed that 70 percent of respondents considered San Diego grown produce better than what they could get from outside the county. This fact underscores the reason why eating locally produced products is cited as one of the top trends and emerging ideas that will affect the way consumers eat, work and live in the new century.

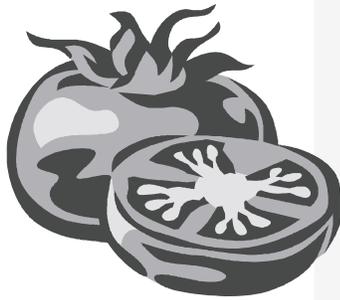
Locally grown products are obviously fresher. Produce grown in the United States is picked an average of four to seven days and travels between 1,500 and 2,500 miles before being available for sale in the supermarket. Products imported from abroad travel even further. Fresher also translates to better taste. Local foods routinely beat long-distance competitors in taste tests.



Growing for a local market also lets farmers take chances on crops that don't travel well, like many varieties of tender heirloom tomatoes. When farmers can select for old-fashioned traits like taste, they grow far more varieties than just those varieties bred for mass production and long distribution life..

Farmers in San Diego County are taking advantage of the growing number of opportunities to offer a myriad of products in the local marketplace. San Diego 365 rallies public support and demand for local agriculture products enabling farming to thrive in a region with high land values, water, energy, and labor costs. San Diego 365 - benefiting both the local grower and the local consumer.

For more information on San Diego Grown 365, please contact us at 858-694-2741. For a list of Certified Farmer's Markets, please refer to: http://www.sdcounty.ca.gov/awm/certified_farmers_markets.html

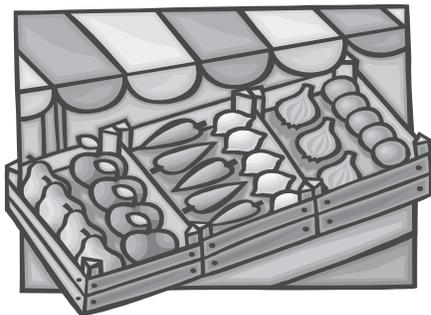


Biosecurity

Following the attacks on September 11, 2001, America's attention and resources has been refocused on homeland security. While emphasis is placed on the security of buildings, bridges, transportation, and power plants, the vulnerability of our agricultural industry has also been recognized. Since 2002 a network of government, universities, and private industry has been established to monitor and protect agriculture. The Western Plant Diagnostic Network is training "First Detectors" to help monitor the introduction of new plant pests or unusual pest outbreaks. The San Diego County Department of Agriculture, Weights and Measures (AWM) is a partner in the Western Plant Diagnostic Network and has trained First Detectors staff working to keep the food supply safe.

Registering Organic Growers

Buying certified organic produce is very important to a significant percentage of the population in San Diego County. Over 300 local organic growers are registered with AWM's Standards Enforcement program. Registering with AWM is the first step for a grower in becoming a certified organic grower. AWM conducts field inspections of organic growers and investigates any consumer complaints. AWM enforces the California Organic Foods Act. The main goal of the Organic Foods Act is to protect producers, handlers, processors, retailers, and consumers of organic foods sold in California by assuring that foods labeled as organic are, in fact, organic. Registering and regulating organic growers... another way AWM is working to make sure the food supply is safe and nutritious.



Certifying Farmers' Markets

San Diego County residents are enjoying the ever-increasing popularity of Certified Farmers' Markets (CFM). Consumers shopping at CFMs are looking to buy the freshest locally produced fruit, vegetables, and cut flowers at reasonable prices. There are 30 active markets within San Diego County. AWM's Standards Enforcement program inspects and certifies both the Markets and the growers who participate in them. AWM's goal is to ensure that the produce and plant material offered for sale at the Certified Farmers' Markets are indeed grown locally and are being offered for sale by the grower or their authorized representative.

Consumers can be confident when shopping at a Certified Farmers' Market that they are getting the freshest locally grown produce in addition to helping out the economy of San Diego County.

THE DEPARTMENT OF AGRICULTURE, WEIGHTS AND MEASURES...



Pesticide Regulation

AWM's Pesticide Regulatory Program partners with the California Department of Pesticide Regulation to enforce the nation's most stringent pesticide laws. Our mission is to protect human health and the environment.

