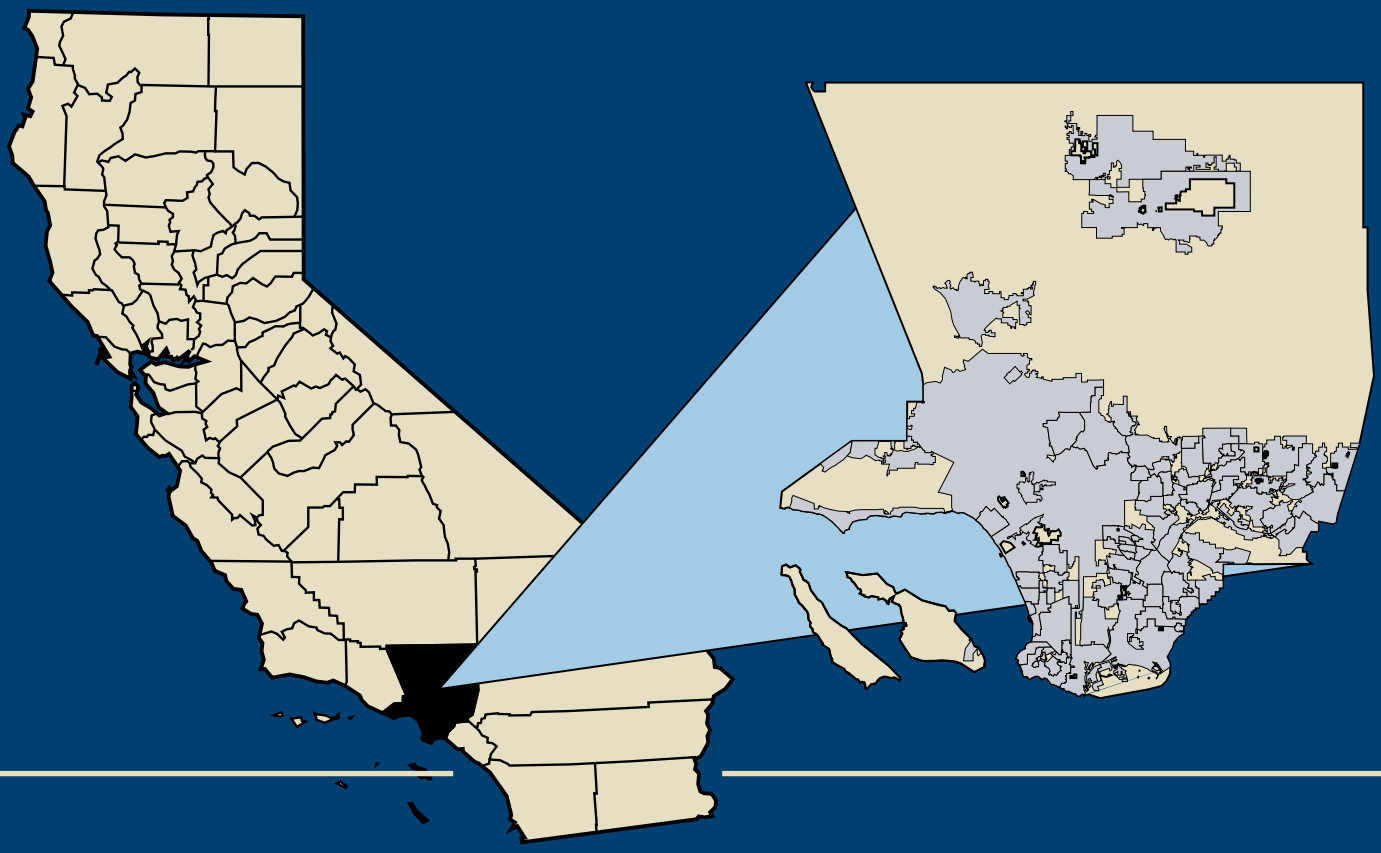
"The Great Conduit of California Agriculture"



2007

Los Angeles County Crop and Livestock Report

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On the cover:

The Grand Central Market, celebrating 90 years. The oldest and largest open-air market in the area, it gathers dozens of merchants offering a remarkable variety of fresh foods in the heart of downtown Los Angeles: fruits, vegetables, meats, herbs, spices, nuts, and candies. Fresh cut flowers and other plants are also offered, naturally, as nursery stock is Los Angeles County's top agricultural product.

