Supporting Statement – Part A

COST of POLLINATION SURVEY

OMB No. 0535-0258

In an effort to increase the transparency of NASS's survey processes and provide information on the quality of its estimates, NASS publishes Methodology and Quality Measures Reports for some commodities. The Methodology and Quality Measures Reports are published at the same time or shortly after estimates are released.

This supporting statement incorporates data and methodology from the NASS 2024 Cost of Pollination Methodology and Quality Measures Publication located at: https://www.nass.usda.gov/Publications/Methodology_and_Data_Quality/Cost_of_Pollination/01_2024/copqm24.pdf

A. JUSTIFICATION

The National Agricultural Statistics Service (NASS) is asking for an extension of 3 years to an ongoing annual data collection and publication of data related to the costs involved with the pollination of various crops from across the United States. This is a voluntary data collection.

1. Explain the circumstances that make the collection of information necessary. Identify any legal or administrative requirements that necessitate the collection. Attach a copy of the appropriate section of each statute and regulation mandating or authorizing the collection of information.

The primary function of the National Agricultural Statistics Service (NASS) is to prepare and issue official state and national estimates of crop and livestock production, disposition, and prices. The essential role of honey bees (*Apis mellifera*) for crop pollination is well known in modern agriculture, but for most of human history honey bees were kept primarily for honey production. In 1988, pollination services—renting out bee colonies to pollinate certain crops—produced only a small share of beekeeper revenue, at just under 11 percent. Since then, the value of pollination services has increased sharply. In 2016, pollination service fees represented over 41 percent of total beekeeper revenues and exceeded honey sales. (USDA ERS, Amber Waves, March 27, 2018). The primary driver in the value increase has been growing demand for almonds, which were responsible for 81 percent of total value of pollination in 2023. Recent data show almond farmers paid \$188 per colony rented over the several-weeklong pollination season in 2023, roughly triple the average of \$66.30 for other

crops in regions 6 and 7. (USDA NASS, Cost of Pollination Report, December 15, 2023)

Scope and Purpose: 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 crops

Other crops that rely heavily on the rental of bees includes, but is not limited to: apples, cherries, peaches, oranges, pears, cranberries, blueberries, cantaloupes, watermelons, cucumbers, squash, pumpkins, sunflowers, and clover.

General authority for these data collection activities is granted under U.S. Code Title 7, Section 2204. This statute specifies that "The Secretary of Agriculture shall procure and preserve all information concerning agriculture which he can obtain ... by the collection of statistics ... and shall distribute them among agriculturists."

2. Indicate how, by whom, and for what purpose the information is to be used. Except for a new collection, indicate the actual use the agency has made of the information received from the current collection.

The need for NASS to expand its programs was initiated by the Presidential Memorandum "Creating a Federal Strategy to Promote the Health of Honey Bees and Other Pollinators," issued on June 20, 2014 to take "steps to reverse pollinator losses and help restore populations to healthy levels." The memorandum can be found at this link https://www.whitehouse.gov/the-press-office/2014/06/20/presidential-memorandum-creating-federal-strategy-promote-health-honey-b. To this end, NASS is committed to collaborating with USDA and the other departments on a unified and complementary approach to the President's pollinator health initiative.

Data that are collected from beekeepers through the expanded Bee and Honey Survey and the Colony Loss Survey (OMB # 0535-0153), combined with the cost of pollination data collected from crop farmers (fruits, nuts, vegetable and specialty crops) will provide researchers with a comprehensive view of the honey bee/pollinator industry. These data will give a more detailed view of the expenses associated with pollination and help policy makers, crop producers, and beekeepers "ensure the sustainability of our food production systems" and "avoid additional economic impact on the agricultural sector". Furthermore, estimates from the Cost of Pollination survey will be used to fulfill the needs in the Pollinator Research Action Plan which specifically calls for NASS to conduct the Cost of Pollination Survey.

https://www.whitehouse.gov/sites/default/files/microsites/ostp/Pollinator %20Research%20Action%20Plan%202015.pdf.

The *Cost of Pollination Inquiry* will collect data relating to the primary crops that rely on honey bees and other pollinators to perform the tasks of pollination. By publishing both regional and crop specific pollination costs, both, crop farmers and beekeepers will be able to benefit from this additional data. Federal and State Departments of Agriculture, universities, various Federal Agencies, and numerous other people will be able to benefit from this data as well.

3. Describe whether, and to what extent, the collection of information involves the use of automated, electronic, mechanical, or other technological collection techniques or other forms of information technology, e.g., permitting electronic submission of responses, and the basis for the decision for adopting this means of collection. Also describe any consideration of using information technology to reduce burden.

