

AGRICULTURAL RESOURCE MANAGEMENT SURVEY

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COTTON PRODUCTION PRACTICES REPORT FOR 2017

| | | | | |
|----------------------|----------------------|--------------------|------------------------|----------------------|
| VERSION 79 | POID _____ | TRACT 01 | SUBTRACT ___ | C-TYPE 106 |
|----------------------|----------------------|--------------------|------------------------|----------------------|

| CONTACT RECORD | | |
|----------------|------|-------|
| DATE | TIME | NOTES |
| | | |
| | | |
| | | |

INTRODUCTION:
[Introduce yourself, and ask for the operator. Rephrase in your own words.]

We are collecting information on the practices used to produce cotton and need your help to make the information as accurate as possible. 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. Response is voluntary.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OBM control number. The valid OMB control number for this information collection is 0535-0218. The time required to complete this information collection is estimated to average 35 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

We encourage you to refer to your farm records during the interview.

BEGINNING TIME H H M M

[MILITARY] 0004 _____

SCREENING BOX

0006

[Name, address and partners verified and updated if necessary]

| | |
|-----------------------------|-----------------------------|
| POID _____ | POID _____ |
| PARTNER NAME | PARTNER NAME |
| ADDRESS | ADDRESS |
| CITY STATE ZIP PHONE NUMBER | CITY STATE ZIP PHONE NUMBER |
| POID _____ | POID _____ |
| PARTNER NAME | PARTNER NAME |
| ADDRESS | ADDRESS |
| CITY STATE ZIP PHONE NUMBER | CITY STATE ZIP PHONE NUMBER |

A

FIELD SELECTION

A

TOTAL PLANTED ACRES

0050

1. How many acres of cotton did this operation plant for the 2017 crop year?

[If no acres planted, review Screening Survey Information Form, make notes, then go to item 4 on back page.]

I will follow a simple procedure to make a random selection from the cotton fields planted for the 2017 crop.

TOTAL NUMBER OF FIELDS PLANTED

0020

2. What is the TOTAL number of cotton fields that were planted on this operation?

[If only one field, enter "1" and go to item 5].

3. Please list these fields according to identifying name/number or describe each field. Then I will tell you which field has been selected.

[If there are more than 18 fields, make sure item 2 is TOTAL fields planted and list only the 18 fields closest to the operator's permanent residence. If respondent is unable to identify or describe the fields, use the Field Selection Grid Supplement.]

FIELD NAME, NUMBER OR DESCRIPTION

FIELD NAME, NUMBER OR DESCRIPTION

- 1 _____
- 2 _____
- 3 _____
- 4 _____
- 5 _____
- 6 _____
- 7 _____
- 8 _____
- 9 _____

- 10 _____
- 11 _____
- 12 _____
- 13 _____
- 14 _____
- 15 _____
- 16 _____
- 17 _____
- 18 _____

APPLY 'RANDOM NUMBER' LABEL HERE

OFFICE USE
OY Field Substituted

0022

SELECTED FIELD NUMBER

0021

4. [ENUMERATOR ACTION: Circle the pair of numbers on the above label associated with the last numbered field in item 3. Select the field according to the number you circled on the label, and record the selected number. If only 1 field, enter 1]

5. The field selected is _____ (field name/number/description).

During this interview, the cotton questions will be about this selected cotton field.

[Be sure the operator can identify the selected field.]

ACRES

1301

6. How many acres of cotton were planted in this field for the 2017 crop?

C NUTRIENT or FERTILIZER APPLICATIONS---SELECTED FIELD

C

1. **Were commercial nutrients or fertilizers applied to this field for the 2017 cotton crop? (Include those from operators, landlords, and contractors.)**..... **YES = 1**
2. [If COMMERCIAL nutrient or fertilizer applied, continue, else go to Section D.]

| CODE | EDIT TABLE |
|------|------------|
| 0202 | 0200 |

3. **How many commercial nutrient or fertilizer applications were made to this field for the 2017 crop? (Include applications made by airplanes and custom applicators).**.....

| NUMBER |
|--------|
| 0203 |

4. **Now I need to record information for each application.**

| CHECKLIST | |
|---|--|
| <p><input checked="" type="checkbox"/> INCLUDE</p> <p><input type="checkbox"/> Custom applied nutrients and fertilizers</p> <p><input type="checkbox"/> Nutrients or fertilizers applied in the fall of 2016 and those applied earlier if this field was fallow in 2016.</p> <p><input type="checkbox"/> Commercially prepared manure or compost</p> | <p><input checked="" type="checkbox"/> EXCLUDE</p> <p><input type="checkbox"/> Micronutrients</p> <p><input type="checkbox"/> Unprocessed manure</p> <p><input type="checkbox"/> Nutrients or fertilizers applied to previous crops in this field</p> <p><input type="checkbox"/> Lime and Gypsum/landplaster</p> |

