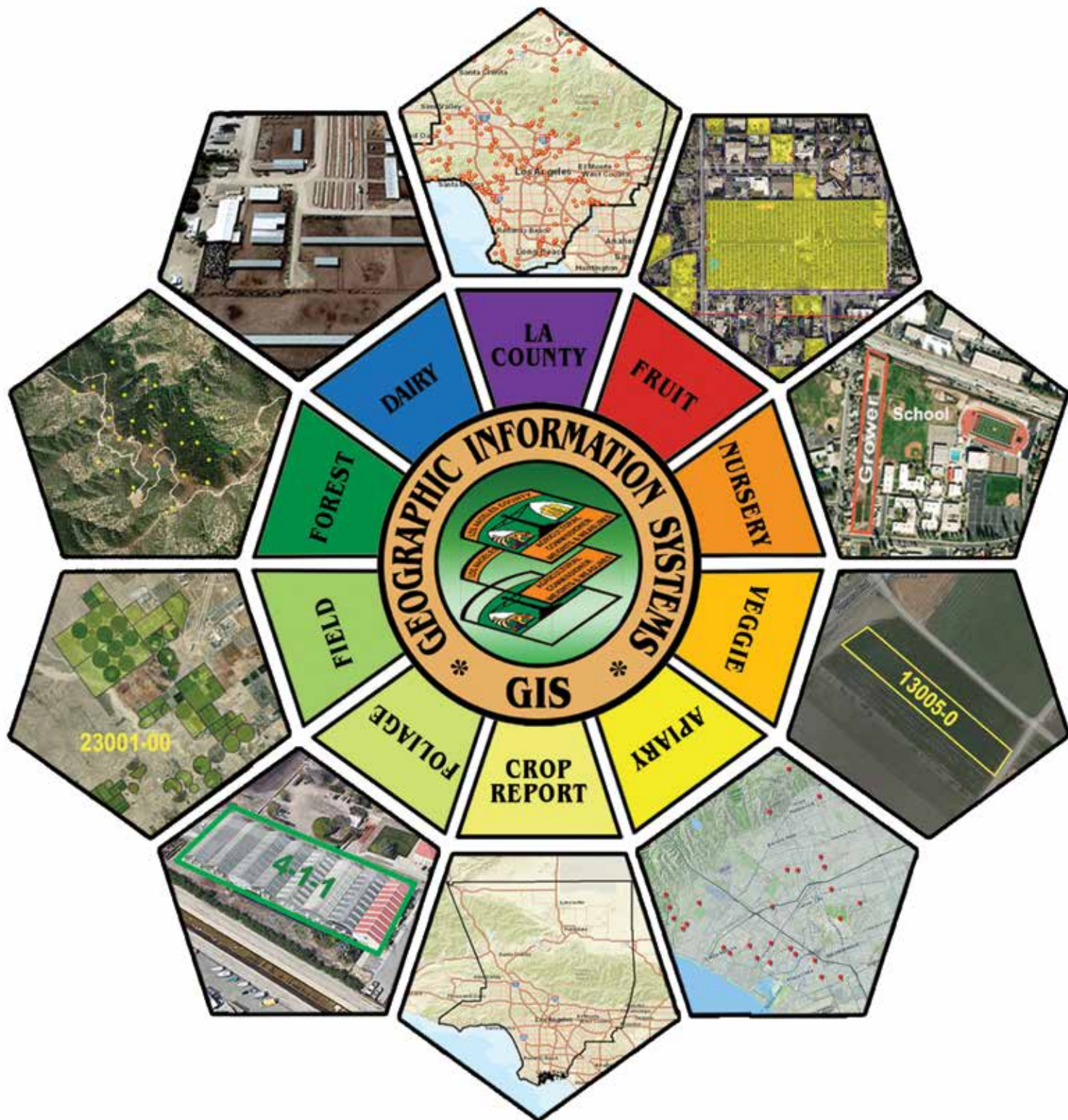
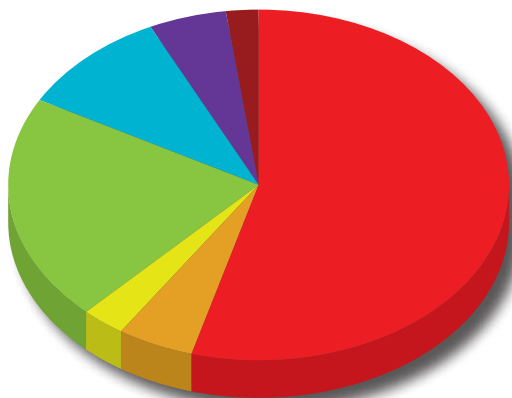