Los Angeles County is the great conduit of California agriculture. Although many of our farms, ranches, groves, and nurseries have been replaced over the years by housing tracts and business parks, we're still an agricultural hub. The Ports of Los Angeles and Long Beach are an unparalleled American import/export gateway. Los Angeles International Airport handles enormous volumes of cargo. The Los Angeles Wholesale Produce Market, the largest operation of its kind in the nation, bustles with customers in the heart of Los Angeles.

Over ten million residents comprise a massive consumer base - and that isn't taking into account the commuters, business travelers, and tourists who pour into Los Angeles on a daily basis. More than one-hundred Certified Farmers Markets grace the landscape, most of them operating year-round. As a result of these realities, much of California's harvest flows to - and through - Los Angeles as our residents, visitors, and many others throughout the world enjoy a healthy, California-grown bounty.

DON'T BUG ME

Don't bring uninspected fruit into California...please.

Los Angeles County is home to over 10 million people, many of whom have roots in other countries near and far. Of course, our county also hosts millions of tourists annually. "Tourism Season" can bring exotic pest introductions as well. Our pest data is a reflection of these realities. Sometimes, it can feel like "Pest Season" year round.

Unpredictable Weather in "Sunny California"

You've always heard that Southern California is a place where the sun always shines and it is never really cold. Unfortunately, that is not quite true. We do have our seasons in Los Angeles County. In fact, during our winter, it is not uncommon to see snow on the highest mountain tops of our San Gabriel Mountain range. Well this winter, the unpredictable nature of weather hit us again with noteworthy freezing temperatures.

In the middle of January, a low pressure system from the Artic brought freezing temperatures to much of the western United States. In Los Angeles County, January 17, 2007 saw honest-to-goodness snowflakes fall in the beach community of Malibu. Surfing and skiing in the same neighborhood? Well, not quite, but it sure felt cold enough for that to happen. In the Antelope Valley, on January 14, temperatures fell to three degrees Fahrenheit. Los Angeles County alone suffered over $14 Million dollars in crop losses.

Ninety-five percent of the freeze damage, by dollar value loss, was in nursery stock. This was a disproportionately large loss given that nursery stock, the county's top crop, represents about seventy percent of the total dollar value of our county's agricultural output.

More severe freeze damage can be found in the county's history. A 1949 document about a freeze in January of that year reports "widespread damage to young citrus and avocado trees throughout Los Angeles County." That was back when Los Angeles was still the top county in agricultural production, and farms and orchards still covered places like the now densely populated San Fernando Valley.

In addition to 1949, Los Angeles County endured significant freezes in December 1990, January 1937, January 1922, and January 1913. Smudge pots were developed after a disastrous freeze in Southern California in June 1913 that wiped out a whole crop.

Let us hope that this really cold weather is just a very rare abnormality to an otherwise warm and sunny Southern California.

Photograph by Dan Berry (Top Right): Icicles, Children's Garden, The Huntington Library, Art Collections, and Botanical Gardens

Antique Smudge Pot, Monrovia Nursery

Wind Machine, Norman's Nursery

COUNTY OF LOS ANGELES

Department of
Agricultural Commissioner/
Weights and Measures

http://acwm.lacounty.gov

Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

Richard K. Iizuka
Chief Deputy

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

and

The Honorable Board of Supervisors
County of Los Angeles

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Zev Yaroslavsky - Third District
Mark Ridley-Thomas - Second District
Michael D. Antonovich - Fifth District

2007 CROP AND LIVESTOCK REPORT

The total gross value of agricultural crops and commodities produced in Los Angeles County during 2007 was **$253,368,000**. This value reflects a slight 6.48% decrease from last year's total of $270,915,000. Although this is the third consecutive year that overall production values have decreased in Los Angeles County, impressive growth was seen in several agricultural commodity groups. Field crops (grain and alfalfa hay) were up by 12% due to stronger prices and increased yields. Dairy and livestock product values were up by 36.7%, due primarily to significant increases in prices for milk. Vine crop acreage increased significantly by 42.7% and total production value was up by 69.5%.

