



**AGRICULTURAL RESOURCE MANAGEMENT SURVEY  
COTTON PRODUCTION PRACTICES AND COSTS  
REPORT  
for 2007**



**NATIONAL  
AGRICULTURAL  
STATISTICS  
SERVICE**

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VERSION	ID	TRACT	SUBTRACT	T-TYPE	TABLE	LINE
2	-----	01	01	0	000	00



CONTACT RECORD		
DATE	TIME	NOTES

**INTRODUCTION:**  
*[Introduce yourself, and ask for the operator. Rephrase in your own words.]*  
 We are collecting information on practices and costs to produce cotton and need your help to make the information as accurate as possible. Authority for collection of information on the Cotton Production Practices and Costs 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.

**H H M M**

**BEGINNING TIME**  
 [MILITARY]

- Please verify name and mailing address of this operation.  
 Make corrections (including the correct operation name) on the label and continue.  [Check if name and address are verified.]
- Please answer the following question(s) for the total acres you (name on label ) operate.
  - Have or will you grow any crops or cut hay in 2007?.....  **Yes** [Go to Item 3]  **No** [Continue]
  - During 2007, did this operation sell any agricultural products or receive government agricultural payments? .....  **Yes** [Go to Item 3]  **No** [Continue]
  - Have or will you own or raise any livestock or poultry? .....  **Yes** [Go to Item 3]  **No** [Go to conclusion]
- Are the day-to-day decisions for this (name on label) operation made by one individual, a hired manager, or partners? [Check one]
  - One individual - [Enter 1, Go to item 5]
  - A hired manager - [Enter 8, Go to item 5]
  - Partners - [Continue]

**OFFICE USE**

REPORTING UNIT
0921

# SCREENING

4. How many individuals are involved in the day-to-day decisions of this operation? . . . . . NUMBER

[Enter the number of partners, including the partner named on the label.  
Identify the other persons in this partnership below, then continue.]  
Partners jointly operate land and share in decision making. Do not include landlords and tenants as partners.

<b>POID</b> _____	<b>POID</b> _____
<i>PARTNER 1: NAME</i>	<i>PARTNER 2: NAME</i>
<i>ADDRESS</i>	<i>ADDRESS</i>
<i>CITY</i> <i>STATE</i> <i>ZIP</i> <i>PHONE NUMBER</i>	<i>CITY</i> <i>STATE</i> <i>ZIP</i> <i>PHONE NUMBER</i>
<b>POID</b> _____	<b>POID</b> _____
<i>PARTNER 3: NAME</i>	<i>PARTNER 4: NAME</i>
<i>ADDRESS</i>	<i>ADDRESS</i>
<i>CITY</i> <i>STATE</i> <i>ZIP</i> <i>PHONE NUMBER</i>	<i>CITY</i> <i>STATE</i> <i>ZIP</i> <i>PHONE NUMBER</i>

5. How many acres of cropland did you operate in 2007? . . . . . ACRES  
0049

a. How many acres of cotton did this operation [Operation 1] plant in 2007? . . . . . 0056

6. Do you [target name] make any day-to-day decisions for any other farm or ranch?  
[If Opdom 99, check 'No' and follow skip instructions.]

**NO** - [Enter code 1 and then begin the interview with Section A, page 7.]

**YES** - a. How many total operating arrangements (including the sampled operation) do you (target operator) make day-to-day decisions for? . . . . . NUMBER  
0923

b. [List or verify names associated with each additional operation on the next page.]

<b>OPERATION 2:</b> ▶	<b>PARTNERS: POID</b> _____
<i>OPERATION NAME (IF ANY)</i>	
<i>OPERATION NAME</i>	<i>PARTNER 1: NAME</i>
<i>ADDRESS</i>	<i>ADDRESS</i>
<i>CITY</i> <i>STATE</i> <i>ZIP</i> <i>PHONE</i>	<i>CITY</i> <i>STATE</i> <i>ZIP</i> <i>PHONE</i>
<b>POID</b> _____	<b>POID</b> _____
<i>PARTNER 2: NAME</i>	<i>PARTNER 3: NAME</i>
<i>ADDRESS</i>	<i>ADDRESS</i>
<i>CITY</i> <i>STATE</i> <i>ZIP</i> <i>PHONE</i>	<i>CITY</i> <i>STATE</i> <i>ZIP</i> <i>PHONE</i>
<b>POID</b> _____	
<i>PARTNER 4: NAME</i>	
<i>ADDRESS</i>	
<i>CITY</i> <i>STATE</i> <i>ZIP</i> <i>PHONE</i>	

a. Are the day-to-day decisions for this farming/ranching operation **[Operation 2]** made by---

