## Cost of Pollination

[^0]
## Cost per Colony to Pollinate Almonds down 3 Percent from 2022

In Regions 6 \& 7, the average cost per colony for almonds decreased 3 percent from 194 dollars per colony in 2022 to 188 dollars per colony in 2023. The average price per acre decreased from 336 dollars per acre to 310 dollars per acre during that period. The total value of pollination for almonds decreased 8 percent. Almonds were the highest valued crop in that region. The total value of all pollination in Regions $6 \& 7$ for 2023 was 356 million dollars, down 8 percent from 2022.

Cranberries had the highest total value of pollination of crops reported in Region $\mathbf{1}$ in 2023. The price per colony for cranberries increased 1 percent to 82.8 dollars per colony in 2023 . The price per acre increased 8 percent to 200 dollars per acre. The total value of pollination for cranberries in Region 1 for 2023 was 6.46 million dollars. The total value for pollination of all crops in Region 1 for 2023 was 19.8 million dollars, down 10 percent from 2022.

Blueberries had the highest total value of pollination of crops reported in Region 2 in 2023. The price per colony for blueberries decreased 15 percent to 66.4 dollars per colony in 2023 . The price per acre unchanged at 139 dollars per acre. The total value of pollination for blueberries in Region 2 for 2023 was 3.25 million dollars. The total value of pollination of all crops in Region 2 for 2023 was 6.75 million dollars, up 2 percent from 2022.

Watermelons had the highest total value of pollination of crops reported in Region 3 in 2023. The price per colony for watermelons decreased 26 percent to 57.0 dollars per colony in 2023 . The price per acre decreased 19 percent to 81.5 dollars per acre. The total value of pollination for watermelons in Region 3 for 2023 was 2.00 million dollars. The total value of pollination of all crops in Region 3 for 2023 was 5.59 million dollars, down 24 percent from 2022.

Apples had the highest total value of pollination of crops reported in Region 4 in 2023. The price per colony for apples increased 44 percent to 74.2 dollars per colony in 2023 . The price per acre increased 57 percent to 64.4 dollars per acre. The total value of pollination for apples in Region 4 for 2023 was 141 thousand dollars. The total value of pollination of all crops in Region 4 for 2023 was 1.28 million dollars, up 104 percent from 2022.

Apples had the highest total value of pollination of crops reported in Region 5 in 2023. The price per colony for apples increased 2 percent to 59.5 dollars per colony in 2023 . The price per acre increased 8 percent to 68.0 dollars per acre. The total value of pollination for apples in Region 5 for 2023 was 9.76 million dollars. The total value of pollination of all crops in Region 5 for 2023 was 24.6 million dollars, up 41 percent from 2022.

## Contents

Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and Total Value of Pollination - Region 1: 2022 ..... 3
Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and Total Value of Pollination - Region 1: 2023 ..... 3
Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and Total Value of Pollination - Region 2: 2022 ..... 4
Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and Total Value of Pollination - Region 2: 2023 ..... 4
Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and Total Value of Pollination - Region 3: 2022 ..... 5
Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and Total Value of Pollination - Region 3: 2023 ..... 5
Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and Total Value of Pollination - Region 4: 2022 ..... 6
Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and Total Value of Pollination - Region 4: 2023 ..... 6
Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and Total Value of Pollination - Region 5: 2022 ..... 7
Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and Total Value of Pollination - Region 5: 2023 ..... 7
Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and Total Value of Pollination - Region 6 \& 7: 2022 ..... 8
Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and Total Value of Pollination - Region 6 \& 7: 2023 ..... 8
Statistical Methodology ..... 9
Regional Listing ..... 10
Terms and Definitions of Cost of Pollination Estimates. ..... 10
Information Contacts ..... 11

Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and
Total Value of Pollination - Region 1: 2022
[See regional listing on page 10]

| Crop | Region 1 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Paid pollinated acres | Price per acre | Colonies used | Price per colony ${ }^{2}$ | Total value of pollination |
|  | (acres) | (dollars) | (colonies) | (dollars) | (1,000 dollars) |
| Tree fruit |  |  |  |  |  |
| Apple ............................... | 68,400 | 43.8 | 39,000 | 91.2 | 3,557 |
| Cherry .............................. | 28,000 | 34.5 | 16,500 | 78.9 | 1,302 |
| Melons <br> Watermelon $\qquad$ | 3,100 | 59.6 | 3,000 | 80.8 | 242 |
| Berries |  |  |  |  |  |
| Blueberry ........................ | 45,900 | 179.0 | 87,000 | 98.4 | 8,561 |
| Cranberry .......................... | 27,700 | 185.0 | 65,000 | 81.6 | 5,304 |
| Vegetables |  |  |  |  |  |
| Cucumber ....................... | 9,300 | 20.7 | 10,500 | 69.7 | 732 |
| Pumpkin ..... | 7,100 | 40.6 | 7,500 | 78.6 | 590 |
| Squash ............................. | 5,400 | 31.2 | 4,600 | 63.2 | 291 |
| All other ${ }^{1}$............................. | 8,500 | 47.2 | 17,000 | 77.4 | 1,316 |
| Total .................................... | 203,400 | 91.0 | 250,100 | 87.5 | 21,895 |

${ }^{1}$ Includes crops not categorized above.
${ }^{2}$ Regional total price per colony is total value of pollination divided by colonies used.

Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and Total Value of Pollination - Region 1: 2023
[See regional listing on page 10]

| Crop | Region 1 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Paid pollinated acres | Price per acre | Colonies used | Price per colony ${ }^{2}$ | Total value of pollination |
|  | (acres) | (dollars) | (colonies) | (dollars) | (1,000 dollars) |
| Tree fruit |  |  |  |  |  |
| Apple ............................... | 76,400 | 38.5 | 44,000 | 81.0 | 3,564 |
| Cherry ............................... | 29,400 | 27.0 | 12,500 | 66.7 | 834 |
| Melons |  |  |  |  |  |
| Watermelon ...................... | 1,950 | 74.6 | 2,400 | 69.9 | 168 |
| Berries |  |  |  |  |  |
| Blueberry | 40,800 | 142.0 | 81,000 | 76.8 | 6,221 |
| Cranberry ........................... | 32,100 | 200.0 | 78,000 | 82.8 | 6,458 |
| Vegetables |  |  |  |  |  |
| Cucumber | 8,100 | 41.3 | 4,600 | 79.6 | 366 |
| Pumpkin ........................... | 8,700 | 36.5 | 6,000 | 77.2 | 463 |
| Squash ............................. | 4,800 | 52.3 | 4,400 | 83.9 | 369 |
| All other ${ }^{1}$ | 5,600 | 46.8 | 17,500 | 77.8 | 1,362 |
| Total .................................... | 207,850 | 83.0 | 250,400 | 79.1 | 19,805 |

[^1]Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and Total Value of Pollination - Region 2: 2022
[See regional listing on page 10]

${ }^{1}$ Includes crops not categorized above.
${ }^{2}$ Regional total price per colony is total value of pollination divided by colonies used.

Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and Total Value of Pollination - Region 2: 2023
[See regional listing on page 10]

| Crop | Region 2 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Paid pollinated acres | Price per acre | Colonies used | Price per colony ${ }^{2}$ | Total value of pollination |
|  | (acres) | (dollars) | (colonies) | (dollars) | (1,000 dollars) |
| Tree fruit <br> Apple | 11,800 | 26.3 | 5,000 | 69.3 | 347 |
| Melons |  |  |  |  |  |
| Cantaloupe ....................... | 2,600 | 74.4 | 3,800 | 57.5 | 219 |
| Watermelon ....................... | 18,000 | 88.8 | 25,000 | 66.1 | 1,653 |
| Berries Blueberry $\qquad$ | 21,100 | 139.0 | 49,000 | 66.4 | 3,254 |
| Vegetables |  |  |  |  |  |
| Pumpkin ........................... | 1,160 | 36.9 | 1,000 | 74.6 | 75 |
| Squash .............................. | 2,750 | 73.1 | 4,100 | 60.3 | 247 |
| All other ${ }^{1}$............................ | 13,400 | 54.4 | 14,500 | 65.9 | 956 |
| Total ................................... | 70,810 | 84.8 | 102,400 | 65.9 | 6,751 |

