# AGRICULTURAL RESOURCE MANAGEMENT STUDY
## UPLAND COTTON PRODUCTION PRACTICES REPORT for 2000

### CONTACT RECORD

<table>
<thead>
<tr>
<th>R CODES</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 - COMPLETE</td>
<td></td>
</tr>
<tr>
<td>5 - OUT OF SCOPE</td>
<td></td>
</tr>
<tr>
<td>8 - REFUSAL</td>
<td></td>
</tr>
<tr>
<td>9 - INAC./INCOMPL.</td>
<td></td>
</tr>
</tbody>
</table>

**OPTIONAL**
- 0002
- 0003

### INTRODUCTION

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

We are collecting information on practices to produce upland cotton and need your help to make the information as accurate as possible. Authority for collection of information on the Upland Cotton Production Practices Report is Title 7, Section 2204 of the U.S. Code. This information will be used for economic analysis and to compile and publish estimates for your region and the United States. Response to this survey is confidential and voluntary.

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

### BEGINNING TIME

**[MILITARY]**

0004

### SCREENING BOX

0006

**[ENUMERATOR NOTE: If Screening box is code 1, complete the Screening Supplement. If Screening box is not coded, begin with Section A.]**

### OFFICE USE

Completion Code
- 3 = ZERO TARGET

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

<table>
<thead>
<tr>
<th>POID</th>
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<tbody>
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<table>
<thead>
<tr>
<th>PARTNER NAME</th>
<th>PARTNER NAME</th>
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</thead>
<tbody>
<tr>
<td>ADDRESS</td>
<td>ADDRESS</td>
</tr>
<tr>
<td>CITY</td>
<td>STATE</td>
</tr>
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<th>PARTNER NAME</th>
<th>PARTNER NAME</th>
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<tbody>
<tr>
<td>ADDRESS</td>
<td>ADDRESS</td>
</tr>
<tr>
<td>CITY</td>
<td>STATE</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1. How many acres of upland cotton did this operation plant for the 2000 crop year?
   [• If no acres planted, review Screening Survey Information Form.
   Make notes, then go to item 4 of Conclusion.]

   TOTAL PLANTED ACRES
   0019

3. I will follow a simple procedure to make a random selection from the upland cotton fields planted for the 2000 crop.

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

   TOTAL NUMBER OF FIELDS PLANTED
   0020

4. 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 3 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
   1
   2
   3
   4
   5
   6
   7
   8
   9
   10
   11
   12
   13
   14
   15
   16
   17
   18

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

   SELECTED FIELD NUMBER
   0021

6. The field selected is (field name/number/description).
   During this interview, the upland cotton questions will be about this selected upland cotton field.
   [Be sure the operator can identify the selected field.]

   OFFICE USE
   OY Field Substituted
   0022

1. How many acres of upland cotton did this operation plant in this field for the 2000 crop?
2. Were the acres in this field--

<table>
<thead>
<tr>
<th>CODE</th>
<th>SELECTED FIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>owned by this operation?</td>
</tr>
<tr>
<td>2</td>
<td>rented for CASH?</td>
</tr>
<tr>
<td>3</td>
<td>SHARE rented?</td>
</tr>
<tr>
<td>4</td>
<td>used RENT-FREE?</td>
</tr>
</tbody>
</table>

5. What year did you start operating this field? 

<table>
<thead>
<tr>
<th>CODE</th>
<th>YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1737</td>
<td>YYYY MM DD</td>
</tr>
</tbody>
</table>

5a. Do you EXPECT to be operating this field for the next 5 years (through the 2005 crop year)? YES = 1

7. On what date was this field planted?

<table>
<thead>
<tr>
<th>CODE</th>
<th>MM DD YY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1739</td>
<td>DD MM</td>
</tr>
</tbody>
</table>

10. What was the seeding rate per acre the first time this field was seeded?

<table>
<thead>
<tr>
<th>CODE</th>
<th>UNITS PER ACRE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1741</td>
<td>___</td>
</tr>
<tr>
<td>1742</td>
<td>___</td>
</tr>
</tbody>
</table>

12. Was the source of the upland cotton seed--

<table>
<thead>
<tr>
<th>CODE</th>
<th>1</th>
<th>Purchased?</th>
<th>2</th>
<th>Homegrown or traded?</th>
<th>3</th>
<th>Both?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td></td>
<td>2</td>
<td></td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

19. Which type of upland cotton seed type was used--

[Show Seed Type Code List from Respondent Booklet, and choose one code.]