- an individual operator? [Enter 1 and Continue]
- a hired manager? [Enter 8 and Continue]
- Partners? [List/verify partners in Partner Boxes above]

**OPERATING  
ARRANGEMENT**

0932

b. How many acres of cropland did you operate in 2007 **[Operation 2]**? .....

**ACRES**

0033

c. How many acres of cotton did you plant in 2007 **[Operation 2]**? .....

0034

[Refer to Page 2, Item 6a. Does operator make day-to-day decisions for more than 2 operations?]

- YES** - [Continue]
- NO** - [Go to Operation Selection, Item 7, Page 6]

<b>OPERATION 3:</b> ▶	<b>PARTNERS: POID</b> _____
<i>OPERATION NAME (IF ANY)</i>	
<i>OPERATION NAME</i>	<i>PARTNER 1: NAME</i>
<i>ADDRESS</i>	<i>ADDRESS</i>
<i>CITY                      STATE      ZIP              PHONE</i>	<i>CITY                      STATE      ZIP              PHONE</i>
<b>POID</b> _____	<b>POID</b> _____
<i>PARTNER 2: NAME</i>	<i>PARTNER 3: NAME</i>
<i>ADDRESS</i>	<i>ADDRESS</i>
<i>CITY                      STATE      ZIP              PHONE</i>	<i>CITY                      STATE      ZIP              PHONE</i>
<b>POID</b> _____	
<i>PARTNER 4: NAME</i>	
<i>ADDRESS</i>	
<i>CITY                      STATE      ZIP              PHONE</i>	

a. Are the day-to-day decisions for this farming/ranching operation **[Operation 3]** made by---

- an individual operator? [Enter 1 and Continue]
- a hired manager? [Enter 8 and Continue]
- Partners? [List/verify partners in Partner Boxes above]

**OPERATING  
ARRANGEMENT**

0933

b. How many acres of cropland did you operate in 2007 **[Operation 3]**? .....

**ACRES**

0035

c. How many acres of cotton did you plant in 2007 **[Operation 3]**? .....

0036

[Refer to Page 2, Item 6a. Does operator make day-to-day decisions for more than 3 operations?]

- YES** - [Continue]
- NO** - [Go to Operation Selection, Item 7, Page 6]

<b>OPERATION 4:</b> ►	<b>PARTNERS: POID</b> _____
<i>OPERATION NAME (IF ANY)</i>	
<i>OPERATION NAME</i>	<i>PARTNER 1: NAME</i>
<i>ADDRESS</i>	<i>ADDRESS</i>
<i>CITY</i> <i>STATE</i> <i>ZIP</i> <i>PHONE</i>	<i>CITY</i> <i>STATE</i> <i>ZIP</i> <i>PHONE</i>
<p>a. Are the day-to-day decisions for this farming/ranching operation <b>[Operation 4]</b> made by---</p> <p><input type="checkbox"/> an individual operator? [Enter 1 and Continue]</p> <p><input type="checkbox"/> a hired manager? [Enter 8 and Continue]</p> <p><input type="checkbox"/> Partners? [List/verify partners in Partner Boxes above]</p>	<b>POID</b> _____
	<i>PARTNER 2: NAME</i>
	<i>ADDRESS</i>
	<i>CITY</i> <i>STATE</i> <i>ZIP</i> <i>PHONE</i>
<p>b. How many acres of cropland did you operate in 2007 <b>[Operation 4]</b>? .....</p>	<b>POID</b> _____
	<i>PARTNER 3: NAME</i>
	<i>ADDRESS</i>
	<i>CITY</i> <i>STATE</i> <i>ZIP</i> <i>PHONE</i>
<p>c. How many acres of cotton did you plant in 2007 <b>[Operation 4]</b>? .....</p>	<i>ADDRESS</i>
	<i>CITY</i> <i>STATE</i> <i>ZIP</i> <i>PHONE</i>

[Refer to Page 2, Item 6a. Does operator make day-to-day decisions for more than 4 operations?]