[^2]Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and
Total Value of Pollination - Region 3: 2022
[See regional listing on page 10]

| Crop | Region 3 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Paid pollinated acres | Price per acre | Colonies used | Price per colony ${ }^{2}$ | Total value of pollination |
|  | (acres) | (dollars) | (colonies) | (dollars) | (1,000 dollars) |
| Melons Watermelon $\qquad$ | 18,200 | 100.0 | 24,000 | 76.9 | 1,846 |
| Berries Blueberry $\qquad$ | 4,200 | 134.0 | 16,500 | 54.8 | 904 |
| All other ${ }^{1}$............................ | 32,700 | 46.9 | 89,000 | 52.1 | 4,637 |
| Total .................................... | 55,100 | 71.2 | 129,500 | 57.0 | 7,387 |

${ }^{1}$ Includes crops not categorized above.
${ }^{2}$ Regional total price per colony is total value of pollination divided by colonies used.

## Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and

 Total Value of Pollination - Region 3: 2023[See regional listing on page 10]

| Crop | Region 3 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Paid pollinated acres | Price per acre | Colonies used | Price per colony ${ }^{2}$ | Total value of pollination |
|  | (acres) | (dollars) | (colonies) | (dollars) | (1,000 dollars) |
| Melons Watermelon | 22,100 | 81.5 | 35,000 | 57.0 | 1,995 |
| Berries Blueberry $\qquad$ | 2,350 | 230.0 | 18,000 | 59.3 | 1,067 |
| All other ${ }^{1}$............. | 26,700 | 58.7 | 37,000 | 68.3 | 2,527 |
| Total ........ | 51,150 | 76.5 | 90,000 | 62.1 | 5,589 |

${ }^{1}$ Includes crops not categorized above.
${ }^{2}$ Regional total price per colony is total value of pollination divided by colonies used.

Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and Total Value of Pollination - Region 4: 2022
[See regional listing on page 10]

${ }^{1}$ Includes crops not categorized above.
${ }^{2}$ Regional total price per colony is total value of pollination divided by colonies used.

Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and Total Value of Pollination - Region 4: 2023
[See regional listing on page 10]

| Crop | Region 4 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Paid pollinated acres | Price per acre | Colonies used | Price per colony ${ }^{2}$ | Total value of pollination |
|  | (acres) | (dollars) | (colonies) | (dollars) | (1,000 dollars) |
| Tree fruit |  |  |  |  |  |
| Apple .. | 1,150 | 64.4 | 1,900 | 74.2 | 141 |
| Cherry .............................. | 1,040 | 41.6 | 2,600 | 43.3 | 113 |
| All other ${ }^{1}$........................... | 1,160 | 62.4 | 19,000 | 53.9 | 1,024 |
| Total ................................... | 3,350 | 56.7 | 23,500 | 54.4 | 1,278 |

