

## **SUPPLEMENTAL SUPPORTING STATEMENT Part A**

### **ARMS III**

#### **Substantive Change**

**OMB No. 0535-0218**

This substantive change is being submitted as a supplemental supporting statement to the Agricultural Resource Management Surveys. This document identifies changes made to the Phase III questionnaires conducted in 2019 and 2020 referencing production years 2018 and 2019 respectively.

#### **A. JUSTIFICATION**

##### **1. Circumstances making collection of information necessary.**

NASS is requesting a substantive change to the ARMS and Chemical Use Survey docket (0535-0218) to accommodate changes to several of the ARMS III questionnaires.

NASS conducts the ARMS III program as a part of a cooperative agreement with the USDA Economic Research Service (ERS). The Costs and Returns (Phase III) surveys collect both whole farm data and commodity specific data. The majority of the questions that are asked are a part of the ARMS core program and rarely have any changes made to them. The cooperative agreement allows ERS to ask additional research questions each year to address changes in the farming industry. The OMB approval process is for a three year period, so NASS projects ahead with the surveys and commodities that will be targeted for the next three years. Each year NASS will provide proposed changes to the questionnaires to OMB for approval. Attached to this submission are listings of the changes made to the 2018 and 2019 questionnaires.

##### **2. How, by whom, and for what purpose information is to be used.**

There are no changes to the long list of potential people who will be using the data collected by the ARMS III surveys. The additional research questions will enhance research into additional topics that are impacting US farms and ranches.

##### **3. Use of improved information technology.**

The ARMS III surveys are done primarily by field enumeration. However, there are internet versions of the questionnaires that allows farmers and ranchers to respond on line.

**4. Efforts to identify duplication.**

There are no changes from the original approval related to duplication reduction.

**5. Methods to minimize burden of small businesses.**

NASS incorporated additional screening questions and skip patterns to help minimize additional burden as much as possible.

**6. Consequence if information collection were less frequent.**

There are no changes to the frequency of these surveys than was originally approved.

**7. Special circumstances.**

No special circumstances are associated with this information collection.

**8. Federal register notice and consultation with outside persons.**

Not applicable.

**9. Payments or gifts to respondents.**

No payments or gifts will be given to respondents.

**10. Confidentiality provided to respondents.**

Confidentiality will be provided to respondents in accordance with the Confidential Information Protection and Statistical Efficiency Act (CIPSEA) of 2002. All confidentiality protections that are applied to all products released from these surveys will remain the same as originally approved.

**11. Questions of a sensitive nature.**

No questions of sensitive nature will be asked.

**12. Hour burden and annualized costs to respondents.**

There are no changes to the burden hours, responses or costs to the public from what was approved in the original docket.