Nursery products remain the number one crop in Los Angeles County. The freeze of January 2007 negatively affected production of ornamental trees, indoor foliage plants, and other miscellaneous nursery products. Offsetting those losses, though, were increases in values and yields of bedding plants, ground covers, indoor flowering plants, and cut flowers. Also affected by the freeze were strawberries, cherries, various stone fruits, and citrus. Above-normal temperatures may have also contributed to losses in yields of fruit and nut crops. A decline in availability of bees and unfavorable dry weather conditions resulted in a significant decline in honey production during 2007.

Growers in Los Angeles County, and throughout the state are, as always, to be commended for their hard work and determination in competing with increasing imports, escalating production costs, and pressures from introduced pests.

I wish to express my sincere appreciation to each of the producers and individuals who provided information for this report. My thanks are extended to the skilled and dedicated staff of this department who continue to do an excellent job in serving and protecting the agricultural community and in compiling these important statistics.

Respectfully submitted,

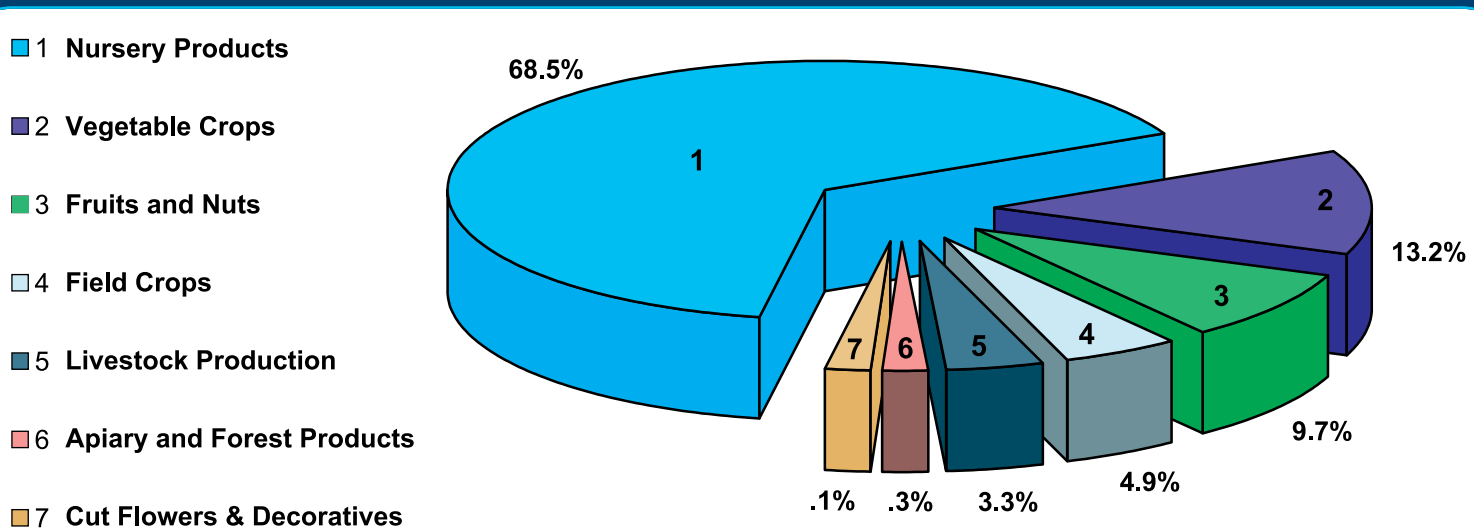
Kurt E. Floren
Agricultural Commissioner/
Director of Weights and Measures

This annual publication presents statistical information on acreage, yield, and gross value of agricultural products produced in Los Angeles County. This is published in accordance with Sections 2272 and 2279 of the California Food and Agricultural Code. The production values in this report represent gross values and do not reflect the cost of production, net income, or loss to producers.