[^3]Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and Total Value of Pollination - Region 5: 2022
[See regional listing on page 10]

| Crop | Region 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Paid pollinated acres | Price per acre | Colonies used | Price per colony ${ }^{2}$ | Total value of pollination |
|  | (acres) | (dollars) | (colonies) | (dollars) | (1,000 dollars) |
| Tree fruit |  |  |  |  |  |
| Apple ........................... | 104,000 | 62.8 | 113,000 | 58.3 | 6,588 |
| Cherry .............................. | 40,700 | 115.0 | 79,000 | 60.2 | 4,756 |
| Peach .............................. | 1,060 | 37.3 | 1,100 | 47.7 | 52 |
| Pear ................................ | 20,000 | 61.3 | 23,000 | 55.8 | 1,283 |
| Berries |  |  |  |  |  |
| Blueberry ........................ | 13,300 | 136.0 | 39,000 | 50.9 | 1,985 |
| Cranberry .......................... | 4,100 | 118.0 | 6,500 | 73.9 | 480 |
| Raspberry ............................ | 4,100 | 58.4 | 6,500 | 40.2 | 261 |
| All other ${ }^{1}$............................. | 33,400 | 44.8 | 45,000 | 45.5 | 2,048 |
| Total .................................... | 220,660 | 74.7 | 313,100 | 55.7 | 17,453 |

${ }^{1}$ Includes crops not categorized above.
${ }^{2}$ Regional total price per colony is total value of pollination divided by colonies used.

Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and Total Value of Pollination - Region 5: 2023
[See regional listing on page 10]

| Crop | Region 5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Paid pollinated acres | Price per acre | Colonies used | Price per colony ${ }^{2}$ | Total value of pollination |
|  | (acres) | (dollars) | (colonies) | (dollars) | (1,000 dollars) |
| Tree fruit |  |  |  |  |  |
| Apple ................................ | 139,500 | 68.0 | 164,000 | 59.5 | 9,758 |
| Cherry .............................. | 36,100 | 104.0 | 62,000 | 61.2 | 3,794 |
| Pear .................................. | 23,800 | 56.7 | 23,000 | 59.1 | 1,359 |
| Berries |  |  |  |  |  |
| Blueberry | 23,500 | 150.0 | 64,000 | 56.5 | 3,616 |
| Cranberry ....................... | 6,000 | 121.0 | 9,000 | 81.9 | 737 |
| Raspberry ......................... | 2,600 | 72.6 | 4,700 | 40.7 | 191 |
| All other ${ }^{1}$............................. | 53,900 | 84.5 | 73,000 | 71.3 | 5,205 |
| Total .................................... | 285,400 | 82.6 | 399,700 | 61.7 | 24,660 |

[^4]Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and Total Value of Pollination - Region 6 \& 7: 2022
[See regional listing on page 10]

| Crop | Region 6 \& 7 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Paid pollinated acres | Price per acre | Colonies used | Price per colony ${ }^{2}$ | Total value of pollination |
|  | (acres) | (dollars) | (colonies) | (dollars) | (1,000 dollars) |
| Tree nuts Almond | 1,032,700 | 336.0 | 1,880,000 | 194.0 | 364,720 |
| Tree fruit Cherry $\qquad$ | 27,000 | 163.0 | 53,000 | 84.0 | 4,452 |
| All other ${ }^{1}$......... | 96,100 | 120.0 | 300,000 | 58.6 | 17,580 |
| Total ................... | 1,155,800 | 313.8 | 2,233,000 | 173.2 | 386,752 |

${ }^{1}$ Includes crops not categorized above.
${ }^{2}$ Regional total price per colony is total value of pollination divided by colonies used.

Paid Pollinated Acres, Price per Acre, Colonies Used, Price per Colony, and Total Value of Pollination - Region 6 \& 7: 2023
[See regional listing on page 10]