# Original Burden Tables

Respondent Burden for ARMS and Chemical Use Surveys for July 2018 - June 2021 1/												
Survey Year	Survey	Sample Size 5/	Waves of Data Collection	Responses				Non-response				Total Burden Hours
				Resp. Count	Waves X Count	Min./ Resp.	Burden Hours	Nonresp Count	Waves X Count	Min./ Nonr.	Burden Hours	
<b>Agricultural Resource Management Surveys (ARMS) Phases I, II, &amp; III</b>												
2018	Integrated Screening Survey (Phase I) (Mail) 1/ 4/	-	1	-	-	15	-	-	-	2	-	-
	ARMS Screening Survey (Phase I) (Enumeration) 6/	-	1	-	-	15	-	-	-	2	-	-
	Production Practices Report (Phase II) 2/	7,500	1	6,000	6,000	35	3,500	1,500	1,500	2	50	3,550
	Production Practices & Costs Report (Phase II) 2/	5,000	1	4,000	4,000	65	4,333	1,000	1,000	2	33	4,366
	Costs & Returns Report Report (Phase III) (Mail) 3/	-	1	-	-	100	-	-	-	2	-	-
	Costs & Returns Report Report (Phase III) (Enumeration) 3/	-	1	-	-	100	-	-	-	2	-	-
<b>2018 Total</b>		<b>12,500</b>		<b>10,000</b>	<b>10,000</b>		<b>7,833</b>	<b>2,500</b>	<b>2,500</b>		<b>83</b>	<b>7,916</b>
2019	Integrated Screening Survey (Phase I) (Mail) 1/ 4/	100,000	1	20,000	20,000	15	5,000	80,000	80,000	2	2,667	7,667
	ARMS Screening Survey (Phase I) (Enumeration) 6/	80,000	1	60,000	60,000	15	15,000	20,000	20,000	2	667	15,667
	Production Practices Report (Phase II) 2/	7,500	1	6,000	6,000	35	3,500	1,500	1,500	2	50	3,550
	Production Practices & Costs Report (Phase II) 2/	5,000	1	4,000	4,000	65	4,333	1,000	1,000	2	33	4,366
	Costs & Returns Report Report (Phase III) (Mail) 3/	35,000	1	7,000	7,000	100	11,667	28,000	28,000	2	933	12,600
	Costs & Returns Report Report (Phase III) (Enumeration) 3/	30,000	1	22,500	22,500	100	37,500	7,500	7,500	2	250	37,750
<b>2019 Total</b>		<b>100,000</b>		<b>119,500</b>	<b>119,500</b>		<b>77,000</b>	<b>138,000</b>	<b>138,000</b>		<b>4,600</b>	<b>81,600</b>
2020	ARMS Screening Survey (Phase I) (Mail) 1/	110,000	1	22,000	22,000	15	5,500	88,000	88,000	2	2,933	8,433
	ARMS Screening Survey (Phase I) (Enumeration) 6/	88,000	1	66,000	66,000	15	16,500	22,000	22,000	2	733	17,233
	Production Practices Report (Phase II) 2/	7,500	1	6,000	6,000	35	3,500	1,500	1,500	2	50	3,550
	Production Practices & Costs Report (Phase II) 2/	5,000	1	4,000	4,000	65	4,333	1,000	1,000	2	33	4,366
	Costs & Returns Report (Phase III) (Mail) 3/	35,000	1	8,750	8,750	100	14,583	26,250	26,250	2	875	15,458
	Costs & Returns Report (Phase III) (Enumeration) 3/	30,000	1	22,200	22,200	100	37,000	7,800	7,800	2	260	37,260
<b>2020 Total</b>		<b>110,000</b>		<b>128,950</b>	<b>128,950</b>		<b>81,416</b>	<b>146,550</b>	<b>146,550</b>		<b>4,884</b>	<b>86,300</b>
2021	Integrated Screening Survey (Phase I) (Mail) 1/ 4/	100,000	1	20,000	20,000	15	5,000	80,000	80,000	2	2,667	7,667
	ARMS Screening Survey (Phase I) (Enumeration) 6/	80,000	1	60,000	60,000	15	15,000	20,000	20,000	2	667	15,667
	Production Practices Report (Phase II) 2/	-	1	-	-	35	-	-	-	2	-	-
	Production Practices & Costs Report (Phase II) 2/	-	1	-	-	65	-	-	-	2	-	-
	Costs & Returns Report (Phase III) (Mail) 3/	35,000	1	7,000	7,000	100	11,667	28,000	28,000	2	933	12,600
	Costs & Returns Report (Phase III) (Enumeration) 3/	30,000	1	22,500	22,500	100	37,500	7,500	7,500	2	250	37,750
<b>2021 Total</b>		<b>100,000</b>		<b>109,500</b>	<b>109,500</b>		<b>69,167</b>	<b>135,500</b>	<b>135,500</b>		<b>4,517</b>	<b>73,684</b>
<b>Cognitive Testing</b>												
3 years	Testing approximately 50 ARMS and/or Chemical Use questionnaires per year	50	1	50	50	90	75	-	-		-	75

1/ ARMS and Chemical Use surveys are conducted on a cyclical basis that does not follow a calendar year, but instead follows the crop production year. The ARMS phase 1 is conducted in the Spring and early Summer for that crop year. The ARMS II and Chemical Use Surveys are conducted in the Autumn for the current production cycle. The ARMS III is conducted the following year for the previous years expenses and income for both whole farm and commodity specific data.

2/ Phase II surveys are all conducted as face to face interviews. Field enumerators can copy much of the chemical use data from the farm operator's record books. The remainder of the data can be obtained directly from the farm operator. The chemical data is related to a specific field selected of each farm sampled for this survey.

3/ All Phase III questionnaires will be attempted by mail with phone and field enumeration for non-respondents. In 2017 respondents have the option of completing the ARMS III questionnaire and not having to complete the Census of Agriculture. The ARMS III questionnaire contains the same essential questions as the Census.

4/ In 2016 and 2018 the ARMS Phase I Screener will also be used to pre-screen for the Vegetable Chemical Use Survey.

5/ The ARMS Phases II & III are both subsampled from the Phase I Screening Survey.

