



DEPARTMENT OF AGRICULTURE  
and  
WEIGHTS AND MEASURES

Oh!  
THE  
**Weight**  
OF IT ALL!



THE  
**2023**  
CROP REPORT

**ENSURING  
FAIRNESS:**

*The Role of California  
Weights and Measures  
Officials in Consumer  
Protection*





DEPARTMENT OF AGRICULTURE  
and  
WEIGHTS AND MEASURES



Oh!  
THE  
**Weight**  
OF IT ALL!

## No one knows for sure

*when the first Weights and Measures official was appointed, but so vital are they to a nation's economic wellbeing, they likely existed before police, firefighters, and even health inspectors.*

In his 1821 Report on Weights and Measures, then Secretary of State John Quincy Adams documented the lack of uniform standards among the states and the need for a fixed standard to regulate fair trade. This, in part, led to the transformation by act of congress of the Office of Standard Weights and Measure into the National Bureau of Standards under the Treasury Department in 1901.

As secretary of state (1817–1825) John Quincy had many duties, but none intrigued him more than this topic. In 1817, the Senate passed a resolution asking that office to submit “a statement relative to the standard weights and measures” within the states and foreign countries, along with “propositions...as may be proper to be adopted” in America. John Quincy assumed the position on September 22, and by October 7 he drolly noted in his diary that the subject “weighs much upon my mind.” During the summer of 1820 he would wake up early to perform tests and record his results before going to work. Adams’s final report recommended that “no innovation upon the existing weights and measures should be attempted.” He instead called for America to “declare” its official measures “as they now exist” and to give standard metal measurements to “every State and Territory.”

For all his efforts, Adams’s work was not widely read. Indeed, his own father, John Adams, referred to it on May 10, 1821, as “a Mass of historical, philosophical chemical mathematical and political knowledge” but noted, “I cannot Say and perhaps Shall never be able to Say I have read it.” Upon the completion of the work Louisa Catherine recorded in her diary: “Thank God we hear no more of *Weights and Measures*” [January 6], and John Quincy commented on the final report in his diary: *It is, after all the time and pains that I have bestowed upon it a hurried and imperfect work; but I have no reason to expect that I shall ever be able to accomplish any literary labour more important to the best ends of human exertion, public utility, or upon which the remembrance of my children, may dwell with more satisfaction.*

<https://www.masshist.org/beehiveblog/2017/08/a-subject-which-weighs-much-upon-my-mind-john-quincy-adams-work-on-weights-and-measures/>

**SNEAK  
PEEK**  
Of our feature!





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**COUNTY OF FRESNO**  
**Department of Agriculture**

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*The County of Fresno  
is an Equal Employment  
Opportunity Employer*

Karen Ross, Secretary  
California Department of Food and Agriculture  
and  
The Honorable Board of Supervisors  
County of Fresno

Chairman Nathan Magsig  
Brian Pacheco                      Steve Brandau  
Sal Quintero                        Buddy Mendes  
Paul Nerland  
County Administrative Officer

It is my pleasure to submit the 2023 Fresno County Crop and Livestock Report. This report is produced in accordance with Sections 2272 and 2279 of the California Food and Agriculture Code; and summarizes the acreage, production, and value of agricultural commodities produced in Fresno County. The figures contained herein represent gross returns to the producers and does not reflect actual net profit.

Fresno County's total gross production value for 2023 is \$8,589,054,000. This represents an increase of \$493,508,000 or 6.1% over the previous year's total of \$8,095,546,000.

Once again, grapes are the leading agricultural commodity in Fresno County with a gross value of \$1,339,412,000, which represents 15.59% of the total gross value of all crops produced in 2023. The total gross value of almonds remained in the number two spot at \$1,023,658,000 followed by pistachios at \$862,021,000. Fresno County's agricultural strength is based on the diversity of crops produced. Included in the 2023 report are over 300 different commodities, 73 of which have a gross value in excess of \$1,000,000. Although individual commodities may experience difficulties from year-to-year, Fresno County continues to supply the highest quality of food and fiber nationwide and abroad to more than 90 countries around the world.

In this year's report we highlighted Weights and Measures programs and how they ensure all goods sold by weight or measure are calculated accurately. We give a brief overview of how Weights and Measures officials nationally and locally ensure devices used in commerce are accurate and correct giving consumers confidence in the marketplace.

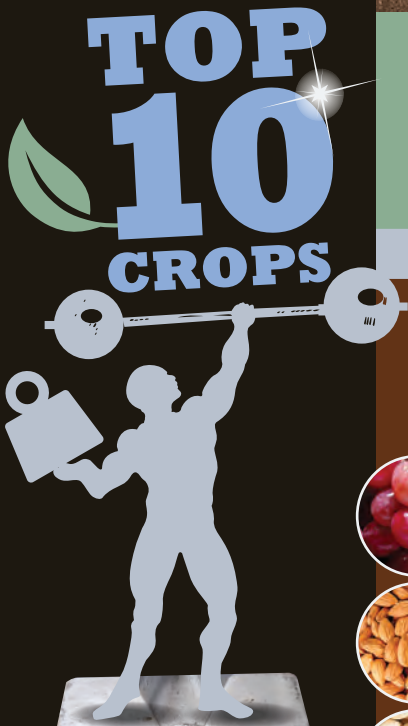
This report is our yearly opportunity to recognize the growers, shippers, ranchers, and other businesses instrumental to and supportive of agriculture in Fresno County. I would like to extend my thanks and appreciation to industry for their continuous efforts in providing the vital information that enables the compilation of this report. Thank you to all my staff; especially Angel Gibson, Amanda Zito, John Armanino, Mike Riccardi, Jessica Graves, and Edgar Soto. A special thank you goes to Gina Hill with the County of Fresno Internal Services Department for the graphic design. Without their hard work and valuable input, this report would not be possible.

Respectfully submitted,

Melissa Cregan  
Agricultural Commissioner/Sealer of Weights and Measures



# Check Out Our HEAVYWEIGHTS!



	2023 RANK		2023 TOTAL VALUE	2022 RANK
	<b>1</b>	<b>Grapes</b>	<b>\$1,339,412,000</b>	<b>1</b>
	<b>2</b>	<b>Almonds</b>	<b>\$1,023,658,000</b>	<b>2</b>
	<b>3</b>	<b>Pistachios</b>	<b>\$862,021,000</b>	<b>3</b>
	<b>4</b>	<b>Tomatoes</b>	<b>\$601,389,000</b>	<b>7</b>
	<b>5</b>	<b>Cattle &amp; Calves</b>	<b>\$572,418,000</b>	<b>6</b>
	<b>6</b>	<b>Poultry*</b>	<b>\$546,119,000</b>	<b>5</b>
	<b>7</b>	<b>Milk</b>	<b>\$538,349,000</b>	<b>4</b>
	<b>8</b>	<b>Peaches</b>	<b>\$365,871,000</b>	<b>8</b>
	<b>9</b>	<b>Garlic</b>	<b>\$309,396,000</b>	<b>9</b>
	<b>10</b>	<b>Nectarines</b>	<b>\$246,369,000</b>	<b>11</b>

Includes commodity totals reported in the "Other" categories such as organic, by-products, processed etc.

\* Includes Chickens, Ducks, Geese, Gamebirds, and Turkeys



DEPARTMENT OF AGRICULTURE  
and  
WEIGHTS AND MEASURES

# TOP TEN CROPS

THE BIGS!

1



**Grapes**

\$1,339,412,000  
BILLION

2



**Almonds**

\$1,023,658,000  
MILLION

3



**Pistachios**

\$862,021,000  
MILLION

4



## NEXT WEIGHT UP

### THE MULTI CLUB: IN THE BILLIONS/MILLIONS

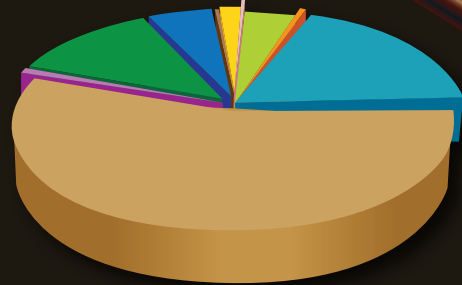
Cherry	96	Citrus Other	7
Corn	87	Grapefruit	7
Lemons	61	Squash	6
Carrot	59	Parsley	6
Nursery	58	Celery	5
Wheat	55	Industrial Hemp	3
Blueberries	53	Pluots	3
Vegetable Misc.	46	Oat	2
Alfalfa	45	Gourd	2
Pomegranates	32	Lemongrass	2
Kiwi	22	Daikon	2
Walnuts	18	Rice	2
Apricots	18	Cauliflower	2
Persimmons	17	Broccoli	2
Bell Peppers	17	Asparagus	2
Mustard	15	Sorghum	2
Sheep and Wool	15	Napa Cabbage	1
Rangeland	14	Sudan Grass	1
Pears, Asian & European	13	Bok Choy	1
Olive	11	Industrial Commodities	1
Beans (All)	10	Misc. Other Livestock	1
Eggplant	10	Irrigated Pasture	1
Swine	9	Bittermelon	1
Barley	9	Chili Pepper	1
Triticale	8	Sinqua	1
Manure	8	Fennel	1
Tangelo	7	Cabbage	1