Million Dollar Commodities

1.	Ornamental Trees and Shrubs	$104,681,000	8.	Indoor Plants, Foliage	$4,284,000
2.	Bedding Plants	$43,144,000	9.	Grapes	$4,136,000
3.	Root Vegetables	$27,707,000	10.	Strawberries	$3,008,000
4.	Orchard Fruit	$16,475,000	11.	Ground Covers	$2,877,000
5.	Alfalfa Hay	$9,286,000	12.	Vine Crops	$2,359,000
6.	Dairy & Livestock	$8,513,000	13.	Grain Hay	$1,768,000
7.	Indoor Plants, Flowering	$4,425,000			

SUMMARY



Commodity	2006	2007
Nursery Products	$191,879,000	$173,580,000
Cut Flowers & Decoratives	$581,000	$734,000
Fruits and Nuts	$26,674,000	$24,469,000
Vegetable Crops	$33,146,000	$33,523,000
Field Crops	$11,176,000	$12,327,000
Livestock Production	$6,228,000	$8,513,000
Apiary	$1,211,000	$207,000
Forest Products	$20,000	$15,000
TOTAL	$270,915,000	$253,368,000

Nursery Products

Item	Year	Green House Square Feet	Field Acres	Total Value	
Ornamental Trees	**2007**	**3,378,000**	**1,447**	**$104,681,000**	▼
	2006	4,172,000	1,507	$119,147,000	
Bedding Plants	**2007**	**1,636,000**	**159**	**$43,144,000**	▲
	2006	1,617,000	152	$37,041,000	
Indoor Plants, Flowering	**2007**	**534,000**	**2**	**$4,425,000**	▲
	2006	552,000	2	$3,947,000	
Indoor Plants, Foliage	**2007**	**408,000**	**7**	**$4,284,000**	▼
	2006	435,000	57	$6,302,000	
Ground Covers	**2007**	**167,000**	**26**	**$2,877,000**	▲
	2006	289,000	42	$2,539,000	
Miscellaneous *	**2007**	**203,000**	**967**	**$14,169,000**	▼
	2006	279,000	1,736	$22,903,000	
* Includes perennials, vegetable plants, bonsai plants, orchids, sod, palm trees, and cacti.					
TOTAL	**2007**	**6,326,000**	**2,608**	**$173,580,000**	▼
	2006	7,344,000	3,496	$191,879,000	

Cut Flowers & Decoratives

Item	Year	Green House Square Feet	Field Acres	Total Value	
Miscellaneous *	**2007**	**384,000**	**70**	**$734,000**	▲
	2006	249,000	70	$581,000	
* Includes lilacs, pompoms, freesias, fruit blossoms, mums, snapdragons, yarrow, delphiniums, Christmas trees, and other miscellaneous.					

Item	Year	Acreage	Production Per Acre	Production Total	Unit	Value Per Unit	Total Value	
Strawberries	**2007**	**112**	**10.2**	**1,139**	**Ton**	**$2,641**	**$3,008,000**	▼
	2006	106	17.3	1,830		$2,711	$4,961,000	
Avocados	**2007**	**53**	**1.2**	**64**	**Ton**	**$1,450**	**$93,000**	▲
	2006	60	1.7	100		$658	$66,000	
Cherries	**2007**	**155**	**0.2**	**28**	**Ton**	**$3,986**	**$112,000**	▼
	2006	155	0.9	138		$4,500	$621,000	
Apples	**2007**	**130**	**3.0**	**390**	**Ton**	**$1,500**	**$585,000**	▼
	2006	145	5.0	725		$1,500	$1,087,000	
Grapes	**2007**	**329**	**3.9**	**1,273**	**Ton**	**$3,249**	**$4,136,000**	▲
	2006	341	3.4	1,149		$1,224	$1,407,000	
Orchard Fruit	**2007**	**1,080**	Includes nectarines, peaches, pears, plums, oranges, tangerines, apricots, lemons, and grapefruits.				**$16,475,000**	▼
	2006	1,088					$18,474,000	
Miscellaneous	**2007**	**47**	Includes figs, pistachios, raspberries, other miscellaneous fruit, and nut crops.				**$60,000**	▲
	2006	28					$58,000	
TOTAL	**2007**	**1,906**					**$24,469,000**	▼
	2005	1,923					$26,674,000	