6/ Phase I is available by internet, mail, phone and face to face enumeration. The questionnaires are mailed out with pre-survey letter and internet instructions. Historically we have received approximately a 20% response rate by mail and EDR combined. This is followed by phone and personal enumeration for non-respondents.

**0535-0218 - Projected Respondent Burden for EPAs in 2018 - 2020**

(External Project Agreement "EPA" are surveys that NASS conducts under cooperative agreements with State agencies.)

State	Commodity	Sector	Survey Name	Sample Size	Waves of Data Collection	Resp. Count	Waves X Count	Min. / Resp	Burden Hours	Non-Resp Count	Waves X Count	Min / Non Resp.	Burden Hours	Total Burden Hours
Mississippi	All (crops)	Growers	Screener	1,350	1	473	473	15	118	878	878	2	29	147
Mississippi	Wheat	Growers	Cropping Practices - Wheat	70	1	56	56	90	84	14	14	2	0	84
Mississippi	Corn	Growers	Cropping Practices - Corn	115	1	92	92	90	138	23	23	2	1	139
Mississippi	Rice	Growers	Cropping Practices - Rice	40	1	32	32	90	48	8	8	2	0	48
Mississippi	Cotton	Growers	Cropping Practices - Cotton	90	1	72	72	90	108	18	18	2	1	109
Mississippi	Soybeans	Growers	Cropping Practices - Soybeans	115	1	92	92	90	138	23	23	2	1	139
Minnesota	Corn, Soybeans, Wheat, Hay	Growers	Pesticide & Fertilizer Use in Minnesota	8,400	1	6,720	6,720	30	3,360	1,680	1,680	2	56	3,416
Maryland	All	Pesticide Applicators	Maryland Pesticide Usage Survey (Mail)	6,800	1	2,040	2,040	45	1,530	4,760	4,760	2	159	1,689
			Maryland Pesticide Usage Survey (Phone Follow-Up)	4,760	1	3,332	3,332	45	2,499	1,428	1,428	2	48	2,547
Illinois	Cultural Practices	Crops	Nutrient Loss Reduction Strategy (1st Mailing)	1,900	1	570	570	25	238	1,330	1,330	2	44	282
			Nutrient Loss Reduction Strategy, (2nd Mailing)	1,330	1	200	200	25	83	1,131	1,131	2	38	121
			Nutrient Loss Reduction Strategy (Phone Follow-Up)	1,131	1	678	678	25	283	452	452	2	15	298

Publicity Materials <sup>1</sup>														
Cover Letter and/or EDR Instruction Sheet				18,880	1	14,356	14,356	5	1,196	4,524	4,524	2	151	1,347
Cognitive Testing														
Questionnaire Testing				30	1	30	30	120	60	0	0	2	0	60
<b>TOTALS</b>				<b>18,910</b>		<b>14,386</b>	<b>14,386</b>		<b>9,883</b>	<b>4,524</b>	<b>11,744</b>		<b>543</b>	<b>10,426</b>

<sup>1</sup> The publicity materials for these reimbursable surveys is not included in the publicity materials on the third page. That number is for the Federally Funded surveys only.