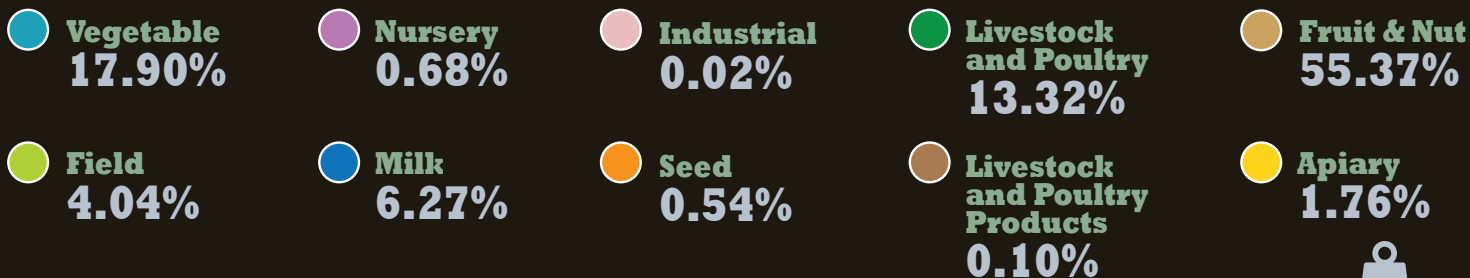
# THE BIG REVEAL TOTAL VALUE FOR 2023



## \$8,589,054,000



### RELATIONSHIPS IN TERMS OF TOTAL VALUE FOR 2023 CROP YEAR



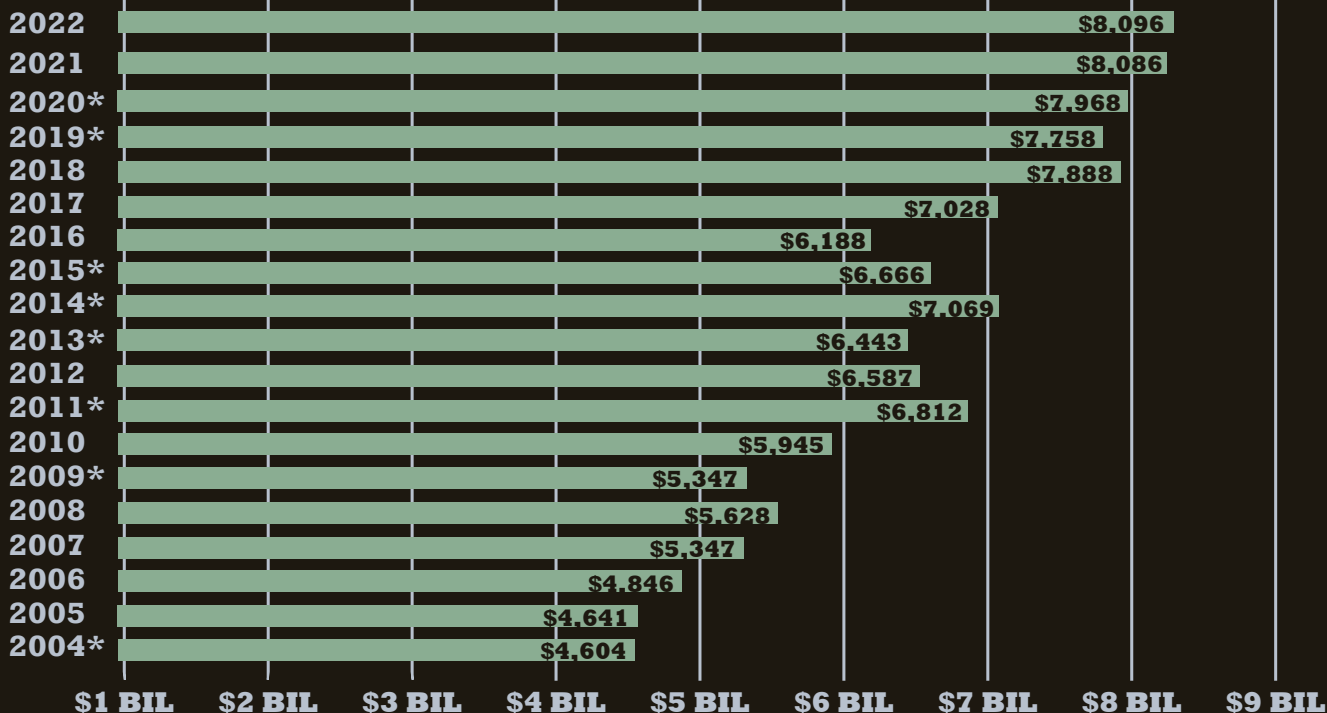
### GROWTH OVER 20 YEARS FOR FRESNO COUNTY AGRICULTURE

\*Revised



## 2023

## \$8,589,054,000



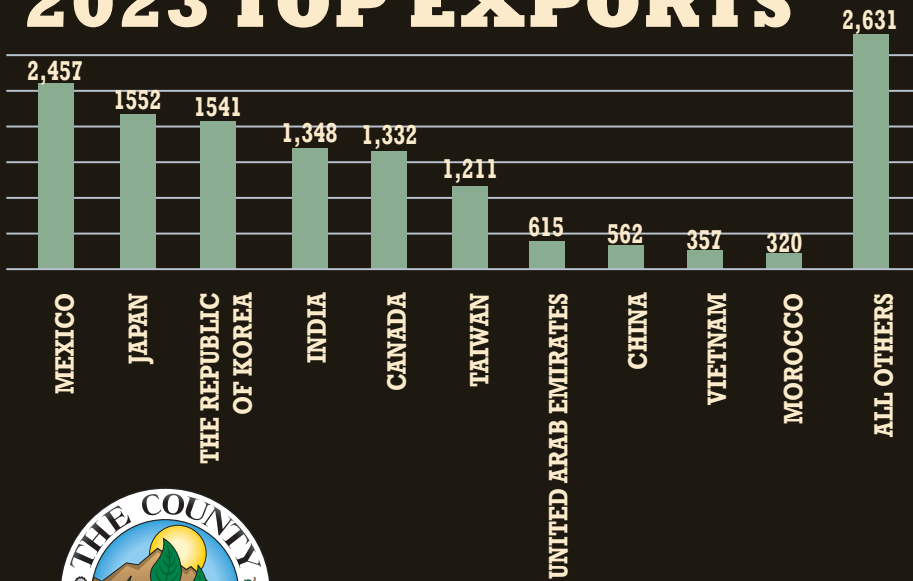
### GROSS PRODUCTION IN VALUE (IN \$BILLIONS)