Fruit & Nut Crops

Item	Year	Acreage	Production Per Acre	Production Total	Unit	Value Per Unit	Total Value	
Root Vegetables	**2007**	**5,703**	Includes dry onions, carrots, potatoes, radishes, beets, turnips, and other root vegetables.				**$27,707,000**	▼
	2006	5,629					$29,446,000	
Herbs	**2007**	**26**	Includes cilantro, parsley, chives, mint, thyme, and other herb vegetables.				**$486,000**	▼
	2006	40					$1,143,000	
Table Greens	**2007**	**25**	Includes spinach, kale, oriental specialties, and lettuce.				**$963,000**	▲
	2006	19					$221,000	
Vine Crops	**2007**	**147**	Includes cucumbers, green beans, melons, pumpkins, squash, tomatoes, watermelons, and zucchini.				**$2,359,000**	▲
	2006	103					$1,392,000	
Miscellaneous	**2007**	**680**	Includes bell peppers, cacti, celery, chard, sweet corn, green onions, Mexican onions, and other miscellaneous.				**$2,008,000**	▲
	2005	168					$944,000	
TOTAL	**2007**	**6,581**					**$33,523,000**	▲
	2006	5,959					$33,146,000	

Vegetable Crops

Field Crops

Item	Year	Acreage	Production Per Acre	Production Total	Unit	Value Per Unit	Total Value	
Alfalfa Hay	**2007**	**5,804**	**8.6**	**49,735**	**Ton**	**$187**	**$9,286,000**	▲
	2006	5,455	8.5	46,355		$180	$8,350,000	
Grain Hay	**2007**	**3,002**	**3.8**	**11,406**	**Ton**	**$155**	**$1,768,000**	▲
	2006	3,500	3.2	11,200		$140	$1,570,000	
Rangeland	**2007**	**42,200**					**$480,000**	▼
	2006	45,000					$585,000	
Miscellaneous	**2007**	**1,395 ***					**** $793,000**	▲
	2006	1,680 *					** $671,000	
TOTAL	**2007**	**10,201 *****					**$12,327,000**	▲
	2006	10,635 ***					$11,176,000	

* Acreage excludes stubble.
** Value includes irrigated pasture, sudan hay, oat hay, and grazing privileges on stubble.
*** Excluding rangeland and stubble.

Dairy & Livestock

Item	Year		Total Value	
	2007	Includes dairy cattle, beef cattle, hogs, goats, chickens, milk, goat milk, eggs, etc.	**$8,513,000**	▲
	2006		$6,228,000	

APIARY

Item	Year	Production	Unit	Value Per Unit	Total Value
Honey	**2007**	**65,070**	**Lb.**	**$2.05**	**$134,000** ▼
	2006	849,923		$1.12	$941,000
Beeswax	**2007**	**115**	**Lb.**	**$1.50**	**$1,000** ▼
	2006	16,271		$3.44	$56,000
Miscellaneous	**2007**				**$72,000** ▼
	2006				$214,000
TOTAL	**2007**				**$207,000** ▼
	2006				$1,211,000

16 Urban Insect Series

Honey Bee

Apis mellifera


actual size


Honey bees are social and live in colonies of up to 100,000 bees.

The familiar honey bee provides honey, beeswax, and pollination that produces fruits, vegetables and seeds. The honey bee's contribution to food production in the U.S. is worth almost $15 billion annually. We've lost many bee colonies nationwide to the mysterious Colony Collapse Disorder.

CATEGORY
INTRODUCED BENEFICIAL INSECT

Photos by Jim Wiseman

Compliments of the Los Angeles County Department of Agricultural Commissioner/Weights and Measures
Kurt E. Floren, Commissioner/Director
http://acwm.co.la.ca.us
626.575.5471

Item	Year		Total Value
Firewood *	**2007**		**$15,000** ▼
	2006		$20,000

* Figures obtained from USDA Forest Services, Angeles National Forest.

