



United States Department of Agriculture  
National Agricultural Statistics Service



# 2025 California Walnut Objective Measurement Report

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## WALNUT PRODUCTION FORECAST UP

The 2025 California walnut production is forecast at 710,000 tons, up 18% from 2024's production of 603,000 tons. The forecast is based on 365,000 bearing acres, down 1% from 2024's estimated bearing acreage of 370,000.

The 2025 Walnut O.M. Survey utilized a total of 756 blocks with two sample trees per block. Survey data indicated an average nut set per tree of 972, up 28% from 2024's average of 761. Percent of sound kernels in-shell was 99.2% statewide. The average in-shell weight and dimensions for 2025 were: 21.3 grams, suture measurement was 32.3 millimeters, cross-width measurement was 33.5, and the average length was 38.1 millimeters.

Estimated nut sets, sizing measurements, average number of trees per acre, and estimated bearing acreage were used in the statistical models.

## SAMPLING PROCEDURES

Once a block is randomly selected and permission is granted by the operation for enumerators to enter the block, two trees are randomly selected. An accessible branch is chosen which is 5-15 percent of the total cross-sectional area of the primary limbs and reachable with a twelve-foot ladder.

Measurements are made on the trunk, each primary, and each split leading to and including the accessible branch. The sample tree and accessible branch are marked by a single tag, so that the same trees are sampled the following year if that orchard is selected. On the accessible branch, every nut is counted, and the first of every five nuts is picked for use in size and grade determinations. If available, at least ten nuts are harvested from the accessible branch for this purpose.

The following measurements are made on nuts selected for sizing:

1. Weight of nut in-shell
2. Width of shell at suture
3. Width of shell 90 degrees to suture line (cross-suture)
4. Length of shell
5. Kernel grade

## FIELD SAMPLING PROCEDURES

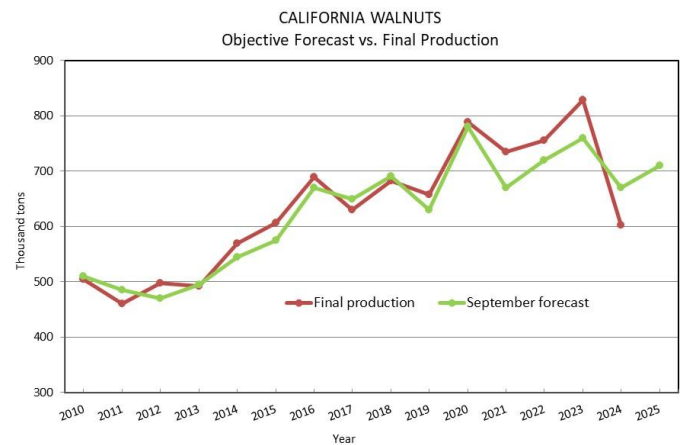
The 2025 Walnut Objective Measurement (O.M.) Survey was officially conducted from July 22 through August 22, 2025. There were a few samples completed before July 22 for training and scheduling purposes. There were 1,512 trees sampled from 756 orchards. Additional orchards were not sampled for one of the following reasons:

- 1) Orchard had been sprayed.
- 2) Orchard had been recently irrigated and was wet.
- 3) Orchard had been pulled.
- 4) Grower would not grant permission or could not be contacted

The Objective Measurement Survey is funded by the California Walnut Board.

## SURVEY HISTORY

The Walnut O.M. Survey began in 1958 to fulfill industry needs for an accurate walnut production forecast prior to harvest. The original sample was chosen proportionally to county and variety of bearing acreage. With each succeeding year, additions and deletions have been made in the sample to adjust for acreage removed, new bearing acreage, and operations that choose not to participate in the survey.



## DATA RELIABILITY

The 80 percent confidence interval is from 600,000 tons to 820,000 tons.