# SHIPMENTS AROUND THE WORLD

## 2023 FRESNO COUNTY EXPORTS

### 2023 TOP EXPORTS



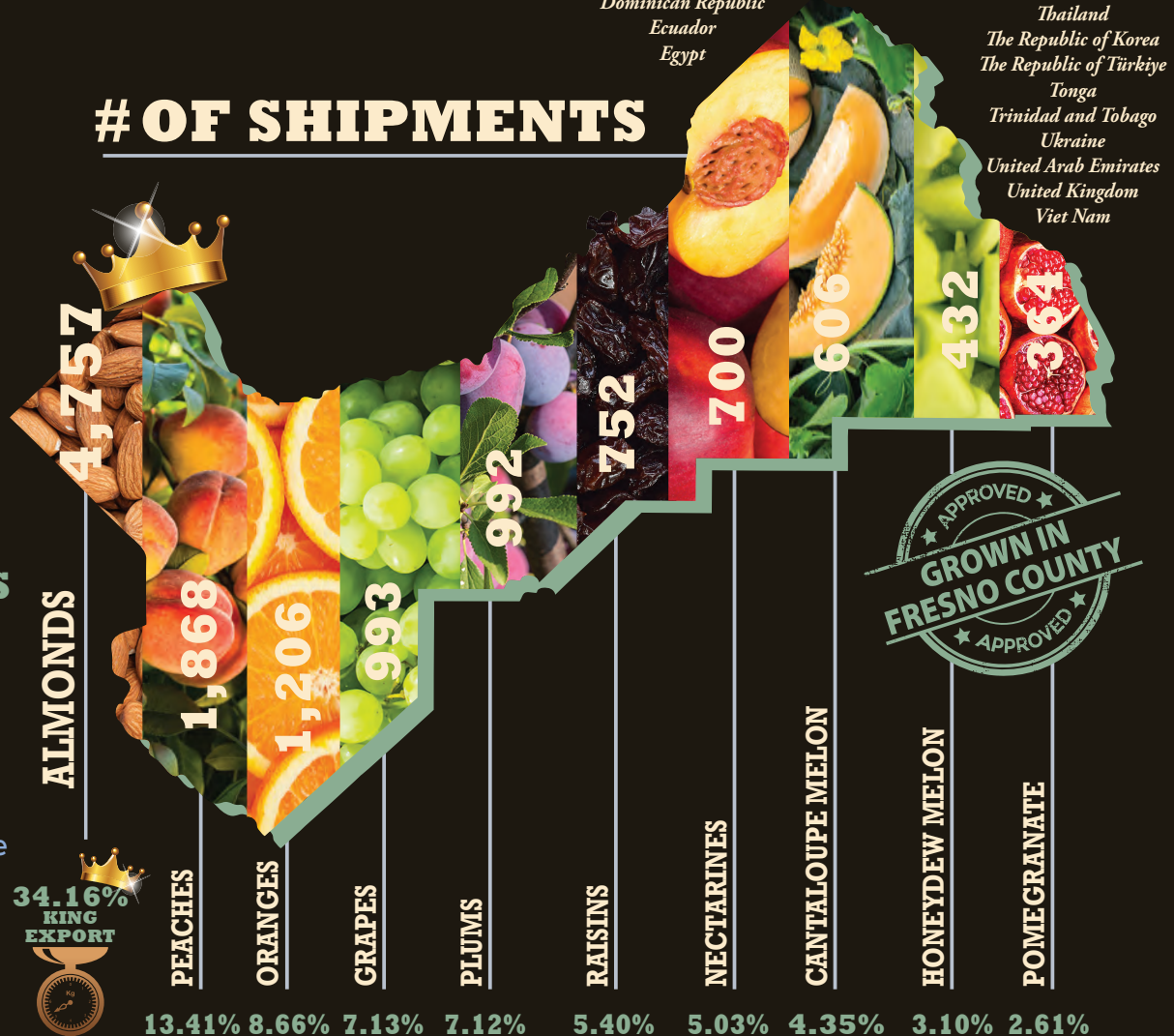
OTHER COUNTRIES INCLUDE:

- Afghanistan
- Algeria
- Argentina
- Armenia
- Australia
- Austria
- Azerbaijan
- Bahrain
- Bangladesh
- Belarus
- Bosnia and Herzegovina
- Brazil
- Brunei Darussalam
- Bulgaria
- Cambodia
- Canada
- Chile
- China
- Colombia
- Costa Rica
- Croatia
- Cyprus
- Czech Republic
- Denmark
- Dominican Republic
- Ecuador
- Egypt
- El Salvador
- Estonia
- Fiji
- France
- French Polynesia
- Georgia
- Germany
- Greece
- Guatemala
- Guyana
- Honduras
- Hong Kong
- Hungary
- India
- Indonesia
- Iraq
- Ireland
- Israel
- Italy
- Jamaica
- Japan
- Jordan
- Kazakhstan
- Latvia
- Lebanon
- Libya
- Lithuania
- Malaysia
- Malta
- Mexico
- Montenegro
- Morocco
- Nepal
- Netherlands
- New Zealand
- Nicaragua
- Norway
- Pakistan
- Panama
- Peru
- Philippines
- Poland
- Portugal
- Qatar
- Saudi Arabia
- Serbia
- Singapore
- Slovakia
- South Africa
- Spain
- Sri Lanka
- Sweden
- Switzerland
- Taiwan
- Thailand
- The Republic of Korea
- The Republic of Türkiye
- Tonga
- Trinidad and Tobago
- Ukraine
- United Arab Emirates
- United Kingdom
- Viet Nam



**IN 2023,**  
Fresno County Inspectors issued a total of **13,926** PHYTOSANITARY CERTIFICATES for **114** UNIQUE COMMODITIES destined for markets in **90 COUNTRIES** AROUND THE WORLD. In addition, **157.43 ACRES** of export seed fields of corn and head lettuce were inspected and certified.

### # OF SHIPMENTS





DEPARTMENT OF AGRICULTURE  
and  
WEIGHTS AND MEASURES



THE  
**2023**  
CROP REPORT

**ENSURING  
FAIRNESS:**

*The Role of California  
Weights and Measures  
Officials in Consumer  
Protection*



*In the bustling landscape of California's diverse markets, ensuring fairness and accuracy in commercial transactions is paramount. This responsibility falls squarely on the shoulders of California's Weights and Measures officials, who play a crucial role in safeguarding consumers from misleading practices and protecting businesses by ensuring equity in trade. From the bustling farmer's markets of San Francisco to the sprawling malls of Los Angeles, these officials work tirelessly to enforce standards that uphold the integrity of transactions and protect the rights of consumers.*

*Oh!*

THE  
**Weight**  
OF IT ALL!



**WEIGHTS & MEASURES HISTORY**

In every transaction, an impartial and largely unseen third-party watchdog has been an essential element to ensure fair and honest trade. *Being this third-party watchdog is the role the Weights and Measures official.* No one knows for sure when the first Weights and Measures official was appointed, but so vital are they to a nation's economic wellbeing, they likely existed before police, firefighters, and even health inspectors. In his 1821 *Report on Weights and Measures*, then Secretary of State John Quincy Adams documented the lack of uniform standards among the states and the need for a fixed standard to regulate fair trade. This, in part, led to the transformation of the Office of Standard Weights and Measure into the National Bureau of Standards under the Treasury Department in 1901. In 1903, it was renamed as the Bureau of Standards and transferred to the new U.S. Department of Commerce and Labor. In 1905, the Bureau of Standards held the "First Annual Meeting of Sealers of Weights and Measures of the United States". This meeting would later become the National Conference on Weights and Measures (NCWM) and the Bureau of Standards would eventually become the National Institute of Standards and Technology (NIST).

**AUTHORITY AND SCOPE IN CALIFORNIA**

California Weights and Measures officials operate under the purview of the California Department of Food and Agriculture, Division of Measurement Standards (CDFA DMS), empowered by a framework of state laws and regulations designed to guarantee fairness in commerce. Their mandate covers a wide array of commodities and transactions, including but not limited to:

- **Commercial Devices:** Ensuring that meters, scales, and other weighing and measuring devices used in retail and wholesale settings accurately measure goods, preventing under- or over-charging of consumers. This program includes inspecting gas pump meters to ensure they dispense fuel accurately.



- **Fuels, Lubricants, and Petroleum Products:**

Assuring minimum quality standards for most automotive products (gasoline, oxygenated blends, diesel fuel, motor oil, brake fluid, automatic transmission fluid, antifreeze/coolants, and alternative engine fuels) sold in California. Additionally, this program regulates the advertising and labeling of these products.

- **Price Verification:** Monitoring price scanners in supermarkets and stores to ensure that consumers are charged the advertised prices at checkout, promoting transparency and trust.
- **Quantity Control:** Conducting inspections on a variety of packaged goods to verify compliance with net quantity statements and federal labeling requirements.

*In California, Weights and Measures laws and regulations are enforced locally by the County Agricultural Commissioner/Sealer of Weights and Measures as the head of the County Department of Agriculture. Our Weights and Measures programs provide consumer protection with each transaction by precise and continuous inspection and testing of each device used throughout each county in California. The County Agricultural Commissioner/Sealer of Weights and Measures are the local enforcement arm of the CDFA DMS in the execution of Weights and Measures laws and regulations.*



### CONSUMER IMPACT

The efforts of California Weights and Measures officials directly benefit consumers in numerous ways that often go unseen and unnoticed. By maintaining the accuracy of weighing and measuring devices, consumers can shop with confidence, knowing they are paying the correct price for goods. *Inaccurate measurements or deceptive packaging can lead to financial losses for consumers, eroding trust in the marketplace. Through rigorous enforcement and education initiatives, our national and local officials empower consumers to make informed choices, promoting a level playing field for both businesses and shoppers.* State and County Weights and Measures officials ensure that the produce scales at your local farmer's markets and grocery stores are weighing your fruits and vegetables accurately, ensure that each gallon of gas you pay for is a true gallon dispensed into your vehicle's gas tank (*look for the County Sealer starburst seal on each grade of gasoline during your next fuel up*), and verify that the price advertised for an item on a store shelf is the price you are actually charged at checkout.

**As we all feel the sting of inflation, this assurance of trust in the marketplace is more meaningful now than ever.**





## ENFORCEMENT AND COMPLIANCE

Enforcement of Weights and Measures laws in California is multifaceted, involving routine inspections, complaint investigations, and proactive outreach to businesses. *Officials conduct unannounced inspections to deter non-compliance and respond promptly to consumer complaints regarding overcharging, underweight packages, or inaccurate measurements.* Moreover, they collaborate with industry stakeholders to foster compliance through training programs and educational outreach, emphasizing the importance of adherence to standards in maintaining consumer confidence and market integrity.