FOREST PRODUCTS

Sustainable Agriculture Reporting

ORGANIC FARMING STATISTICS		
	ESTIMATED ACRES	
CROPS	2007	2006
Apples	0.05	1
Apricots	8	8
Avocados	18	5
Cantaloupes	0	0
Cactus Pears	3	3
Cherimoyas	1	1
Cherries	1	1
Citrus	25	24
Grapes	28	27
Herbs (including sprouts)	3	3
Peaches	13	13
Pears	0.02	0
Persimmons	1	1
Pomegranates	1	1
Miscellaneous	1	1
Vegetables	33	22
TOTAL	**136.07**	**111**

YEAR	FARMS	ACRES
2007	18	136.07
2006	16	111

Pest Detection Activities

PEST	NUMBER OF TRAPS	SPECIMENS TRAPPED
Mexican Fruit Fly	**4,987**	**1**
Mediterranean Fruit Fly	**5,029**	**20**
Melon Fly	**5,020**	**0**
Oriental Fruit Fly	**5,020**	**16**
Guava Fruit Fly (traps shared with Oriental Fruit Fly)		**3**
Gypsy Moth	**3,780**	**1**
Asian Gypsy Moth (traps shared with Gypsy Moth)		**2**
Japanese Beetle	**3,093**	**5**
Khapra Beetle	**287**	**0**
European Pine Shoot Moth	**10**	**0**
European Corn Borer	**4**	**0**
Light Brown Apple Moth	**4,987**	**1**
TOTAL	**32,217**	**49**

Pest Eradication Activities

PEST	METHOD	SCOPE of PROGRAM
Mediterranean Fruit Fly	**Ground bait and increased Mediterranean Fruit Fly release**	**1 treatment area (continued from 2006)**
Mexican Fruit Fly	**Ground bait and sterile Mexican Fruit Fly release**	**1 treatment area**
Oriental Fruit Fly	**Male annihilation**	**3 treatment areas**
Guava Fruit Fly	**Male annihilation**	**1 treatment area**
Mediterranean Fruit Fly	**Continued preventative program: sterile Medfly release**	**Approximately 13.4 billion steriles released**
Red Imported Fire Ant	**Treatments completed Survey Work**	**960 properties 13,289 properties/9,468 acres**

Biological Control Activities

PEST	AGENT / MECHANISM	SCOPE of PROGRAM
Mediterranean Fruit Fly	**Sterile Release**	**13,451,128,063 sterile flies released**

Pest Exclusion Activities

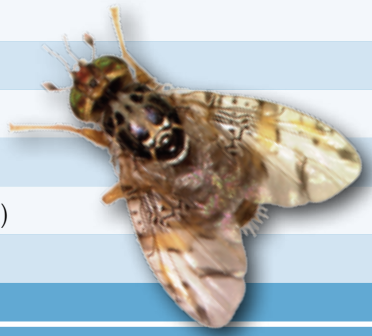
PEST EXCLUSION VIOLATION	# of VIOLATIONS ISSUED
Infested/Presumed Infested	457
Markings	16
Burrowing and Reniform Nematodes	1
Caribbean Fruit Fly	4
Cedar Apple Rust	1
Cherry Fruit Fly	0
Citrus Canker	2
Citrus Pests	7
Colorado Potato Beetle	0
Failure to Hold	22
Federal (Hawaiian) Quarantine	6
Imported Fire Ant	0
Japanese Beetle	1
Mishandling	0
Plum Curculio and Blueberry Maggot	0
Sweet Potato Weevil	0
Gypsy Moth	1
Walnut and Pecan Pests	1
Chestnut Bark disease & Oak Wilt Disease	1
TOTAL	520