**WEIGHT, SIZE, PERCENT SOUND AND SET BY COUNTY, 2023-2025**

| County             | In-shell weight<br>(grams) | In-shell size (millimeters) |       |             | Kernel Grade -<br>Percent Sound | Nuts per Tree |
|--------------------|----------------------------|-----------------------------|-------|-------------|---------------------------------|---------------|
|                    |                            | Length                      | Width | Cross-Width |                                 |               |
| <b>STATE LEVEL</b> |                            |                             |       |             |                                 |               |
| 2023               | 21.5                       | 39.1                        | 32.7  | 33.3        | 99.2                            | 1,004         |
| 2024               | 21.1                       | 38.4                        | 32.5  | 33.4        | 98.1                            | 761           |
| 2025               | 21.3                       | 38.1                        | 32.3  | 33.5        | 99.2                            | 972           |
| <b>BY COUNTY</b>   |                            |                             |       |             |                                 |               |
| <b>Butte</b>       |                            |                             |       |             |                                 |               |
| 2023               | 20.1                       | 39.0                        | 31.9  | 32.4        | 99.8                            | 967           |
| 2024               | 19.7                       | 37.5                        | 31.5  | 32.6        | 98.0                            | 672           |
| 2025               | 20.2                       | 37.7                        | 31.7  | 33.2        | 98.9                            | 960           |
| <b>Colusa</b>      |                            |                             |       |             |                                 |               |
| 2023 <sup>1</sup>  | --                         | --                          | --    | --          | --                              | --            |
| 2024 <sup>1</sup>  | --                         | --                          | --    | --          | --                              | --            |
| 2025               | 22.4                       | 39.0                        | 32.4  | 33.9        | 99.6                            | 1,057         |
| <b>Glenn</b>       |                            |                             |       |             |                                 |               |
| 2023               | 20.5                       | 38.7                        | 31.9  | 32.6        | 99.8                            | 833           |
| 2024               | 19.5                       | 37.3                        | 31.3  | 32.5        | 96.2                            | 719           |
| 2025               | 22.1                       | 38.0                        | 32.2  | 33.7        | 98.7                            | 989           |
| <b>Kings</b>       |                            |                             |       |             |                                 |               |
| 2023               | 19.6                       | 40.1                        | 33.6  | 34.0        | 98.8                            | 1,336         |
| 2024 <sup>2</sup>  | --                         | --                          | --    | --          | --                              | --            |
| 2025 <sup>2</sup>  | --                         | --                          | --    | --          | --                              | --            |
| <b>San Joaquin</b> |                            |                             |       |             |                                 |               |
| 2023               | 23.1                       | 38.9                        | 33.0  | 33.4        | 99.0                            | 1,167         |
| 2024               | 23.0                       | 39.0                        | 33.2  | 34.0        | 99.9                            | 665           |
| 2025               | 22.7                       | 38.8                        | 32.9  | 33.8        | 100.0                           | 987           |
| <b>Stanislaus</b>  |                            |                             |       |             |                                 |               |
| 2023               | 23.6                       | 38.9                        | 33.2  | 33.8        | 100.0                           | 759           |
| 2024               | 24.1                       | 39.2                        | 33.7  | 34.4        | 100.0                           | 668           |
| 2025               | 22.5                       | 38.3                        | 32.9  | 33.9        | 100.0                           | 856           |
| <b>Sutter</b>      |                            |                             |       |             |                                 |               |
| 2023               | 23.4                       | 39.2                        | 32.6  | 33.5        | 99.9                            | 922           |
| 2024               | 23.5                       | 38.7                        | 32.7  | 33.9        | 100.0                           | 664           |
| 2025               | 23.5                       | 38.9                        | 32.9  | 34.0        | 100.0                           | 665           |
| <b>Tehama</b>      |                            |                             |       |             |                                 |               |
| 2023               | 20.0                       | 38.5                        | 31.6  | 32.3        | 100.0                           | 884           |
| 2024               | 20.5                       | 38.0                        | 31.8  | 32.7        | 98.2                            | 535           |
| 2025               | 20.3                       | 38.0                        | 31.9  | 33.7        | 96.9                            | 768           |
| <b>Tulare</b>      |                            |                             |       |             |                                 |               |
| 2023               | 18.3                       | 39.2                        | 33.3  | 33.6        | 96.7                            | 1,288         |
| 2024               | 16.5                       | 38.0                        | 32.5  | 32.8        | 93.8                            | 1,000         |
| 2025               | 18.3                       | 37.2                        | 32.2  | 32.8        | 98.7                            | 1,441         |
| <b>Yuba</b>        |                            |                             |       |             |                                 |               |
| 2023               | 20.4                       | 38.9                        | 31.8  | 32.4        | 100.0                           | 695           |
| 2024               | 24.1                       | 39.0                        | 32.9  | 34.0        | 100.0                           | 611           |
| 2025               | 22.3                       | 38.4                        | 32.4  | 34.0        | 100.0                           | 1,008         |
| <b>Other</b>       |                            |                             |       |             |                                 |               |
| 2023 <sup>3</sup>  | 23.5                       | 39.5                        | 32.9  | 33.7        | 99.7                            | 1,021         |
| 2024 <sup>4</sup>  | 21.0                       | 38.5                        | 32.7  | 33.6        | 98.2                            | 1,060         |
| 2025 <sup>5</sup>  | 21.0                       | 38.0                        | 32.3  | 33.3        | 99.3                            | 1,086         |