| | | |
|---------------------------|-----------|------|
| Office Use Lines in Table | TABLE 001 | 0299 |
|---------------------------|-----------|------|

| APPLICATION CODES for COLUMN 6 | |
|---|--------------------------------|
| 1 Broadcast, ground without incorporation | 5 In irrigation water |
| 2 Broadcast, ground with incorporation | 6 Chisel/Injected or knifed in |
| 3 Broadcast, by aircraft | 7 Banded in or over row |
| 4 In seed furrow | 8 Foliar or directed spray |

| LINE | 2 MATERIALS USED <i>[Enter percentage analysis or actual pounds of plant nutrients applied per acre.]</i> <i>[Show Common Nutrients or Fertilizers in Respondent Booklet.]</i> | | | | 3 What quantity was applied per acre? <i>[Leave this column blank if actual nutrients were reported.]</i> | 4 [Enter material code.] 1 Pounds 12 Gallons 19 Pounds of actual nutrients | 5 When was this applied? 1 In the fall before seeding 2 In the spring before seeding 3 At seeding 4 After seeding | 6 How was this applied? <i>[Refer to code list above.]</i> | 7 How many acres were treated in this application? ACRES |
|------|--|---|-------------------------|----------|--|---|---|---|---|
| | N Nitrogen | P ₂ O ₅ Phosphate | K ₂ O Potash | S Sulfur | | | | | |
| 01 | 31 | 32 | 33 | 34 | 36 | 37 | 38 | 39 | 40 |
| 02 | 31 | 32 | 33 | 34 | 36 | 37 | 38 | 39 | 40 |
| 03 | 31 | 32 | 33 | 34 | 36 | 37 | 38 | 39 | 40 |
| 04 | 31 | 32 | 33 | 34 | 36 | 37 | 38 | 39 | 40 |
| 05 | 31 | 32 | 33 | 34 | 36 | 37 | 38 | 39 | 40 |
| 06 | 31 | 32 | 33 | 34 | 36 | 37 | 38 | 39 | 40 |
| 07 | 31 | 32 | 33 | 34 | 36 | 37 | 38 | 39 | 40 |
| 08 | 31 | 32 | 33 | 34 | 36 | 37 | 38 | 39 | 40 |

D BIOCONTROL or PESTICIDE APPLICATIONS---SELECTED FIELD

D

Now I have some questions about all the biocontrols or pesticides used on this field for the 2017 cotton crop including both custom applications and applications made by this operation.

1. Were any herbicides, insecticides, fungicides or other biocontrols or pesticides used on this cotton field for the 2017 crop?
 [Probe for applications made in the fall of 2016 (and those made earlier if this field was fallow)].

| | |
|------|------------|
| CODE | EDIT TABLE |
| 0302 | 0300 |

YES = 1

If no biocontrols or pesticides applied, go to Section E.

| | |
|--|--|
| Include defoliant, fungicides, herbicides, insecticides, and other pesticides. Include biological and botanical pesticides. | Exclude nutrients or fertilizers reported earlier and seed treatments. |
|--|--|

| | | |
|------------------------------|--------------|------|
| OFFICE USE LINES IN TABLE | TABLE 001 | 0399 |
|------------------------------|--------------|------|

| CHEMICAL PRODUCT NAME | L I N E | 2 | 3 | 4 | 5 | 6 | OR | 7 | 8 |
|-----------------------------|------------------|--|--|---|--|--|--|--|---|
| | | What products were applied to this field? [Show product codes from Respondent Booklet.] | Was this product bought in liquid or dry form? [Enter L or D] | Was this part of a tank mix? [If tank mix, enter line number of first product in mix.] | When was this applied? 1 BEFORE planting 3 AT planting 4 AFTER Planting 5 DEFOLIATION prior to harvest | How much was applied per acre per application? | What was the total amount applied per application in this field? | [Enter unit code.] 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Ounces 28 Dry Ounces 30 Grams | |
| | 01 | 61 | | 63 | 64 | 65 | 73 | 74 | |
| | 02 | 61 | | 63 | 64 | 65 | 73 | 74 | |
| | 03 | 61 | | 63 | 64 | 65 | 73 | 74 | |
| | 04 | 61 | | 63 | 64 | 65 | 73 | 74 | |
| | 05 | 61 | | 63 | 64 | 65 | 73 | 74 | |
| | 06 | 61 | | 63 | 64 | 65 | 73 | 74 | |
| | 07 | 61 | | 63 | 64 | 65 | 73 | 74 | |
| | 08 | 61 | | 63 | 64 | 65 | 73 | 74 | |
| | 09 | 61 | | 63 | 64 | 65 | 73 | 74 | |
| | 10 | 61 | | 63 | 64 | 65 | 73 | 74 | |
| | 11 | 61 | | 63 | 64 | 65 | 73 | 74 | |
| | 12 | 61 | | 63 | 64 | 65 | 73 | 74 | |
| | 13 | 61 | | 63 | 64 | 65 | 73 | 74 | |
| | 14 | 61 | | 63 | 64 | 65 | 73 | 74 | |

