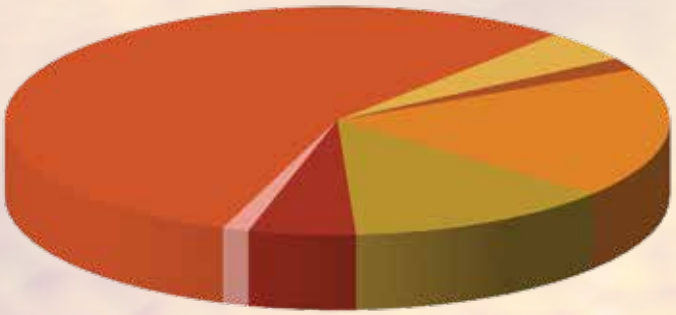
2013

Los Angeles County
Crop and Livestock Report

THE BUZZ ON BEES!!!



2013 SUMMARY CHART		
	50%	NURSERY PRODUCTS
	6%	FLOWERS & FOLIAGE
	9%	FRUIT & NUT CROPS
	22%	VEGETABLE CROPS
	8%	FIELD CROPS
	4%	LIVESTOCK PRODUCTION
	1%	APIARY
	<1%	FOREST PRODUCTS

SUMMARY

Commodity	2011	2012	2013
Nursery Products	$96,635,150	$86,155,000	**$100,612,000**
Flowers & Foliage	$7,774,900	$8,136,000	**$11,822,000**
Fruit & Nut Crops	$2,999,260	$20,782,000	**$17,208,500**
Vegetable Crops	$31,956,680	$42,574,000	**$43,966,000**
Field Crops	$22,575,260	$21,556,000	**$16,059,400**
Livestock Production	$8,978,030	$9,018,000	**$8,894,000**
Apiary	$2,167,600	$1,748,400	**$1,966,340**
Forest Products	$19,170	$16,200	**$10,170**
TOTAL	**$173,106,050**	**$189,985,600**	**$200,538,410**

MILLION DOLLAR COMMODITIES

01	Woody Ornamentals	$53,590,000	08	Indoor Plants, Foliage	$4,874,000
02	Root Vegetables	$36,295,000	09	Indoor Plants, Flowering	$3,665,000
03	Bedding Plants	$26,129,000	10	Vegetable Plants	$2,082,000
04	Orchard Fruits	$14,796,000	11	Grain Hay	$1,605,000
05	Alfalfa Hay	$12,598,000	12	Grapes	$1,363,000
06	Dairy & Livestock	$8,894,000	13	Herbs & Spices	$1,195,000
07	Turf	$7,926,000	14	Honey	$1,034,000

We sincerely thank Maynard Johnson with El Monte Printing for the design layout for this year's crop report. A special word of thanks to all who assisted in creating this edition of the crop report: Public Information Officer Ken Pellman, for researching, writing, editing, and obtaining photos; Corina Monsivaiz, for generating the completed statistical report and Deputy Agricultural Commissioner Richard G. Sokulsky for overseeing the process. We also thank the staff of the Environment Protection Bureau and the staff of the Pest Exclusion and Produce Quality Bureau, including Entomologist Dr. Gevork Arakelian and Plant Pathologist Jerold Turney for gathering, compiling information and providing photographs for this report.

COUNTY OF LOS ANGELES
Department of
Agricultural Commissioner/
Weights and Measures

12300 Lower Azusa Road
Arcadia, CA 91006-5872
http://acwm.lacounty.gov

Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

Richard K. Iizuka
Chief Deputy

Karen Ross, Secretary
California Department of Food and Agriculture

and

The Honorable Board of Supervisors
County of Los Angeles

Mark Ridley-Thomas, Chair – Second District
Gloria Molina – First District
Zev Yaroslavsky – Third District
Don Knabe – Fourth District
Michael D. Antonovich – Fifth District

2013 CROP AND LIVESTOCK REPORT

The total gross value of agricultural crops and commodities produced in Los Angeles County during 2013 was $200,538,410. After almost a decade decreasing acreage and gross production values in Los Angeles County, the last two years have resulted in a positive turnaround. Total production values in 2013 increased by 5.6% over 2012 values, and by 15.8% over the 2011 gross production values.