2018 LOS ANGELES COUNTY CROP AND LIVESTOCK REPORT



FULL SPECTRUM OF APPLICATIONS WITH GIS TECHNOLOGY



2018 SUMMARY CHART		
	54.3%	NURSERY PRODUCTS
	4.9%	FLOWERS & FOLIAGE
	2.8%	FRUIT & NUT CROPS
	21.0%	VEGETABLE CROPS
	9.8%	FIELD CROPS
	5.0%	DAIRY & LIVESTOCK
	2.1%	APIARY PRODUCTS
	<1%	FOREST PRODUCTS

SUMMARY			
Commodity	2016	2017	2018
Nursery Products	\$92,800,000	\$84,210,000	\$92,804,000
Flowers & Foliage	\$6,344,000	\$7,500,000	\$8,448,000
Fruit & Nut Crops	\$4,900,000	\$3,920,000	\$4,847,000
Vegetable Crops	\$55,982,000	\$25,672,000	\$35,799,000
Field Crops	\$11,600,000	\$12,820,000	\$16,811,000
Dairy & Livestock	\$9,000,000	\$10,000,000	\$8,558,000
Apiary	\$2,342,000	\$2,790,000	\$3,583,000
Forest Products	\$3,880	\$4,970	\$3,250
TOTAL	\$182,971,880	\$146,916,970	\$170,853,250

MILLION DOLLAR COMMODITIES					
01	Woody Ornamentals	\$65,570,000	06	Dairy & Livestock	\$8,558,000
02	Root Vegetables	\$20,392,000	07	Indoor Plants, Foliage	\$6,850,000
03	Bedding Plants	\$15,130,000	08	Orchard Fruits	\$2,721,000
04	Alfalfa Hay	\$14,880,000	09	Honey	\$2,690,000
05	Herbs & Spices	\$9,182,000	10	Ground Covers	\$1,600,000

Special thanks go to all who assisted in creating this edition of the report: Mauricio Lucero, for cover design; Mauricio Lucero, Khoa Lam, and Christine Belden for GIS maps; Ken Pellman and Cindy Werner, for researching, writing, and editing; Elvira Lugo, for generating the complete statistical report; and Christine Belden, for overseeing the process. We also thank staff of the Environmental Protection Bureau and that of the Pest Exclusion and Produce Quality Bureau for gathering and compiling information for this report.



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

**Department of
Agricultural Commissioner/
Weights and Measures**

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



Richard K. Iizuka
Chief Deputy

**Karen Ross, Secretary
California Department of Food and Agriculture
and**

**The Honorable Board of Supervisors
County of Los Angeles**

Janice Hahn, Chair – Fourth District

Hilda L. Solis – First District

Mark Ridley-Thomas – Second District

Sheila Kuehl – Third District

Kathryn Barger – Fifth District

2018 CROP AND LIVESTOCK REPORT

The total gross value of agricultural crops and commodities produced in Los Angeles County during 2018 was \$170,853,250. Agricultural products realized an overall increase in sales by 14%. Nursery plant production continues to be the leading commodity at \$92,804,000, with an increase of 10% from last year.

