

NASDA Survey Training

2022-2023 Citrus Surveys
(CITRUS PROD)



United States Department of Agriculture
National Agricultural Statistics Service

NOD-Training Group
Sept 2022



General Survey Information

- Project Code: **133-Citrus Fruit Survey**
- Conducted Oct, Jan, April, and July for the 2022-2023 growing season
- Questionnaires: (AZ, CA, TX only)
 - Mail out 7-10 days before the 1st of each survey month
 - Web reporting option available
- Releases:
 - Crop Production: around the 11th or 12th of Oct, Jan, April, and July at 12:00 P.M. (Eastern)
 - Citrus Fruits: September
 - Is the season summary with acreage, production, and price data

Survey Information

- Looking for 2022 – 2023 season *expected* production of Lemons, Oranges, and Grapefruit
 - Depending on state
- We're not asking about end use
 - Just expected production...regardless of if the fruit will be used for fresh market, processing, etc
- Like with most fruits and vegetables:
 - A wide variety of units may be reported
 - Sometimes with varying weights
 - Questionnaire is set up to handle whatever is reported

Orange Info

California Acres & Yield

| State, type, and season | Bearing acreage | Yield per acre |
|----------------------------|--------------------|----------------------|
| | (acres) | (boxes) |
| California | | |
| Navel and miscellaneous | | |
| 2018-2019 | 118,000 | 356 |
| 2019-2020 | 117,000 | 370 |
| 2020-2021 | 116,000 | 350 |
| Valencia | | |
| 2018-2019 | 29,000 | 352 |
| 2019-2020 | 28,000 | 385 |
| 2020-2021 | 26,000 | 365 |
| All | | |
| 2018-2019 | 147,000 | 355 |
| 2019-2020 | 145,000 | 373 |
| 2020-2021 | 142,000 | 353 |

Texas Acres & Yield

| State, type, and season | Bearing acreage | Yield per acre |
|----------------------------|--------------------|----------------------|
| | (acres) | (boxes) |
| Texas | | |
| Early and midseason | | |
| 2018-2019 | 6,300 | 351 |
| 2019-2020 | 6,000 | 192 |
| 2020-2021 | 6,000 | 167 |
| Valencia | | |
| 2018-2019 | 2,200 | 132 |
| 2019-2020 | 1,800 | 106 |
| 2020-2021 | 1,800 | 28 |
| All | | |
| 2018-2019 | 8,500 | 294 |
| 2019-2020 | 7,800 | 172 |
| 2020-2021 | 7,800 | 135 |

Lemon & Grapefruit Info

| Crop, State, and season | Bearing acreage | Yield per acre |
|----------------------------|--------------------|----------------------|
| | (acres) | (boxes) |
| Lemons | | |
| Arizona | | |
| 2018-2019 | 7,300 | 185 |
| 2019-2020 | 7,300 | 247 |
| 2020-2021 | 7,300 | 110 |
| California | | |
| 2018-2019 | 49,000 | 484 |
| 2019-2020 | 50,000 | 506 |
| 2020-2021 | 50,000 | 426 |
| United States | | |
| 2018-2019 | 56,300 | 445 |
| 2019-2020 | 57,300 | 473 |
| 2020-2021 | 57,300 | 386 |

| State, type, and season | Bearing acreage | Yield per acre |
|--------------------------------|--------------------|----------------------|
| | (acres) | (boxes) |
| Grapefruit | | |
| California ² | | |
| 2018-2019 | 9,000 | 467 |
| 2019-2020 | 8,700 | 540 |
| 2020-2021 | 8,700 | 448 |
| Florida | | |
| White ³ | | |
| 2018-2019 | 4,300 | 179 |
| 2019-2020 | 3,700 | 214 |
| 2020-2021 ⁴ | (NA) | (NA) |
| Red | | |
| 2018-2019 | 20,400 | 183 |
| 2019-2020 | 18,000 | 226 |
| 2020-2021 ⁴ | (NA) | (NA) |
| All | | |
| 2018-2019 | 24,700 | 183 |
| 2019-2020 | 21,700 | 224 |
| 2020-2021 | 18,700 | 219 |

Tangerine & Mandarin Info

| Crop, State, and season | Bearing acreage | Yield per acre |
|----------------------------|--------------------|----------------------|
| | (acres) | (boxes) |
| California | | |
| 2018-2019 | 64,000 | 414 |
| 2019-2020 | 66,000 | 339 |
| 2020-2021 | 67,000 | 419 |
| Florida | | |
| 2018-2019 | 8,300 | 119 |
| 2019-2020 | 7,900 | 129 |
| 2020-2021 | 7,700 | 116 |
| United States | | |
| 2018-2019 | 72,300 | 380 |
| 2019-2020 | 73,900 | 317 |
| 2020-2021 | 74,700 | 388 |