**YES** - [Continue]

**NO** - [Go to Operation Selection, Item 7, Page 6]

<b>OPERATION 5:</b> ►	<b>PARTNERS: POID</b> _____
<i>OPERATION NAME (IF ANY)</i>	
<i>OPERATION NAME</i>	<i>PARTNER 1: NAME</i>
<i>ADDRESS</i>	<i>ADDRESS</i>
<i>CITY</i> <i>STATE</i> <i>ZIP</i> <i>PHONE</i>	<i>CITY</i> <i>STATE</i> <i>ZIP</i> <i>PHONE</i>
<p>a. Are the day-to-day decisions for this farming/ranching operation <b>[Operation 5]</b> made by---</p> <p><input type="checkbox"/> an individual operator? [Enter 1 and Continue]</p> <p><input type="checkbox"/> a hired manager? [Enter 8 and Continue]</p> <p><input type="checkbox"/> Partners? [List/verify partners in Partner Boxes above]</p>	<b>POID</b> _____
	<i>PARTNER 2: NAME</i>
	<i>ADDRESS</i>
	<i>CITY</i> <i>STATE</i> <i>ZIP</i> <i>PHONE</i>
<p>b. How many acres of cropland did you operate in 2007 <b>[Operation 5]</b>? .....</p>	<b>POID</b> _____
	<i>PARTNER 3: NAME</i>
	<i>ADDRESS</i>
	<i>CITY</i> <i>STATE</i> <i>ZIP</i> <i>PHONE</i>
<p>c. How many acres of cotton did you plant in 2007 <b>[Operation 5]</b>? .....</p>	<i>ADDRESS</i>
	<i>CITY</i> <i>STATE</i> <i>ZIP</i> <i>PHONE</i>

**OPERATION SELECTION**

7. [ENUMERATOR Action: Were Cotton Acres reported on any of the operations?]

YES - [Continue]

NO - [This concludes the interview. Make notes, then go to item 4 on back page.]

Enter the total number of operations reporting cotton acres.....

0057
------

[If only one operation, Enter 1 and go to Section A.]

<b>'Apply Random Operation Label'</b>
---------------------------------------

8. [ENUMERATOR ACTION:]

Circle the pair of numbers on the above label associated with the number of operations with cotton (item 7).  
Select the operation according to the number you circled on the label, and record the selected number.

0058
------

9. The operation selected is \_\_\_\_\_ (i.e. Operation 1, Operation 2, etc.)

**During this interview, the questions will be about this selected operation.**

*The selected number identifies the counting order of operations with cotton and not necessarily the Operation number.*

# A COTTON FIELD SELECTION

A

1. How many acres of cotton did this operation plant for the 2007 crop year?

TOTAL PLANTED ACRES

0050

▶ [If skip –row cotton was planted, exclude acreage in the skips.].....

2. I will follow a simple procedure to make a random selection from the cotton fields planted for the 2007 crop.

TOTAL NUMBER OF FIELDS PLANTED

0020

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

[If only 1 field, enter 1 and go to item 4.]

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**

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].

SELECTED FIELD NUMBER

0021

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.]

OFFICE USE OY Field Substituted

0022

B

FIELD CHARACTERISTICS---SELECTED FIELD

B

1. How many acres of cotton did this operation plant in this field for the 2007 crop?

[If skip-row cotton was planted, exclude acreage in the skips].

ACRES
1301
CODE

a. Are the acres in this field CERTIFIED ORGANIC? YES=1

[If YES, ask - else go to item 1b]

1311
CODE

(i) What year was cotton from this field first certified?

YEAR
1322
CODE

b. Was this field transitioning into organic cotton production in 2007? YES=1

1351
CODE

2. Are the acres in this field --

- 1 owned by this operation?
2 rented for CASH with the payment being a fixed cash amount?
3 rented for CASH with the payment being a flexible cash amount?
4 rented for a SHARE of the crop?
5 rented for some combination of CASH and SHARE of the crop?
6 used RENT FREE?

1302
DOLLARS & CENTS PER ACRE

3. [If field is CASH RENTED (item 2 = 2, 3 or 5), ask--, else go to item 4.] What was the cash rent paid per acre for this 2007 field?