Vegetable production has increased by 28%, mostly due to increased organic farming production. Organic farming acreage increased by 20% and certified farmers' markets continue to be a showcase for locally grown or raised commodities. Interest in beekeeping and apiary activities has increased, up 20% from last year; pollination fees contributed greatly to this increase due to heightened need for beehives used for pollination. While honey production, itself, was down, average honey price increased \$2.00 per pound, slightly increasing the total value.

I would like to express my appreciation to each of the producers and individuals who provided the information in this report. My thanks are extended to the skills and commitment exhibited by the people of this Department who perform an extraordinary job in serving and protecting the agricultural community and in compiling these essential 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 Square Feet	Field Acres	Total Value	Value Change
Indoor Plants, Flowering*	2018	430,000	18.5	\$1,250,000	▼
	2017	575,000	11.9	\$3,000,000	
Indoor Plants, Foliage*	2018	266,000	16.6	\$6,850,000	▲
	2017	237,000	7.7	\$4,000,000	
Miscellaneous**	2018	21,200	60.8	\$348,000	▼
	2017	28,000	65.3	\$500,000	
* Re-categorized some commodities into Nursery Products. Increase of total value due to organic production. ** Includes chrysanthemums, lilacs, orchids, and other miscellaneous flowers. Also includes organic production.					
TOTAL	2018	717,200	95.9	\$8,448,000	▲
	2017	840,000	84.8	\$7,500,000	

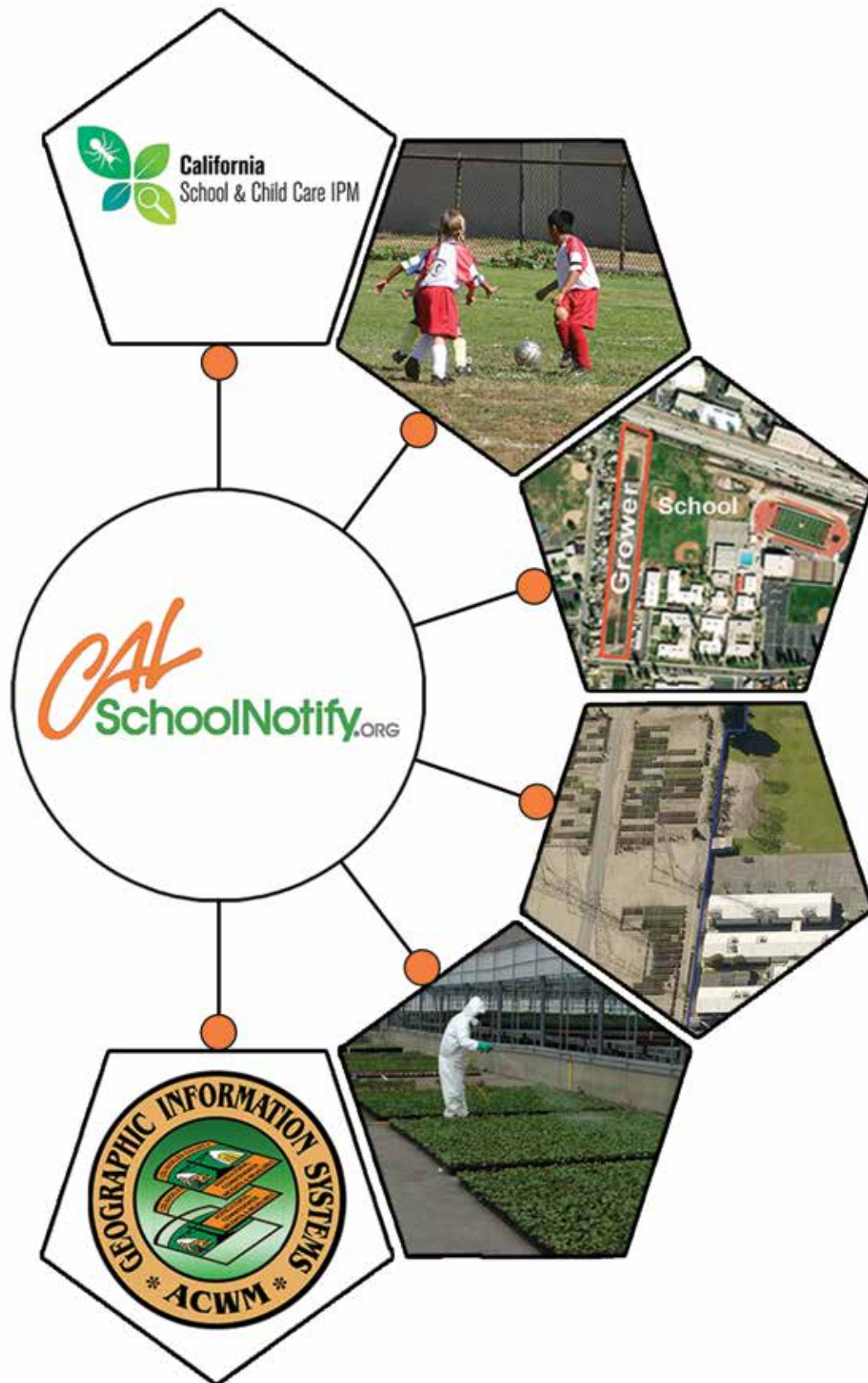
CalSchool Notify: Playing it Safer with Pesticide Applications Near Schoolsites