Ornamental nursery production continues to be our leading area of production. Field acreage and greenhouse grown grounds increased significantly along with production values for outdoor plants, such as woody ornamentals, bedding plants, and ground covers, up by 16.8%. Indoor foliage and flowering plant values skyrocketed by 68.8%. These are welcome statistics for our growers, who have faced some very tough climatic and economic challenges during the past decade.

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 people 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

Protecting Consumers and the Environment Since 1881
To Enrich Lives Through Effective and Caring Service

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.

FLOWERS & FOLIAGE

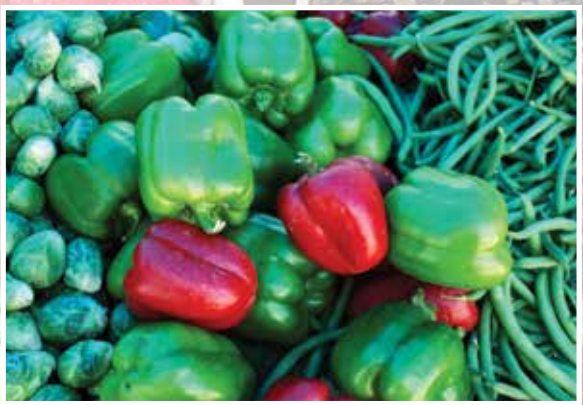
Item	Year	Green House Sq Ft	Field Acres	Total Value	
Indoor Plants, Flowering	**2013**	**580,000**	**1.8**	**$3,665,000**	▲
	2012	654,000	0.3	$2,450,000	
Indoor Plants, Foliage	**2013**	**407,000**	**18.9**	**$4,874,000**	▲
	2012	196,000	2.3	$2,606,000	
Miscellaneous*	**2013**	**74,600**	**73.8**	**$3,283,000**	▲
	2012	69,300	78.0	$3,080,000	
*Includes orchids, lilacs, cut roses, sunflowers, poppies, delphiniums, pom pom, mums, peach blossoms, poppies, chrysanthemums, cacti, succulents, and other miscellaneous flowers.					
TOTAL	**2013**	**1,061,000**	**94.5**	**$11,822,000**	▲
	2012	910,300	80.6	$8,136,000	

NURSERY PRODUCTS

Item	Year	Green House Sq Ft	Field Acres	Total Value	
Woody Ornamentals	**2013**	**4,226,000**	**696.2**	**$53,590,000**	▲
	2012	3,013,000	846.0	$43,184,000	
Bedding Plants	**2013**	**1,285,000**	**104.1**	**$26,129,000**	▲
	2012	912,000	78.0	$24,942,000	
Turf	**2013**		**749.0**	**$7,926,000**	▼
	2012		712.0	$9,099,000	
Vegetable Plants	**2013**	**43,000**	**13.8**	**$2,082,000**	▲
	2012	45,500	8.6	$1,597,000	
Bonsai	**2013**	**109,900**	**9.0**	**$373,000**	▼
	2012	110,000	7.7	$769,000	
Ground Covers	**2013**	**131,300**	**16.5**	**$918,000**	▲
	2012	88,000	6.8	$410,000	
Miscellaneous*	**2013**	**548,600**	**129.2**	**$9,594,000**	▲
	2012	468,000	61.0	$6,154,000	
*Includes perennials, Christmas trees, dragon fruits, lucky bamboo, fruit trees, citrus trees, plumerias, cycads, and other miscellaneous nursery plants.					
TOTAL	**2013**	**6,343,800**	**1717.8**	**$100,612,000**	▲
	2012	4,636,500	1720.0	$86,155,000	

