



# MONTEREY COUNTY 2019 CROP REPORT

Henry Gonzales
Monterey County Agricultural
Commissioner



### **IMPACTS FROM INVASIVE SPECIES**



#### IMPLOYS FROM MUNISIVE SPECIES

#### BY HEATHER HEALY, TIM LEWIS AND HANNAH WALLIS

Known for its beautiful coastline, diverse landscapes, and rich history, Monterey County is a prime destination spot for people from around the world. With 4.6 million visitors every year, tourism contributes an annual revenue of \$1.3 billion to the local economy. Aside from its world-renowned beauty, Monterey County is a leader in the agricultural industry, generating \$4.5 billion in 2018 alone. With an extensive farming history dating back to the 1850s, Monterey County currently grows over 150 specialty crops and exports nearly 400 billion pounds of produce from the Salinas Valley every year.

Despite this prosperity, our thriving industry and natural resources remain threatened by invasive species. The National Invasive Species Council (NISC) defines an invasive species as any nonnative insect, plant, animal, or disease that can "...cause economic or environmental harm, or harm to human, animal, or plant health," It is estimated that California loses three billion dollars annually in agricultural revenues due to damage from invasive pests that have been introduced throughout the state. The NIBC has identified certain invasive species whose establishment in the United States would increase those damages exponentially and directly impact Monterey County agriculture if they were to become established locally.



The Monterey County Agricultural Commissioner's Office (MCAC) works in conjunction with the United States Department of Agriculture (USDA) and the California Department of Food and Agriculture (CDFA) to prevent the introduction and establishment of invasive species. While the USDA is responsible for protecting the United States as a whole, CDFA works throughout the state of California and assists the MCAC in protecting the region. The Monterey County Agricultural Commissioner, Henry Gonzales, utilizes resources from USDA and CDFA, to support invasive pest detection efforts and safeguard the Interests of all Monterey County residents.

At the state level, CDFA utilizes a rating system to identify all non-native species based on overall significance. These ratings of A. B. C. D. or Q identify the action that agricultural commissioners will take when a non-native pest is identified. A, B, and C-rated pests are identified as invasive species while D-rated pests are simply considered non-native species because they do not pose any harm. Once a non-native species is identified as an invasive species however, action must be taken statewide.

The MCAC quarantine unit protects against invasive species establishment. Made up of 10 Agricultural Inspectors/Biologists and 13 Agricultural Assistants, the quarantine unit is split into three units of pest exclusion, pest detection, and pest management. Exclusion is prioritized to ensure harmful organisms are not brought in, then the detection and pest management branches control pests already present in the county. These highly trained professionals run a network of programs that mitigate any potential damages caused by invasive species.

The quarantine pest exclusion unit is Monterey County's first line of defense against A and B- rated invasive species. The MCAC is tasked with intercepting those pests before they can be introduced into the county. This is accomplished by inspecting all incoming shipments that could harbor pests like the Gypsy Moth, Glassy-Winged Sharpshooter, exotic fruit files, Japanese Beetle, and the Asian Citrus Psyllid (ACP), to name a few. Freight truck shipments, parcel deliveries, and airline baggage are considered high risk entry points to Monterey County. These avenues are constantly monitored by pest exclusion inspectors for incoming soil, plants, seeds and plant propagative parts that could harbor hitchhiking pests.

Monterey County's second line of defense, the pest detection unit, monitors for the presence of targeted A-rated pests with trapping programs. These programs are designed to capture insects which were not subject to, or might have been missed, during initial incoming inspections. The potential to spread pests is heightened when people move fruits, vegetables, plants, seeds, or animals from one area to another. Therefore, insect monitoring traps are strategically placed and moved throughout the County's neighborhoods, farmland, nurseries, and natural areas. They target pests like exotic fruit flies,



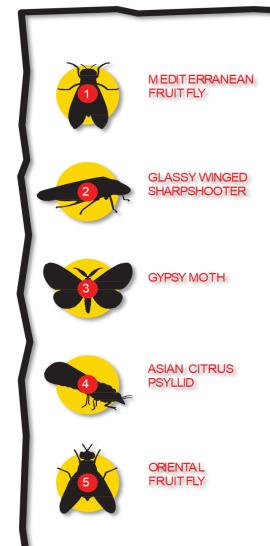
the Japanese Beetle, and the ACP in order to find invasive insects before they can become established. This early warning detection system alerts MCAC staff if an invasive insect is present. In 2019, the pest detection staff placed and serviced approximately 4,500 traps throughout Monterey County.