In 2023, Fresno County Weights & Measures inspectors verified the correctness and accuracy of 23,640 weighing and measuring devices used in commerce throughout Fresno County. *As a direct result of these regular and thorough inspections, Fresno County saw a 96.48% compliance rate across all devices. Any out-of-compliance device that is off in favor of the customer is yellow tagged and allowed to be used until the device is brought into compliance by a registered service agent. Any device that that is off in favor of the retailer is red tagged and is prohibited from use until it is brought into compliance by a registered service agent.* This ensures that both residents and visitors in Fresno County are accurately charged for any purchase they make based on weight or measure.

## LOOKING AHEAD

As California's economy continues to grow and diversify, the role of Weights and Measures officials remains pivotal in upholding consumer rights and ensuring fair competition. By adapting to technological advancements and expanding their regulatory frameworks, officials can better protect consumers in an increasingly complex marketplace. Through collaboration with businesses and improving public education efforts, they strive to foster a marketplace where honesty, transparency, and fairness continue to prevail. The work of California Weights and Measures officials is indispensable in maintaining consumer trust and market integrity. *By enforcing standards that guarantee accuracy and fairness in commercial transactions, they uphold the fundamental principles of consumer protection, ensuring that all Californians can shop with confidence and peace of mind.*



While Fresno County and other Weights and Measures officials throughout the state and nation perform routine device testing, *we also depend on our consumers' eyes and experiences to help us identify and rectify any issues.* If you would like more information or suspect any problems with any weighing or measuring device, package label or quantity, a pricing discrepancy, or any other concern within Fresno County, please let us know!



DEPARTMENT OF AGRICULTURE  
and  
WEIGHTS AND MEASURES

## Fresno County Department of Agriculture



1730 S Maple Ave  
Fresno, CA 93702



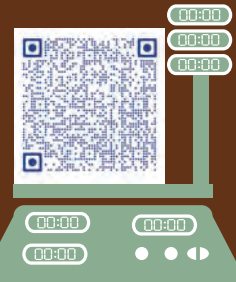
(559) 600-7510



<https://www.fresnocountyca.gov/Departments/Agricultural-Commissioner>

*\*For areas outside of Fresno County, please contact your local Weights and Measures agency.*

**SCAN  
FOR EVEN  
MORE INFO!**



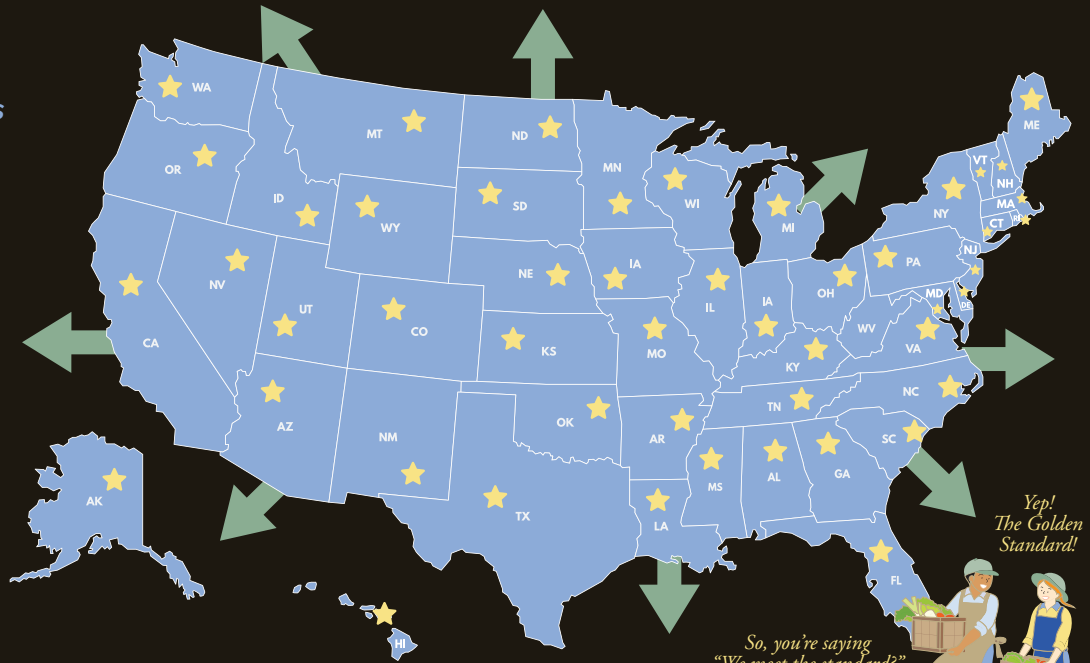


# FROM NORTH TO SOUTH AND EAST TO WEST, OUR **GOLDEN** STANDARDS ARE THE BEST!

Weights and Measures ensures standards that are practical and widely accepted nationwide!



A nod to Norman Rockwell's "Tipping The Scales"



Yep! The Golden Standard!

So, you're saying "We meet the standard?"

## HOW NCWM AND NIST ENSURES CONFORMITY AMONG STATES

National Conference on Weights and Measures (NCWM) and National Institute of Standards and Technology (NIST) play crucial roles in ensuring uniformity in Weights and Measures regulations across the United States. NCWM develops standards, or model laws, related to Weights and Measures through a process involving meetings that allow anyone to have a voice. *These standards serve as templates for states to adopt into their own legal frameworks.* NCWM operates as a non-profit organization where representatives from state and local Weights and Measures enforcement agencies, industry stakeholders, and consumers collaborate to develop these standards. This consensus-building process ensures that the standards are practical and widely accepted.

The process of developing or changing a standard starts with an idea. Anyone can submit their idea for a new standard to the NCWM and that idea will be developed through open comments during meetings of the NCWM. Once NCWM develops a standard via committees during NCWM meetings, it is then presented to member states for adoption at the Annual NCWM meeting. *States have the flexibility to adopt these standards by reference or, less commonly, develop their own standards to suit their local needs.* NIST supports NCWM by providing technical expertise, research, and standards development. *NIST's laboratories and research help validate measurement techniques and ensure accuracy, which informs the development of NCWM's model laws.* This consistency simplifies compliance for businesses operating across state lines and enhances consumer confidence in the marketplace. NIST publishes these model laws, regulations, and specifications into the following NIST Handbooks used by Weights and Measures officials nationwide:



# GOLDEN



# STANDARD






- **NIST Handbook 44:** Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices
- **NIST Handbook 130:** Uniform Laws and Regulations in the Areas of Legal Metrology and Engine Fuel Quality
- **NIST Handbook 133:** Checking the Net Contents of Packaged Goods

# 2023 CROP HIGHLIGHTS

## Field Crops



CROP	YEAR	HARVESTED ACREAGE	PRODUCTION			VALUE		
			PER ACRE	TOTAL	PER UNIT	PER UNIT	TOTAL	
 <b>Corn</b>								
	<b>Silage</b>							
	2023	31,780	22.61	719,000	ton	\$ 64.00 <sup>a</sup>	\$ 46,016,000	
	2022	24,890	20.81	518,000	ton	\$ 91.00 <sup>a</sup>	\$ 47,138,000	
 <b>Cotton</b>								
	<b>Lint</b>							
		2023	44,100	1,334.00 <sup>b</sup>	118,000 <sup>c</sup>	bale	\$ 1.90 <sup>d</sup>	\$ 112,997,000
		2022	36,700	1,540.00 <sup>b</sup>	113,000 <sup>c</sup>	bale	\$ 2.22 <sup>d</sup>	\$ 126,443,000
	<b>Seed</b>							
	2023			41,300	ton	\$ 426.00	\$ 17,594,000	
	2022			39,200	ton	\$ 520.00	\$ 20,384,000	
<b>COTTON TOTAL<sup>e</sup></b>	<b>2023</b>	<b>44,100</b>					<b>\$ 130,591,000</b>	
	2022	36,700					\$ 146,827,000	
 <b>Hay</b>								
	<b>Alfalfa</b>							
		2023	23,400	6.87	161,000	ton	\$ 264.00	\$ 42,504,000
		2022	24,500	9.06	222,000	ton	\$ 265.00	\$ 58,830,000
	<b>Wheat</b>							
	2023	24,200	3.59	87,800	ton	\$ 153.00	\$ 13,433,000	
	2022	22,400	4.33	97,000	ton	\$ 231.00	\$ 22,407,000	
<b>Other<sup>f</sup></b>								
	2023	28,710	3.44	98,800	ton	\$ 114.00	\$ 11,263,000	
	2022	12,970	2.81	36,500	ton	\$ 190.00	\$ 6,935,000	