2. [For biocontrols or pesticides not listed in Respondent Booklet, specify---]

| LINE | Pesticide Type (Herbicide, Insecticide Fungicide, etc.) | EPA No. or Trade name and Formulation | Form Purchased (Liquid or Dry) | Where Purchased [Ask ONLY if EPA No. cannot be reported.] |
|------|---|--|-----------------------------------|---|
| | | | | |
| | | | | |
| | | | | |

APPLICATIONS CODES for column 9

| | |
|---|--------------------------------|
| 1 Broadcast, ground without incorporation | 6 Chisel/injected or knifed in |
| 2 Broadcast, ground with incorporation | 7 Banded in or over row |
| 3 Broadcast, by aircraft | 8 Foliar or directed spray |
| 4 In Seed furrow | 9 Spot treatments |
| 5 In Irrigation water | |

| L I N E | 9 | 10 | 11 | 12 |
|------------------|---|---|--|---|
| | How was this product applied? [Enter code from above.] | How many acres in this field were treated with this product? ACRES | How many times was it applied? NUMBER | Were these applications made by – 1 Operator, partner or family member? 2 Custom applicator? 3 Employee/Other? |
| 01 | 76 | 77 .____ | 79 | 80 |
| 02 | 76 | 77 .____ | 79 | 80 |
| 03 | 76 | 77 .____ | 79 | 80 |
| 04 | 76 | 77 .____ | 79 | 80 |
| 05 | 76 | 77 .____ | 79 | 80 |
| 06 | 76 | 77 .____ | 79 | 80 |
| 07 | 76 | 77 .____ | 79 | 80 |
| 08 | 76 | 77 .____ | 79 | 80 |
| 09 | 76 | 77 .____ | 79 | 80 |
| 10 | 76 | 77 .____ | 79 | 80 |
| 11 | 76 | 77 .____ | 79 | 80 |
| 12 | 76 | 77 .____ | 79 | 80 |
| 13 | 76 | 77 .____ | 79 | 80 |
| 14 | 76 | 77 .____ | 79 | 80 |

E PEST MANAGEMENT PRACTICES---SELECTED FIELD

E

Now I have some questions about your pest management decisions and practices used on this field for the 2017 cotton crop. By pests, we mean WEEDS, INSECTS, and DISEASES.

1. [Enumerator Action: Were PESTICIDE APPLICATIONS reported in Section D?]

- YES - [Continue.] NO - [Go to item 10.]

| | | CODE |
|--|---------|------|
| 2. Was weather data used to assist in determining either the need or when to make pesticide applications? | YES = 1 | 0800 |
| 3. Were any biological pesticides such as Bt (<i>Bacillus thuringiensis</i>), insect growth regulators neem or other natural/biological based products sprayed or applied to manage pests in this field? | YES = 1 | 0801 |
| 4. Were pesticides with different mechanisms of action rotated or tank mixed for the primary purpose of keeping pests from becoming resistant to pesticides? | YES = 1 | 0802 |

10. In 2017, how was this field primarily scouted for insects, weeds, diseases, and/or beneficial organisms?

- 1 By deliberately going to the field specifically for scouting activities [Enter code 1 and go to item 11.]
- 2 By conducting general observations while performing routine tasks [Enter code 2 and go to item 13.]
- 3 This field was not scouted. [Enter code 3 and go to item 18.]

| | | CODE |
|-------|--|------|
| | | 0808 |

11. Was an established scouting process (systematic sampling, recording counts, etc.) used or were insect traps used in this field?

YES = 1

0809

12. Was scouting for pests done in this field due to---

| | | |
|------------------------------------|---------|------|
| a. a pest advisory warning? | YES = 1 | 0810 |
| b. a pest development model? | YES = 1 | 0811 |

| 1 | 2 | 3 |
|--|--|--|
| <p>13. Was this cotton field scouted for--</p> <p style="text-align: right;">YES = 1</p> | <p>[If YES, ask--] What was the infestation level for [column 1]? –</p> <p>1 Worse than normal 2 Normal 3 Less than normal</p> <p style="text-align: center;">CODE</p> | <p>[If column 1 = YES, ask---] Who did the majority of the scouting for [column 1]---</p> <p>1 Operator, partner or family member 2 An employee 3 Farm supply or chemical dealer 4 Independent crop consultant or commercial scout</p> <p style="text-align: center;">CODE</p> |
| a. weeds? | 0812 | 0813 |
| b. insects or mites? | 0815 | 0816 |
| c. diseases? | 0818 | 0819 |
| | | 0820 |

| | | CODE |
|--|---------|------|
| 15. Were written or electronic records kept for this field to track the activity or numbers of weeds, insects or diseases? | YES = 1 | 0823 |
| 16. Was scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests in field? | YES = 1 | 0824 |
| 17. Did you use field mapping of previous weed problems to assist you in making weed management decisions? | YES = 1 | 0825 |