<table>
<thead>
<tr>
<th>CODE</th>
<th>SEED TYPE - UPLAND COTTON</th>
</tr>
</thead>
<tbody>
<tr>
<td>1744</td>
<td>1</td>
</tr>
<tr>
<td>1748</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>
20. [If item 19a is NOT equal 6, ask--]
Resistant seed varieties offer several benefits.

**Did you choose the resistant seed variety used on this field primarily to--**

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>Increase yields through improved pest (weed or insect) control?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>Decrease pesticide input costs?</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Decrease machinery costs?</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>Improve ability to use or ease of using reduced tillage or no-till systems?</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>Improve ability or ease or rotating crops?</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>Save management time or labor or improve ease of management?</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>Adopt more environmentally friendly practices?</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>For some other reason(s)? [Specify ______________________]</td>
</tr>
</tbody>
</table>

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21. **Has harvest of this field been completed?** .......................... YES = 1

22. **Now I need information about the acres harvested (or to be harvested) and the yields from this field.**

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>How many acres in the upland cotton field were (will be)--</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ACRES</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>--------</td>
</tr>
<tr>
<td></td>
<td>a. harvested for lint?</td>
<td>1753</td>
</tr>
<tr>
<td></td>
<td>d. abandoned?</td>
<td>1756</td>
</tr>
<tr>
<td></td>
<td>e. used for some other purpose?</td>
<td>1757</td>
</tr>
</tbody>
</table>
26. Next I need to know what crops were previously PLANTED on this field, including cover crops.

<table>
<thead>
<tr>
<th>What crop was PLANTED on this field in--</th>
<th>CROP NAME</th>
<th>CROP CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. FALL of 1999?</td>
<td></td>
<td>1759</td>
</tr>
<tr>
<td>b. SPRING/SUMMER of 1999?</td>
<td></td>
<td>1761</td>
</tr>
<tr>
<td>c. FALL of 1998?</td>
<td></td>
<td>1763</td>
</tr>
<tr>
<td>d. SPRING/SUMMER of 1998?</td>
<td></td>
<td>1765</td>
</tr>
<tr>
<td>e. FALL of 1997?</td>
<td></td>
<td>1767</td>
</tr>
<tr>
<td>f. SPRING/SUMMER of 1997?</td>
<td></td>
<td>1769</td>
</tr>
</tbody>
</table>

27. In 2000, did your land-use practices for this field include--

<table>
<thead>
<tr>
<th>Code</th>
<th>Year</th>
<th>Code</th>
<th>Year</th>
<th>Code</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1771</td>
<td>1772</td>
<td>1774</td>
<td>1775</td>
<td>1777</td>
<td>1778</td>
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<td>1773</td>
<td>1776</td>
<td>1779</td>
<td>1780</td>
<td>1781</td>
<td>1782</td>
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<td>1783</td>
<td>1784</td>
<td>1785</td>
<td></td>
<td>1786</td>
<td></td>
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<tr>
<td>1787</td>
<td></td>
<td>1788</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

28. Has the Natural Resource Conservation Service (NRCS) classified any part of this field as "Highly Erodible"?

<table>
<thead>
<tr>
<th>Code</th>
<th>YES = 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1789</td>
<td>YES = 1</td>
</tr>
</tbody>
</table>
29. Have you been notified by NRCS that this field contains a wetland? YES = 1

30. In 2000, did you receive technical assistance for planning, installing, maintaining, or using conservation practices or systems on this field? YES = 1

31. In 2000, did you (or will you) receive cost-sharing or incentive payments for conservation practices on this field? YES = 1

32. During 2000, did any formal plan of the following types cover this field and, if so, in what year was the plan implemented?

