

FERAL SWINE SURVEY

OMB No. 0535-NEW

The National Agricultural Statistics Service is seeking approval to conduct a new survey that will collect data related to the number of feral swine in the US and the amount and type of damages caused by them. The survey will be conducted once every three years.

A. JUSTIFICATION

- 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.**

On April 2, 2014 the Undersecretary for USDA's Marketing and Regulatory Programs, Edward Avalos announced that the USDA was kicking off a national effort to reduce the devastating damage caused by feral swine. The \$20 million program aims to help states deal with a rapidly expanding population of invasive wild swine. "Feral swine are one of the most destructive invaders a state can have," said Undersecretary Avalos. "They have expanded their range from 17 to 39 states in the last 30 years and cause damage to crops, kill young livestock, destroy property, harm natural resources, and carry diseases that threaten other animals as well as people and water supplies. It's critical that we act now to begin appropriate management of this costly problem."

On Feb 3, 1999, Executive Order 13112 was signed by President Clinton establishing the National Invasive Species Council. The Executive Order requires that a Council of Departments dealing with invasive species be created. Currently there are 13 Departments and Agencies on the Council. (*Executive Order 13112 of February 3, 1999 – Invasive Species Federal Register: Feb 8, 1999 (Volume 64, Number 25)*).

An Invasive Species Council (Council) is hereby established whose members shall include the Secretary of State, the Secretary of the Treasury, the Secretary of Defense, the Secretary of the Interior, the Secretary of Agriculture, the Secretary of Commerce, the Secretary of Transportation, and the Administrator of the Environmental Protection Agency. The Council shall be Co-Chaired by the Secretary of the Interior, the Secretary of Agriculture

and the Secretary of Commerce. The Council may invite additional Federal agency representatives to be members including representatives from subcabinet bureaus or offices with significant responsibilities concerning invasive species, and may prescribe special procedures for their participation.

The Invasive Species Council shall provide national leadership regarding invasive species, and shall:

- (a) oversee the implementation of this order and see that the Federal agency activities concerning invasive species are coordinated, complementary, cost-efficient, and effective, relying to the extent feasible and appropriate on existing organizations addressing invasive species, such as the Aquatic Nuisance Species Task Force, the Federal Interagency Committee for the Management of Noxious and Exotic Weeds, and the Committee on Environment and Natural Resources;
- (b) encourage planning and action at local, tribal, State, regional, and ecosystem-based levels to achieve the goals and objectives of the Management Plan in section 5 of this order, in cooperation with stakeholders and existing organizations addressing invasive species;
- (c) develops recommendations for international cooperation in addressing invasive species;
- (d) develop in consultation with the Council on Environmental Quality, guidance to Federal agencies pursuant to the National Environmental Policy Act on prevention and control of invasive species, including the procurement, use, and maintenance of native species as they affect invasive species;
- (e) facilitate development of a coordinated network among Federal agencies to document, evaluate, and monitor impacts from invasive species on the economy, the environment, and human health;
- (f) facilitate establishment of a coordinated, up-to-date information-sharing system that utilizes, to the greatest extent practicable, the Internet; this system shall facilitate access to and exchange of information concerning invasive species, including, but not limited to, information on distribution and abundance of invasive species; life histories of such species and invasive characteristics; economic, environmental, and human health impacts; management techniques, and laws and programs for management, research, and public education; and
- (g) prepare and issue a national Invasive Species Management Plan.

The Animal and Plant Health Inspection Service (APHIS), Wildlife Services' (WS) National Wildlife Research Center (NWRC) is the only Federal research organization devoted exclusively to resolving conflicts between people and

wildlife through the development of effective, selective, and socially responsible methods, tools, and techniques. As increased urbanization leads to a loss of traditional wildlife habitat, the potential for conflicts between people and wildlife increases. Such conflicts can take many forms, including property and natural resource damage, human health and safety concerns, and disease transmission among wildlife, livestock, and humans.

