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Survey Methodology

- Random selection of orchards based on location, variety and age
- Randomly select two trees in each selected orchard
- Third year for two count units per tree
- Random Path Method used to locate count units
- Sample of nuts taken and sent to sizing station
- Measured kernel weight, length, width, thickness and grade





Data Collection

- Field Work: May 26 June 27
- Use 50+ Enumerators
- Increased sample size to 1,058 orchards
 - Collected data from 880 orchards

Thank you to the growers for allowing us access to your orchards.

Thank you to those that encouraged growers to participate.





Forecast Models

- Models are designed to produce a forecast of all almond production at the state level from the sample data.
- Models do not forecast production by variety.
 Separate models are run for Nonpareil since there are a significant number of samples.



2022 Almond OM Forecast



Forecast Models

- Models use:
 - official estimates of bearing acres and trees per acre
 - OM measurements of:
 - nuts per tree
 - percent sound
 - weight
 - width
 - thickness
 - length
- Model output is regressed against final production using previous 15 years.



2022 Almond OM Forecast



Distribution of Samples







- Bloom in Early February.
 - Favorable weather conditions for pollination
 - Warmer temperatures seemed to encourage a shorter bloom period
- Freeze in late February
 - Some areas experienced frost damage
 - Some counties reporting Colusa, Butte and Tehema





- Water availability still top concern
- Variable weather conditions
- Drought Conditions
- Pulled orchards
 - More pulled samples compared to previous years
 - But not substantial to suggest a change in bearing acreage for this forecast.
- Harvest is expected to begin in a few weeks

Top Soil Moisture Map









And the 2022 Production forecast is.....





- Highlights
 - Production forecasted at 2.6 billion meat pounds
 - Down 11% from the 2021 production
 - 1.37 million bearing acres, increase of 50,000 acres
 - Yield calculates to 1,900 pounds/acre, down 14% from last year





- Highlights Nonpareil Variety
 - Production from Nonpareil variety is forecasted at 1.0 billion meat pounds
 - Down 12% from the 2021 production
 - 38% of total production

ALMOND PRODUCTION - CALIFORNIA OM Forecast vs Final Estimate



Year







Almond Set 2020 – 2022 Average nuts per tree

	2020	2021	2022	% Change
California	5,645	4,619	4,082	-11.6









Measurement Survey Results

Almond Set per Tree by Variety, 2020 - 2022

	2020	2021	2022	% Change
Butte	5,923	4,793	4,173	-12.9
Carmel	5,797	5,469	4,417	-19.2
Independence	3,948	4,389	4,624	5.4
Monterey	4,719	4,324	3,908	-9.6
Nonpareil	5,621	4,512	3,966	-12.1
Padre	8,137	5,214	4,928	-5.5









Forecast and all Statistics Available On-line

- PRO Web: <u>www.nass.usda.gov/ca</u>
- NASS Web: <u>www.nass.usda.gov</u>
- PRO Contact: (916) 738-6600







Thank you to the producers who allowed us to conduct this survey in their orchards.





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