<table>
<thead>
<tr>
<th>CODE</th>
<th>YEAR IMPLEMENTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>1793</td>
<td>1794</td>
</tr>
<tr>
<td>1795</td>
<td>1796</td>
</tr>
<tr>
<td>1797</td>
<td>1798</td>
</tr>
<tr>
<td>1799</td>
<td>1800</td>
</tr>
<tr>
<td>1801</td>
<td>1802</td>
</tr>
</tbody>
</table>

| a. Conservation plan specifying practices to reduce soil erosion? YES = 1 |
| b. Comprehensive nutrient management plan specifying practices for applying both fertilizer and manure? YES = 1 |
| c. Nutrient management plan specifying practices for land application of manure only? YES = 1 |
| d. Pest management plan specifying pesticide use and/or other practices for controlling weeds, insects, or plant disease? YES = 1 |
| e. Irrigation water management plan specifying practices for applying or conserving irrigation water? YES = 1 |

33. Was the upland cotton crop on this field covered by Crop Insurance in 2000?

- [ ] YES - [Enter code 1 and continue.] YES = 1
- [ ] NO - [Go to Section C.]

If YES, which coverages did you obtain?

- [ ] Basic catastrophic insurance (Federal CAT) bought for a flat fee and protects against crop loss greater than 50% of average yield, at 55% of the price. YES = 1
- [ ] Buy-up insurance for higher levels of yield and price protection (such as 65% of yield and 100% price). YES = 1
- [ ] Federal Revenue insurance include Income Protection (IF), Crop Revenue Coverage (CRC), and Revenue Assurance (RA). YES = 1
- [ ] Other Federal Crop insurance (Group Risk Plan, Adjusted Gross Revenue, Group Risk Income Protection, etc.) YES = 1
- [ ] Other Private Crop insurance (Hail, wind, freeze, etc.) YES = 1
1. Were commercial FERTILIZERS applied to this field for the 2000 upland cotton crop? 
   \[YES=1\]

2. [If COMMERCIAL fertilizers were applied, continue, else go to item 7.]

3. How many trips were made across this field to apply commercial fertilizers for the 2000 crop (include applications made by airplanes and commercial applicators)?

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

<table>
<thead>
<tr>
<th>INCLUDE</th>
<th>CHECK LIST</th>
<th>EXCLUDE</th>
<th>T-TYPE</th>
<th>TABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom applied fertilizers</td>
<td>Fertilizer applied in the fall of 1999 and those applied earlier if this field was fallow in 1999</td>
<td>Micronutrients</td>
<td>2</td>
<td>0001</td>
</tr>
<tr>
<td>Fertilizer applied in the fall of 1999 and those applied earlier if this field was fallow in 1999</td>
<td>Unprocessed manure</td>
<td>Unprocessed manure</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Commercially prepared manure</td>
<td>Fertilizer applied to previous crops in this field</td>
<td>Fertilizer applied to previous crops in this field</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MATERIALS USED</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>P.O.5</td>
<td>K.O</td>
<td>What quantity was applied per acre?</td>
<td>When was this applied?</td>
<td>How was this applied?</td>
<td>How many acres were treated in this application?</td>
</tr>
<tr>
<td>N</td>
<td>P.O.5</td>
<td>K.O</td>
<td>[Enter material code.]</td>
<td>1</td>
<td>2</td>
<td>3</td>
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<tr>
<td>01</td>
<td>0205</td>
<td>0206</td>
<td>0207</td>
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<td>0207</td>
<td>0208</td>
<td>0209</td>
<td>0210</td>
</tr>
</tbody>
</table>
7. What was your yield goal (or expected yield) for this field?  