VEGETABLE CROPS

Item	Year	Acreage	Production per Acre	Production Total	Unit	Value per Unit	Total Value	
Corn	**2013**	**129.9**	**5.0**	**647.5**	**Ton**	**$752**	**$487,000**	▲
	2012	137.0	5.0	685.0	Ton	$584	$400,000	
Tomatoes*	**2013**	**36.1**	**19.8**	**714.8**	**Ton**	**$750**	**$536,000**	▲
	2012	35.0	13.0	455.0	Ton	$1,084	$493,000	
Root Vegetables	**2013**	**4,674.7**	Include dry onions, garlic, carrots, potatoes, radishes, beets, turnips and other root vegetables.				**$36,295,000**	▲
	2012	3,412.0					$35,503,000	
Vine Crops	**2013**	**89.7**	Include cucumbers, green beans, melons, pumpkins, squash, zucchinis, watermelons, and cantaloupes.				**$597,000**	▲
	2012	83.0					$543,000	
Table Greens	**2013**	**25.3**	Include spinach, kale, oriental specialities, alfalfa sprouts, and lettuces.				**$816,000**	▲
	2012	23.0					$571,000	
Herbs & Spices	**2013**	**12.1**	Include cilantro, parsley, chives, mint, thyme, fennel, and other herbs & spices.				**$1,195,000**	▲
	2012	24.0					$604,000	
Miscellaneous	**2013**	**337.4**	Include bell peppers, chili peppers, cacti, celery, chard, mustard greens, collard greens, leeks, kohlrabi, cabbages, green onions, okra, broccoli, cauliflower, eggplant, and other misc. vegetables.				**$4,040,000**	▼
	2012	346.0					$4,460,000	
TOTAL	**2013**	**5,305.2**					**$43,966,000**	▲
	2012	4,060.0					$42,574,000	



FRUIT AND NUT CROPS

Item	Year	Acreage	Production Per Acre	Production Total	Unit	Value Per Unit	TotalValue	
Grapes	**2013**	**497.0**	**1.3**	**646.1**	**Ton**	**$2,110**	**$1,363,000**	▼
	2012	432.0	1.4	605.0	Ton	$2,830	$1,712,000	
Strawberries	**2013**	**23.5**	**11.1**	**261.9**	**Ton**	**$1,804**	**$472,500**	▼
	2012	17.0	23.2	394.0	Ton	$1,498	$590,000	
Orchard Fruits	**2013**	**545.4**	Includes apples, cherries, peaches, pears, plums, apricots, nectarines, persimmons, pomegranates, oranges, mandarins, citrus, and grapefruits.				**$14,796,000**	▼
	2012	488.0					$17,890,000	
Miscellaneous	**2013**	**111.9**	Includes avocados, figs, pistachios, olives, berries, guavas, cherimoya, prickly pears, and other miscellaneous fruit and nut crops.				**$577,000**	▼
	2012	104.0					$590,000	
TOTAL	**2013**	**1,202.8**					**$17,208,500**	▼
	2012	1,041.0					$20,782,000	

FIELD CROPS

Item	Year	Acreage	Production per Acre	Production Total	Unit	Value per Unit	Total Value	
Alfalfa Hay	**2013**	**6,215**	**8.2**	**51,000**	**Ton**	**$247**	**$12,598,000**	▼
	2012	7,109	8.5	60,400	Ton	$280	$16,912,000	
Grain Hay	**2013**	**2,400**	**3.8**	**9,120**	**Ton**	**$176**	**$1,605,000**	▼
	2012	3,163	3.0	9,500	Ton	$218	$2,071,000	
Rangeland	**2013**	**4,595**		**3,645**			**$91,400**	▼
	2012	4,650		5,700			$142,000	
Miscellaneous*	**2013**	**3,787**	Includes irrigated pasture, barley, wheat, sudan hay, oat hay, corn grain and silage, and grazing privileges on stubble.				**$1,765,000**	▼
	2012	4,321					2,431,000	
TOTAL**	**2013**	**12,402**					**$16,059,400**	▼
	2012	14,593					21,556,000	

* Acreage excludes stubble.

** Excluding rangeland and stubble.

DAIRY & LIVESTOCK

Item	Year		Total Value	
Dairy & Livestock	**2013**	Includes dairy cattle, beef cattle, hogs, goats, chickens, milk, goat milk, eggs, etc.	**$8,894,000**	▼
	2012		$9,018,000	

FOREST PRODUCTS

Item	Year		Total Value	
Firewood*	**2013**	* Figures obtained from USDA Forest Service, Angeles National Park	**$10,170**	▼
	2012		$16,200	

SUSTAINABLE AGRICULTURE REPORTING ORGANIC FARMING STATISTICS

Year	Farms	Acres
2013	**21**	**66**
2012	20	68

APIARY						
Item	**Year**	**Production**	**Unit**	**Value per Unit**	**Total Value**	
Honey	**2013**	**517,092**	**Lb.**	**$2.00**	**$1,034,000**	▼
	2012	575,000	Lb.	$2.00	$1,149,000	
Beeswax	**2013**	**1,157**	**Lb.**	**$3.75**	**$4,340**	▼
	2012	6,130	Lb.	$3.00	$18,400	
Miscellaneous	**2013**	Include pollination fees, etc.			**$928,000**	▲
	2012				$581,000	
TOTAL	**2013**				**$1,966,340**	▲
	2012				$1,748,400	

A NEW MEALYBUG

This new mealybug found in a Compton nursery has a common name Bougainvillea mealybug (*Phenacoccus peruvianus*). It was first described in 2007. Native to South America, it was recently introduced to Europe. Our find represented the first record for North America.

