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# California Citrus Processing

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California Citrus Processing

September 19-22, 2023

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### **Topics**

- Economic impact of agriculture and citrus in California
- The region diverse citrus acreage
- Economic impact and challenges of the citrus industry
- Citrus production for the processing side
- Processing Capabilities

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## California Citrus Processing

### **Economic Impact of California's Agriculture**

- Agriculture is part of a diverse economic activities in California, from farm to table, to manufacturing, health care, information and space technology, among many.
- California state *GDP* <sup>(1)</sup> is estimated at \$3.7 trillion in 2023 followed by Texas at \$2.4 trillion, New York at \$2.1 trillion and Florida at \$1.5 trillion.
- California *farmers* produced about \$51.1 billion worth of *agricultural commodities* in 2021 <sup>(2)</sup> representing 12 % of the total US farm sector cash receipt, Texas farmers around 6% at \$24.9 billion and Florida farmers accounting for 1.7 % at \$7.5 billion.
- These commodities in turn are the reason why California has a such a large food and beverage processing industry.
- Agriculture and closely-related industries account for about half million jobs which represents over 2% of total *employment*. (3)
- *California Citrus* is a major contributor to the economic value of the agricultural sector and accounts for \$2.5 billion or 5 % of the state agricultural value. (4)

Top 5 Agricultural States in Cash Receipts, 2021					
Rank	State	Crop Cash Receipts 1			
Nalik	State	\$1,000			
	United States	433,569,038			
1	California	51,109,546			
2	lowa	34,626,720			
3	Nebraska	26,345,219			
4	Texas	24,898,569			
5	Illinois	21,720,187			

Based on USDA Economic Research Service cash receipts, September 2022 release.

Top 20 Commodities in California, 2019-2021						
	Value and Ranks <sup>1</sup>					
Commodity	2019		2020	)	2021	
	\$1,000	Rank	\$1,000	Rank	\$1,000	Rank
Dairy products, Milk	7,382,830	1	7,265,456	1	7,571,954	1
Grapes	5,398,164	3	4,488,553	4	5,229,902	2
Almonds (shelled)	6,169,100	2	5,251,410	2	5,028,320	3
Miscellaneous crops 2	5,054,471	4	4,875,731	3	4,955,667	4
Cattle and calves	3,064,300	5	2,736,559	6	3,114,550	5
Berries, All Strawberries	2,286,330	6	2,211,430	8	3,023,230	6
Pistachios	2,082,210	7	2,622,950	7	2,910,600	7
Lettuce, All	1,841,423	8	3,067,771	5	2,029,089	8
Tomatoes, All	1,174,395	10	1,117,840	9	1,181,966	9
Walnuts	1,237,950	9	948,000	11	1,022,250	10
Rice	913,602	12	946,293	12	1,003,864	11
Broilers	843,036	13	690,034	17	996,023	12
Floriculture	1,015,012	11	967,206	10	962,498	13
Oranges, All	699,458	17	858,093	13	901,281	14
Hay, All	786,891	14	678,561	18	839,453	15
Tangerines	679,638	19	795,034	14	815,089	16
Carrots, All	708,872	16	772,549	16	776,367	17
Lemons	688,163	18	614,933	19	638,250	18
Broccoli	746,918	15	782,122	15	631,455	19
Other animals/products	578,569	20	550,316	20	550,316	20

<sup>(1)</sup> U.S. Bureau of Economic Analysis (BEA). Bureau of Economic Analysis. Retrieved 10 April 2022

<sup>(2)</sup> USDA Economic Research Service cash receipts, September 20220

<sup>(3)</sup> CA Agricultural Employment Published Annual Averages Current Economic Statistics Benchmark 2021

<sup>(4) 2020-21</sup> are from the Citrus Fruits Summary released in September 2021.

Total value is based on USDA Economic Research Service cash receipts, September 2022 release.

Includes nursery/greenhouse crops (excluding Floriculture), Christmas trees, seed crops, and miscellaneous field, vegetable, berry, tree fruit, and nut crops Beainning in 2021, industrial hema is included.



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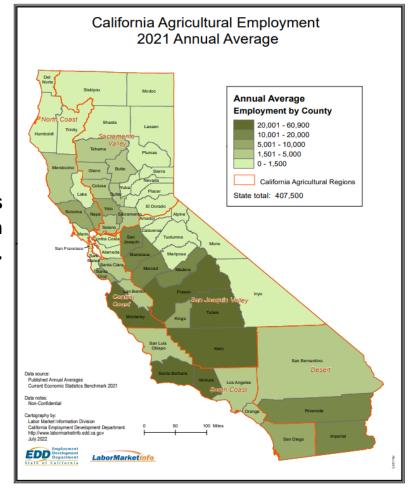
# California Citrus Processing

### **California Citrus Acreage**

Bearing Acreage by Commodity	California	Arizona	Total
Orange	136,038		136,038
Mandarin	63,282		63,282
Lemon	47,207	6,500	53,807
Grapefruit	9,002		9,002
Total	255,529	6,500	262,129

- Oranges, mandarins, lemons, and grapefruit, accounted for 2.3% of total crop acres in the state with a total citrus acreage of 276 thousand acres
  - Estimated full time equivalent jobs in the California Citrus industry in 20/21 totaled 24,247 jobs.