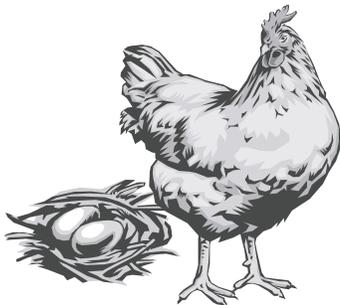
AWM supports the least-toxic pest management on the farm, and in schools and neighborhoods. Our Pesticide Regulatory Inspectors monitor the sale and use of commercial pesticides in San Diego County. The inspectors are responsible for enforcing requirements of California's principle environmental law, the California Environmental Quality Act, in addition to regulations intended to prevent illness or hazards to those required to work with or around pesticides.

Environmental Justice is one of the goals set forth by the California Environmental Protection Agency (Cal/EPA) and embraced by AWM.

Cal/EPA's vision is that "All Californians, regardless of race, age, culture, income, or geographic location, are protected from environmental and health hazards..." and that no group of people "should be disproportionately impacted by pesticides." AWM conducts pesticide related illness investigations and can levy fines against growers and applicators that violate the law.

AWM also conducts outreach to farm workers, growers, pesticide applicators, and others in an effort to educate those who work with or around pesticides in the safe and responsible use of pesticides as part of an Integrated Pest Management (IPM) program. AWM's Pesticide Regulatory inspectors are actively working to ensure the safety of people and the environment in the County of San Diego.

WORKING TO ENSURE THE SAFETY OF YOUR FOOD SUPPLY



Egg Inspection

AWM's Standards Enforcement program inspects eggs at both wholesale and retail levels. Last year, Standard Enforcement Inspectors checked nearly a half a million dozen eggs for quality and wholesomeness.

The inspectors ordered over 81,000 dozen to be removed from distribution due to various defects. Ensuring egg quality is another way AWM is working to make sure your food is safe.

Programs and Services

Plant Health and Pest Prevention Programs - Highlights for 2004 include:

- 9,152 shipments of agricultural commodities were certified to 21 states.
- 1,946 outgoing plant shipments certified as free from Glassy-winged Sharpshooters..
- 7,100 acres of nursery stock inspected at over 800 production facilities.
- In the spring, 22 San Diego County nurseries were surveyed and sampled as part of a national survey for the presence of SOD. In the fall, 34 nurseries covering approximately 2000 acres were inspected for SOD-free certification.



Plant Protection and Quarantine staff maintains the first line of defense against new pests by inspecting incoming shipments of plants and other materials from other states and countries. Staff also certifies 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 works to protect California's wine and table grape industries against the Glassy-winged Sharpshooter, the insect responsible for transmitting Pierce's Disease.

Nursery and Seed inspectors inspect local nurseries and shipments of seed for cleanliness.

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 60 other plants. In 2004, one San Diego County nursery tested positive for SOD resulting in the destruction of the affected plants. A flurry of states banning the importation of California nursery stock in 2004 impacted the nursery industry in San Diego County. The state and federal governments negotiated quarantine protocols, and AWM staff worked overtime to ensure production nurseries were in compliance. Highlights in 2004 include:

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 2004. 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. In 2004:

- 10,307 insect samples were identified, 576 of the samples were submitted by homeowners.
- 1816 bee calls were received from the pest information phone line; 100% more calls than in 2003.
- 4818 sharpshooters were submitted of which 3292 were Glassy-winged Sharpshooters.
- Co-Sponsored Insect Fair at Quail Botanical Gardens introducing kids to the wonderful world of insects.

Plant Pathology/Nematology - San Diego County is one of four counties in the state that has 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 2004 *Phytophthora ramorum*, the microorganism that causes Sudden Oak Death (SOD), was found on nursery stock in a San Diego County nursery. This unexpected discovery led to surveys for SOD in nurseries countywide and in undeveloped land around some nurseries. During 2004:

- Over 3100 nematode samples and 2200 disease samples were processed.
- Over 1800 SOD samples were submitted to the state pathology lab in Sacramento.

Programs and Services

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. 2004 highlights include:

- Over 212,829 inspections of 10,099 insect traps.
- Exotic, "A" rated pests including Oriental Fruit Fly, Guava Fruit Fly, and Gypsy Moth 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 to San Diego County with potentially serious implications for the state's avocado industry.
- Pest Detection played an instrumental role in the international response to a large infestation of Mediterranean Fruit Fly discovered in Tijuana, Mexico in the fall of 2004.