<table>
<thead>
<tr>
<th>T-TYPE</th>
<th>TABLE</th>
<th>LINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>000</td>
<td>00</td>
</tr>
</tbody>
</table>

8. Was a soil test for phosphorus performed on this upland cotton field in 1999 or 2000 for the 2000 crop?  
   a. [If phosphorus test done, ask-]  
   How many pounds of phosphorus (per acre) were recommended (by the phosphorus test)?  

9. Was a soil test for nitrogen performed on this upland cotton field in 1999 or 2000 for the 2000 crop?  
   a. [If nitrogen test done, ask-]  
   How many pounds of nitrogen (per acre) were recommended (by the nitrogen test)?  

10. [Enumerator Action: Refer to the Fertilizer Table, column 2.  
    If nitrogen (N) was applied, complete items 11 and 12.  
    If NO nitrogen applied, skip to item 13.]  

11. Was the amount of nitrogen you decided to apply to this field based on--  
   a. Routine practice (operator's own determination based on past experience, yield goal, etc.)?  
   b. Results of a soil or plant tissue test?  
   c. Crop consultant recommendation?  
   d. Fertilizer dealer recommendation?  
   e. Extension Service recommendation?  
   f. Cost of nitrogen and/or expected commodity price?  

12. Did you use any product to slow the breakdown of nitrogen on this field?  
   (For example a nitrification inhibitor such as N-Serve or a urease inhibitor such as Agrotain)  

13. Was a plant tissue test performed on this field in 1999 or 2000 for the 2000 upland cotton crop?
15. **Is lime ever applied to this field?** .......................................................... YES = 1
   a. *If no lime applied, go to item 16–else continue.*
      
      On average, how many years are there between applications of lime to this field? ........

   b. How many tons of lime were applied per acre the last time it was applied to this field? ..........................................................

16. **Was sulfur applied to this field for the 2000 crop?** ............................ YES = 1
   a. *If sulfur applied, ask--*
      
      How many pounds of sulfur were applied per acre? ..........................................................

17. **Was gypsum applied to this field for the 2000 crop?** .................. YES = 1

18. **Were micronutrients applied to this field for the 2000 crop?** ............ YES = 1
   a. *If micronutrients applied, ask--*
      
      Did the micronutrients include zinc? .......................................................... YES = 1

19. **Was manure applied to this field for the 2000 upland cotton crop?**  
    *(Exclude commercially prepared manure.)*

   □ YES - [Enter code 1 and continue.] ..................................................
   □ NO - [Go to Section D.]

   a. How many acres was manure applied to? ..........................................................
      
      TONS PER ACRE OR TOTAL TONS

   b. What was the total amount of manure applied to this field? ............................
      
      OR
      
      OR

   c. What is the hauling distance between the manure storage and the manured field? ........

   d. How many trips did it take to complete the manure application to the entire field? ........

   e. What was the percent of manure applied--?
      
      (1) in the fall before planting? .......................................................... +
      
      (2) in the spring before planting? .......................................................... +
      
      (3) after planting? .......................................................... +

*manure—continued*
f. Was the manure--

1. Dry Broadcast without incorporation?
2. Dry Broadcast with incorporation?
3. Liquid Broadcast without incorporation?
4. Liquid Broadcast with incorporation?
5. Injected/knifed in?

---

CODE

1845

---

1. Beef cattle?
2. Dairy cattle?
3. Hogs?
4. Sheep?
5. Poultry?
6. Equine?
7. Biosolids (municipal sludge, food waste, etc.)?
8. Other (Specify________________)?

---

CODE

1846

---

h. Was the manure--

1. Produced on this operation?
2. Purchased?
3. Obtained at no cost off this operation?

---

CODE

1847

---

20. Were the manure APPLICATION RATES to this field influenced by State or local restrictions? Y ES = 1

---

CODE

1848

---

a. [If YES, ask--]

What basis was used to determine these manure application rate restrictions--

(1) Nitrogen requirement of the crop? Y ES = 1

(2) Phosphorus requirement of the crop? Y ES = 1
1. Including both custom applications and applications made by this operation, let’s list all the chemicals used on this field for the 2000 upland cotton crop.