Respondents can complete the Mink questionnaire by any of the following methods: Computer Assisted Self Interview (CASI), Computer Assisted Telephone Interview (CATI), FAX, or by paper/mail. NASS will utilize enumerators to do follow-up contacts either by phone or face to face interviews of non-respondents. In 2023, the response rate using Internet was 4 percent.

4. Describe efforts to identify duplication. Show specifically why any similar information already available cannot be used or modified for use for the purposes described in Item 2 above.

The National Agricultural Statistics Service (NASS) cooperates with State Departments of Agriculture and land grant universities to conduct agricultural surveys. These surveys meet both State and federal needs, thus eliminating duplication and minimizing reporting burden on the agriculture industry. Data collected on these surveys are not available from any other source.

5. If the collection of information impacts small businesses or other small entities (Item 5 of OMB Form 83-I), describe any methods used to minimize burden.

The information requested can be provided with a minimum of difficulty from normal operating records. Approximately 85 percent of the operations in the sample are small businesses (as defined in the Small Business Administration's Table of Small Business Size Standards:

SBA Table of Size Standards

6. Describe the consequence to Federal program or policy activities if the collection is not conducted or is conducted less frequently, as well as any technical or legal obstacles to reducing burden.

NASS continues to attend numerous meetings and tradeshows around the country and has obtained a great deal of input from data users and beekeepers as to what sort of published data they need and what sort of production data individual growers could provide. NASS works closely with the USDA Economic Research Service (ERS) to pinpoint exactly which data would be most useful.

7. Explain any special circumstances that would cause an information collection to be conducted in a manner inconsistent with the general information guidelines in 5 CFR 1320.5.

There are no special circumstances associated with this information collection.

8. Provide a copy and identify the date and page number of publication in the Federal Register of the agency's notice, required by 5 CFR 1320.8 (d), soliciting comments on the information collection prior to submission to OMB. Summarize public comments received in response to that notice and describe actions taken by the agency in response to these comments.

The Federal Register Notice soliciting comments was published on April 16, 2024, on pages 26859-26860. There was one public comment received which was not relevant to the practical utility, time, need or cost of this information collection request.

Describe efforts to consult with persons outside the agency to obtain their views on the availability of data, frequency of collection, the clarity of instructions and record-keeping, disclosure, or reporting format (if any), and on the data elements to be recorded, disclosed, or reported.

NASS has worked closely with beekeepers, crop producers, researchers, and other government agencies to clarify which data would be most useful and how best to collect data. NASS discovered that yearly data collection in the fall, after all blooming was completed, was optimal for the majority of respondents.

9. Explain any decision to provide any payment or gift to respondents.

There are no payments or gifts to respondents.

10. Describe any assurance of confidentiality provided to respondents and the basis for the assurance in statute, regulation, or agency policy.

Questionnaires include a statement that individual reports are confidential. U.S. Code Title 18, Section 1905; U.S. Code Title 7, Section 2276; and Title III of Pub. L. No. 115-435 (CIPSEA) provide for confidentiality of reported information. All employees of NASS and all enumerators hired and supervised under a cooperative agreement with the National Association of State Departments of

Agriculture (NASDA) must read the regulations and sign a statement of compliance.

Additionally, NASS employees and NASS contractors comply with the OMB implementation guidance document, "Implementation Guidance for Confidential Information Protection and Statistical Efficiency Act of 2018, Title III of Pub. L. No. 115-435, codified in 44 U.S.C. Ch. 35" CIPSEA supports NASS's pledge of confidentiality to all respondents and facilitates the agency's efforts to reduce burden by supporting statistical activities of collaborative agencies through designation of NASS agents, subject to the limitations and penalties described in CIPSEA.

The following confidentiality pledge statement will appear on all NASS questionnaires.

The information you provide will be used for statistical purposes only. Your responses will be kept confidential and any person who willfully discloses ANY identifiable information about you or your operation is subject to a jail term, a fine, or both. This survey is conducted in accordance with the Confidential Information Protection and Statistical Efficiency Act of 2018, Title III of Pub. L. No. 115-435, codified in 44 U.S.C. Ch. 35 and other applicable Federal laws. For more information on how we protect your information please visit: https://www.nass.usda.gov/confidentiality. Response to this survey is voluntary.

11. Provide additional justification for any questions of a sensitive nature.

There are no questions of a sensitive nature.

12. Provide estimates of the hour burden of the collection of information. The statement should indicate the number of respondents, frequency of response, annual hour burden, and an explanation of how the burden was estimated. If this request for approval covers more than one form, provide separate hour burden estimates for each form and aggregate the hour burdens in Item 13 of OMB Form 83-I. Provide estimates of annualized cost to respondents for the hour burdens for collections of information, identifying and using appropriate wage rate categories.