Respondent Burden for ARMS and Chemical Use Surveys for July 2018 - June 2021 1/												
Survey Year	Survey	Sample Size	Waves of Data Collection	Responses				Non-response				Total Burden Hours
				Resp. Count	Waves X Count	Min./ Resp.	Burden Hours	Nonresp Count	Waves X Count	Min./ Nonr.	Burden Hours	
<b>Contractor Expense Survey 3/</b>												
2019	Contractor Expense Survey	100	1	80	80	45	60	20	20	2	1	61
2020	Contractor Expense Survey	100	1	80	80	45	60	20	20	2	1	61
2021	Contractor Expense Survey	100	1	80	80	45	60	20	20	2	1	61
<b>Total</b>		300		240	240		180	60	60		3	183
<b>Chemical Use Surveys - NASS Program Only</b>												
2018	Vegetable Chem Use	4,200	1	3,360	3,360	45	2,520	840	840	2	28	2,548
2019	Fruit Chem Use	6,700	1	5,360	5,360	45	4,020	1,340	1,340	2	45	4,065
2020	Vegetable Chem Use	4,200	1	3,360	3,360	45	2,520	840	840	2	28	2,548
<b>Total</b>		15,100		12,080	12,080		9,060	3,020	3,020		101	9,161
<b>Microbial Food Safety Practices -- Packer Survey</b>												
Discontinued	Microbial Food Safety Practices -- Packer Survey	-	1	-	-	30	-	-	-	2	-	-
<b>Total</b>		-		-	-		-	-	-		-	-
<b>Publicity Materials for ALL surveys 2/</b>												
2018	All materials for all versions 4/	16,700	1	13,360	13,360	5	1,113	3,340	3,340	2	111	1,224
2019	All materials for all versions	123,500	1	98,800	98,800	5	8,233	24,700	24,700	2	823	9,056
2020	All materials for all versions	115,800	1	92,640	92,640	5	7,720	23,160	23,160	2	772	8,492
2021	All materials for all versions	100,250	1	80,200	80,200	5	6,683	20,050	20,050	2	668	7,351
<b>Total</b>		356,250		285,000	285,000		23,749	71,250	71,250		2,374	26,123
<b>Quality Control Survey (Telephone Only) - Recontact operators to verify quality of NASDA enumerators. 4/</b>												
2019	Quality Control Worksheet (phone only)	1,500	1	1,500	1,500	5	125	-	-		-	125
2020	Quality Control Worksheet (phone only)	1,500	1	1,500	1,500	5	125	-	-		-	125
2021	Quality Control Worksheet (phone only)	1,500	1	1,500	1,500	5	125	-	-		-	125
<b>Total</b>		4,500		4,500	4,500		375				-	375
<b>Annual Totals 2/</b>												
2018	Annual Totals 4/	35,660	1	27,796	27,796		21,349	7,864	15,924		765	22,114
2019	Annual Totals	125,760	1	100,618	140,876		99,396	25,142	150,604		6,012	105,408
2020	Annual Totals	133,260	1	106,618	148,326		101,799	26,642	159,154		6,228	108,027
2021	Annual Totals	100,150	1	80,120	111,130		76,110	20,030	135,520		5,186	81,296
<b>Annual Averages</b>		131,610		105,051	142,710		99,551	26,559	153,734		6,064	105,615
Average Burden per Respondent per Year		0.80248461			1.35848255		0.69757555		5.78840		0.03944	

1/ ARMS and Chemical Use surveys are conducted on a cyclical basis that does not follow a calendar year, but instead follows the crop production year. The ARMS phase 1 is conducted in the Spring and early Summer for that crop year. The ARMS II and Chemical Use Surveys are conducted in the Autumn for the current production cycle. The ARMS III is conducted the following year for the previous years expenses and income for both whole farm and commodity specific data.

2/ For annual totals the sample size does not include the counts from the publicity materials, since it is the same operators. However, the burden counts do include the burden associated with the publicity materials. The surveys that are attempted by mail will have the publicity materials included with the initial mailing. No publicity materials are sent out with the Contractor Expense Surveys.

3/ Contractor Expense Survey is conducted to collect and summarize the amount of farm input provided by contractors. This data is summarized and used to complete surveys when the farm operator cannot provide the contractor inputs for their farming operation.

4/ Publicity materials are not sent out to sampled operations that were contacted for a quality control survey.

**13. Total annual cost burden to respondents.**

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

**14. Annualized costs to federal government.**

There are no changes to the total annual cost or \$18 million for the Agricultural Resource Management Surveys and the Chemical Use programs.

**15. Reasons for changes in burden.**

There are no changes in respondent burden.

**16. Tabulation, analysis, and publication plans.**

The revised questions will be incorporated into the existing publications that will be issued by either NASS or ERS.

Agricultural Resource Management Survey (ARMS) Index page

<https://www.ers.usda.gov/data-products/arms-farm-financial-and-crop-production-practices/uses-and-publications/#uses>

Agricultural Resource Management Survey, Phase III (current and historical)

*Farm Production Expenditures*

<http://usda.mannlib.cornell.edu/MannUsda/viewDocumentInfo.do?documentID=1066>

In the NASS Quick Stats program, data users can have access to published data from current surveys. Quick Stats provides an overview of the data for most of the major surveys conducted by NASS. In this website users will also have access to predefined queries which will allow them to bring up various data relationships quickly for the commodities of interest.

[https://www.nass.usda.gov/Data\\_and\\_Statistics/Pre-Defined\\_Queries/index.php](https://www.nass.usda.gov/Data_and_Statistics/Pre-Defined_Queries/index.php)

**17. Request for approval of non-display of expiration date.**

No request is being made for approval of non-display of the expiration date.

**18. Exceptions to certification statement.**

No exceptions to the certification statement are requested.

September 2019