Integrated Pest Control - 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 2004, 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, including participation in 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. Highlights for 2004:

- Responded to 1,300 service requests for insect and rodent control at County facilities including 100+ requests for removal of honeybee swarms or colonies.
- Performed weed control along 14,000 miles of County-maintained roadside right of ways, flood control channels, and County-owned airport runways and taxiways improving the safety for county residents.

Environmental Services Programs -

Environmental Services prepares crop statistics, documents agricultural losses, and gives input to other County agencies on land use projects affecting agricultural lands and the County's Multiple Species Conservation Program. ES also deals in special projects involved with community outreach, media relations, and the County Board of Supervisors.

GIS (Geographic Information Source) is a technology tool that allows 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.

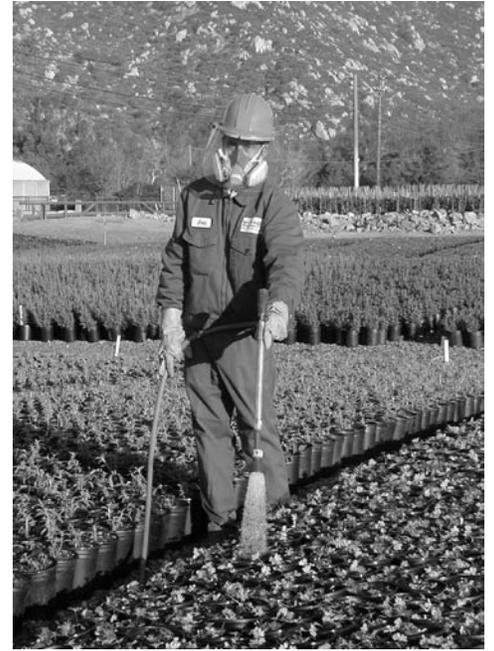
Agricultural Water Quality Unit provides educational outreach to operators of agricultural facilities with the potential for discharging pollutants such as fertilizers, pesticides, and sediment. The program visits nearly 200 sites each year as part of a core inspection program. The unit's educational efforts have resulted in greater community awareness of water quality issues and produced a high volume of calls to the Department regarding the discharge of pollutants to the waters of the region. The Hazardous Materials Inventory Unit visits production agriculture sites to inventory hazardous materials and ensure that the operators of facilities storing these materials have prepared plans to address potential emergency situations.

Watershed Management - In 2004, the Watershed Management Program worked with the Forest Area Safety Task Force and other County Departments to implement the \$40 million in federal grant funds to eliminate the hazards posed by dead, dying, and diseased trees in the forested areas of San Diego County. During 2004, the Prescribed Burn Team participated in controlled burns with the California Department of Parks and Recreation to reduce the fire hazard in Palomar Mountain State Park.

Programs and Services

Pesticide Regulation - The Pesticide Regulatory Program (PRP) is the local enforcement agency for administration and enforcement of state pesticide laws in the County of San Diego. In addition to enforcement inspections, PRP is responsible for conducting pesticide illness investigations and responding to pesticide complaints received from the general public. PRP holds a monthly meeting with community organizations, farm/industry groups, and other government departments as part of the Farm Worker Health Initiative. PRP staff also speaks at industry outreach events and participates in Health Fairs to raise awareness of pesticide safety. Highlights for 2004:

- 1352 various categories of pesticide inspections conducted.
- 1172 restricted materials permits issued.
- 66 pesticide complaints and illness incidents investigated.
- 15 training sessions conducted with a total of 741 attendees.
- In recognition of the role of Integrated Pest Management (IPM) in assuring a safe environment, PRP assisted the Department of Public Works for San Diego County in the development of materials for a countywide outreach program to the general public on IPM practices.
- San Diego became one of five counties in the State to offer online Monthly Pesticide Use Reporting to commercial pesticide users.