Bougainvillea mealybug is a polyphagous pest that attacks such hosts as *Bougainvillea spp., Araujia sericifera, Aucuba japonica, Myoporum laetum, Buddleja sp., Justica suberecta, Solanium vespertilio, Alternanthera sp., Baccharis sp., Cestrum sp.*, etc. In the Compton nursery, the list of its hosts was expanded to include Guava (Mexican and Strawberry), *Dodonea viscosa* and Chili peppers.

PEST EXCLUSION ACTIVITIES

Pest Exclusion Violations	# of Violations Issued	Pest Exclusion Violations	# of Violations Issued
Markings	366	Nursery Stock Certificates or Inspection	2
Infested/Presume Infested	299	Tephritidae Fruit Fly Hosts	2
Plum Curculio/Blueberry Maggot	51	Citrus Canker	2
Citrus Pests	28	Federal Foreign Quarantine - Nursery Stock	2
Japanese Beetle	12	Cherry Fruit Fly	2
Failure to Hold	12	Cereal Leaf Beetle	1
Burrowing and Reniform Nematodes	10	Hydrilla	1
Caribbean Fruit Fly	9	European Corn Borer	1
Turtle Salmonellosis	9	Ozonium Root Rot	1
Imported Fire Ant	6	Pine Shoot Beetle	1
Compliance Agreement	6	Pierce's Disease Control Program	1
Phytophthora ramorum	6	Sweet Potato Weevil	1
Gypsy Moth	4	Walnut and Pecan Pests	1
Federal (Hawaiian) Quarantine	3	Colorado Potato Beetle	1
Federal Domestic Quarantine - Fruit Flies	3	Cedar Apple Rust	1
Sweet Orange Scab	3		
	TOTAL	**847**	