The California Department of Pesticide Regulation (CDPR) has adopted new regulations that address agricultural pesticide applications near public K-12 schools and licensed child day care centers (collectively referred to as schoolsites). These regulations provide minimum distance standards for certain agricultural pesticide applications near schoolsites and require annual notification to schoolsites. The goal is to reduce the chances of unintended pesticide exposure to children and increase communication between growers, nurseries, ACWM, and schoolsites.

ACWM uses GIS to map out all growing sites within 1/4 mile from any schoolsite. Such a map gives a better understanding than a mere list of addresses. In Los Angeles County, there are over 5,700 schoolsites. While a very large portion of the county is urban, with little to no production agriculture, we do have over 340 schoolsites that have received notifications from our growers through the use of GIS mapping.

NURSERY PRODUCTS

Item	Year	Green House Square Feet	Field Acres	Total Value	Value Change
Woody Ornamentals*	2018	2,609,000	956.2	\$65,570,000	▲
	2017	2,623,000	978.0	\$57,000,000	
Bedding Plants	2018	1,366,000	20.3	\$15,130,000	▼
	2017	5,665,000	77.6	\$15,300,000	
Vegetable Plants	2018	60,000	7.5	\$1,545,000	▼
	2017	64,000	11.6	\$5,000,000	
Ground Covers	2018	219,000	15.5	\$1,600,000	▲
	2017	103,000	12.3	\$910,000	
Miscellaneous**	2018	702,000	154.0	\$8,960,000	▲
	2017	500,000	168.3	\$6,000,000	
* Re-categorized commodities between Nursery Products and Flowers & Foliage. ** Includes perennials, cacti, succulents, turf, and other miscellaneous nursery plants.					
TOTAL	2018	4,956,000	1,154	\$92,805,000	▲
	2017	8,955,000	1,248	\$84,210,000	