| Crop | Region 6 \& 7 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Paid pollinated acres | Price per acre | Colonies used | Price per colony ${ }^{2}$ | Total value of pollination |
|  | (acres) | (dollars) | (colonies) | (dollars) | (1,000 dollars) |
| Tree nuts <br> Almond $\qquad$ | 1,075,400 | 310.0 | 1,780,000 | 188.0 | 334,640 |
| Tree fruit |  |  |  |  |  |
| Apples ............................. | 3,350 | 84.9 | 6,500 | 56.2 | 365 |
| Cherry .............................. | 26,500 | 124.0 | 44,000 | 77.9 | 3,428 |
| Melons .............................. |  |  |  |  |  |
| Cantaloupe ...................... | 36,100 | 62.4 | 28,000 | 81.6 | 2,285 |
| Watermelon .................... | 8,900 | 150.0 | 9,500 | 142.0 | 1,349 |
| Other Crops ........................ |  |  |  |  |  |
| Alfalfa ............................ | 11,200 | 139.0 | 19,500 | 92.0 | 1,794 |
| Sunflower ........................ | 18,300 | 88.1 | 27,000 | 60.5 | 1,634 |
| All other ${ }^{1}$............................ | 64,100 | 101.0 | 165,000 | 66.3 | 10,940 |
| Total ................................... | 1,243,850 | 281.3 | 2,079,500 | 171.4 | 356,435 |

[^5]
## Statistical Methodology

Survey Procedures: The Cost of Pollination survey, conducted annually in all 50 states, collects information on acreage pollinated, colonies used, and dollars spent for a variety of different crops. The target population for Cost of Pollination estimate program is all farms and ranches with at least one acre of a crop determined to be potentially pollinated by honey bees. There were 33 specific crops targeted in the Cost of Pollination sampling scheme, 19 of these crops were listed individually on the questionnaire. Additional crops were allowed to be reported under the "All Other Crops" category (see "Sampled Crops"). Any other reported commodity not included in these lists were grouped as miscellaneous and summarized together. The Cost of Pollination samples were selected using a Multivariate Probability Proportional to Size (MPPS) sampling scheme. Each record was assigned a measure of size based on the record's data for multiple specified commodities. The 2023 sample size was 15,548 and the 2022 sample size was 15,590 . All sampled operations were mailed a questionnaire and given adequate time to respond by mail or electronic data reporting (EDR). Those that did not respond by mail or EDR were telephoned or enumerated in person.

Sampled Crops: The 19 sampled crops listed on the questionnaire were: alfalfa, almonds, apples, blueberries, cantaloupes, cherries, clover, cranberries, cucumber, nectarines, oranges, peaches, pears, pumpkins, raspberries, squash, strawberries, sunflowers, and watermelons. The 14 remaining crops that were sampled, but not listed individually on the questionnaire were: apricots, avocados, boysenberries, buckwheat, canola, grapes, honeydew melons, kiwifruit, plums, prunes, macadamia nuts, mangos, tomatoes, and turnips.

Estimation Procedures: Estimates were prepared by the Agricultural Statistics Board after reviewing recommendations and analysis submitted by each Regional Field Office. All data were analyzed for unusual values. Data from each operation were compared to their own past operating profile and to trends from similar operations. Data for missing operations were covered by weighting positive data of similar operations based on location and strata. National and State survey data were reviewed for reasonableness with each other, estimates from the previous year, and other USDA, NASS reports.

In order to be published individually, a crop must have an appropriate threshold of paid pollinated acres in a region and meet USDA, NASS's confidentiality policy. If a crop did not meet either of these requirements, it was combined with all other unpublished crops under the "All Other" heading. Due to the differences in regions and years, the aggregate and other published estimates may include different crops.

Revision Policy: The previous year's estimates are subject to revision when current year's estimates are made. Revisions are the result of late reports or corrected data.

Reliability: Estimates were created by reviewing rounded indications from the survey and the associated measures of error. Due to the sampled population differing from other USDA, NASS surveys, estimates on this report may differ from other published numbers. Since all operations with crops were not included in the sample, survey estimates are subject to sampling variability. The measurement of error due to sampling in the current period is evaluated by the coefficient of variation for each estimated item. For individually published crops, coefficients of variation can be found using USDA, NASS's Quick Stats searchable database.

Survey results were also subject to non-sampling errors such as omissions, duplication, and mistakes in reporting, recording, and processing the data. While these errors cannot be measured directly, they were minimized through strict quality controls in the data collection process and a careful review of all reported data for consistency and reasonableness.