PEST EXCLUSION ACTIVITIES – ENTOMOLOGY LABORATORY

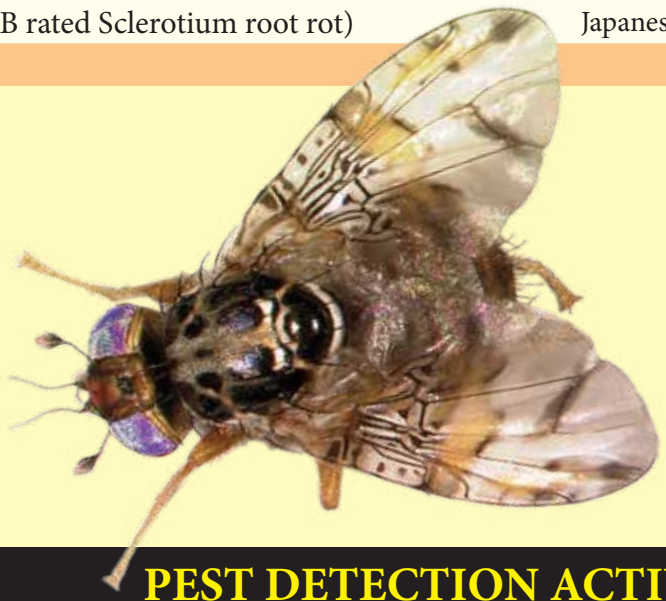
PEST INTERCEPTED Latin Name	PEST INTERCEPTED Common Name	MATERIAL	SOURCE*	# of INTERCEPTIONS
Agallia sp.	Leafhopper	Cut foliage/Basil	Quar	4
Aleurodicus dispersus	Spiraling whitefly	Betel	Quar	6
Anoplolepis gracilipes	Long-legged ant	Cut foliage	Quar	1
Aonidiella aurantii	California red scale	Nursery plants	Nurs	2
Araecerus coffeae	Coffee bean weevil	Cut foliage/Basil	Quar	2
Atractomorpha sinensis	Slant-faced grasshopper	Basil	Quar	1
Aulacaspis tubercularis	Armored scale	Mango	Quar	1
Bradybaena similari	Snail	Cut foliage	Quar	6
Ceroplastes floridensis	Wax scale	Cut foliage	Quar	1
Ceroplastes rusci	Wax scale	Pineapple/Lychee	Quar	2
Ceroplastes sp.	Wax scale	Gardenia/Nursery plants	Quar/Nurs	3
Ceroplastes stellifer	Stellate scale	Cut foliage	Quar	1
Chrysodeixis eriosoma	Green garden looper	Cut foliage/Basil	Quar	6
Coccus sp.	Soft scale	Cut foliage/Betel	Quar	1
Coccus viridis	Green scale	Nursery plants	Nurs	1
Coloradoa artemisiae	Aphid	Nursery Plants	Nurs	1
Cylas formicarius	Sweet potato weevil	Sweet potato	Quar	6
Davidsonaspis aguacatae	Armored scale	Avocado	Quar	1
Dendrocranulus sp.	Bark Beetle	Sweet potato	Quar	1
Diaphania nitidalis	Pickleworm	Tindora	Quar	1
Dismicoccus grassii	Mealybug	Nursery Plants	Nurs	1
Empoasca sp.	Leafhopper	Malongai	Quar	2
Eumerus figurans	Ginger maggot	Ginger roots	Quar	2
Ferrisia sp.	Mealybug	Schefflera/Peppers	Quar	2
Ferrisia virgata	Striped mealybug	Nursery Plants	Nurs	1
Frankliniella bispinosa	Thrips	Thyme	Quar	1
Geococcus coffeae	Coffee root mealybug	Palm	Quar	2
Greenidea sp.	Aphid	Guava	Quar	1
Gyponana germari	Leafhopper	Cut foliage	Quar	14
Halyomorpha halys	Brown mamorated stink bug	Rose	Pub	1
Hemiberlesia palmae	Armored scale	Bay leaves	Quar	1
Homalodisca vitripennis	adults: Glassy-winged sharpshooter	Nursery plants	Nurs	3,490
Homalodisca vitripennis	eggs: Glassy-winged sharpshooter	Nursery plants	Nurs	6
Kallitaxila granulata	Planthopper	Cut foliage	Quar	10
Kilifia acuminata	Soft scale	Mango	Quar	1
Lepidosaphes beckii	Purple scale	Nursery plants	Nurs	1
Mitrastethus sp.	Weevil	Purple yam	Quar	2

PEST EXCLUSION ACTIVITIES – ENTOMOLOGY LABORATORY

PEST INTERCEPTED Latin Name	PEST INTERCEPTED Common Name	MATERIAL	SOURCE*	# of INTERCEPTIONS
Nipaecoccus sp.	Coconut mealybug	Palm	Quar/Nurs	14
Nysius sp.	Lygaeid bug	Cut foliage	Quar	8
Ochetellus glaber	Ant	Cut flowers	Quar	2
Oncometopia sp.	Leafhopper	Dracaena	Quar	1
Orchidophilus sp.	Weevil	Orchids	Quar	1
Otiorhynchus sp.	Weevil	Yams/Hydrange	Quar	2
Palmicultor lumpurensis	Bamboo mealybug	Bamboo	Nurs	6
Paracoccus sp.	Mealybug	Agave	Nurs	3
Parmarion martinsi	Semislug	Cut foliage	Quar	2
Pheidole megacephala	Big headed ant	Cut foliage	Quar	12
Phenacoccus peruvianus	Mealybug	Nursery plants	Nurs	6
Phenacoccus sp.	Mealybug	Agave	Nurs	1
Philomycidae	Slug	Betel	Quar	1
Pinnaspis buxi	Boxwood scale	Cut foliage	Quar	5
Pinnaspis strachani	Lesser snow scale	Cut foliage	Quar	9
Planococcus sp.	Mealybug	Betel	Quar	2
Poliaspis media	Armored scale	Palms	Nurs	1
Protopulvinaria pyriformis	Pyriform scale	Nursery plants	Nurs	4
Pseudaulacaspis cockerelli	Magnolia white scale	Cut foliage/Palms	Quar/Nurs	5
Pseudococcus odermatti	Mealybug	Ginger	Quar	1
Pseudococcus sp.	Mealybug	Agave	Nurs	2
Pseudoparlatoria sp.	Armored scale	Palm leaves	Quar	1
Pulvinaria psidii	Green shield scale	Cut foliage/Nursery plants	Quar/Nurs	3
Pulvinaria urbicola	Soft scale	Guava/Tecoma	Quar/Nurs	1
Rutherfordia major	Armored scale	Lychee	Quar	1
Singhiella simplex	Ficus Whitefly	Ficus	Nurs	3
Sinoxylon anale	False powderpost beetle	Wooden pallets	Quar	1
Solenopsis geminata	Tropical fire ant	Cut foliage	Quar	2
Spodoptera sp.	Noctuid moth	Basil/Cut foliage	Quar	3
Subulina octona	Snail	Cut foliage	Quar	1
Tarophagus colocasiae	Taro planthopper	Taro	Quar	7
Technomyrmex albipes	White footed ant	Cut foliage	Quar	6
Tetraleurodes sp.	Whitefly	Galanga	Quar	1
Thysanofiorinia nephelii	Armored scale	Nursery plants	Nurs	1
Trionymus sp.	Mealybug	Bamboo	Nurs	1
Veronicella sp.	Slug	Cut foliage	Quar	3
Wasmannia auropunctata	Little fire ant	Cut flowers	Quar	2
Zachrysia provisoria	Snail	Dracaena	Quar	1
			TOTAL	**3,712**