<sup>1</sup> In 2023 and 2024, Colusa County was included in "Other".

<sup>2</sup> In 2024 and 2025, Kings County was included in "Other".

<sup>3</sup> Other includes: Colusa, Fresno, Kern, Lake, Madera, Merced, Monterey, Placer, Sacramento, Solano, and Yolo.

<sup>4</sup> Other includes: Colusa, Fresno, Kings, Lake, Madera, Merced, Monterey, Placer, Sacramento, Shasta, Solano, and Yolo.

<sup>5</sup> Other includes: Fresno, Kings, Lake, Madera, Merced, Monterey, Placer, Sacramento, Shasta, Solano, and Yolo.

**WEIGHT, SIZE, PERCENT SOUND AND SET BY VARIETY, 2023-2025**

| District and variety | In-shell weight (grams) | In-shell size (millimeters) |       |             | Kernel Grade - Percent Sound | Nuts per Tree |
|----------------------|-------------------------|-----------------------------|-------|-------------|------------------------------|---------------|
|                      |                         | Length                      | Width | Cross-Width |                              |               |
| <b>BY VARIETY</b>    |                         |                             |       |             |                              |               |
| Chandler             |                         |                             |       |             |                              |               |
| 2023                 | 21.5                    | 39.5                        | 32.3  | 32.9        | 99.4                         | 1,018         |
| 2024                 | 21.2                    | 38.6                        | 32.3  | 33.2        | 98.4                         | 770           |
| 2025                 | 21.4                    | 38.3                        | 32.1  | 33.4        | 99.7                         | 1,025         |
| Hartley              |                         |                             |       |             |                              |               |
| 2023                 | 23.0                    | 38.9                        | 33.1  | 33.1        | 99.8                         | 1,204         |
| 2024                 | 22.4                    | 38.6                        | 32.8  | 33.0        | 98.5                         | 640           |
| 2025 <sup>1</sup>    | --                      | --                          | --    | --          | --                           | --            |
| Howard               |                         |                             |       |             |                              |               |
| 2023                 | 21.0                    | 37.1                        | 31.9  | 33.4        | 100.0                        | 811           |
| 2024                 | 21.0                    | 36.7                        | 31.7  | 33.6        | 98.8                         | 737           |
| 2025                 | 21.4                    | 36.8                        | 32.0  | 34.0        | 97.1                         | 781           |
| Tulare               |                         |                             |       |             |                              |               |
| 2023                 | 22.1                    | 38.9                        | 35.0  | 34.9        | 98.3                         | 980           |
| 2024                 | 21.3                    | 38.7                        | 34.7  | 34.6        | 97.3                         | 668           |
| 2025                 | 21.0                    | 37.7                        | 33.8  | 33.9        | 98.6                         | 912           |
| Other                |                         |                             |       |             |                              |               |
| 2023 <sup>2</sup>    | 19.5                    | 39.3                        | 32.4  | 33.0        | 97.2                         | 1,123         |
| 2024 <sup>3</sup>    | 19.2                    | 38.1                        | 32.3  | 33.0        | 94.7                         | 1,057         |
| 2025 <sup>4</sup>    | 20.9                    | 38.9                        | 32.7  | 33.3        | 99.3                         | 968           |