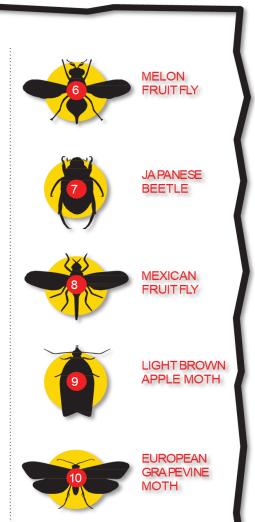
The pest management unit is the third line of defense. The MCAC works to control or remove A, B, and C-rated pests and weeds that are present within the county. Pest eradication programs such as Scotch Thistle, Skeleton Weed, and Puna Grass target complete removal, while control programs such as Yellow Starthistle, and French Broom seek to limit spread. This protects agricultural and native landscapes and prevents these noxious weeds from pushing out local flora and fauna in rangelands, natural, and public lands.



# TOP TEN CALIFORNIA INVASIVE PESTS







Ranking of invasive species varies in each county based on the threat of the pest, crops grown and climatic conditions of the area.

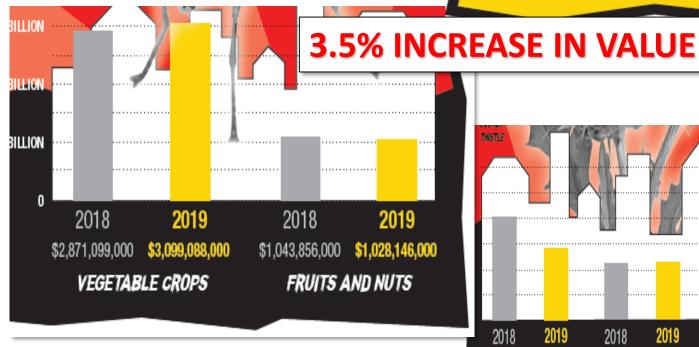


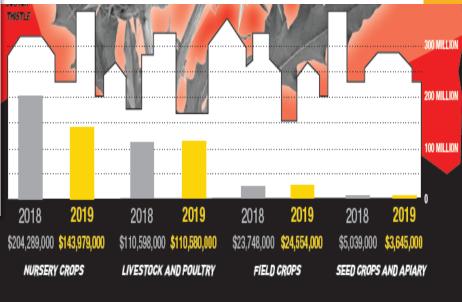


### 2019 GROSS PRODUCTION VALUE

#### TOTAL

2018 - \$4,258,629,000

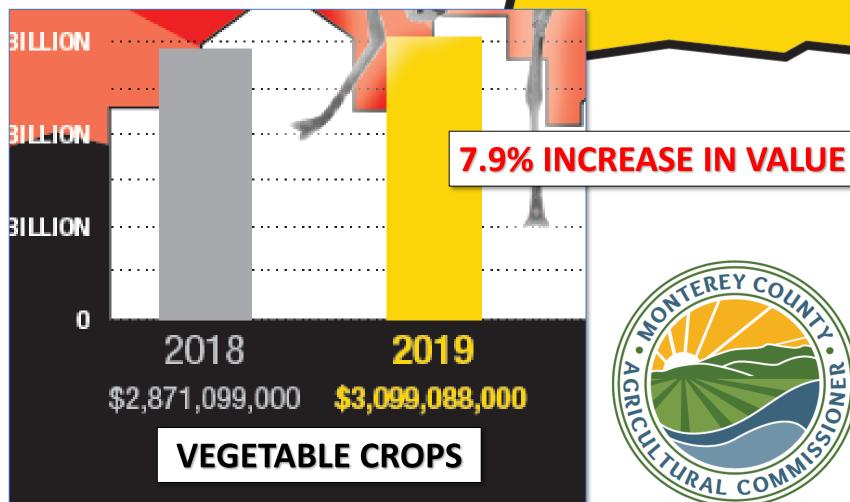




### **2019 GROSS** PRODUCTION VALUE



2018 - \$4,258,629,000





# 2019 GROSS PRODUCTION VALUE

#### TOTAL

2018 - \$4,258,629,000

2019 - \$4,409,992,000

1.5% DECREASE IN VALUE

2018 **2019** \$1,043,856,000 **\$1,028,146,000** 