## Estimation Regions

To improve the reliability and increase the number of estimates which can be published, estimates are published at regional level, based on the regions used for the 2012 Census of Agriculture. Regions 6 and 7 were combined. The states in each region are as follows:

| Region 1: | Connecticut, Illinois, Indiana, Iowa, Kansas, Massachusetts, Maine, Michigan, Nebraska, <br> New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont, <br> Wisconsin. |
| :--- | :--- |
| Region 2: | Alabama, Delaware, Georgia, Kentucky, Maryland, North Carolina, South Carolina, Tennessee, <br>  <br> Virginia, West Virginia. |
| Region 3: | Arkansas, Florida, Louisiana, Missouri, Mississippi, New Mexico, Oklahoma, Texas. |
| Region 4: | Colorado, Minnesota, Montana, Nevada, North Dakota, South Dakota, Utah, Wyoming. |
| Region 5: | Alaska, Idaho, Oregon, Washington. |
| Region 6\&7: | Arizona, California, Hawaii. |

## Terms and Definitions of Cost of Pollination Estimates

Paid Pollinated Acres: Acreage that an operation paid money to be pollinated by honey bees.
Dollars per Acre: The average price paid by operations to pollinate an acre of crop. Acres pollinated for free or on a nonmonetary basis were not included in this calculation.

Colonies Used: The total colonies used to pollinate a crop; regardless of ownership or if on a paid basis.
Dollars per Colony: The average price paid by operations to use a colony for pollination. Colonies owned by the operation or used on a nonmonetary basis were not included.

Total Value of Pollination: The total valuation of all pollination, calculated by multiplying the price per colony by colonies used.

Listed below are the commodity specialists in the Livestock Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to nass@usda.gov
Travis Averill, Chief, Livestock Branch ..... (202) 692-0069
Jean Porter, Head, Poultry and Specialty Commodities Section ..... (202) 690-3223
Holly Brenize - Poultry Slaughter ..... (202) 720-0585
Liana Cuffman - Catfish and Trout, Mink, Census of Aquaculture ..... (202) 720-8784
Fatema Haque - Turkey Hatchery, Turkeys Raised ..... (202) 720-3244
Derron Martin - Chicken Hatchery, Egg Products ..... (202) 690-3237
Seth Riggins - Honey, Honey Bee Colonies ..... (202) 690-4870
Shulonda Shaw - Cold Storage, Capacity of Refrigerated Warehouses ..... (202) 720-3240
Autumn Stone - Layers, Eggs ..... (202) 690-3676
Takiyah Walker - Broiler Hatchery ..... (202) 720-6147

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> Cornell's Mann Library has launched a new website housing NASS's and other agency's archived reports. The new website, https://usda.library.cornell.edu. All email subscriptions containing reports will be sent from the new website, https://usda.library.cornell.edu. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: https://usda.library.cornell.edu/help. You should whitelist notifications@usdaesmis.library.cornell.edu in your email client to avoid the emails going into spam/junk folders.

For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: nass@usda.gov.

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[^0]:    Released December 15, 2023, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

[^1]:    ${ }^{1}$ Includes crops not categorized above.
    ${ }^{2}$ Regional total price per colony is total value of pollination divided by colonies used.

[^2]:    ${ }_{2}^{1}$ Includes crops not categorized above.
    ${ }^{2}$ Regional total price per colony is total value of pollination divided by colonies used.

[^3]:    ${ }^{1}$ Includes crops not categorized above.
    ${ }^{2}$ Regional total price per colony is total value of pollination divided by colonies used.

[^4]:    ${ }^{1}$ Includes crops not categorized above.
    ${ }^{2}$ Regional total price per colony is total value of pollination divided by colonies used.

[^5]:    ${ }^{1}$ Includes crops not categorized above.
    ${ }^{2}$ Regional total price per colony is total value of pollination divided by colonies used.