Total Acreage by Region	Oranges	Mandarines	Lemons	Grapefruit	<b>Grand Total</b>
Central Valley	128,098	62,124	16,537	3,751	210,510
Coastal Region	7,298	1,872	25,329	1,111	35,610
Desert	3,830	2,519	10,365	4,858	21,572
Arizona			6,900		6,900
North	361	346			707
All Other Counties	228	290		107	625
Grand Total	139,815	67,151	59,131	9,827	275,924





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## California Citrus Processing

Sum of Total Acreage	Columr					
Acreage by main variety	D1	D2	D3	D4	D5 All Oth	
, , ,					Counti	
□ Oranges	128,098	7,298	3,830	361		28 139,815
■ Navel	109,794	940	2,318	361		76 113,589
Seedless Winter Orange	80,170	940	2,318	361	1	76 83,965
Cara Cara	9,482					9,482
Blood	991					991
Lates as Autumn Gold, Chislett, Lanes, Powells among other v			4 -40			19,151
■ Valencia	18,304	6,358	1,512			26,226
Seeded Summer Orange	18,304	6,358	1,512			52 26,226
■ Mandarines	62,124	1,872	2,519	346		67,151
■ Mandarin & Mandarin Hybrids	62,124	1,872	2,519	346	2	67,151
Minneola & Tangelos	5,275	254				5,275
Pixie	4 0 4 0	264				264
Gold Nugget	1,249	624				1,873
Fairchild	412					412
Satsuma	2,115					2,115
Shasta Gold	111					111
Murcott	9,668					9,668
Clementines as Algerian, Caffin, Clemenules, others	10,376					10,376
Tangos Tangerine	19,671				_	19,671
All Other Varieties Tangors, Temple, Giuletta, Royal, others	13,247	984	2,519	346		90 17,386
■ Lemons	16,537	25,329	10,365		6,900	59,131
□ Lemon	16,443	25,082	10,145		6,900	58,570
Eureka & Lisbon	16,443	25,082	10,145		6,900	58,570
□Lime	94	247	220			561
Mexican Lime	94	247	220			561
□ Grapefruit	3,751	1,111	4,858		1	07 9,827
□ Grapefruit	2,699	1,111	4,786			8,596
Rio Red	-	310	935			1,245
Ruby		801				801
Ruby Red			1,222			1,222
Star Ruby	2,668		238			2,906
All Other Varieties	31		2,391			2,422
□ Pummelos & Hybrids	1,052	-	72			07 1,231
Melogold, Oro Blanco, Chandler, others	1,052	-	72			07 1,231
Grand Total	210,510	35,610	21,572	707	6,900 6	25 275,924
9/26/2023						



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### California Citrus Processing

### **California Citrus Economic Impact** (1)

- The value of the state citrus production 20/21 marketing year was \$3.63 billion.
- Total economic impact of the citrus industry in California's economy was \$7.6 billion
- The California citrus industry value-added \$1.9 billion to California's state GDP in 2020
- Estimated wages paid by the California citrus industry income in 20/21 totaled \$759 million.
- A 20% reduction on citrus acreage would cause a loss of 8,213 jobs, \$214 million in employee income, and reduce state GDP by \$569 million.

**HLB Citrus Quarantines** 



Asian Citrus Psyllid (ACP)

IPM Control



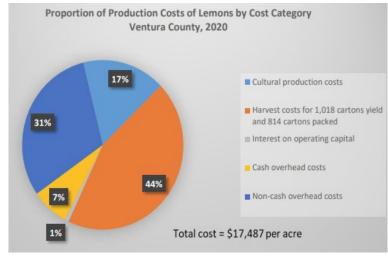
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## California Citrus Processing

### California Citrus Challenges

- Increasing costs more than doubled the production cost per acre in the last 10 years in part due new regulations in labor, food safety, water management, and acerbated now by the current economic environment.
- Fertilizers, fuel, agrochemicals, water, labor, equipment, packing, packaging, shipping, transportation, being the main drivers on the cost to grow and process citrus.
- Managing On / Off bearing seasons, threats on HLB / ACP Control front now that HLB disease is increasing in Mexico.
- Weather events as drought, freeze, flood, La Nina, El Nino are always present.
- Despite these challenges, the industry is optimistic for this past season and the one ahead.