Standards Enforcement - The Standards Enforcement 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 2004:

- 37,265 weighing and measuring devices inspected to provide assurance of accuracy to both purchasers and sellers in transactions based upon weight, measure, or count. Over 3024 devices were found to be incorrect and repairs were required before being permitted back into commercial use.
- 181 random sample packages of assorted commodities were tested to verify labeled contents, and as a result, 828 packages were removed from sale due to short weight/short volume.
- 21,186 items were tested for price accuracy at stores throughout the county. In the process of testing more than 691 overcharges were discovered.
- 179 local growers certified by Direct Marketing staff to participate in one or more of the 30 Certified Farmers' Markets in the County



- In the Shell Egg Quality Program 462,143 dozen eggs were inspected for quality and wholesomeness. Over 81,000 dozen eggs were removed from distribution due to various defects.

Two civil suits were filed in 2004. One suit against a major department store found to be overcharging consumers resulted in a settlement of \$1.2 million. The second civil suit against a large pet-store chain found to be overcharging consumers through its scanner system resulted in a settlement of \$550,000 as well as the pet store chain ordered to provide portable price scanning equipment for each of its California stores.

Programs and Services

Office of the County Veterinarian — The County Veterinarian operates the only veterinary necropsy laboratory in the County. 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, 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). Highlights for 2004:

- Over 2800 animal samples were submitted for tests including necropsies, rabies tests, bacterial cultures, viral cultures, and serology.
- 761 necropsies performed, comprised of 249 dogs, 212 cats, 185 birds, 40 livestock, 31 lab animal/exotics, 16 fish/reptiles/amphibians, and 29 wildlife.

Information Technology - IT support continues to find ways to streamline processes 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/>.

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. 243 cases prosecuted resulted in fines. Weights and Measures Civil Penalties accounted for 145 of the cases, Structural Pest Control Civil Penalties for 57 cases, Agricultural Civil Penalties 36 cases, and Certified Farmers' Market for 5 of the cases.

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



Grazing Land in Guejito Ranch

Department Personnel

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

EXECUTIVE OFFICE

Marci Powell: Admin Secretary III
Zielinski, Tony: Admin Secretary I

CIVIL ACTIONS

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

OFFICE OF THE COUNTY VETERINARIAN

Dr. Gurfield, Nikos: County Veterinarian
Dr. Dunne, Gundula: Assoc. Vet Pathologist

ANIMAL DISEASE DIAGNOSTIC LABORATORY

Williams, Kimberley: Animal Care Attendant
Keon, Elyse: Office Support Specialist
Leong, Margaret: ASI Pereira, Laurie: Reg Vet Tech
Shannon, Cynthia: Clinical Lab Scientist
Wempren, Alexina: Histology Tech

WILDLIFE SERVICES

Rojeles, Al Cox, Terry Erik Waardenburg

ENTOMOLOGY LAB

Dr. Kellum, David: County Entomologist
Jones, George: Entomology/Apiary Spec.

PLANT PATHOLOGY/NEMATOLOGY LAB

Nolan, Pat: County Plant Pathologist/Nematologist
Estrella, Dinna: IDS II

AGRICULTURE & STANDARDS

PEST DETECTION

Durso, Stephe: Deputy Ag Comm/Sealer
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
Austin, Jonathan, IDS I Bacon, Warren: IDS II
Blank, Linda: IDS II Bryant, Robert: IDS II
Burkman, Brian, IDS II Buttner, Mark: IDS II
DuMolt, Lisa: IDS II Fregoso, Jorge: IDS II
Ghebretseca, Kahsai: IDS II Hock, Kim: IDS II
Jefferson, Sharrod: IDS II Joseph, Roy: IDS II
Lee, Mark: IDS I Miller, Bob: IDS II
Moss, Belinda: IDS II Penn, Celeste: IDS II
Randall, Larry: IDS II Rowin, Mary: IDS II
Sharon, Alan: IDS II Stevens, Mazen: IDS II
Thewlis, Joan: IDS II Velardi, John: IDS II
Waldrop, Bill: IDS II

INTEGRATED PEST CONTROL

Winans, Bill: Sr ASI Graves, Walter: Env Mgt Spec II
Hobgood, Ron: Sup Pest Mgt Tech
Cadena, Paul: Pest Mgt Tech II Daly, James: Pest Mgt Tech II
Gardner, Bruce: Pest Mgt Tech II
Martinez, Mark: Pest Mgt Tech II