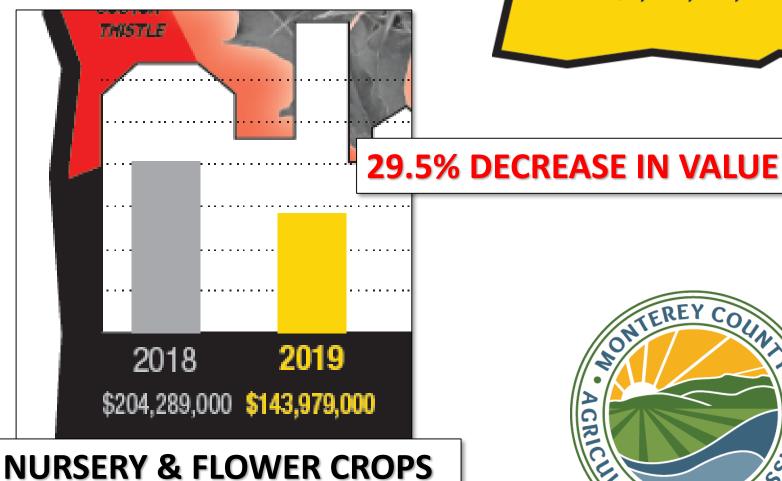
**FRUIT & NUTS CROPS** 



### **2019 GROSS PRODUCTION VALUE**



2018 - \$4,258,629,000

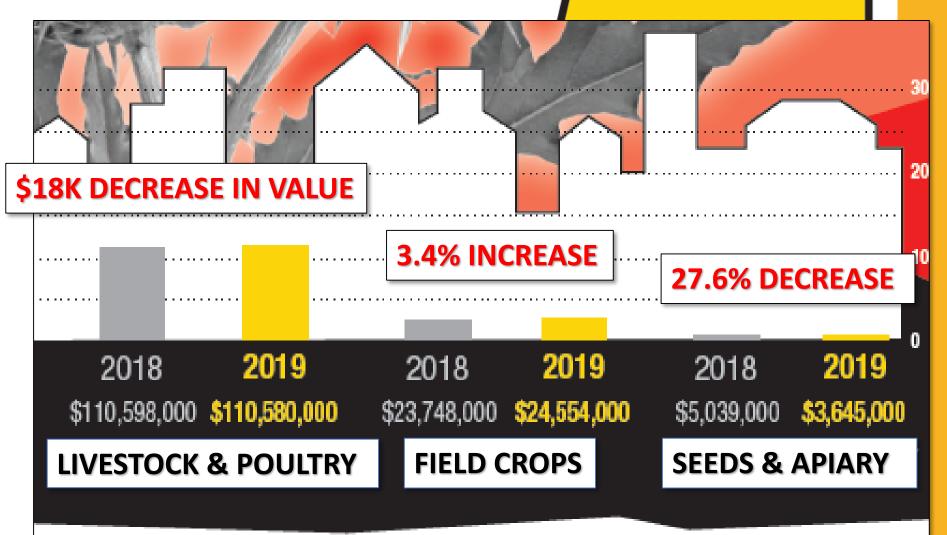




## 2019 GROSS PRODUCTION VALUE

TOTAL

2018 - \$4,258,629,000



### **TOP TEN CROPS BY VALUE**



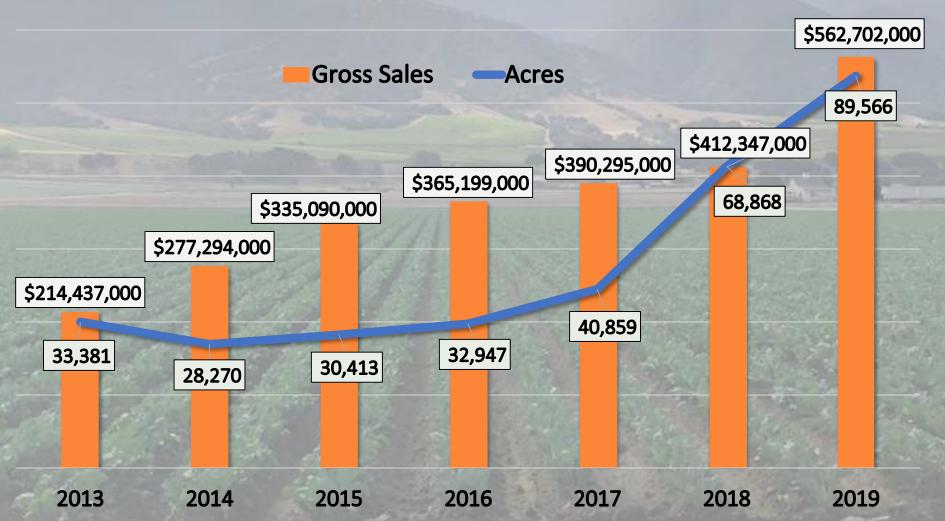
CROP	2019 CROP VALUE	2019 CROP RANKING
Leaf Lettuce	\$840,555,000	1
Strawberry	\$732,761,000	2
Head Lettuce	\$514,088,000	3
Broccoli	\$457,390,000	4
Cauliflower	\$212,375,000	5
Misc. Vegetables	\$196,840,000	6
Celery	\$186,391,000	7
Wine Grape	\$186,096,000	8
Nursery	\$143,979,000	9
Spinach	\$127,120,000	10





# ORGANIC PRODUCTION MONTEREY COUNTY





### **EXPORTS & TRADE PARTNERS**

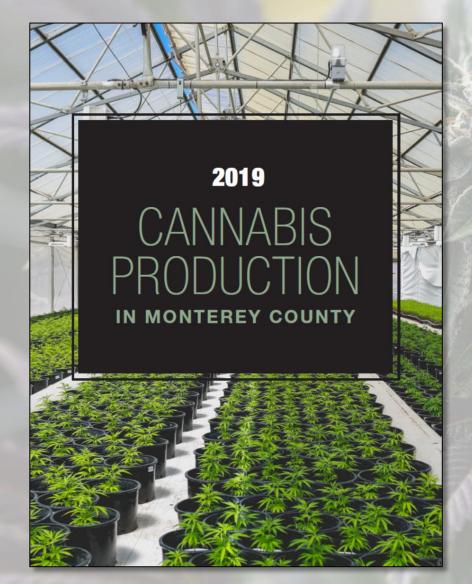


COMMODITY	<b>POUNDS</b>
Lettuce	110,203,000
Strawberry	87,229,000
Broccoli	37,081,000
Celery	22,638,000
Cauliflower	18,904,000
Spinach	17,599,000
Cabbage	8,208,000
Raspberry	4,311,000
Radicchio	4,083,000
Carrot	3,405,000
Leek	2,153,000
Brussels Sprout	1,490,000
<u>Other</u>	10,190,000
TOTAL	327,494,000

### **TOP TRADING PARTNERS BY COUNTRY** Mexico Canada **Taiwan** Japan **Hong Kong** Saudi Arabia **South Korea Kuwait United Arab Emirates** Singapore **European Union Puerto Rico Qatar**

# 1<sup>ST</sup> MONTEREY COUNTY CANNABIS PRODUCTION REPORT







## MONTEREY COUNTY CANNABIS PRODUCTION REPORT



The 2019 Cannabis Crop Report summarizes commercial cannabis production in Monterey County for the first time. Data revealed a gross production value of nearly \$450 million was cultivated on 86 acres in one year. In addition to our annual Crop Report with over 80 different commodities valued at \$4.4 billion, we are proud to introduce our first Cannabis Crop Report.

#### Recent History of Legal Cannabis Cultivation

A report of this kind would not be possible without the 2019 California Senate Bill 657. The bill authorizes county agricultural commissioners to report to the Secretary of the California Department of Food and Agriculture (CDFA) on the condition, acreage, production, and value of cannabis in the commissioner's county grown under a cultivation license. This bill was the idea of Monterey County Supervisor Luis Alejo and was sponsored by the County Board of Supervisors. The bill was authored by State Senator Bill Monnior.