Burden hour calculations are shown below. The minutes-per-response figures come from cognitive interviews. Cost to the public of completing the questionnaire is assumed to be comparable to the hourly rate of those requesting the data. Reporting time of 5,231 hours is multiplied by \$42.75 per hour for a total cost to the public of \$223,631.52.

NASS uses the Bureau of Labor Statistics' <u>Occupational Employment Statistics</u> (most recently published on April 3, 2024 for the previous May) to estimate an

hourly wage for the burden cost. The May 2023 mean wage for bookkeepers was \$23.84. The mean wage for farm managers was \$43.35. The mean wage for farm supervisors was \$29.23. The mean wage of the three is \$32.14. To calculate the fully loaded wage rate (includes allowances for Social Security, insurance, etc.) NASS will add 33% for a total of \$42.75 per hour.

Estimated Annual Burden for Cost of Pollination Survey 2025 - 2027											
Survey	Sample Size	Waves of Data Collection	Responses				Non-response				Total
			Resp. Count	Waves x Count	Min./ Resp.	Burden Hours	Nonresp Count	Waves x Count	Min./ Nonr.	Burden Hours	Burden Hours
Initial Mailing of Questionnaire	16,000	1	5,600	5,600	15	1400	10,400	10,400	2	347	1747
2nd Mailing of Questionnaire (post card, email, or text)	10,400	1	1,040	1,040	15	260	9,360	9,360	2	312	572
Phone and Field Enumeration Follow-up	9,360	1	6,178	6,178	15	1,544	3,182	3,182	2	106	1,650
Respondent Cover Letter and Publicity Materials	16,000	1	6,640	6,640	5	553	19,760	19,760	2	659	1,212
Cognitive Testing	50	1	50	50	60	50	-	-	2	-	50
Total	16,050		12,868	12,868		3,808	3,182	22,942		1,423	5,231

13. Provide an estimate of the total annual cost burden to respondents or record-keepers resulting from the collection of information.

There are no capital/start-up or ongoing operation/maintenance costs associated with this information collection.

14. Provide estimates of annualized cost to the Federal government; provide a description of the method used to estimate cost which should include quantification of hours, operational expenses, and any other expense that would not have been incurred without this collection of information.

The total cost to the Federal government for the Cost of Pollination Survey is approximately \$1,600,000. Most of the total cost goes to federal personnel wages and benefits; the remainder is for data collection, supplies, postage, computer processing, and similar items.

15. Explain the reasons for, any program changes or adjustments reported in Items 13 or 14 of the OMB Form 83-I (reasons for changes in burden).

The expected burden is 5,231 hours, down 1,188 hours from the previous approval. The number of responses is 35,810, down 5,640 from the previous approval. The adjustments to the number of responses and burden hours are due to a decrease in number of producers.

16. For collections of information whose results will be published, outline plans for tabulation and publication. Address any complex analytical techniques that will be used. Provide the time schedule for the entire project, including beginning and ending dates of the collection of information, completion of report, publication dates, and other actions.

Survey Timeline: For the Cost of Pollination survey, data collection begins in October and concludes in December. Estimates are released to the public in December on the date designated by the Agricultural Statistics Board (ASB) on its annual publications calendar.

Estimators: Response to the survey is voluntary. Some producers refuse to participate in the survey. Others cannot be located during the data collection period, and some submit incomplete reports. The nonrespondents are accounted for in the estimation process. Point estimates, called direct expansions, are calculated by multiplying the reported value by the nonresponse adjusted weight and summing to a nonresponse grouping total. The nonresponse adjustment is calculated by summing the weights for all sample records within the group and dividing by the sum of the weights from the usable records. This adjustment assumes that the data of the nonrespondents are similar to the data of the respondents. A variance estimate is also computed for each nonresponse grouping. Totals and variances are additive across nonresponse groupings to form

a state estimate and states are additive to regional estimates. Ratio estimates are also computed for many items. For example, dollars per acre values are calculated as the ratio of total dollars paid to acres paid for pollination. Both the numerator and denominator must be usable for that record to be used in the ratio estimator

Estimation: 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 nonresponse grouping. National and State survey data were reviewed for reasonableness with each other, estimates from the previous survey cycles, and other USDA, NASS reports. 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.

The annual results can be found at the following link:

Publication | Cost of Pollination | ID: d504rk335 | USDA Economics, Statistics and Market Information System (cornell.edu).

17. If seeking approval to not display the expiration date for OMB approval of the information collection, explain the reasons that display would be inappropriate.

There is no request for approval of non-display of the expiration date.

18. Explain each exception to the certification statement identified in Item 19, "Certification for Paperwork Reduction Act Submissions" of OMB Form 83-I.

There are no exceptions to the certification statement.

September 2024