[If item 2 = 2, ask items 3a, 3b, and 3c---else go to item 4]

1303
DOLLARS & CENTS PER ACRE

a. How many total crop acres were cash rented from the landlord/owner of this cotton field (i.e., the number of acres in the FSA farm that includes this cotton field)?

ACRES
1309
DOLLARS & CENTS PER ACRE

b. What was the total amount of the Direct Payment under the 2007 Farm Commodity Program you received (or will receive) for all the crop acres you cash rented from the landlord/owner of this cotton field (i.e., total Direct Payment for the FSA farm that includes this cotton field)? [Note: Under cash rent arrangements, the tenant should receive all payments.]

TOTAL DOLLARS
1310
CODE

c. When you signed the cash lease for this cotton field, did you expect a Counter-cyclical Payment would be declared in 2007? YES=1

1312
PERCENT

4. [If field is SHARE RENTED (item 2 = 4 or 5), ask--] What was the landlord's share of the crop from this field?

1304
PERCENT

5. [If field is RENTED (item 2 = 2, 3, 4, or 5), ask--] What was the total cost for all inputs provided by any landlord or contractor for the 2007 crop?

(Include the costs for all inputs, such as seed, fertilizer, chemicals, technical services, custom operations, and irrigation. Exclude real estate tax expenses and lime costs paid by the landowner.)

DOLLARS & CENTS PER ACRE OR TOTAL DOLLARS
1305 PER ACRE 1306 TOTAL DOLLARS
CODE

6. What type of cotton was planted on this field?

- 1 Upland
2 Pima - extra long staple or ELS

1320
YEAR

7. What year did you (the operator listed on the label) start operating this field?

1307
MM DD YY

8. On what date was this field planted?

1308
MM DD YY



**UNIT CODES  
for Seeding Rate**  
 1 = POUNDS/ACRE  
 23 = 50 LB BAGS/ACRE  
 25 = SEEDS/ACRE  
 38 = SEEDS/FOOT  
 40 = 250,000 SEED  
 BAGS/ACRE  
 42 = BOLL BOX

9. **What was the seeding rate the first time this field was planted?**.....

1313	1314
------	------

1 Drilled? 2 Planted in Conventional Rows? 3 Broadcast on this field?	<b>CODE</b>
a. Was the cotton seed----	1315

[If drilled or planted (item 9a = 1 or 2), ask---]

b. What was the average cotton row width?.....

<b>INCHES</b>
1323

10. **Did this field have skip-row cotton?**.....

<b>CODE</b>	YES = 1
1321	

*[If no skip-row, go to item 11.]*

<b>ROWS OF COTTON</b>	BY	<b>ROWS OF SKIP</b>
1316		1317

a. What was the common skip pattern?.....

b. What was the average width of the skip?.....

<b>INCHES</b>
1319

11. **How many acres in this field had to be replanted to cotton?**  
*(Number of acres times the number of times replanted).*.....

<b>ACRES</b>
1318

12. **What was the source and cost of---**  
*(Include cost of seed treatment and technology fee. Exclude any Bt seed payment received for participating in the Pink Bollworm program.)*

<b>DOLLARS &amp; CENTS PER UNIT</b>	<b>UNIT CODE</b> 1=POUNDS 22=ACRE 23=APPROX 50 LB. BAG 40 =250,000 SEED BAG 42= BOLL BOX	<b>PERCENT of SEED PLANTED</b>
1344	1345	1346
1347	1348	1349
		1340

a. Genetically-modified purchased seed?.....

b. Non-genetically-modified purchased seed?.....

c. Homegrown seed?.....

**100%**

[If homegrown, ask---]

(i) What was the cost for cleaning and treating this seed?.....

<b>CENTS PER POUND</b>
1350

SEED TYPE - COTTON	
1	Genetically-modified herbicide resistant seed variety
2	Genetically-modified Bt variety for insect resistance
3	Stacked gene variety (both genetically- modified insect and herbicide resistance)
4	Variety planted not described above.