Box Weights By Crop and State

Box Weights by Crop - States: 2018-2019, 2019-2020, and 2020-2021

| State | Crop year | | |
|----------------------------------------------|-----------|-----------|-----------|
| | 2018-2019 | 2019-2020 | 2020-2021 |
| | (pounds) | (pounds) | (pounds) |
| Oranges | | | |
| California | 80 | 80 | 80 |
| Florida | 90 | 90 | 90 |
| Texas | 85 | 85 | 85 |
| Grapefruit | | | |
| California ¹ | 80 | 80 | 80 |
| Florida | 85 | 85 | 85 |
| Texas | 80 | 80 | 80 |
| Lemons | | | |
| Arizona | 80 | 80 | 80 |
| California | 80 | 80 | 80 |
| Tangerines and mandarins ² | | | |
| California | 80 | 80 | 80 |
| Florida | 95 | 95 | 95 |

¹ Includes pummelos.

² Includes tangelos.

Arizona

- **Lemons:**
 - Will ask for total acres, bearing acres, and expected total production

- **Valencia Oranges, Navel and other Non-Valencia Oranges, Mandarins and Mandarin Hybrids, and Grapefruit and Pummelos:**
 - Will only ask for acres on this operation on 1st of month

Texas

- **Valencia Oranges, Navel and Other Non-Valencia Oranges, Grapefruit and Pummelos:**
 - Will ask for total acres, bearing acres, and expected total production
- **Mandarins and Mandarin Hybrids, and Lemons:**
 - Will only ask for acres on this operation on 1st of month

California

- **Valencia Oranges, Navel and other Non-Valencia Oranges, Mandarins and Mandarin Hybrids, Lemons, Grapefruit and Pummelos:**
 - Will ask for total acres, bearing acres, and expected total production for all five types of citrus crops

Extra Orange Information

- Navel Oranges:
 - Seedless, peel and segment easily, and are thought to be one of the world’s best tasting oranges
 - The “winter orange” – usually available December through May
- Valencia Oranges:
 - Thin skinned, has seeds, and are considered one of the best oranges for juicing
 - The “summer orange” – typically available March through September
- Mandarins:
 - “Mandarin Oranges” is a term that applies to an entire group of citrus fruits including such varieties as Clementine, Honey, Pixie, and tangerines in general. Smaller than Navel or Valencia Oranges. Have a thin, loose skin making them easy to peel.

Grapefruit and Pummelo Extra Information

- Grapefruit:
 - A relatively new citrus fruit. Is believed to be a hybrid between the pummelo and the orange.
 - The grapefruit's name alludes to clusters of the fruit on the tree, which often appear similar to grapes.
- Pummelo:
 - One of the four original citrus species from which the rest of cultivated citrus hybridized. Is the largest of the citrus family. Native to South and Southeast Asia.

Survey Questions

- Screening questions for:
 - Any acres in **2022 – 2023** of:
 - Oranges, Lemons, Mandarins, Mandarin hybrids, Grapefruit, or Pummelos?
 - Any [specific fruit] acres?
- **Total acres** of [specific fruit] on the 1st of each survey month
 - Of these, how many are **bearing age** this year
 - Even if no *production* this year (due to freeze, disease, etc), still record the *bearing age* acres
- Expected **total production** for 2022 – 2023 season
 - Quantity, unit, pounds per unit
- Same questions for all citrus crops

Out of Business/Screening

- Operation have any citrus **fruit** during the 2022 – 2023 season?
 - If “No”, Will this operation plant any citrus **fruit** acres in the future?
 - Yes/No/Don’t Know
 - All take you to the end of the survey
 - Leave good notes if the operation is completely out of business (no agricultural activity)
 - What happened? New operator? Any other info?

Things to remember

- Referring to 2022 - 2023 crop year expected production
- Watch the decimal points: acres, pounds per unit
- Remember, *bearing age*
 - Even in cases of limited or no production this year

**Four Original Citrus Species:
Pomelo, Citron, Mandarin, Papeda
All others are hybrids.**

Things to Watch Out For

- Current total and/or bearing acres differs from previous
- Bearing acres cannot be greater than total acres
- Low bearing to total acres ratio
 - We are asking about *bearing age*....and not what will actually bear a crop this year
 - This can cause some confusion if there is a late frost, disease/insect issues, etc. that impact production
- **Bearing acres reported but no production reported**
 - Can be possible: crop was lost to a late freeze, etc.
- Yield seems high or low

Conclusion

- Watch the decimal points:
 - Acres, pounds per unit
- Encounter anything odd or unexpected leave a note
- Practice on your iPad
- Contact your supervisor or RFO with any questions
- Have a Great Survey!

Fun Fact: A single citrus plant can have as many as 60,000 flowers, but only ONE PERCENT of those flowers will turn into fruit.