The high reproductive rate and adaptability of feral swine has resulted in populations that have dramatically increased in size and distribution. This invasive animal now occurs across much of the United States where it causes a range of agricultural and environmental damage through depredation, rooting, and wallowing activities. Furthermore, feral swine compete with native wildlife and livestock for habitats, are carriers of exotic and endemic diseases, and transmit parasites to livestock and humans. Feral swine are considered a major emerging threat to American agriculture (Seward et al. 2004). Recent data shows that the proportions of U.S. counties with agricultural production that also have feral swine present are increasing. Over the period of 1998–2013, the proportion of counties with hog, and crop production that are affected by feral swine has increased. Feral swine damage crops through direct consumption of crops and other behaviors, such as rooting, trampling, and wallowing, which can destroy fields or reduce productivity. Field crops commonly damaged by feral swine include soybeans, corn, sorghum, wheat, oats, peanuts, and rice, among others. Rooting can affect the plant composition of a pasture by promoting the growth of undesirable plants where hogs have destroyed desirable forage grasses. Once pastures are degraded in this way, landowners must spend considerable money and time restoring them to pre-swine conditions (Whitehouse 1999, Mapston 2004).

The benchmark survey will be conducted in 2015 in the 11 States (Alabama, Arkansas, California, Florida, Georgia, Louisiana, North Carolina, Mississippi, Missouri, South Carolina, and Texas) that have high feral swine densities and a significant presence of corn, soybeans, wheat, rice, peanuts, or sorghum (Texas only). The initial survey will be used to create a benchmark for the following objectives, as outlined by APHIS.

For producers of corn, soybeans, wheat, rice, peanuts, and sorghum in each of the surveyed states:

1. Determine the monetary loss from crop damage caused by feral swine.
2. Determine the monetary loss of livestock caused by feral swine.
3. Determine the monetary loss from property damage caused by feral swine.

4. Determine costs incurred for feral swine controls. Control costs that will be measured include costs for hunting, trapping, fencing, and repellents. No data will be collected on the use of chemical or physical contraception.
5. Determine the total net income from allowing the hunting of feral swine on their operations. (Some States allow farmers to charge fees for allowing people to hunt feral swine on their land.)

Based on the results of this survey, there may be a follow-up survey to measure the effectiveness of control measures implemented by Wildlife Services. This follow-up survey will also be contingent upon availability of funding.

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 purpose of the proposed survey is to develop national and State estimates of the costs of feral swine damage to agriculture, animal health, and property, as well as costs of controls and benefits from feral swine hunting. These estimates will be used by APHIS to determine which areas have the greatest amount of damage and where to focus efforts at dealing with the feral swine problem. Financial costs will be measured because these are easily comparable across different states and commodities.

Given the wide range of damages covered in the survey, and the fact that we are relying on estimates based on human memory, there may be compound problems that are difficult to quantify or to identify a single cause. APHIS representatives and NASS survey methodologists recognize this and took care to design the questionnaire to target only damage and losses directly attributable to feral swine.

The feral swine survey is designed to establish crucial baseline levels of damage to American producers of economically important crops. APHIS seeks to work cooperatively and with the assistance of other agencies at the international, Federal, State, Territorial, Tribal, and local levels, and with the cooperation of private management interests, to provide a system for

allocation of project resources, and to identify management methods which may be used to address feral swine damage.

- 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.**

NASS's Questionnaire Repository System (QRS) was built to enable the creation of comparable paper and web survey instruments for almost any survey. However, due to time and cost constraints, NASS did not develop an internet version for this survey. However, there is a computer assisted telephone interview (CATI) for data collection from non-respondents to the mail questionnaire.

- 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 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. There have been some recent studies attempting to quantify the damage done by feral swine, but those are at the State-level only. The most recent national-level estimates of agricultural losses from feral swine are from 2004 and 2005. There are no current surveys as comprehensive as this one. APHIS needs current data that is comparable across all affected States.

- 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.**

This information collection will not have a significant economic impact on small entities.