13. Which type of cotton seed was used on the majority of this field---

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

a. in 2007? .....	<b>CODE</b>
	1341
b. in 2006? [Leave blank if cotton was not on this field in 2006.] .....	1342

14. [If item 13a = 1, 2, or 3, ask---]

**Resistant seed varieties offer several benefits.**

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

1 Increase yields through improved pest (weed or insect) control? 2 Decrease herbicide input costs? 3 Decrease machinery costs? 4 Improve ability to use or ease of using reduced tillage or no-till system? 5 improve ability to use or ease of rotating crops? 6 Save management time or labor or improve ease of management? 7 Adopt more environmentally friendly practices? 8 For some other reason(s)? [Specify _____]	<b>CODE</b>
	1343

15. What percent of the field was used as refuge in order to comply with Bt cotton insect resistant management guidelines? .....

**PERCENT**

1361

16. [If Bt or herbicide resistant cotton seed is used, item 13a = 1, 2, or 3, ask---]

What was the technology fee paid? .....

1 Per Acre 2 Per Bag 3 Per Boll Box	<b>CODE</b>	<b>DOLLARS</b>
	1362	1363

17. [If 13a = 1 or 4, ask---]

**In 2007, which of the following reasons influenced you the most in deciding not to plant Bt cotton on this field---**

1 Did not expect to have enough Bt target pests to justify the cost of Bt cotton. 2 Concerned about finding a market for Bt cotton. 3 This field was used as refuge in 2007. 4 Concerned about the environmental impact of Bt cotton. 5 None of the above.	<b>CODE</b>
	1364

18. How many acres of cotton in this field were planted to fill a commercial seed contract? .....

**ACRES**

1365

19. Has the harvest of this field been completed? .....

1328

YES = 1

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

a. How many ACRES in the cotton field were (will be) harvested for lint? ..... ACRES  
1335

(i) How many pounds of lint PER ACRE were harvested (do you expect to get if not harvested)? ..... POUNDS PER ACRE  
1389

b. How many ACRES in the cotton field were (will be) abandoned? ..... ACRES  
1338

CROP CODE LIST for item 21 PREVIOUSLY PLANTED CROP was---				
1 Alfalfa hay	196 Tobacco, flue cured	16 Peanuts	26 Soybeans	
11 Hay, all other	193 Tobacco, burley	17 Dry Peas	28 Sugarbeets	
190 Barley	281 Cotton, Upland	20 Potatoes	30 Sunflowers	
3 Dry Beans	282 Cotton, Pima	21 Rice	142 Vegetables	
85 Canola	302 CRP	22 Rye	163 Wheat, durum	
310 Clover	311 Grasses other than clover	98 Safflower	164 Wheat, other spring	
6 Corn for grain	94 Mustard Seed	25 Sorghum for grain	165 Wheat, winter	
5 Corn for silage	15 Oats	24 Sorghum for silage	318 <b>No crop planted</b> during this period	
	31 Sweet Potatoes			

21. Next, I need to know what crops were previously PLANTED on the majority of this field, including cover crops.

What crop was PLANTED on this field in---		
	CROP NAME	CROP CODE
a. FALL of 2006? .....		1352
b. SPRING/SUMMER of 2006? .....		1353
c. FALL of 2005? .....		1354
d. SPRING/SUMMER of 2005? .....		1355
e. FALL of 2004? .....		1356
f. SPRING/SUMMER of 2004? .....		1357

22. In 2007 did your land–use practices for this field include--	CODE
a. <b>Structures for soil erosion control?</b> ..... YES = 1	1421
[if YES, ask –Enter Code “1” for all that apply.]	
(i) terraces ..... YES = 1	1358
(ii) grade stabilization structures ..... YES = 1	1359
(iii) critical planting acres ..... YES = 1	1422
b. <b>Structures for storm water runoff control/handling?</b> ..... YES = 1	1423
[if YES, ask –Enter Code “1” for all that apply.]	
(i) grassed water ways ..... YES = 1	1360
(ii) structures for water control ..... YES = 1	1424
c. <b>Filter strips or other conservation buffers?</b> ..... YES = 1	1425
[if YES, ask –Enter Code “1” for all that apply.]	
(i) Filter strips ..... YES = 1	1426
(ii) Field borders ..... YES = 1	1427
(iii) Riparian buffers ..... YES = 1	1428
d. <b>Drainage?</b> ..... YES = 1	1429
[if YES, ask –Enter Code “1” for all that apply.]	
(i) Subsurface field drainage ..... YES = 1	1430
(ii) Surface field drainage ..... YES = 1	1431
e. <b>Other Practices?</b> ..... YES = 1	1432
[if YES, ask –Enter Code “1” for all that apply.]	
(i) Agri-chemical mixing facility ..... YES = 1	1433
(ii) Contour farming and strip cropping ..... YES = 1	1434
(iii) Air quality management ..... YES = 1	1435
(iv) Other Practices [Specify: _____] ..... YES = 1	1436