PLANT PATHOLOGY LABORATORY

Plants	Material	Source*	# of Interceptions
Euphorbia terracina (B rated Carnation Spurge)	Soil	Pub	1
Fatoua villosa (B rated Mulberry Weed)	Soil	Nurs	3
Linnobium Laevigaqtum (A rated South American Sponge Plant)	Soil	Nurs	1
Nymphoides peltata (Q rated Water Fringe)	Soil	Nurs	1
Acroptilon repens (B rated Russian Knapweed)	Soil	Nurs	1
Fungi			
Sclerotium rolfsii (B rated Sclerotium root rot)	Japanese Aralia	Nurs	1
TOTAL			**8**



PEST DETECTION ACTIVITIES

Pest	Number of Traps Pest Detection	Specimens Trapped
Caribbean Fruit Fly (Mc Phail Traps)	5,000	1
Mediterranean Fruit Fly (Jackson Traps)	5,100	0
Melon Fly (Jackson Traps)	5,100	0
Oriental Fruit Fly (Jackson Traps)	5,100	30
Gypsy Moth	2,200	0
Japanese Beetle	3,100	0
TOTAL	**25,600**	**31**

PEST ERADICATION ACTIVITIES

Pest	Method	Scope of Program
Oriental Fruit Fly	Male Attractant Technique	5 treatment areas
Caribbean Fruit Fly	Male Attractant Technique	1 treatment area
Mediterranean Fruit Fly	Continued preventative program: sterile Medfly release countywide	Approximately 7.9 billion sterile Medflies released

BIOLOGICAL CONTROL ACTIVITIES

Pest	Method	Scope of Program
Mediterranean Fruit Fly	Sterile Release	Approximately 7.9 billion sterile Medflies released

APIARY APEX

The primary mission of our Apiary program is to register and track the location of hives, safeguard the California honey bee industry from damaging pests and diseases, and gather statistics annually for this report. Beekeeping is a very important part of the agricultural industry; bees are necessary for pollination of dozens of crops in California. Bee products, such as honey, wax and pollen, may be important commodities, but, more importantly, bees provide pollination for fresh produce found in our local markets and gardens. Beekeepers are found throughout Los Angeles County in urban and rural settings and fall into two categories: hobbyists and commercial beekeepers.

Los Angeles County is home to over 250 beekeepers, all of whom are required to:

- Follow California Food and Agricultural Code (FAC) Division 13: Bee Management and Honey Production.
- Register their hives annually with the County Agricultural Commissioner / Weights & Measures office by completing the Annual Apiary Registration form. (FAC § 29044)
- Contact the City or County in which their apiaries are located regarding ordinances and restrictions.

WHEN FERAL BEES INVADE AND ATTACK

The primary mission of our Feral Bee Abatement Program is to resolve complaints about bee-related health and safety issues throughout Los Angeles County. Bees may be found almost everywhere in our environment, busy foraging for food. They feed on nectar for energy and pollen to feed their young. In Los Angeles County, most feral bee colonies are Africanized, which tend to be more protective of their hives compared to the more docile domesticated European bees, used by commercial beekeepers. Residents occasionally encounter a swarm or even a colony growing on their property, such as in the wall of a house.