- 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.**

This Information Collection Request (ICR) is for a one time survey to be

conducted during the next three years. This survey is necessary in order to complete the mission of the USDA/Feral Swine Damage Management (FSDM) program, which is to reduce the current level of feral swine damage to American agriculture. This benchmark study will be used to determine the extent of damage caused by feral swine in the 11 target States. APHIS in conjunction with State and local governments will use the data collected by this survey to focus their efforts on reducing or at least restricting the damages caused by feral swine. In the absence of this survey it will be impossible to measure progress and the value of the services provided by FSDM. This survey may need to be repeated in three years to measure the effectiveness of the FSDM programs.

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 February 2, 2015 on pages 5502 – 5503. NASS received two public comments, both are from Ms. Jean Public. The comments are attached to this submission.

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.

The National Wildlife Research Center consulted with the following individuals in the development of their survey.

Bobby Acord
Acord Consulting, LLC
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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 kept confidential. U.S. Code Title 18, Section 1905 and U.S. Code Title 7, Section 2276 provide for the 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 and NASS contractors comply with OMB Implementation Guidance, "Implementation Guidance for Title V of the E-Government Act, Confidential Information Protection and Statistical Efficiency Act of 2002 (CIPSEA), (Public Law 107-347). CIPSEA supports NASS' 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 CIPSEA Pledge statement will appear on all future NASS questionnaires.

The information you provide will be used for statistical purposes only. In accordance with the Confidential Information Protection provisions of Title V, Subtitle A, Public Law 107–347 and other applicable Federal laws, your responses will be kept confidential and will not be disclosed in identifiable form to anyone other than employees or agents. By law, every employee and agent has taken an oath and is subject to a jail term, a fine, or both if he or she willfully discloses ANY identifiable information about you or your operation.

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 hours based on the average completion time per questionnaire are summarized below.

Cost to the public for completing the questionnaire is assumed to be comparable to the hourly rate of those requesting the data. Average annual reporting time of 6,192 hours, are multiplied by \$25 per hour for a total annual cost to the public of \$154,800. NASS regularly checks the Bureau of Labor Statistics' [Occupational Employment Statistics](#). Mean wage rates for bookkeepers, farm managers, and farm supervisors are averaged to obtain the wage for the burden cost. The May, 2013, mean wage for bookkeepers is \$17.91. The mean wage for farm managers is \$35.20. The mean wage for farm supervisors is \$22.09. The mean wage of the three is \$25.07.

Feral Pig Survey - Burden Estimate 2015 - 2017											
Survey	Sample Size	Freq	Responses				Non-response				Total Burden Hours
			Resp. Count	Freq x Count	Min./ Resp.	Burden Hours	Non- resp. Count	Freq. x Count	Min./ Nonr.	Burden Hours	
Questionnaires											
Feral Pig Survey - Mailing	10,800	1	2,160	2,160	30	1,080	8,640	8,640	2	288	1,368
Phone and Field Enumeration for Non-response	8,640	1	6,480	6,480	30	3,240	2,160	2,160	2	72	3,312
Total	10,800		8,640	8,640		4,320	10,800	10,800		360	4,680
Publicity Materials Mailed with Questionnaire											
Cover Letter, Information Brochure, and EDR instructions	10,800	1	8,640	8,640	10	1,440	2,160	2,160	2	72	1,512
Total	0		8,640	8,640		1,440	2,160	2,160		72	1,512
Totals	10,800		8,640	8,640		5,760	2,160	10,800		432	6,192

* This survey will only be conducted once during the three year approval period. Potentially, this survey will be repeated every three years.

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 Feral Swine Survey is approximately \$190,200. About \$160,000 is for Federal salaries, \$17,000 for telephone and field enumeration by National Association of State Departments of Agriculture (NASDA) enumerators, and \$13,200 for printing, postage, data processing, etc.

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).

This is a new data collection package so all changes are due to program changes.

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.

Questionnaires will be mailed around the 16th of June, 2015. Operations that do not respond by mail or internet within a couple of weeks will be attempted by phone or personal enumeration. After data collection is complete, the data will be edited for reasonableness and completeness. The data will then be summarized. The summarized data will be shared with The Animal and Plant Health Inspection Service (APHIS), Wildlife Services' (WS) National Wildlife Research Center (NWRC). The data will be published around October, 2015. The proposed tables that will be included in the publication are attached to this information collection request.

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.

April 2015

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