**OFFICE USE**

1440
------

- |  |         | CODE |
|--|---------|------|
| 23. Has the Natural Resource Conservation Service (NRCS) classified any part of this field as "Highly Erodible"?   | YES = 1 | 1366 |
| 24. Have you been notified by NRCS that this field contains any wetlands?  | YES = 1 | 1367 |
| 25. In 2007, did you receive technical assistance for planning, installing, maintaining, or using conservation practices or systems on this field?<br><i>(Include grassed waterways and filter strips or riparian buffers, or drainage area, on or adjoining this field. Include assistance from any source whether paid for or free.)</i> | YES = 1 | 1368 |

- |  |         | CODE |
|--|---------|------|
| 26. Is this field included in an existing conservation program contract for which you or the landlord have received (or expect to receive) cost sharing payments, stewardship payments, or incentive payments? <i>[Be sure to consider grassed waterways and filter strips or riparian buffers, or drainage area, on or adjoining this field. Also, be sure to consider payments that are part of this contract but were made before or payments that are anticipated for future years.]</i> | YES = 1 | 1369 |

[If item 26 is YES, ask---, else go to item 26b.]

- |  |         | CODE |
|--|---------|------|
| a. Have (or will) you receive cost sharing or incentive payments from--- |         |      |
| (i) Environmental Quality Incentives Program (EQIP)?                     | YES = 1 | 1370 |
| (ii) Conservation Security Program (CSP)?                                | YES = 1 | 1371 |
| (iii) Conservation Reserve Program (CRP)?                                | YES = 1 | 1395 |
| (iv) Other programs? <i>(Specify:_____)</i>                              | YES = 1 | 1396 |

- |   |         | CODE |
|---|---------|------|
| b. Was this field included in an application that was rejected from an existing conservation program and if so, was it rejected from--- |         |      |
| (i) Environmental Quality Incentives Program (EQIP)?  | YES = 1 | 1397 |
| (ii) Conservation Security Program (CSP)?   | YES = 1 | 1398 |
| (iii) Conservation Reserve Program (CRP)?   | YES = 1 | 1399 |
| (iv) Other programs? <i>(Specify:_____)</i>   | YES = 1 | 1400 |

27. During 2007, did any written plan of the following types cover this field and if so, in what year was the plan implemented? <i>(A "written plan" is a plan prepared in accordance with Federal, State, or district standards.)</i>	CODE	YEAR IMPLEMENTED
a. Conservation plan specifying practices to reduce soil erosion? . . . . . YES = 1	1372	1373 ____
b. Comprehensive nutrient management plan specifying practices for applying both fertilizer and manure? . . . . . YES = 1	1374	1375 ____
c. Nutrient management plan specifying practices for land application of manure only? . . . . . YES = 1	1376	1377 ____
d. Pest management plan specifying pesticide use and/or other practices controlling weeds, insects, or plant disease? . . . . . YES = 1	1378	1379 ____
e. Irrigation water management plan specifying practices for applying or conserving irrigation water? . . . . . YES = 1	1380	1381 ____

[If items 27a, b, c, d, or e = YES, ask--]

28. Have you ever paid any technical service provider or consultant to develop or write any of these plans for which you or the landowner were reimbursed by the Natural Resource Conservation Service? . . . . . YES = 1

CODE  
1382

a. [If YES, ask--]

What was the reimbursement amount for developing these plans for this field? *(Include landlord's/contractor's share. Exclude cost of construction or materials.)* . . . . .

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
1383 _____		1384

29. Was the cotton in this field covered by Federal Crop Insurance in 2007?

YES – [Enter code 1 and continue]       NO – [Go to item 30]. . . . .

CODE  
1385

a. Which coverage did you obtain? . . . . .