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## California Citrus Processing

#### USDA Estimates of Production in US TONS terms by State 22/23 season

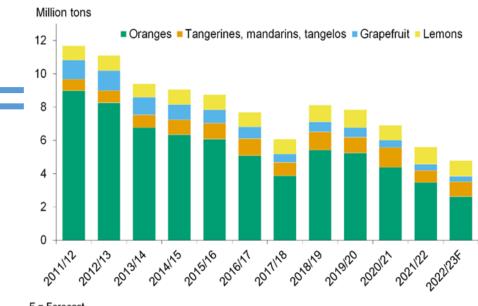
TONS			
Commodity	California	Arizona	<b>Grand Total</b>
Orange	1,760,000		1,760,000
Mandarin	880,000		880,000
Lemon	800,000	56,000	856,000
Grapefruit	168,000		168,000
Grand Total	3 608 000	56 000	3 664 000

Florida	Texas	<b>Grand Total</b>
713,250	48,025	761,275
22,800		22,800
-	-	-
76,925	89,200	166,125
812,975	137,225	950,200





#### Total U.S. citrus production is forecast to be 13 percent below last year's levels



Source: USDA, Economic Research Service based on data from the USDA, National Agricultural Statistics Service, *Crop Production*, March 2023 issue, and *Citrus Fruit Summary*, various issues.

#### US Citrus down overall -15% from previous season

- Orange -25%
- Grapefruit -12%
- Lemons -9%
  - Mandarin +23%



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### California Citrus Processing

- Florida down -60%
- California Citrus production <u>overall</u> up 5% mostly due to a rainy season with over 90 million 90# Boxes equivalent produced.



- The proportion of citrus that is packed for fresh market in California is on average:
  - 80% of Oranges,
  - 75% of Grapefruit,
  - 74% of Lemons,
  - 71% of Mandarins
- This differentiates
   California at different
   levels from Florida, Texas,
   Brazil, Mexico, Argentina
   and other countries
   where over 70-85% of
   their production goes to
   processing not fresh.

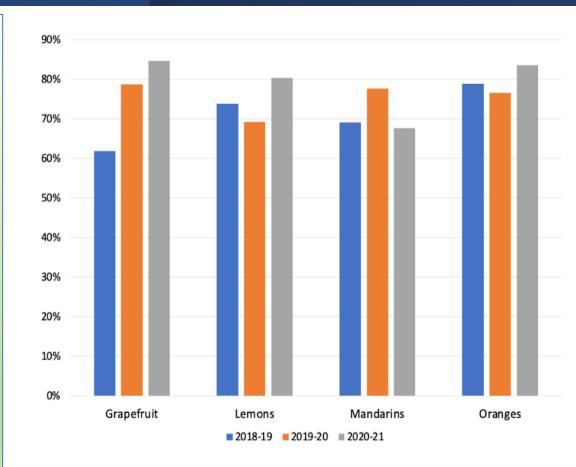


Figure 1. Proportion of California Citrus Packed for Fresh Market

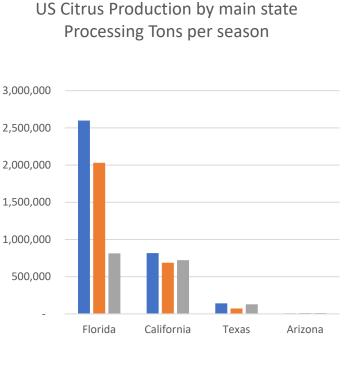
Source: Citrus Fruits 2021 Summary. USDA-NASS. ISSN: 1948-9048, September 2021.



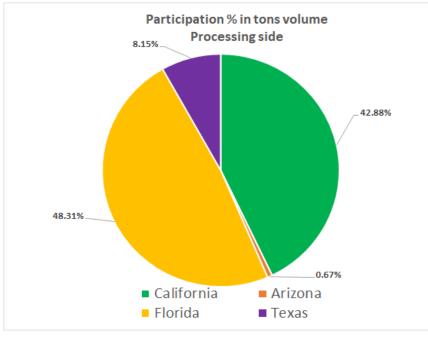
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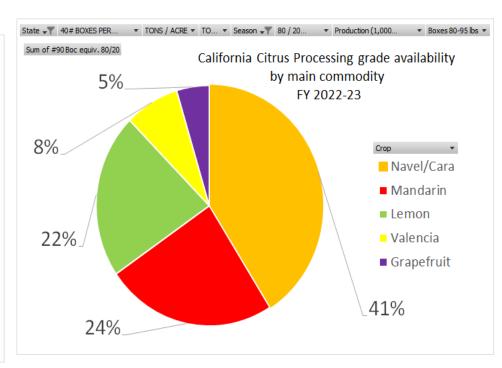
## California Citrus Processing

### California Citrus **Processing utilization** between 17 to 20 million 90# Boxes equivalent



■ FY 2020-21 ■ FY 2021-22 ■ FY 2022-23





- USDA frozen concentrate price, not less than 62.5° Brix has increased over 100% since Sep'21
- Cost of Navel oranges for processing in California has increased over 160% same period, Mandarins even more.



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# California Citrus Processing

Sustainability programs water & waste management

**Grower Packer Shipper Cost of doing business** 

Grower return per bin





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• Storage, shipping and logistics capabilities



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