18. **Did you do any of the following other types of pest management for the specific purpose of managing or reducing the spread of pests in this field?** [Enter code "1" for all that apply.]

| | | CODE |
|----|---|------|
| a. | Use the services of a diagnostic laboratory for pest identification or soil plant tissue pest analysis for this field? | 0841 |
| | YES = 1 | |
| b. | Plow down crop residue (<i>using conventional tillage</i>)? | 0842 |
| | YES = 1 | |
| c. | Remove/burn down crop residue? | 0843 |
| | YES = 1 | |
| d. | Rotate crops in this field during the past 3 years? | 0844 |
| | YES = 1 | |
| e. | Maintain ground covers, mulches, or other physical barriers? | 0845 |
| | YES = 1 | |
| f. | Choose crop variety because of specific resistance to a certain pest? | 0846 |
| | YES = 1 | |
| g. | Use no-till or minimum till? | 0847 |
| | YES = 1 | |
| h. | Plan planting locations to avoid cross infestation of pests? | 0848 |
| | YES = 1 | |
| i. | Adjust planting or harvesting dates? | 0849 |
| | YES = 1 | |
| j. | Chop, spray, mow, plow, or burn field edges, lanes, ditches, roadways, or fence lines? | 0850 |
| | YES = 1 | |
| k. | Clean equipment and field implements after completing field work to reduce the spread of pests? | 0851 |
| | YES = 1 | |
| l. | Adjust row spacing, plant density, or row directions? | 0852 |
| | YES = 1 | |
| m. | Have the seed treated for insect or disease control after you purchased the seed for this field? | 0854 |
| | YES = 1 | |
| n. | Maintain a beneficial insect or vertebrate habitat? | 0855 |
| | YES = 1 | |
| o. | Maintain buffer strips or border rows to isolate organic cotton from non-organic crops or land, or did you take a buffer harvest? | 0856 |
| | YES = 1 | |
| p. | Use a flamer to kill weeds? | 0857 |
| | YES = 1 | |

| | | CODE |
|-----|--|------|
| 19. | Were any beneficial organisms (insects, nematodes, fungi) applied or released in this field to manage pests? | 0853 |
| | YES = 1 | |
| 20. | Were floral lures, attractants, repellants, pheromone traps or other biological pest controls used on this field? | 0858 |
| | YES = 1 | |
| 21. | Was a trap crop (<i>excluding fallow</i>) grown to help manage insects in this field? | 0863 |
| | YES = 1 | |
| 22. | Was this field left fallow in 2016 to help manage insects on this field? | 0864 |
| | YES = 1 | |
| 23. | Were water management practices such as irrigation scheduling, controlled drainage, or treatment of retention water used on this field to manage for pests or toxic producing fungi and bacteria? | 0861 |
| | YES = 1 | |

| Completion Code for Pest Management Data | |
|--|-----|
| 1 Incomplete/Refusal | 500 |

CONCLUSION

1. **Would you like to receive a copy of the results of this survey in the mail?**
 (Results will also be available on the Internet at <http://www.usda.gov/nass/>)..... YES = 1

CODE

9990

2. **ENDING TIME [MILITARY]**.....

HH MM

0005

RECORDS USE

3. *[Did respondent use farm/ranch records to report--]*

a. *[fertilizer data?]*..... YES = 1

b. *[pesticide data?]*..... YES = 1

CODE

0011

0012

SUPPLEMENTS USED

4. *[Record the total number of each type of supplement used to complete this interview.]*.....

FERTILIZER APPLICATIONS

NUMBER

0041

PESTICIDE APPLICATIONS

0042

| | | | | |
|--------------------|---------|----|------|-----------------------|
| Reported by: _____ | 9910 | 17 | 9911 | Telephone(_____)_____ |
| | M M D D | | | |

| R. Unit | SSO 1 | Optional Use | | Eval. | Change | |
|--|-------|---|------|-------------------------|--------|-------|
| 9921 | 9907 | 9906 | 9916 | 9900 | 9985 | |
| Response | | Respondent | | Mode | | Enum. |
| 1-Comp 2-R 3-Inac 4-Office Hold | 9901 | 1-Op/Mgr 2-Sp 3-Acct/Bkpr 4-Partner 9-Other | 9902 | 2-Tel 3-Face-to-Face | 9903 | 9998 |