# 2023 CROP HIGHLIGHTS

## Field Crops



CROP	YEAR	HARVESTED ACREAGE	PRODUCTION			VALUE	
			PER ACRE	TOTAL	PER UNIT	PER UNIT	TOTAL
<b>Wheat</b>							
	<b>Grain</b>	2023	24,900	3.3	82,100	ton	\$ 350.00
	2022	23,000	2.8	64,400	ton	\$ 397.00	\$ 25,567,000
<b>Silage</b>	2023	19,400	10.59	205,000	ton	\$ 59.00	\$ 12,095,000
	2022	17,900	11.78	211,000	ton	\$ 50.00	\$ 10,550,000



<b>Other</b> <sup>g</sup>	2023	909,810					\$ 62,296,000
	2022	874,080					\$ 55,184,000
<b>TOTAL</b>	<b>2023</b>	<b>1,106,300</b>					<b>\$ 346,933,000</b>
	2022	1,036,440					\$ 373,438,000

a Field price

b Pounds of lint per acre

c 500 pounds lint per bale

d Price per pound, 504 pounds gross weight per bale

e Does not include cotton seed for planting

f Includes hay from: barley, wheatgrass, oats, sudan grass, triticale and winter forage

g Includes alfalfa (silage), barley (forage/silage/grain/straw), field stubble (crops grazed-includes acres not included in total field crop acreage), industrial hemp, irrigated pasture, oat (silage), rangeland, rice (grain), rye (silage), sorghum (grain & silage), triticale (forage), winter forage. **ORGANIC:** barley, wheat (grain).

# 2023 CROP HIGHLIGHTS

## Seed Crops



CROP	YEAR	HARVESTED ACREAGE	PRODUCTION			VALUE	
			PER ACRE	TOTAL	PER UNIT	PER UNIT	TOTAL
<b>Alfalfa</b>							
	<b>Certified</b>	2023	520	629	327,000	lb	\$ 3.75
	2022	1,060	902	956,000	lb	\$ 3.65	\$ 3,489,000



<b>Vegetable</b> <sup>a</sup>	2023	4,280					\$ 41,110,000
	2022	1,640					\$ 15,284,000



<b>Other</b> <sup>b</sup>	2023	2,190					\$ 3,756,000
	2022	2,240					\$ 9,633,000
<b>TOTAL</b>	<b>2023</b>	<b>6,990</b>					<b>\$ 46,093,000</b>
	2022	4,940					\$ 28,406,000

a Arrugala, bean, garbanzo, broccoli, lettuce (head & leaf), mizuna, onion and misc. vegetable seeds.

b Alfalfa non-certified, barley, triticale, and wheat.



# 2023 CROP HIGHLIGHTS

## Vegetable Crops



CROP	YEAR	HARVESTED ACREAGE	PRODUCTION			VALUE	
			PER ACRE	TOTAL	PER UNIT	PER UNIT	TOTAL
 <b>Corn, Sweet</b>	2023	3,720	8.63	32,100	ton	\$ 997.00	\$ 32,004,000
	2022	3,460	9.14	31,600	ton	\$ 762.00	\$ 24,079,000
 <b>Eggplant</b>	2023	720	12.28	8,800	ton	\$ 1,191.00	\$ 10,479,000
	2022	830	11.78	9,780	ton	\$ 1,132.00	\$ 11,069,000
 <b>Garlic</b> <sup>a</sup> Fresh/Processed	2023	22,700	7.80	177,000	ton	\$ 1,748.00	\$ 309,396,000
	2022	23,230	7.97	185,000	ton	\$ 1,902.00	\$ 351,870,000
 <b>Head Lettuce</b> Naked				3,500	ton		
				18,500	ton		
				2,200	ton		
 <b>SPRING SEASON TOTAL</b>	2023	1,130	21.42	24,200	ton	\$1,026.00	\$ 24,829,000
	2022	1,740	21.55	37,500	ton	\$ 641.00	\$ 24,038,000
				5,100	ton		
				25,400	ton		
				14,300	ton		
 <b>FALL SEASON TOTAL</b>	2023	3,200	14.45	44,800	ton	\$ 578.00	\$ 25,894,000
	2022	1,400	22.93	32,100	ton	\$1,362.00	\$ 43,720,000
 <b>HEAD LETTUCE TOTALS</b>	2023	4,230		69,000			\$ 50,723,000
	2022	3,140		69,600			\$ 67,758,000



# 2023 CROP HIGHLIGHTS

## Vegetable Crops



### Melons

#### Conventional & Organic

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION			VALUE	
			PER ACRE	TOTAL	PER UNIT	PER UNIT	TOTAL
Cantaloupe <sup>b</sup>	2023	7,880	18.02	142,000	ton	\$ 459.00	\$ 65,178,000
	2022	6,970	16.64	116,000	ton	\$ 508.00	\$ 58,928,000
Honeydew <sup>b</sup>	2023	3,670	17.38	63,800	ton	\$ 627.00	\$ 40,003,000
	2022	3,100	18.89	58,600	ton	\$ 661.00	\$ 38,735,000
Mixed Melons	2023	4,380	13.03	57,100	ton	\$ 403.00	\$ 23,011,000
	2022	2,520	13.73	34,600	ton	\$ 655.00	\$ 22,663,000
Watermelon	2023	2,990	20.60	61,600	ton	\$ 311.00	\$ 19,158,000
	2022	1,930	27.13	52,400	ton	\$ 281.00	\$ 14,724,000
Melon Total	<b>2023</b>	<b>18,920</b>					<b>\$ 147,350,000</b>
	2022	14,520					\$ 135,050,000



### Onions

#### Fresh/Processed

Fresh/Processed	2023	10,520	24.38	256,000	ton	\$ 569.00	\$ 145,664,000
	2022	10,780	20.69	223,000	ton	\$ 347.00	\$ 77,381,000



### Oriental Vegetables<sup>c</sup>

Oriental Vegetables <sup>c</sup>	2023	1,270		15,000	ton		\$ 19,665,000
	2022	1,260		14,600	ton		\$ 24,674,000



### Pepper, Bell<sup>b</sup>

Pepper, Bell <sup>b</sup>	2023	920	20.50	18,860	ton	\$ 909.00	\$ 17,144,000
	2022	880	18.43	16,220	ton	\$ 1,130.00	\$ 18,329,000



### Squash<sup>d</sup>

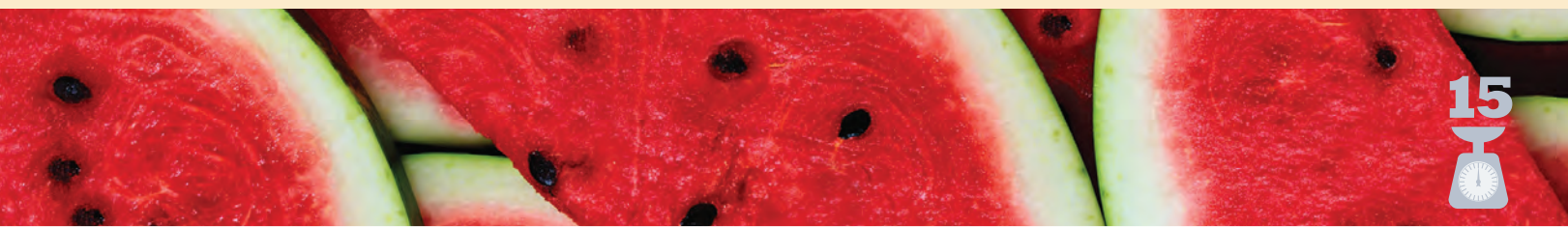
Squash <sup>d</sup>	2023	760	12.03	9,144	ton	\$ 738.00	\$ 6,748,000
	2022	1,040	10.89	11,300	ton	\$ 788.00	\$ 8,925,000



### Tomatoes

#### Processed

Processed	2023	67,750	55.93	3,789,000	ton	\$ 133.00	\$ 503,937,000
	2022	56,300	49.15	2,767,000	ton	\$ 89.00	\$ 246,263,000



# 2023 CROP HIGHLIGHTS

## Vegetable Crops



CROP	YEAR	PRODUCTION				VALUE	
		HARVESTED ACREAGE	PER ACRE	TOTAL	PER UNIT	PER UNIT	TOTAL
<b>Other</b> <sup>e</sup>	2023	23,460				\$	294,652,000
	2022	28,000				\$	275,421,000
<b>TOTAL</b>	<b>2023</b>	<b>154,970</b>				<b>\$</b>	<b>1,537,762,000</b>
	2022	143,440				\$	1,240,819,000

a Includes both conventional & organic

b Includes fresh and processed

c Includes a choy, amaranth, bitter melon (fruit and leaf), bok choy, chayote (fruit and leaf), curry leaf tree, daikon, doan qua, gai choy, gailon, ginger (root & leaf), lambsquarter, lemon grass, lo bok, malabar, mizuna, methi, moqua, mora, moringa (fruit and leaf), nagaimo, napa cabbage, ong choy, opo, saluyote, sinqua, sour leaf, sugar cane, taro (root and leaf), tatsoi, tong ho, yam (root and leaves), yu choy; **ORGANIC**: lemon grass.

c Includes summer and winter varieties

d Includes arrugula, asparagus, basil, beans (shell & snap), beets, broccoli, brussel sprouts, cabbage, cactus (leaf), carrots, casava (root & leaf), cauliflower, celery, chamomile, chive, collards, cucumber, dandelion green, dill, fennel, gourd, kale, kohlrabi, lavender, leeks, lettuce-leaf, marjoram, mint, mushroom, mustard (fresh & leaf), nettle, okra, green onion, oregano, parsley, parsnip, peanut, peas, pennywort, chili pepper, potato, pumpkin (fresh, processed & leaf), purslane, radish, rapini, rosemary, sage, savory, shallot, spinach, sunchokes, swiss chard, tarragon, thyme, tinda, tindora, tomato (standard & cherry), tomatillo, tumeric, turnips; **ORGANIC**: cantaloupe, corn (sweet), honeydew melon, processed tomatoes, market tomatoes.