<sup>1</sup> In 2025, the Hartley variety was included in "Other".

<sup>2</sup> Other includes: Chico, Durham, Eureka, Franquette, Ivanhoe, Livermore, Payne, Serr, Solano, Tehama, and Vina.

<sup>3</sup> Other includes: Durham, Eureka, Franquette, Ivanhoe, Livermore, Payne, Serr, Solano, Tehama, and Vina.

<sup>4</sup> Other includes: Durham, Hartley, Ivanhoe, Livermore, Payne, Serr, Solano, Tehama, and Vina.

**PERCENTAGE DISTRIBUTION OF WALNUT SHELL SUTURE SIZE, BY COUNTY AND VARIETY**

| County and variety               | U.S. Standards Size Intervals <sup>1</sup> |     |     |     |     |     |        |     |     |     |     |     |        |     |     |     |     |     |
|----------------------------------|--|-----|-----|-----|-----|-----|--------|-----|-----|-----|-----|-----|--------|-----|-----|-----|-----|-----|
|                                  | 2023                                       |     |     |     |     |     | 2024   |     |     |     |     |     | 2025   |     |     |     |     |     |
|                                  | Mth  | Jmb | Lge | Med | Bby | Oth | Mth    | Jmb | Lge | Med | Bby | Oth | Mth    | Jmb | Lge | Med | Bby | Oth |
|                                  | ----- Percent of Total <sup>2</sup> -----  |     |     |     |     |     |        |     |     |     |     |     |        |     |     |     |     |     |
| <b>STATE LEVEL</b>               | 2  | 66  | 17  | 10  | 5   | 0   | 2      | 63  | 19  | 11  | 5   | 0   | 1      | 63  | 18  | 12  | 5   | 0   |
| <b>COUNTIES:</b>                 |  |     |     |     |     |     |        |     |     |     |     |     |        |     |     |     |     |     |
| Butte                            | 1  | 58  | 20  | 13  | 8   | 0   | 0      | 51  | 21  | 15  | 12  | 1   | 0      | 57  | 20  | 12  | 10  | 1   |
| Colusa                           | --   | --  | --  | --  | --  | --  | --     | --  | --  | --  | --  | --  | 0      | 70  | 19  | 9   | 2   | 0   |
| Glenn                            | 1  | 57  | 22  | 13  | 7   | 0   | 0      | 49  | 20  | 18  | 13  | 0   | 0      | 63  | 19  | 12  | 6   | 0   |
| Kings                            | 5  | 76  | 12  | 5   | 1   | 0   | --     | --  | --  | --  | --  | --  | --     | --  | --  | --  | --  | --  |
| San Joaquin                      | 1  | 70  | 17  | 9   | 3   | 0   | 3      | 73  | 16  | 7   | 1   | 0   | 1      | 72  | 13  | 11  | 3   | 0   |
| Stanislaus                       | 2  | 71  | 17  | 8   | 3   | 0   | 5      | 77  | 12  | 4   | 1   | 0   | 3      | 65  | 17  | 13  | 2   | 0   |
| Sutter                           | 1  | 66  | 19  | 11  | 3   | 0   | 1      | 71  | 17  | 9   | 2   | 0   | 1      | 74  | 15  | 9   | 1   | 0   |
| Tehama                           | 0  | 54  | 22  | 15  | 9   | 0   | 0      | 55  | 22  | 14  | 8   | 0   | 0      | 58  | 18  | 14  | 9   | 1   |
| Tulare                           | 3  | 74  | 12  | 8   | 3   | 0   | 1      | 61  | 20  | 12  | 5   | 0   | 1      | 57  | 24  | 12  | 6   | 0   |
| Yuba                             | 0  | 55  | 19  | 15  | 10  | 1   | 1      | 74  | 18  | 7   | 1   | 0   | 1      | 68  | 16  | 12  | 3   | 0   |
| Other <sup>3 4 5</sup>           | 2  | 66  | 17  | 11  | 4   | 0   | 2      | 64  | 20  | 11  | 3   | 0   | 1      | 59  | 19  | 16  | 6   | 0   |
| <b>VARIETIES:</b>                |  |     |     |     |     |     |        |     |     |     |     |     |        |     |     |     |     |     |
| Chandler                         | 1  | 65  | 19  | 11  | 4   | 0   | 1      | 63  | 19  | 12  | 5   | 0   | 0      | 62  | 20  | 13  | 5   | 0   |
| Hartley                          | 1  | 75  | 9   | 10  | 5   | 0   | 1      | 70  | 16  | 10  | 4   | 0   | --     | --  | --  | --  | --  | --  |
| Howard                           | 1  | 52  | 22  | 15  | 10  | 0   | 0      | 53  | 23  | 14  | 9   | 1   | 0      | 62  | 16  | 11  | 9   | 0   |
| Tulare                           | 8  | 78  | 6   | 5   | 1   | 0   | 8      | 77  | 7   | 5   | 2   | 0   | 6      | 72  | 11  | 9   | 3   | 0   |
| Other <sup>6 7 8</sup>           | 0  | 63  | 19  | 11  | 6   | 0   | 0      | 60  | 26  | 10  | 3   | 0   | 0      | 68  | 15  | 9   | 8   | 0   |
| <b>Number of Shells Measured</b> | 13,189                                     |     |     |     |     |     | 13,764 |     |     |     |     |     | 14,955 |     |     |     |     |     |