PESTICIDE REGULATION

Hardy, Simone: Deputy Ag Comm/Sealer
Connelly, Neil: Supv ASI Rick Walsh: Supv ASI
Amador, Abdel: ASI Anzaldo-Heredia, Veronica: ASI
Avina, Tony: ASI Bilog, Gemma: Sr Clerk
Carr, Colleen: Sr ASI Lewis, Derek: Imaging Tech
Joseph, Sabumon: ICT McCutcheon, Flo: Sr ASI
Moore, Megan: Sr ASI Moreno, Lauren: ASI
Olsen, Ted: Sr ASI Springer, Kathryn: Sr ASI
Syzonenko, Nancy: Sr ASI Thomas, Tina: ICT

PLANT HEALTH & PEST PREVENTION

Neville, Cathy: Deputy Ag Comm/Sealer
Brandon, Delores: Supv ASI Matsumoto, Ted: Supv ASI
Albers, Katie: IDS II Bixby, Clark: Sr ASI
Desserich, Steve: Sr ASI Dobbins, Katie: Sr ASI
Farhoomand, Manige: Sr ASI Feeley, Mike: ASI
Javed, Saiqa, IDS II MacGregor, Robert: ASI
Metcalf, Howard: Temp Sr ASI Nelson, Matt: Temp ASI
Olivares, Jorge: ASI Persky, Rick: ASI
Rodriguez, Vicente: Sr ASI Sixtus, Ann: Sr ASI
Terhall, Greg: ASI Westrick, Jeff: IDS II
Woods, Daneen: Sr Clerk Worcester, Lindsay: Sr ASI

PIERCE'S DISEASE CONTROL

Davis, Cindy: Supv ASI
Betschart, Chris: Sr ASI Elder, Travis: IDS
Moss, Adrienne: ASI Partch, Jeremy: IDS II
Robinson, Steve: IDS II Roma, Robert: IDS II
Wube, Muluneh: ASI

STANDARDS ENFORCEMENT

Burton, Ris: ICT Roughton, Mark: Sr Clerk
Shimamoto, Rika: ICT

AGRICULTURAL STANDARDS

Redding, Stasi: Supv ASI
Appel, Nancy: Sr ASI DeWall, Paula: ASI
Gordon, Lynn: Sr ASI Guidry, Lee: Sr ASI
Holbrook, Tim: ASI

MEASUREMENT STANDARDS

Williams, Rick: Supv ASI
Bloomer, Tom: Sr ASI Braaten, Glenn: ASI
Byers, James: Sr ASI Duran, Jose-Concepcion: ASI
Gionfriddo, John: ASI Kebede, Atlaw: Sr ASI
Mares, Marco: Sr ASI Ong, Quang: ASI
Shiplely, Brad: ASI Silva, Annie: ASI

SPECIAL PROGRAMS & SUPPORT

Renee Hilton: Deputy Director

BUDGET / ACCOUNTING

Aragaki, Susi: Principal Admin Analyst
Derosé, Ardath: Admin Analyst II Goff, Linda: Supv Clerk
Belenzo, Armando: Acc Clerk Spec.
Marshall, Marilyn: Office Support Spec. -Reception
Tully, Leah: Office Support Spec. - Purchasing

PERSONNEL / PAYROLL

Bradburn, Donald: Dept. Personnel Officer II
Lawson, Jennifer: Personnel Aide

INFO TECHNOLOGY

Schaer, Candy: Deputy Ag Comm/Sealer

ENVIRONMENTAL ISSUES/GIS

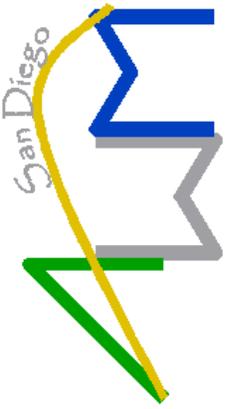
Nielsen, Dawn: Deputy Ag Comm/Sealer
Melvin, Karen: Sr ASI Acosta, Vince: Sr ASI

AG STORMWATER/HAZMAT

Davy, Paul: Supv ASI
Fritz, David: Sr ASI Silva, Nestor: ASI

WATERSHED

Eisele, Bob: Watershed Mgr.



County of San Diego
Department of Agriculture,
Weights & Measures

Agriculture, Weights & Measures

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San Diego, California 92123-1292