# 2023 CROP HIGHLIGHTS

## Fruit and Nut Crops



CROP	YEAR	PRODUCTION				VALUE	
		HARVESTED ACREAGE	PER ACRE	TOTAL	PER UNIT	PER UNIT	TOTAL
<b>Almonds</b> <sup>a</sup>	2023	327,480	.89	291,000	ton	\$3,262.00	\$ 949,242,000
	2022	302,830	1.05	318,000	ton	\$3,148.00	\$ 1,001,064,000
<b>Almond Hulls</b>	2023			552,000	ton	\$ 118.00	\$ 65,136,000
	2022			542,000	ton	\$ 193.00	\$ 104,606,000
<b>ALMOND TOTAL</b>	<b>2023</b>						<b>\$1,104,378,000</b>
	2022						\$1,105,670,000



<b>Apricots</b> <sup>a</sup>	2023	1,110	4.02	4,460	ton	\$3,943.00	\$ 17,586,000
	2022	1,090	8.05	8,775	ton	\$2,205.00	\$ 19,349,000



<b>Blueberries</b> <sup>a</sup>	2023	1,660	6.63	11,000	ton	\$4,882.00	\$ 53,702,000
	2022	1,600	3.57	5,710	ton	\$6,624.00	\$ 37,823,000









<b>Cherries</b> <sup>a</sup>	2023	4,200	4.95	20,800	ton	\$ 4,611.00	\$ 95,909,000
	2022	4,300	1.65	7,100	ton	\$4,896.00	\$ 34,762,000

# 2023 CROP HIGHLIGHTS

## Fruit and Nut Crops






CROP	YEAR	PRODUCTION				VALUE			
		HARVESTED ACREAGE	PER ACRE	TOTAL	PER UNIT	PER UNIT	TOTAL		
 <b>Citrus Grapefruit</b> <sup>a</sup>	Fresh	2023	940	23.72	22,300	ton	\$ 316.00	\$ 7,047,000	
	+ 2022					ton	\$	\$	
 <b>Lemons</b>	Fresh	2023	5,990	14.56	87,200	ton	\$ 688.00	\$ 59,994,000	
		2022	5,340	14.85	79,300	ton	\$ 529.00	\$ 41,950,000	
 <b>Oranges</b>	NAVEL <sup>a</sup>	2023	25,300	14.38					
		2022	24,500	12.93					
	Fresh	2023				322,000	ton	\$ 529.00	\$ 170,338,000
		2022				284,000	ton	\$ 604.00	\$ 171,536,000
	Processed	2023				41,600	ton	\$ 54.00	\$ 2,246,000
		2022				32,500	ton	\$ 112.00	\$ 3,640,000
	VALENCIA <sup>a</sup>	2023	2,160	9.52					
		2022	1,820	5.88					
	Fresh	2023				36,900	ton	\$ 523.00	\$ 19,299,000
		2022				14,200	ton	\$ 732.00	\$ 10,394,000
Processed	2023				3,760	ton	\$ 54.00	\$ 203,000	
	2022				6,920	ton	\$ 49.00	\$ 339,000	
<b>ORANGE TOTAL</b>	<b>2023</b>	<b>27,460</b>						<b>\$ 192,086,000</b>	
	2022	26,320						\$ 185,909,000	
 <b>Mandarin/Tangerine</b> <sup>a</sup>	2023	25,710	9.33	240,000	ton	\$ 738.00	\$ 177,120,000		
	2022	24,400	9.39	229,000	ton	\$1,051.00	\$ 240,679,000		
 <b>Tangelo</b>	Fresh	2023	850	13.41	11,400	ton	\$ 654.00	\$ 7,456,000	
	+ 2022					ton	\$	\$	
 <b>Citrus, Other</b> <sup>b</sup>	Fresh	2023	600	12.68	7,610	ton	\$ 946.00	\$ 7,199,000	
		2022	2,042	14.69	30,000	ton	\$ 585.00	\$ 17,550,000	
	<b>CITRUS TOTAL</b>	<b>2023</b>	<b>61,550</b>						<b>\$ 450,902,000</b>
	2022	58,102						\$ 486,088,000	

# 2023 CROP HIGHLIGHTS

## Fruit and Nut Crops



CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		VALUE			
			PER ACRE	TOTAL	PER UNIT	PER UNIT	TOTAL	
<b>Grapes</b>								
	<b>Raisin Varieties</b> <sup>a</sup>	2023	74,243	9.55				
		2022	82,622	10.60				
	<b>Crushed</b>	2023			35,200	ton	\$ 290.00	\$ 10,208,000
		2022			76,575	ton	\$ 310.00	\$ 23,738,000
	<b>Dried</b>	2023			134,000 <sup>c</sup>	ton	\$2,236.00	\$ 299,624,000
		2022			169,000 <sup>c</sup>	ton	\$1,736.00	\$ 293,384,000
	<b>Fresh</b>	2023			15,100	ton	\$1,185.00	\$ 17,894,000
		2022			4,680	ton	\$1,620.00	\$ 7,582,000
		<b>Table Varieties</b> <sup>a</sup>	2023	29,930	10.07			
			2022	31,840	10.46			
<b>Crushed</b>		2023			17,500	ton	\$ 300.00	\$ 5,250,000
		2022			19,100	ton	\$ 273.00	\$ 5,214,000
<b>Fresh</b>		2023			284,000	ton	\$2,619.00	\$ 743,796,000
		2022			314,000	ton	\$2,074.00	\$ 651,236,000
	<b>Wine Varieties</b> <sup>a</sup>	2023	50,760	13.65				
		2022	54,700	12.86				
	<b>Crushed</b>	2023			690,000	ton	\$ 343.00	\$ 236,670,000
		2022			701,000	ton	\$ 356.00	\$ 249,556,000
	<b>Juice</b>	2023			2,580	ton	\$ 1,343.00	\$ 3,465,000
		2022			2,570	ton	\$ 1,414.00	\$ 3,634,000
<b>GRAPE TOTAL</b>	<b>2023</b>	<b>154,933</b>					<b>\$ 1,316,907,000</b>	
	2022	169,162					\$ 1,234,640,000	



# 2023 CROP HIGHLIGHTS

## Fruit and Nut Crops






CROP	YEAR	PRODUCTION				VALUE		
		HARVESTED ACREAGE	PER ACRE	TOTAL	PER UNIT	PER UNIT	TOTAL	
 <b>Nectarines</b> <sup>a</sup>	2023	10,730	9.19	98,600	ton	\$2,459.00	\$ 242,457,000	
	2022	11,018	9.26	102,000	ton	\$2,106.00	\$ 214,812,000	
 <b>Peaches</b> <sup>a</sup>	Cling (processed)	2023	1,700	15.65	26,600	ton	\$ 693.00	\$ 18,434,000
		2022	1,720	12.91	22,200	ton	\$ 603.00	\$ 13,387,000
	Freestone (fresh)	2023	15,050	9.57	144,000	ton	\$2,323.00	\$ 334,512,000
		2022	15,600	11.20	175,000	ton	\$1,915.00	\$ 335,125,000
<b>PEACHES TOTAL</b>	<b>2023</b>	<b>16,750</b>					<b>\$ 352,946,000</b>	
	2022	17,320					\$ 348,512,000	
 <b>Pears, All</b> Asian & European <sup>d</sup>	2023	460	8.94	4,110	ton	\$3,278.00	\$ 13,473,000	
	2022	450	16.13	7,260	ton	\$2,450.00	\$ 17,787,000	
 <b>Persimmons</b>	2023	1,090	10.00	10,900	ton	\$1,609.00	\$ 17,538,000	
	2022	1,050	7.14	7,450	ton	\$2,551.00	\$ 19,005,000	
 <b>Pistachios</b> <sup>a</sup>	2023	155,600	1.77	275,000	ton	\$3,133.00	\$ 861,575,000	
	2022	144,980	1.28	186,000	ton	\$3,705.00	\$ 689,130,000	
 <b>Plums</b> <sup>a</sup>	2023	10,050	7.69	77,300	ton	\$ 2,115.00	\$ 163,490,000	
	2022	10,130	7.01	71,000	ton	\$ 2,064.00	\$ 146,544,000	
 <b>Plums, Dried</b>	2023	1,230	2.56	3,150	ton	\$ 2,323.00	\$ 7,317,000	
	2022	1,320	1.92	2,530	ton	\$ 2,409.00	\$ 6,095,000	