Were any herbicides, insecticides, fungicides or other chemicals used on the upland cotton field for the 2000 crop? YES = 1

Probe for applications made in the fall of 1999 (and those made earlier if this field was fallow).

[If no pesticides applied, go to Section E.]

Include Boll Weevil eradication program applications.
Include defoliants, fungicides, herbicides, insecticides and pesticides.
Exclude biological and botanical pesticides.

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

<table>
<thead>
<tr>
<th>LINE</th>
<th>Pesticide Type (Herbicide, Insecticide, Fungicide, etc.)</th>
<th>EPA No. or Tradename and Formulation</th>
<th>Form Purchased (Liquid or Dry)</th>
<th>Where Purchased [Ask only if EPA No. cannot be reported]</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Application Codes for Column 9

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Broadcast, ground without incorporation</td>
</tr>
<tr>
<td>2</td>
<td>Broadcast, ground with incorporation</td>
</tr>
<tr>
<td>3</td>
<td>Broadcast, by air (Aerial application)</td>
</tr>
<tr>
<td>4</td>
<td>In seed furrow</td>
</tr>
<tr>
<td>5</td>
<td>In Irrigation water</td>
</tr>
<tr>
<td>6</td>
<td>Chisel/injected or knifed in</td>
</tr>
<tr>
<td>7</td>
<td>Banded in or over row</td>
</tr>
<tr>
<td>8</td>
<td>Foliar or directed spray</td>
</tr>
<tr>
<td>9</td>
<td>Spot treatment</td>
</tr>
</tbody>
</table>

### Applying Pesticides
- **How was this product applied?**
  - Enter code from above.
- **How many acres in this field were treated with this product?**
- **What was the number of times applied?**
- **What was the PRIMARY target pest for this application?**
  - Show Target Pest codes from Respondent Booklet.
- **Prior to this application was this year's pest problem--**
  - 1 worse than normal?
  - 3 normal?
  - 5 less than normal?
  - 7 unknown?
  - 9 not applicable?
- **Were these applications made by--**
  - 1 Operator, Partner, Family member?
  - 2 Custom applicator?
  - 3 Employee / Other?

### Data Table

<table>
<thead>
<tr>
<th>Line</th>
<th>9 (How was this product applied?)</th>
<th>10 (How many acres in this field were treated with this product?)</th>
<th>11 (What was the number of times applied?)</th>
<th>12 (What was the PRIMARY target pest for this application?)</th>
<th>13 (Prior to this application was this year's pest problem--)</th>
<th>14 (Were these applications made by--)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>0311</td>
<td>0312</td>
<td>0313</td>
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<td>0315</td>
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<td>0312</td>
<td>0313</td>
<td>0314</td>
<td>0315</td>
<td>0316</td>
</tr>
</tbody>
</table>
1. Now I have some questions about your pest management decisions and practices used on this field for the 2000 upland cotton crop. By pests, we mean WEEDS, INSECTS and DISEASES.

2. Let’s begin with questions about scouting this field for pests.

<table>
<thead>
<tr>
<th>Was this upland cotton field scouted for--</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. weeds? ..................................</td>
</tr>
<tr>
<td>b. insects? ..................................</td>
</tr>
<tr>
<td>c. diseases? .................................</td>
</tr>
</tbody>
</table>

3. [If YES, ask--]

Who did the majority of the scouting for [column 1]--
1. Operator, Partner or Family member?
2. an Employee?
3. Farm supply or Chemical dealer?
4. Independent Crop consultant or Commercial scout?

4. YES=1 CODE

5. [If field SCOUTED, ask--]

Were written or electronic records kept for this field to track the activity or numbers of weeds, insects or diseases? ......................... YES = 1

CODE
6. [Enumerator Action: Were HERBICIDES used (pesticide product codes 4000-4999), Section D, item 1 column 2?]

☐ YES - [Continue.]  ☐ NO - [Go to item 9.]