In 2015, the Monterey County Board of Supervisors adopted an ordinance allowing cannabis cultivators to utilize historic greenhouse space, located mostly south and east of the City of Salinas, to cultivate cannabis. Similarly, the cities of Salinas, Seaside, Gonzales, Greenfield, and King City adopted ordinances allowing for the cultivation of cannabis in greenhouse and indoor facilities, and each have their own regulations and tax structures surrounding cannabis businesses. The vast majority of Cannabis cultivation occurs within the unincorporated areas of Monterey County. This report includes cultivation in incorporated and unincomprated areas.

Monterey County's Cannabis Ordinance limits cultivation to the footprint of buildings on farmland-zoned property, including the neglected greenhouses remnant of a once thriving flower industry. Japanese-Americans established nurseries here in the

1960s because the climate was ideal for greenhouse production. The flower industry peaked in the 2000s, and then declined due to increased competition from South America when U.S. anti-drug policies eliminated import tariffs to help promote their cut flower industry.

#### Licenses

All Monterey County commercial cannabis cultivators are issued state licenses from the CDFA CalCannabis Licensing Division. Cannabis licenses generally fall within two categories: cultivation and nursery. Cultivation licenses are required to cultivate cannabis in its mature state (flowering plants). A nursery license allows a licensee to produce seeds and cultivate immature plants (vegetative state without flowers).

Monterey County's ordinance allows for commercial indoor cultivation and mixed light cultivation, Indoor cultivation utilizes only artificial light whereas mixed light cultivation combines artificial and natural light to grow cannabis. At the local level, an applicant needs at least two pormits to operate in Monterey County, First, the applicant must obtain a Land Use Permit (LUP) from the County of Monterey, which allows a specific property to be used for cannabis business purposes. Second, the applicant must obtain a Monterey County Cannabis Eusiness Permit (CNB), which allows an operator to pass initial screening and background checks and provides the County with square footage production for tax purposes. A licensee may not operate without a valid LUP, CNB and state license, and must be in good standing with the County.

TABLE	20	2019 CDFA CalCannabis Cultivation Licensing in Monterey County									
A NURSE	NURSERY	PROCESSOR	SPECIALTY COTTAGE MIXED LIGHT (2,500 ft²)	SPECIALTY COTTAGE IND OOR (500 ft²)	SPECIALTY INDOOR (5,000 18)	SPECIALTY MIXED LIGHT (5,000 ft)	SMALL IND OOR (10,000 ft²)	SMALL MIXED LIGHT (10,000 ft²)	MEDIUM IND OOR (22,000 ft²)	MEDIUM MIXED LIGHT (22,000 ft²)	TOTAL
NO. OF LICENSES ISSUED BY CDFA	43	31	2	2	12	43	9	318	2	8	470
CULTIVATION LICENSED (SQUARE FEET)	Unlimited		5,000	1,000	60,000	215,000	90,000	3,180,000	44,000	176,000	3,771,000
CULTIVATION LICENSED (ACRES)	-	Н	0.11	0.02	1.38	4.94	2.07	73.00	1.01	4.04	86.57

Review of Table A in 2019, CDFA CalCannabis licensed approximately 3.77 million square feet, or 86.5 acres, of cannabis cultivation area for flowering plants in Monthery County, Eight different license types were issued in Monthery County to produce flowering canopy. License types represent gross production area permitted for cultivation and must not exceed each licensed square footage of flowering canopy. All the licensed square footage was not utilized in production during 2019. Even so, many operations utilized numerous licenses at one location. Throughout the year, there were approximately 70 locations utilizing the 470 licenses issued. Approximately 69% of licenses issued were for Small thised Light which reflects the use of numerous greenhouses in the Salinas Valley. Nursery licenses are needed to outilize be getative plants, that are not flowering, from seed or colones. Processor licenses are needed for combining cost-harvest activities between licenses and cannot cultivate Cannabis.

#### Cannabis Tax Rate & Revenue

In 2018, the cannable industry and Monterey County worked collaboratively to reduce taxes. Greenhouse cultivators in Monterey County are now taxed \$5 per square foot annually, and indoor cultivators are taxed \$8 per square foot annually. Murseries are taxed at \$1 per square foot annually. Cities within the County have varying tax rates. The State of California also levies taxes on cultivation, which are currently \$9.5 per ounce of fresh cannables plant.