<sup>1</sup> Sizes used are as follows: Mammoth -- Larger than 96/64" in diameter; Jumbo -- 80/64" to 96/64"; Large -- 76/64" to 80/64" for Eureka variety, 77/64" to 80/64" for all other varieties; Medium -- 73/64" to 76/64" for Eureka, 73/64" to 77/64" for all others; Baby -- 60/64" to 73/64"; and Others -- below 60/64".

<sup>2</sup> Percentage distributions based upon nut samples taken in the field, may not equal 100 percent due to rounding.

<sup>3</sup> For 2023, Other includes: Colusa, Fresno, Kings, Lake, Madera, Merced, Monterey, Placer, Sacramento, Solano, and Yolo.

<sup>4</sup> For 2024, Other includes: Colusa, Fresno, Kings, Lake, Madera, Merced, Monterey, Placer, Sacramento, Shasta, Solano, and Yolo.

<sup>5</sup> For 2025, Other includes: Fresno, Kings, Lake, Madera, Merced, Monterey, Placer, Sacramento, Shasta, Solano, and Yolo.

<sup>6</sup> For 2023, Other includes: Chico, Durham, Eureka, Franquette, Ivanhoe, Livermore, Payne, Serr, Solano, Tehama, and Vina.

<sup>7</sup> For 2024, Other includes: Durham, Eureka, Franquette, Ivanhoe, Livermore, Payne, Serr, Solano, Tehama, and Vina.

<sup>8</sup> For 2025, Other includes: Durham, Hartley, Ivanhoe, Livermore, Payne, Serr, Solano, Tehama, and Vina.