Diaprepes Root Weevil Life Cycle

PEST INTERCEPTED *Genus species* (Common Name)	MATERIAL	SOURCE*	# of INTERCEPTIONS
Entomology Laboratory			
Abgrallaspis / Diaspidiotus spp. complex (Armored scale)	Avocado	Quar	27
Acutaspis albopicta (Albopicta scale)	Cut foliage/Avocado	Quar	3
Agallia sp. (Leafhopper)	Cut foliage	Quar	7
Aleuroclava jasmini (Jasmine whitefly)	Cut foliage	Quar	1
Aleurodicus dispersus (Spiraling whitefly)	Cut foliage	Quar	33
Aleurotrachelus sp. (Whitefly)	Cut foliage/Palm	Quar/Nurs	16
Anoplolepis gracilipes (Long-legged ant)	Cut foliage	Quar	2
Aonidiella orientalis (Oriental scale)	Cycad	Quar	1
Aspidiotus destructor (Coconut scale)	Cut foliage	Quar	24
Aspidiotus excisus (Aglaonema scale)	Ti leaves	Quar	1
Atractomorpha sinensis (Slant-faced grasshopper)	Basil	Quar	6
Aulacaspis yasumatsui (Cycad aulacapsis scale)	Cycad	Quar	13
Bradybaena similaris (Snail)	Cut foliage	Quar	32
Cacopsylla sp. (Psyllid)	Pittosporum	Nurs	2
Camponotus sp. (Carpenter ant)	Fern leaves	Quar	1
Ceroplastes rusci (Fig wax scale)	Palm	Quar	3

Pest Exclusion Activities

PEST INTERCEPTED *Genus species* (Common name)	MATERIAL	SOURCE*	# of INTERCEPTIONS
Entomology Laboratory			
Chrysodeixis eriosoma (Green garden looper)	Cut foliage	Quar	20
Chrysophtharta m-fuscum (Eucalypus leaf beetle)	Nursery plans	Nurs	1
Coccus acutissimus (Slender soft scale)	Cut foliage	Quar	1
Coccus sp. (Soft scale)	Cut foliage	Quar	6
Conocephalus saltator (Katydid)	Cut foliage	Quar	2
Cylas formicarius (Sweet potto weevil)	Ginger	Quar	1
Darna pallivitta (Limacodid morth)	Dracaena	Quar	1
Dialeurodes sp. (Whitefly)	Shefflera	Quar	1
Diaphania nitidalis (Pickleworm)	Cucumber	Quar	12
Diploptera punctata (Pacific beetle cockroach)	Cut foliage	Quar	4
Disclisioprocta stellata (Bougainvillea looper)	Bougainvillea	Public	2
Empoasca sp. (Leafhopper)	Cut foliage	Quar	3
Exillis sp. (Fungus weevil)	Malongai	Quar	1
Ferrisia virgata (Striped mealybug)	Betel leaves	Quar	2
Geotomus pygmaeus (Burrowing bug)	Curry leaves	Quar	1
Graptostethus manillensis (Lygaeid bug)	Cut foliage	Quar	2
Gyponana germari (Leafhopper)	Cut foliage	Quar	40
Halyomorpha halys (Brown mamorted stink bug)	Ornamental plants	Public	1
Homalodisca vitripennis (Glassy-winged sharpshooter - adults)	Nursery plants	Nurs	563
Homalodisca vitripennis (Glassy-winged sharpshooter - eggs)	Nursery plants	Nurs	489
Ishnapsis longirostris (Black thread scale)	Cut foliage	Quar	2
Kallitaxila granulata (Planthopper)	Cut foliage	Quar	67
Lepidosaphes rubrovittata (Armored scale)	Palm leaves	Quar	3
Lepidosaphes stepta (Armored scale)	Palm leaves	Quar	1
Meghimatium striatum (Slug)	Draceana	Quar	1
Melormenis sp. (Planthopper)	Curry leaves	Quar	2
Milviscutulus mangiferae (Mango shield scale)	Cut foliage	Quar	2
Nipaecoccus sp. (Coconut mealybug)	Palm	Quar/Nurs	3
Nysius sp. (Lygaeid bug)	Cut foliage	Quar	27
Oceanides sp. (Lygaeid bug)	Herbs	Quar	1
Ochetellus glaber (Ant)	Cut foliage	Quar	4
Oliarus sp. (Cixiid planthopper)	Cut foliage	Quar	1
Oncometopia sp. (Leafhopper)	Dracaena	Quar	1
Orchidophilus sp. (Weevil)	Cut foliage	Quar	2
Palmicultor lumpurensis (Mealybug)	Bamboo	Nurs	1
Paraleyrodes sp. (Whitefly)	Betel leaves	Quar	1