# 2023 CROP HIGHLIGHTS

## Fruit and Nut Crops






CROP	YEAR	HARVESTED ACREAGE	PRODUCTION			VALUE	
			PER ACRE	TOTAL	PER UNIT	PER UNIT	TOTAL
 <b>Pomegranates</b> <sup>a</sup>	2023	4,650	6.84	31,800	ton	\$1,035.00	\$ 32,913,000
	2022	4,600	2.41	11,100	ton	\$2,032.00	\$ 22,555,000
 <b>Walnuts</b> <sup>a</sup>	2023	10,430	2.05	21,400		\$ 837.00	\$ 17,912,000
	2022	10,860	1.75	19,000		\$ 968.00	\$ 18,392,000
 <b>Other</b> <sup>e</sup>	2023	11,860					\$ 97,010,000
	2022	15,600					\$ 120,868,000
<b>TOTAL</b>	<b>2023</b>	<b>773,780</b>					<b>\$ 4,756,015,000</b>
	2022	754,410					\$ 4,522,032,000

- a Additional acreage that is included in other fruit and nut crops: 162 acres apricot (dried), 76 acres cherry (processed), 2,020 acres grape raisin variety (juice), 10 acres grape table variety (dried), 940 acres grapefruit (processed), 181 acres peaches freestone (processed), 193 acres peaches cling (fresh); **ORGANIC**: 1,248 acres almonds, 1 acre apricots, 1,004 acres raisin grapes (dried), 10 acres table grapes (dried), 70 acres lemons, 142 acres mandarins, 274 acres nectarines, 76 acres navel oranges, 8 acres valencia oranges, 358 acres peaches freestone (fresh & processed), 336 acres pistachios, 86 acres plums (fresh), 465 acres walnuts
- b Includes citron, lime, and pomelo
- c Tonage is reported as dried tons
- d Includes both conventional & organic.
- e Includes almonds (shells, inedibles), apples (fresh & culls), apricots (dried), avocado, blackberries, cherries (processed), grape raisin variety (juice), grape table variety (dried), grape (by-products), grapefruit (processed), guava, jujubes, kiwifruit, kumquat, lemons (processed), mulberry, olives, peaches (freestone-processed & culls), peach cling (fresh), pecans, pluots, quince, raspberries and strawberries; **ORGANIC**: almonds, apricots, raisin grapes (dried), table grapes (dried), lemon, mandarins, nectarines, navel oranges, valencia oranges, olives, peaches freestone (fresh, processed), pistachios, plums (fresh), walnuts.
- + Not previously reported in this format

# 2023 CROP HIGHLIGHTS

## Nursery Crops



CROP	YEAR	PER ACRE	QUANTITY	UNIT	VALUE
 <b>Herbaceous Ornamentals</b> <sup>a</sup>	2023		1,025,000	b	\$ 5,719,000
	2022		958,000	b	\$ 4,397,000
 <b>Ornamental Trees and Shrubs</b>	2023		677,000	plants	\$ 7,963,000
	2022		1,455,000	plants	\$ 14,926,000
 <b>Other</b> <sup>c</sup>	2023		449,239,000	units	\$ 44,385,000
	2022		378,922,000	units	\$ 30,890,000
<b>TOTAL</b>	<b>2023</b>				<b>\$ 58,067,000</b>
	2022				\$ 50,213,000

- a Includes potted plants, bedding plants, decorative plants, flats, annuals, succulents, perennials and grasses
- b Includes flats, dozens, containers, seedlings and single plants and trees
- c Includes bareroot fruit trees, citrus (budwood and trees), grape (rootings and cuttings), trees-restoration stock (seedlings), turf (in square feet), and vegetable transplants

# 2023 CROP HIGHLIGHTS

## Livestock and Poultry



ITEM	YEAR	PRODUCTION			VALUE	
		NO. OF HEAD	TOTAL LIVELINEWEIGHT	UNIT	PER UNIT	TOTAL
<b>Cattle and Calves</b>						
<b>Beef</b>						
<b>Breeding Stock</b>						
COMMON	2023	1,380		head	\$ 2,204.00	\$ 3,042,000
	2022	1,340		head	\$ 1,300.00	\$ 1,742,000
REGISTERED	2023	340		head	\$ 4,960.00	\$ 1,686,000
	2022	340		head	\$ 6,020.00	\$ 2,047,000
Feeders	2023	30,500	172,000	cwt	\$ 274.00	\$ 47,128,000
	2022	28,900	171,000	cwt	\$ 138.00	\$ 23,598,000
Calves	2023	30,500	91,500	cwt	\$ 273.74	\$ 25,047,000
	2022	29,800	89,300	cwt	\$ 173.52	\$ 15,495,000
<b>Slaughter Stock</b>						
	2023	318,000	1,777,000 <sup>a</sup>	cwt	\$ 116.11	\$ 206,327,000
	2022	310,000	1,636,000 <sup>a</sup>	cwt	\$ 126.12	\$ 206,332,000



## Dairy

### Breeding Stock

	2023	116,300		head	\$ 1,609.00	\$ 187,127,000
	2022	99,100		head	\$ 1,588.00	\$ 157,371,000
Feeders	2023	50,900	330,000	cwt	\$ 70.43	\$ 23,242,000
	2022	50,800	301,000	cwt	\$ 70.43	\$ 21,199,000
Calves	2023	55,100	165,000	cwt	\$ 301.00	\$ 49,665,000
	2022	55,400	166,000	cwt	\$ 170.00	\$ 28,220,000
Cull Stock	2023	29,400	382,000	cwt	\$ 76.32	\$ 29,154,000
	2022	29,400	382,000	cwt	\$ 85.50	\$ 32,661,000



### CATTLE AND CALVES

#### TOTAL

2023	\$ 572,418,000
2022	\$ 488,655,000



# 2023 CROP HIGHLIGHTS

## Livestock and Poultry



ITEM	YEAR	PRODUCTION			VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT	UNIT	PER UNIT	TOTAL
<b>Hogs and Pigs</b>						
<b>Market Pigs &amp; Slaughter Stock</b>	2023	35,400	88,100	cwt	\$ 111.00	\$ 9,779,000
	2022	33,800	83,700	cwt	\$ 101.00	\$ 8,454,000



<b>Sheep and Lambs</b>						
<b>Slaughter Stock</b>						
<b>Lambs</b>	2023	68,500	63,000	cwt	\$ 211.00	\$ 13,293,000
	2022	71,700	66,000	cwt	\$ 306.00	\$ 20,196,000
<b>Sheep</b>	2023	8,030	12,500	cwt	\$ 106.00	\$ 1,325,000
	2022	8,400	13,000	cwt	\$ 103.54	\$ 1,346,000



<b>Poultry and Misc. Other<sup>b</sup></b>	2023					\$ 547,566,000
	2022					\$ 539,595,000
<b>TOTAL</b>	<b>2023</b>					<b>\$1,144,381,000</b>
	2022					\$1,058,256,000

a Net gain

b Includes chickens, ducks, fish, gamebirds (pheasant, pigeon and quail); geese, goats, insects (beneficial); and turkeys

# 2023 CROP HIGHLIGHTS

## Livestock and Poultry Products



CROP	YEAR	PRODUCTION	UNIT	VALUE	
				PER UNIT	TOTAL
<b>Manure<sup>a</sup></b>	2023	1,740,000	ton	4.66	\$ 8,108,000
	2022	1,733,000	ton	7.84	\$ 13,587,000



<b>Milk<sup>b</sup></b>	2023	26,904,000	cwt	20.01	\$ 538,349,000
	2022	24,977,000	cwt	26.63	\$ 655,138,000