VEGETABLE CROPS

Item	Year	Acreage	Production Per Acre	Production Total	Unit	Value Per Unit	Total Value	Value Change
Corn	2018	52.0	4.0	209.6	Ton	\$571	\$120,000	▲
	2017	56.0	15.5	869.5	Ton	\$131	\$114,000	
Tomatoes	2018	10.9	7.3	79.9	Ton	\$1,464	\$117,000	▼
	2017	11.1	7.1	79.3	Ton	\$1,517	\$121,000	
Root Vegetables	2018	3,371.9	Includes beets, carrots, dry onions, potatoes, and other root vegetables.				\$20,392,000	▼
	2017	4,446.5					\$23,970,000	
Vine Crops	2018	21.2	Includes beans, cantaloupes, cucumbers, green beans, melons, pumpkins, squash, and watermelons.				\$84,000	▼
	2017	70.0					\$900,000	
Table Greens	2018	2.9	Includes lettuces, oriental specialties, spinach, and unspecified vegetables.				\$166,000	▼
	2017	17.6					\$530,000	
Herbs & Spices*	2018	55.4	Includes chives, cilantro, fennel, mint, parsley, thyme, and other herbs and spices.				\$9,182,000	▲
	2017	0.4					\$9,000	
Miscellaneous	2018	942.8	Includes bell peppers, broccoli, cabbage, cauliflower, chili peppers, eggplant, and other miscellaneous vegetables.				\$5,738,000	▲
	2017	100.3					\$28,000	
* Vegetable production up, due to organic production.								
** Totals do not add due to rounding.								
TOTAL**	2018	4,456.9					\$35,799,000	▲
	2017	4,701.9					\$25,672,000	

CalAgPermits—Keeping the Focus on Pesticide Use and Worker Safety

CalAgPermits is the statewide Pesticide Permitting and Use Reporting system for regulators, agriculturalists, and both public and private pest control operators. We use this program to issue Restricted Materials Permits and Operator Identification Numbers, to collect and manage contact information for anyone engaged in pest control operations, to accept and process Notices of Intent (NOI) to apply restricted pesticides, and to accept and validate Pesticide Use Reports (PURs). This assists us in monitoring pesticide applications, including confirmations that pesticide handlers and fieldworkers are notified and protected as required.

FRUIT & NUT CROPS

Item	Year	Acreage	Production Per Acre	Production Total	Unit	Value Per Unit	Total Value	Value Change
Grapes	2018	221.8	0.84	187.6	Ton	\$5,868	\$1,101,000	▲
	2017	141.9	0.96	137.6	Ton	\$3,052	\$420,000	
Strawberries	2018	28.5	6.5	172.5	Ton	\$2,110	\$364,000	▲
	2017	29.0	5.2	149.7	Ton	\$2,003	\$300,000	
Orchard Fruits*	2018	263.2	Includes apples, apricots, cherries, grapefruit, lemons, mandarins, nectarines, oranges, peaches, pears, persimmons, plums, and pomegranates.				\$2,721,000	▲
	2017	154.3					\$2,400,000	
Miscellaneous*	2018	179.8	Includes avocados, figs, guavas, olives, pistachios, and other miscellaneous fruit and nut crops.				\$661,000	▼
	2017	385.3					\$800,000	
* Orchard fruits and miscellaneous up, due to organic production.								
TOTAL	2018	693.3					\$4,847,000	▲
	2017	710.5					\$3,920,000	

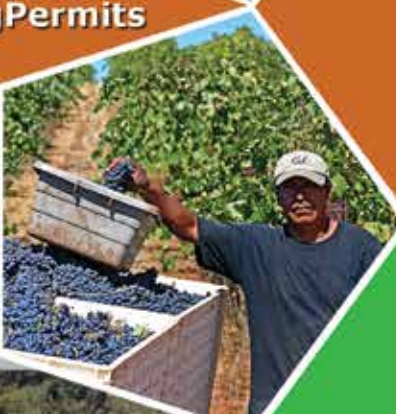
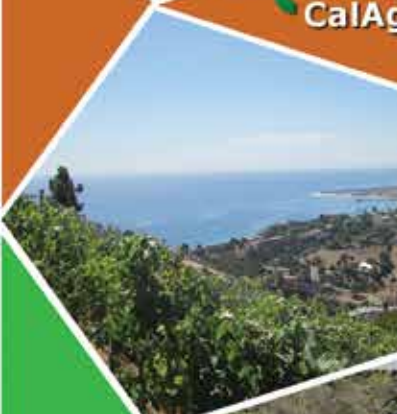
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APIARY PRODUCTS						
Item	Year	Production	Unit	Value Per	Unit Total Value	Value Change
Honey	2018	269,139	Lb.	\$10.00	\$2,690,000	▲
	2017	325,002	Lb.	\$8.00	\$2,600,000	
Beeswax	2018	9,298	Lb.	\$7.50	\$72,000	▼
	2017	9,705	Lb.	\$7.75	\$75,200	
Miscellaneous	2018	Includes pollination fees, etc.			\$821,000	▲
	2017				\$115,000	
Total*	2018	* Totals do not add due to rounding			\$3,583,000	▲
	2017				\$2,790,000	