The result of lower cannabis tax rates allowed the industry to invest more into its growth and infrastructure. The result has been increased permitted cultivation square footage from 1.42 million in 2018 to 3.94 million in 2020. The annual tax revenue to the County has increased from \$5.5 million in 2017-2018 fiscal year, to \$1.4.8 million in 2018-2019, and is expected to increase to \$16.0 million in 2019-2020.

TAB	LE B	Produ	<b>Production Volumes by Type</b>				
LICENSED PRODUCTION METHOD	ESTIMATED PRODUCTION AREA (SQUARE FEET)	NURSERY PRODUCTS (EA)	DRIED FLOWER (LB)	TRIM (LB)	SEED (LB)		
NURSERY	1,052,800	1,442,000	-	-	=		
INDOOR	115,500	-	46,000	22,600	=		
MIXED LIGHT	3,048,600	-	408,000	201,000	-		
TOTAL	4,216,900	1,442,000	454,000	223,600	-		

Review of Table B Monterey County cannabis production methods can be generalized into three groups: Nursery, Indoor and Mixed Light. Nursery products include clones/transplants, small potted plants (teens) and plants arown to produce clones (mothers), Indoor cultivation uses only artificial light and Mixed Light uses artificial and natural light, both production methods produce flowering plants. Total production area, including nursery production, was an estimated 4.21 million square feet for incorporated and unincorporated areas during 2019 in Monterey County. Estimated production of nursery products was 1.44 million immature plants. Indoor and mixed light dried flower production was estimated at 454,000 pounds, and trim (small pieces of flower and leaves containing cannabinoids) production was estimated at 223,600 pounds. No data was available for cannabis seed production.

TABLE C	Value Range of Products				
PRODUCT	VALUE: HIGH	VALUE: LOW			
NURSERY CLONES	\$5 each	\$3 each			
NURSERY TEENS	\$13 each	\$10 each			
NURSERY MOTHERS	\$50 each	\$35 each			
FLOWER (MIXED LIGHT)	\$950 lb	\$650 lb			
FLOWER (INDOOR)	\$1,700 lb	\$1,000 lb			
TRIM	\$150 lb	\$80 lb			
SEED	\$2 seed	\$1 seed			

Review of Table C Product values vary substantially and are influenced by strain, market demand, producing method, volume, THC concentration, smelt, and more. Estimated value data was summarized from Monterey County cuttivator surveys, Monterey County Cannabis industry Association, Coastal Growers Association, and sales data from University of California research. The product value reported here is determined when sold by the cuttivator, whether to another outlivator, manufacturer, or distributor, Values reported do not reflect additional production costs as it may be further processed, packaged, or sold directly at tetail.

TABLE <b>D</b>	Overall Production Value					
PRODUCT	PRODUCTION	UNIT	VALUE			
NURSERY PRODUCTS	1,442,000	Each	\$11,536,000			
FLOWER (MIXED LIGHT)	408,000	Pound	\$334,667,000			
FLOWER (INDOOR)	46,000	Pound	\$78,203,000			
TRIM	223,600	Pound	\$25,282,000			
SEED	-	Each	-			
TOTAL			\$449,688,000			

Review of Table D. Total production value for cannabis outlivation during 2019 was calculated at nearly \$460 million. The value is summarized and averaged from products soid and is a gross production value. Capital expenditures, lador, profits, fees, faxes, and other overhead costs are not reflected in this total and it does not represent the net profit of the industry, or any individual cultivator.

## MONTEREY COUNTY CANNABIS PRODUCTION VALUE



TABLE	E D	Overall Production Value				
PRODUCT		PRODUCTION	UNIT		VALUE	
NURSERY PRODUCTS		1,442,000	Each		\$11,536,000	
FLOWER (MIXED LIGHT)		408,000	Pound		\$334,667,000	
FLOWER (INDOOR)		46,000	Pound		\$78,203,000	
TRIM	\$449	MILLION IN	GROSS		\$25,282,000	
SEED	PR	RODUCTION VALUE			_	
TOTAL	PROD	PRODUCED ON 86 ACRES				

### THANK YOU!















### **QUESTIONS?**