**CALIFORNIA ENGLISH WALNUT ACREAGE, PRODUCTION, PRICE AND VALUE IN-SHELL**

| Year                | Bearing acres | Trees per acre | Per bearing acre | Total production | Price per ton  | Total value          |
|---------------------|---------------|----------------|------------------|------------------|----------------|----------------------|
|                     |               |                | <i>Tons</i>      |                  | <i>Dollars</i> | <i>1,000 Dollars</i> |
| 2001                | 204,000       | 55.6           | 1.50             | 305,000          | 1,120          | 341,600              |
| 2002                | 210,000       | 56.5           | 1.34             | 282,000          | 1,170          | 329,940              |
| 2003                | 213,000       | 57.7           | 1.53             | 326,000          | 1,160          | 378,160              |
| 2004                | 214,000       | 60.3           | 1.52             | 325,000          | 1,390          | 451,750              |
| 2005                | 215,000       | 61.1           | 1.65             | 355,000          | 1,570          | 557,350              |
| 2006                | 216,000       | 62.4           | 1.60             | 346,000          | 1,630          | 563,980              |
| 2007                | 218,000       | 62.9           | 1.50             | 328,000          | 2,290          | 751,120              |
| 2008                | 230,000       | 65.0           | 1.90             | 436,000          | 1,280          | 558,080              |
| 2009                | 240,000       | 65.1           | 1.82             | 437,000          | 1,710          | 747,270              |
| 2010                | 255,000       | 67.0           | 1.98             | 504,000          | 2,040          | 1,028,160            |
| 2011                | 265,000       | 67.0           | 1.74             | 461,000          | 2,900          | 1,336,900            |
| 2012                | 270,000       | 68.6           | 1.84             | 497,000          | 3,030          | 1,505,910            |
| 2013                | 280,000       | 69.2           | 1.76             | 492,000          | 3,710          | 1,825,320            |
| 2014                | 290,000       | 71.6           | 1.97             | 571,000          | 3,340          | 1,907,140            |
| 2015                | 300,000       | 72.0           | 2.02             | 606,000          | 1,670          | 1,012,020            |
| 2016                | 315,000       | 73.3           | 2.19             | 689,000          | 1,850          | 1,274,650            |
| 2017                | 335,000       | 74.1           | 1.88             | 630,000          | 2,490          | 1,568,700            |
| 2018                | 350,000       | 75.5           | 1.95             | 683,000          | 1,350          | 922,050              |
| 2019                | 365,000       | 76.9           | 1.80             | 657,000          | 1,890          | 1,241,730            |
| 2020                | 385,000       | 76.8           | 2.05             | 789,000          | 1,200          | 946,800              |
| 2021                | 395,000       | 78.0           | 1.86             | 735,000          | 1,450          | 1,065,750            |
| 2022                | 400,000       | 80.0           | 1.89             | 756,000          | 600            | 453,600              |
| 2023                | 385,000       | 81.0           | 2.15             | 828,000          | 870            | 720,360              |
| 2024 <sup>1</sup>   | 370,000       | 81.0           | 1.63             | 603,000          | 1,720          | 1,037,160            |
| 2025 <sup>2 3</sup> | 365,000       | 81.0           | 1.95             | 710,000          | NA             | NA                   |

<sup>1</sup> Price per ton and Total value are May 2025 preliminary data.

<sup>2</sup> Bearing years include plantings of the following: Chandler, Chico, Howard, Ivanhoe Tulare (2021 & Earlier); Amigo, Ashley, Cisco, Marchetti, Nuggett, Payne, Pedro, Serr, Sunland, Tehama, Trinta, Vina (2020 & Earlier); Franquette, Franquette Scharsch, Mayette, Poe (2018 & Earlier); all other varieties not specified (2019 & Earlier).

<sup>3</sup> Price per ton and total value preliminary data will be released May 2026.

NA Not Available

***The California Walnut Industry has been very supportive.  
We appreciate your continued cooperation!***

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