FOREST PRODUCTS				
Item	Year		Unit Total Value	Value Change
Firewood	2018	Figures obtained from USDA Forest Service, Angeles National Forest	\$3,250	▼
	2017		\$4,970	

FIELD CROPS								
Item	Year	Acreage	Production Per Acre	Production Total	Unit	Value Per Unit	Total Value	Value Change
Alfalfa Hay	2018	8,076	21.8	63,018	Ton	\$236	\$14,880,000	▲
	2017	6,011	30.5	58,000	Ton	\$221	\$10,500,000	
Grain Hay	2018	2,280	2.5	6,450	Ton	\$174	\$1,123,000	▲
	2017	2,200	2.6	6,000	Ton	\$192	\$1,030,000	
Rangeland	2018	4,495					\$88,000	▼
	2017	4,595					\$90,000	
Miscellaneous*	2018	7,203	Includes irrigated pasture, other types of hay, silage, sudan hay, and wheat.				\$720,000	▼
	2017	2,131					\$1,200,000	
TOTAL**	2018	22,054	* Acreage excludes stubble.				\$16,811,000	▲
	2017	14,937	** Excluding rangeland and stubble.				\$12,820,000	

DAIRY & LIVESTOCK PRODUCTS				
Item	Year		Total Value	Value Change
Dairy & Livestock	2018	Includes beef cattle, chickens, dairy cattle, goats, hogs, milk, etc.	\$8,558,000	▼
	2017		\$10,000,000	

SUSTAINABLE AGRICULTURE REPORTING ORGANIC FARMING STATISTICS		
Year	Farms	Acres
2018	45	1,201
2017	44	935

URBAN



APIARY APEX

GIS locates the apiary sites of every registered beekeeper. Urban beekeepers use actual physical addresses.

Large commercial beekeepers may locate their hives in the national forest, where map coordinates are used, instead, to identify apiary sites.

NATIONAL FOREST



FOOD GROWS WHERE WATER FLOWS



Center pivot irrigation systems provide valuable water to the High Desert growing region. Crops grown here provide food for people and animals.

PEST DETECTION ACTIVITIES

Depend on CalTrap For the Details!

CalTrap is a new fruit fly trapping application implemented by our Exotic Pest Detection Program. CalTrap is a mobile Geographic Information Systems (GIS) application designed to maintain a database of sites and fruit trees that are used for insect trap placement. These traps are serviced and relocated throughout the year, using different fruit trees over the seasons. The application's map serves as a visual representation of where traps are located and what kind of traps are being used. The database also keeps records and generates reports.

CalTrap offers many features besides maintaining a database and digital recordkeeping. Maps enable us to see trends that may be otherwise overlooked. For example, we can observe the coverage of traps in the field and identify if there exist any gaps that could create a corridor through which insects may travel. By spotting these scenarios earlier, we can correct problems by proactively preventing them instead of reacting afterwards. Such decisions can save California millions of dollars in eradication costs.

This year, we placed 24,735 traps and detected a total of 35 specimens of different exotic fruit flies. Our biological control program released 5.4 billion sterile Mediterranean fruit flies and 426 million sterile Mexican fruit flies to control population growth. With 10 treatment areas and 2 quarantine areas for 5 different invasive insects, one can see how pest detection is crucial to protecting our environment and our agriculture. The implementation of CalTrap will improve the overall efficiency of our insect trapping program.