7. Did you apply herbicides to this upland cotton field BEFORE weeds emerged?  

[If item 7 = YES, ask--]
Did you decide to apply herbicides BEFORE weeds emerged on this upland cotton field based on--

a. a routine treatment for weed problems experienced in previous years?  YES = 1
b. field mapping of previous weed problems?  YES = 1
c. recommendations from a chemical dealer?  YES = 1
d. recommendations from an independent crop consultant?  YES = 1

8. Did you apply herbicides to this upland cotton field AFTER weeds emerged?  YES = 1

[If item 8 = YES, ask--]
Did you decide to apply herbicides AFTER weeds emerged on the upland cotton field based on--

a. a routine treatment?  YES = 1
b. type and/or density of weed(s) present?  YES = 1
c. recommendations from a chemical dealer?  YES = 1
d. recommendations from an independent crop consultant?  YES = 1

9. [Enumerator Action: Were INSECTICIDES used (pesticide product codes 1000-2000), in Section D, item 1 column 2?]

☐ YES - [Continue.]  ☐ NO - [Go to item 11.]

10. Did you decide to apply insecticides to this upland cotton field based on--

a. a preventative schedule?  YES = 1
b. scouting data compared to University or Extension guidelines for infestation thresholds?  YES = 1
c. standard practices or history of insect problems?  YES = 1
d. local information (from other farmers, radio, TV, newsletters, etc.) that the pest was or was not present?  YES = 1
e. your (the operator’s) own determination of the infestation level?  YES = 1
### OTHER PEST MANAGEMENT PRACTICES

11. **Was protection of beneficial organisms a factor in your pest control decisions for this field?**
   - **YES = 1**
   - **CODE 1873**

12. **Did you apply or release any beneficial organisms to control pests in this field?**
   - **YES = 1**
   - **CODE 1874**

13. **Did you use water management practices, such as controlled drainage or irrigation scheduling, to control pests in this field?** *(Exclude chemigation.)*
   - **YES = 1**
   - **CODE 1875**

14. **Did you use tilling, chopping, mowing, burning of field edges, lanes, ditches, roadways or fence lines to control pests in this field?**
   - **YES = 1**
   - **CODE 1876**

15. **Did you clean equipment and implements after completing field work to reduce the spread of pests from this field?**
   - **YES = 1**
   - **CODE 1877**

16. **Did you cultivate this field for weed control during the growing season?**
   - **YES = 1**
   - **CODE 1878**
     
     **a.** *(If YES, ask--)*
     
     How many times did you cultivate this field for weed control during the growing season?  
     - **NUMBER 1879**

17. **Did you consider pest resistance when selecting which variety to plant in this field?**
   - **YES = 1**
   - **CODE 1880**

18. **Did you treat the seed used in this field or purchase seed that was treated for disease control?**
   - **YES = 1**
   - **CODE 1881**

19. **Did you adjust planting or harvesting dates to control pests?**
   - **YES = 1**
   - **CODE 1882**

20. **Did you use soil analysis to detect the presence of soilborne pests or pathogens in this field?**
   - **YES = 1**
   - **CODE 1883**

21. **Did you alternate pesticides *(use pesticides with different mechanisms of action)* to keep pests from becoming resistant to pesticides in this field?**
   - **YES = 1**
   - **CODE 1884**

22. **Did you adjust row spacing or plant density to control pests in this field?**
   - **YES = 1**
   - **CODE 1885**

23. **Did you rotate crops on this field during the past 3 years to control pests?**
   - **YES = 1**
   - **CODE 1886**

25. **Did you use pheromones on the Upland Cotton field to--**
   - **YES = 1**
   - **CODE 1887**