Pest Exclusion Activities

PEST INTERCEPTED *Genus species* (Common name)	MATERIAL	SOURCE*	INTERCEPTIONS
Entomology Laboratory			
Phaneroptera furcifera (Katydid)	**Cut foliage**	**Quar**	**4**
Pheidole megacephala (Big headed ant)	**Cut foliage**	**Quar**	**15**
Physomerus grossipes (Leaf-footed bug)	**Betel leaves**	**Quar**	**1**
Pinnaspis buxi (Boxwood scale)	**Cut foliage/Palm**	**Quar/Nurs**	**95**
Pinnaspis strachani (Lesser snow scale)	**Cut foliage**	**Quar**	**10**
Plautia stali (Oriental stink bug)	**Basil**	**Quar**	**3**
Prociphilus sp. (Aphid)	**Elaeagnus**	**Nurs**	**1**
Protopulvinaria pyriformis (Pyriform scale)	**Nursery plants**	**Nurs**	**9**
Pseudaonidia trilobitiformis (Trilobe scale)	**Curry leaves**	**Quar**	**2**
Pseudaulacaspis cockerelli (Magnolia white scale)	**Cut foliage/Palm**	**Quar/Nurs**	**2**
Pseudococcus cryptus (Mealybug)	**Betel leaves**	**Quar**	**1**
Pseudococcus jackbeardsleyi (Mealybug)	**Basil**	**Quar**	**2**
Pseudococcus landloi (Mealybug)	**Lalot leaves**	**Quar**	**1**
Pseudococcus odermatti (Mealybug)	**Cut leaves**	**Quar**	**1**
Pseudococcus sp. (Mealybug)	**Cut leaves**	**Quar**	**4**
Pseudoparlatoria parlatorioides (False parlatoria scale)	**Cut foliage**	**Quar**	**3**
Pulvinaria psidii (Green shield scale)	**Nursery plants**	**Nurs**	**3**
Pulvinairia urbicola (Urban soft scale)	**Betel leaves**	**Quar**	**3**
Rhizoecus hibisci (Soil mealybug)	**Palm**	**Quar**	**1**
Scapteriscus borellii (Southern mole cricket)	**Turf**	**Public**	**3**
Selenaspidus articulatus (Rufous scale)	**Cut foliage**	**Quar**	**3**
Sinoxylon sp. (Powderpost beetle)	**Cut foliage**	**Quar**	**1**
Solenopsis geminata (Tropical fire ant)	**Cut foliage**	**Quar**	**8**
Sybra alternans (Long horned beetle)	**Cut foliage**	**Quar**	**8**
Tarophagus colocasiae (Taro planthopper)	**Cut foliage**	**Quar**	**2**
Technomyrmex albipes (White footed ant)	**Cut foliage**	**Quar**	**78**
Trigonidium sp. (Cricket)	**Betel leaf**	**Quar**	**1**
Trigonidomorpha sjostedti (Cricket)	**Ginger root**	**Quar**	**2**
Velataspis sp. (Armored scale)	**Palm leaves**	**Quar**	**1**
Veronicella sp. (Slug)	**Cut foliage**	**Quar**	**4**
Vinsonia stelliferra (Stellate scale)	**Cut foliage**	**Quar**	**7**
Xylosandrus sp. (Bark beetle)	**Cut foliage**	**Quar**	**1**

TOTAL	**1,734**

*SOURCE: Nurs: Nursery Pub: Public Quar: Quarantine

Pest Exclusion Activities

Plant Pathology Laboratory			
Alternanthera Philoxeroides (Alligator weed)	**River**	**Pub/Quar**	**2**

TOTAL	**2**

To request a complete set of trading cards, please call Cindy Werner at 626-459-8866

ACKNOWLEDGEMENTS

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For a copy of this report, visit our website at: http://acwm.lacounty.gov

Icicles are created during sprinkler irrigation to insulate the plant tissues from further frost damage.
(Frost photographs courtesy of The Huntington Library, Art Collections, and Botanical Gardens)

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