<b>Wool</b>	2023				\$ 672,000
	2022				\$ 724,000

<b>TOTAL</b>	<b>2023</b>				<b>\$ 547,129,000</b>
	2022				\$ 669,449,000

a Includes cow, chicken, turkey and duck manure

b Includes cow milk (conventional and organic) and goat milk



# 2023 CROP HIGHLIGHTS

## Apiary Products and Pollination Services



ITEM	YEAR	PRODUCTION TOTAL	UNIT	VALUE	
				PER UNIT	TOTAL
<b>Apiary Products</b>					
<b>Honey</b>	2023	7,360,000	lb	\$ 3.58	\$ 26,349,000
	2022	8,859,000	lb	\$ 2.92	\$ 25,868,000
<b>Beeswax</b>	2023	1,051,000	lb	\$ 4.72	\$ 4,961,000
	2022	491,000	lb	\$ 5.28	\$ 2,592,000
<b>Pollination <sup>a</sup></b>					
<b>Seed <sup>b</sup></b>	2023				\$ 687,000
	2022				\$ 315,000
<b>Trees, Fruit and Nut <sup>c</sup></b>	2023				\$ 117,766,000
	2022				\$ 120,785,000
<b>Melon <sup>d</sup></b>	2023				\$ 1,007,000
	2022				\$ 1,278,000
<b>Vegetable <sup>e</sup></b>	2023				\$ 165,000
	2022				\$ 155,000
<b>TOTAL</b>	<b>2023</b>				<b>\$ 150,935,000</b>
	2022				\$ 150,993,000

- a Reflects value of pollination by all bee colonies located in Fresno County for pollination services during 2023
- b Alfalfa, apsaragus, broccoli, onion, head lettuce, leaf lettuce, miscellaneous vegetable seeds
- c Almond, apple, blackberry, blueberry, cherry, kiwifruit, pear, plum, pluot, pomegranate and prune
- d Cantaloupe, honeydew, watermelons and mixed melons
- e Bell pepper, corriander (cilantro), cucumber, chili pepper, pumpkin, and squash

# 2023 CROP HIGHLIGHTS

## Industrial Crops



CROP	YEAR	PRODUCTION	UNIT	VALUE
<b>Timber <sup>a</sup></b>	2023	10,668,000	board feet	\$ 447,000
	2022	13,870,000	board feet	\$ 575,000
<b>Other <sup>b</sup></b>	2023			\$ 1,292,000
	2022			\$ 1,365,000
<b>TOTAL</b>	<b>2023</b>			<b>\$ 1,739,000</b>
	2022			\$ 1,940,000

- a Includes government and non-government properties
- b Includes compost, ground cover, mulch, pomace, sod, soil, wood fines and Christmas trees



# 2023 CROP HIGHLIGHTS

## Sustainable Agriculture



PEST	2023 BIOLOGICAL CONTROL ACTIVITIES B.C. AGENT/MECHANISM	ACTIVITY
Glassy-winged sharpshooter, <i>Homalodisca vitripennis</i>	- <i>Cosmocomoidea ashmeadi</i> - <i>Cosmocomoidea morgani</i> - <i>Cosmocomoidea morilli</i> - <i>Ufens spp.</i>	CDFA released parasitoids species and monitored for evidence of GWSS egg parasitism



INSECT	2023 DETECTION ACTIVITIES TRAPS DEPLOYED	RESULTS
European Grapevine Moth, <i>Lobesia botrana</i>	2,352	None captured
Glassy-winged sharpshooter, <i>Homalodisca vitripennis</i>	2,977	Multiple residential/commercial captures (properties treated)
Asian citrus psyllid, <i>Diaphorina citri</i>	2,777	2 detections
Mediterranean fruit fly, <i>Ceratitis capitata</i>	704	None captured
Spongy moth <i>Lymantria dispar</i>	429	None captured
Oriental fruit fly, <i>Bactrocera dorsalis</i>	675	1 detection
Melon fruit fly, <i>Bactrocera cucurbitae</i>	363	None captured
Japanese beetle, <i>Popillia japonica</i>	379	None captured
Apple maggot, <i>Rhagoletis pomonella</i>	16	None captured
Western cherry fruit fly, <i>Rhagoletis indifferens</i>	39	None captured
Red Imported fire ant <i>Solenopsis invicta</i>	2,221 bait stations	None captured
Mexican fruit fly <i>Anastrepha ludens</i>	327	None captured



PEST	2023 BIOLOGICAL CONTROL ACTIVITIES ACTIVITY	RESULTS
Glassy-winged sharpshooter	4,016 - Bulk Citrus Inspections	20 - Finds in bulk citrus



2023 PEST ERADICATION / MANAGEMENT ACTIVITIES	
<b>Eradiation</b> Pink Bollworm	28,039 cotton acres 0 Plowdown non-compliance
<b>Management</b> Glassy-winged sharpshooter	1,736 properties treated



# TOOLS OF THE TRADE

*How do we measure?*



**Weighing devices have accuracy classes, often referred to simply as “classes”.**

## WHAT DO THESE CLASSES MEAN?

It depends on the weighing capacity, readability, and resulting number of scale divisions.

### Capacity:

The maximum weight a weighing device can accurately weigh.

### Readability:

The smallest unit or increment a weighing device can accurately display.

### Scale Division:

Capacity ÷ Readability

### CLASS I

**Uses:**  
Precision lab work

**Divisions:**  
50,000+ (≥ 1mg)

### CLASS II

**Uses:**  
Laboratory weighing, weighing precious gems & metals, cannabis dispensaries, grain test scales

**Divisions:**  
≤100,000 (1-50 mg; ≥ 100mg)

### CLASS III

**Uses:** Industrial & commercial use (food, postal, laundry, animals, etc.) ≤30,000 lbs

**Divisions:**  
≤10,000 (.1-2g; ≥ 5g)

### CLASS III L

**Uses:**  
Commercial use (vehicles, axle loads, livestock, railway tracks, etc.) ≥30,000 lbs.

**Divisions:**  
≤10,000 (.1-2g; ≥ 5g)

### CLASS IIIH

**Uses:**  
Wheel-load weighers, portable axle-load weighers used for highway enforcement

**Divisions:**  
≤1,200 (≥ 5g)



**Capacity:** 40 lbs.  
**Readability:** .01 lbs.  
**Scale Divisions:** 4000  
**= Class III Scale**

#### PHOTO CREDIT FOR SCALE:

[https://www.webrestaurantstore.com/tor-rey-l-pc-40l-40-lb-digital-price-computing-scale-legal-for-trade/166LPC40L.html?utm\\_source=google&utm\\_medium=cpc&gclid=CjwKCAjw2dG1BhB4EiwA998cQGSuHE5e34cP75skrwnhmtzx-QY2UsV0k8rzJ\\_Jl9zJq9sWcVqnf5xoCB9lQAvD\\_BwE](https://www.webrestaurantstore.com/tor-rey-l-pc-40l-40-lb-digital-price-computing-scale-legal-for-trade/166LPC40L.html?utm_source=google&utm_medium=cpc&gclid=CjwKCAjw2dG1BhB4EiwA998cQGSuHE5e34cP75skrwnhmtzx-QY2UsV0k8rzJ_Jl9zJq9sWcVqnf5xoCB9lQAvD_BwE)



**1000 lb. weight**  
Used for testing dormant and livestock scales.

In Fresno County, these dormant and livestock scales range in capacity from 10,000-pounds to 40,000 pounds and fall into scale classification III and III L.



**20,000 lb. weight truck**  
Used as a “rolling standard” for testing vehicle scales and carries the “Weight Mover” cart for testing livestock scales as shown here.

Fresno County’s weight truck can carry up to 20,000 pounds worth of weights for a total certified weight of 45,300-pounds

Includes the vehicle body, standard weights, crane, fuel, and various accessories. The “Weight Mover” weight is not included in the certified weight of the vehicle is not on board when testing vehicle scales.



**Electric Vehicle Fueling Systems (EVFS) or Electric Vehicle Servicing Equipment (EVSE) Using alternating current (AC) types and direct current (DC) “fast charging” types.**

These devices are metering devices and when in commercial operation (dispense a metered charge for a fee) fall under the jurisdiction of Weights and Measures officials.

## We also measure water and CRV items!

Retail water meters are inspected annually to ensure the correct volume of water is being dispensed. Plus, California Weighing and Measuring officials also do undercover transactions at CRV recyclers to verify that these companies are following accurate weighing procedures and paying out correct CRV reimbursements to customers.





DEPARTMENT OF AGRICULTURE  
*and*  
WEIGHTS AND MEASURES



## WE THANK YOU!

FROM THE COUNTY OF  
FRESNO DEPARTMENT  
OF AGRICULTURE

*We extend our most  
heartfelt thanks  
TO YOU AND ALL  
OUR GROWERS,  
ASSOCIATED  
INDUSTRIES,  
and especially  
to those that  
responded to our*

**2023**  
CROP REPORT SURVEY

*This report would  
not be possible  
without your hard work  
and the data  
you kindly share.*



*Oh!*  
THE  
**Weight**  
OF IT ALL!

IS SURELY WORTH  
THE GREAT EFFORT  
OUR FARMERS AND  
GROWERS DO EACH YEAR!

*Thank You!*