   **a.** **monitor pests by trapping?**  
   - **YES = 1**
   - **CODE 1888**

   **b.** **control pests by disrupting mating?**  
   - **YES = 1**
   - **CODE 1888**
28. Did you do any other type(s) of pest management to control pests in this field? YES = 1  
   a. [If YES, ask--]  
   What did you do? [List other activities.]  
   _______________________________________________  
   _______________________________________________  
   _______________________________________________  
29. [Show Pest Management Information Sources code List.]  
   What was your primary outside source of information on pest management recommendations for the 2000 upland cotton crop?  
   PEST MANAGEMENT INFORMATION SOURCES CODE LIST [Choose one.]  
   1 Extension Advisor, Publications or Demonstrations (County, Cooperative or University)  
   2 Farm Supply or Chemical Dealer  
   3 Commercial Scouting Service  
   4 Independent Crop Consultant or Pest Control Advisor  
   5 Other Growers or Producers  
   6 Producer Associations, Newsletters or Trade Magazines  
   7 Electronic Information Services (DTN, Internet, World Wide Web, etc.)  
   8 Other - (Specify ____________________________ )  
   9 None - Operator used no outside information source.  
30. Have you (the operator) attended any training session on pest identification and management since October 1, 1999? YES = 1
6. Was a moldboard plow used to prepare this field for this cotton crop? YES = 1
   a. [If YES, ask--]
      What month was the moldboard plow used for this cotton field? 

7. Was a stale-seedbed system used to prepare and plant this cotton field? YES = 1

8. Was there (will there be) a yield monitor on the equipment used to harvest this upland cotton field? YES = 1
   a. [If YES, ask--]
      Was (will there be) a yield map produced from this harvest using information from the yield monitor? YES = 1
      (1) [If item 8a is YES, ask--]
         Was a custom service/consultant hired for this activity? YES = 1

9. Regardless of when done, have the soil properties of this field been mapped (by grid or otherwise)? YES = 1
   [Mapped is intended to mean that a GPS unit was used to geo-reference the location of different soil properties.]

10. Was this field remotely sensed (by airplane or satellite) and an image produced either before or during the 2000 growing season? YES = 1
    a. [If YES, ask--]
       Was a custom service/consultant hired for this activity? YES = 1

11. Was variable rate technology (VRT) used for--
    a. fertilization or liming? YES = 1
       (1) [If YES, ask--]
          Was a custom service/consultant hired for this activity? YES = 1
    b. seeding? YES = 1
       (1) [If YES, ask--]
          Was a custom service/consultant hired for this activity? YES = 1
    c. pesticide applications? YES = 1
       (1) [If YES, ask--]
          Was a custom service/consultant hired for this activity? YES = 1
NOTES and CALCULATIONS:
1. How many acres in this field were irrigated for the 2000 upland cotton crop? .................................................................

   [If field irrigated, continue. If NOT irrigated, go to Section J.]

   1910

2. Now, I have some questions about the irrigation of this field for the 2000 upland cotton crop.
   a. What type of irrigation system was used to irrigate this field?
      [Show System Type Codes. If more than 1 system used, enter System Type Code for system covering the most field acres.] .................................................................

      SYSTEM TYPE CODE

      1911

   b. What was the total quantity of water applied to this field during the entire growing season?
      [Include ALL water used from both on-farm and off-farm sources.] .................................................................

      INCHES PER ACRE OR TOTAL ACRE FEET

      1912

      1913

   [If operator cannot provide item 2b, ask--]

   (1) What is the total number of hours that water was applied to this field during the growing season? .................................................................

      TOTAL HOURS

      1914

   (2) How many gallons per minute were applied? .................................................................

      GALLONS PER MINUTE

      1915

   c. What percent of ALL water used to irrigate this field came from surface water sources? .................................................................

   d. What was the number of times this field was irrigated during the growing season? .................................................................

3. Was any water purchased to irrigate this field?
   (Include landlord's share and purchases from all sources.) ................................................................. YES = 1

   a. [If water purchased, ask--]
      What percent of the water used on this field was purchased? .................................................................

   b. What percent of the water used on this field came from surface water sources? .................................................................

   9. Were wells used to supply irrigation water for this field? ................................................................. YES = 1

11. Is the runoff from this field primarily-- .................................................................

   RUNOFF CODES
   1 retained at the end of the field with no re-use?
   2 re-used to irrigate on the farm?
   3 collected in evaporation ponds on the farm?
   4 drains from the farm?
   5 there is no runoff?