CalTrap Map Legend

- 1 Our Pest Detection program operates from five field stations to monitor for exotic insects.
- 2 A grid system is used to identify regions of interest. Each grid equates to one square mile.
- 3 In each grid, field inspectors place fruit fly traps to monitor for potential invasive pests.
- 4 Highlighted boxes show homes with fruit trees that insects may use as hosts to reproduce.
- 5 GIS-based street maps are used by field inspectors to efficiently navigate through work routes.
- 6 A host tree can exhibit signs of damage, which may indicate a possible infestation or disease.

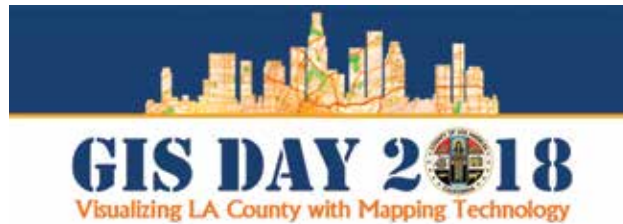
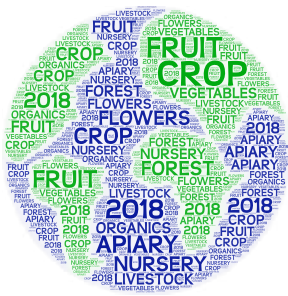
PEST EXCLUSION ACTIVITIES

The Entomology Laboratory verified 6,089 adult Glassy-Winged Sharpshooter specimens from traps, and 6 egg mass detections. Also, the Entomology Laboratory recorded 456 determinations of regulated quarantine pests.

The Plant Pathology Laboratory processed 1,563 samples, from which 32 regulated pests were detected. The increase in detected regulated pests is, in part, due to an increase of regulated weeds found in wholesale nursery production.

The Pest Exclusion Division issued 1,701 quarantine code violations during mandated inspections of parcel terminals, nurseries, and air freight terminals; 1,067 international and domestic shipments were rejected due to State and Federal quarantine code violations, such as lacking required certifications or markings, presumption of infestation, and other quarantine codes.





“A picture is worth a thousand words” is an adage suggesting that complex and, sometimes, multiple ideas can be conveyed by a single still **image**, which conveys its meaning or essence more effectively than any verbal description (Wikipedia). Today, we make complex maps utilizing Geographic Information Systems (GIS) technology; we call them “story maps” because they can convey an entire story in one image. Thus, agriculture has moved another step into the future with a full spectrum of applications at the touch of a keystroke.

Agriculture in Los Angeles County can be mapped in ways that help both the Department and the producers. We can identify, collect, and manage production agriculture and pesticide use around sensitive areas, such as schoolsites, endangered species, or watershed areas, to manage safe pesticide applications. We can see properties that may be impacted by nearby pest infestations and actions undertaken to eradicate those infestations. We can track detection traps and ensure they are placed efficiently. Knowing what is where, and being able to see, with precision, where components are in relation to one another, enables work planning to increase efficiency.

As for GIS use countywide, the Los Angeles Regional GIS Forum helps local and regional government agencies to collaborate and share information, ideas, strategies, best practices, and solutions and form partnerships with educational institutions and State and federal agencies regarding implementation and management of GIS in Los Angeles County.

Since 1999, GIS Day has been celebrated internationally on the third Wednesday of November as part of National Geography Awareness Week. The day provides an opportunity for users of GIS technology to share real-world applications that make a difference in our society. Los Angeles County began hosting its own GIS Day event in 2008 to promote GIS awareness, education, and training. The L.A. County event provides a showcase for work the Enterprise GIS (eGIS) Steering committee has done to support the efficient and effective use of GIS across County departments while eliminating duplication, reducing costs, and facilitating the sharing and exchange of geographic data, methods, and knowledge. Since 2008, L.A. County’s GIS Day has grown to become one of the largest in the nation, bringing together L.A. County Departments alongside our many partners in local government, academia, and industry.