   CODE

   1921
1. In 2000, was this operation’s LEGAL STATUS--

   1 Individual (Sole/family Proprietorship)?
   2 A legal Partnership?
   3 A Family-held Corporation?
   4 A Non-family Corporation?
   5 Other, Including estates, trusts and cooperatives?
   (Describe ______)  CODE 0035

2. In 2000, what was your (the operator’s) major occupation?  CODE 0036

   1 Farm or ranch work
   2 Hired manager
   3 Something else
   4 Retired

3. What is the highest level of formal education you (the operator) have completed?  CODE 0037

   1 Less than high school
   2 High school diploma or equivalency (GED)
   3 Some college
   4 Completed 4 year degree (BA or BS)
   5 Graduate school

4. In what year did you (the operator) begin making day-to-day decisions for any farm/ranch?  YEAR 0038

5. Now I would like to classify the total acres operated in terms of total gross value of sales.

   Considering--
   • all crops sold,
   • all livestock, poultry (including commercial broilers),
     and products (milk, eggs, etc.) sold,
   • all sales of crops, livestock or poultry, produced under contract,
   • all sales of any miscellaneous agricultural products,
   • all government payments received,
   • landlord’s share of government payments and crops sold in 2000;

   What code represents the total gross value of sales you expect for this operation in 2000?

   □ 1 Less than $1,000
   □ 2 $ 1,000 -- $ 2,499
   □ 3 $ 2,500 -- $ 4,999
   □ 4 $ 5,000 -- $ 9,999
   □ 5 $10,000 -- $19,999
   □ 6 $20,000 -- $24,999
   □ 7 $25,000 -- $39,999
   □ 8 $40,000 -- $49,999
   □ 9 $50,000 -- $99,999
   □10 $100,000 -- $249,999
   □11 $250,000 -- $499,999
   □12 $500,000 -- $999,999
   □13 $1,000,000 and over

   CODE 0039

6. Of the farm income reported, which of these categories represents the largest portion of the gross income from the operation?  CODE 0040

   FARM TYPE CODES

   1 GRAINS and OILSEEDS
   2 TOBACCO
   3 COTTON
   4 VEGETABLES and MELONS
   5 FRUIT TREE, NUTS and BERRIES
   6 NURSERY, GREENHOUSE and FLORICULTURE
   7 OTHER CROPS
   8 BEEF CATTLE
   9 DAIRY
   10 HOGS
   11 SHEEP, GOATS, WOOL and MOHAIR
   12 EQUINE
   13 POULTRY and EGGS
   14 AQUACULTURE
   15 OTHER ANIMALS

   LOCATION OF SELECTED FIELD
1. I need to locate the selected field of upland cotton on this map. What county is the selected upland cotton field in? ...........................................

   Field description ...........................................

   COUNTY NAME ...........................................

   OFFICE USE COUNTY FIPS CODE .................................... 0010

2. [ENUMERATOR ACTION:]
   Mark map to indicate where the selected upland cotton field is located. Be sure the “X” marked on map is in county identified above.]

4. 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

RECORDS USE

5. [Did respondent use farm/ranch records to report?]
   a. [fertilizer data?] ............................................. YES = 1
   b. [pesticide data?] ............................................. YES = 1

SUPPLEMENTS USED

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

   FERTILIZER APPLICATIONS NUMBER 0041
   PESTICIDE APPLICATIONS NUMBER 0042
   FIELD OPERATIONS NUMBER 0043

RESPONDENT

   1 OPERATOR/MANAGER/PARTNER
   2 SPOUSE
   3 ACCOUNTANT/BOOKKEEPER
   4 OTHER

   Respondent's name ...........
   Phone ...................... (_____) _______________________

   MILITARY TIME
   H H M M 0005

   ENDING TIME [MILITARY] .............................................

   MM DD YY 0007

   DATE: .................................................................

   ENUMERATOR NAME ................................................

   ENUMERATOR ID ................................................ 0098

   EVALUATION .................................................. 0100