- |   |   |
|---|---|
| 1 | Basic catastrophic insurance ( <i>Federal CAT</i> ) |
| 2 | Buy-up above basic federal CAT level                |
| 3 | Revenue insurance                                   |
| 4 | Organic plan insurance                              |
| 5 | Other Federal Crop insurance                        |

CODE  
1386

b. In what year did you (*the operator listed on the label*) first enroll this field in the Federal crop insurance program? . . . . .

YEAR  
1387  
\_\_\_\_

c. What is the 2007 Approved APH (*Actual production history*) yield for this field? . . . . .

POUNDS PER ACRE  
1388

d. What was the premium paid for Federal crop insurance for this field in 2007? [Exclude any sign-up fee.] . . . . .

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
1390 _____		1391

e. Did you (*or do you expect to*) collect an indemnity payment on this field? . . . . . YES = 1

CODE  
1392

30. Was the cotton in this field covered by private crop insurance in 2007?

*(Hail, wind, freeze, etc.)* . . . . . YES = 1

1393

a. Did you (*or do you expect to*) collect an indemnity payment on this field for private crop insurance? . . . . . YES = 1

1394

**C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD**

**C**

1. Were commercial FERTILIZERS applied to this field for the 2007 cotton crop? ..... YES = 1
2. [If COMMERCIAL fertilizer applied, continue, else go to item 5.]
3. How many commercial fertilizer applications were made to this field for the 2007 crop? (Include applications made by airplanes and custom applicators) .....
4. Now I need to record information for each application

CODE	EDIT TABLE
0202	0201

NUMBER
0203

**CHECKLIST**

✓ INCLUDE	✓ EXCLUDE
<input type="checkbox"/> Custom applied fertilizers	<input type="checkbox"/> Micronutrients
<input type="checkbox"/> Fertilizers applied in the fall of 2006 and those applied earlier if this field was fallow in 2006	<input type="checkbox"/> Unprocessed manure
<input type="checkbox"/> Commercially prepared manure or compost	<input type="checkbox"/> Fertilizer applied to previous crops in this field
	<input type="checkbox"/> Lime and Gypsum/landplaster

	T-TYPE	TABLE
	2	001
Line 99	Office Use Lines in Table	0213

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/Sidedressed in or over row
4 In seed furrow	8 Foliar or directed spray

LINE	2 MATERIALS USED				3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.]	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? [Refer to code list above.]	7 How many acres were treated in this application?  ACRES
	N Nitrogen	P <sub>2</sub> O <sub>5</sub> Phosphate	K <sub>2</sub> O Potash	S Sulfur					
01	0205	0206	0207	0214	0208	0209	0210	0211	0212
02	0205	0206	0207	0214	0208	0209	0210	0211	0212
03	0205	0206	0207	0214	0208	0209	0210	0211	0212
04	0205	0206	0207	0214	0208	0209	0210	0211	0212
05	0205	0206	0207	0214	0208	0209	0210	0211	0212
06	0205	0206	0207	0214	0208	0209	0210	0211	0212
07	0205	0206	0207	0214	0208	0209	0210	0211	0212
08	0205	0206	0207	0214	0208	0209	0210	0211	0212

T - TYPE 0	TABLE 000	LINE 00
---------------	--------------	------------

5. Were any fertilizers applied by custom applicators?

YES - [Continue]  NO - [Go to item 6]

a. Are you able to report the cost of fertilizer materials and custom application separately?

YES - [Continue]  NO - [Go to item 6]

OFFICE USE

0215

b. Excluding the cost of the fertilizer materials, how much was spent for custom application of fertilizers on this field?

(Include landlord and contractor costs. Include costs for sulfur and micronutrients. Exclude custom application of lime, gypsum, purchased manure & purchased compost.) [If material and application costs can't be separated, exclude them here and record the total in item 6.]

DOLLARS & CENTS PER ACRE

0219

OR

TOTAL DOLLARS

0220

DOLLARS & CENTS PER ACRE

0221

OR

TOTAL DOLLARS

0222

6. What was the TOTAL COST of all fertilizer products applied to this field?

(Include landlord and contractor costs. Include costs for sulfur and micronutrients. [If custom applied, include the cost of materials ONLY, unless materials and application costs cannot be separated.] Include materials applied to this field if it was fallow in 2006 Exclude lime, gypsum, purchased manure and purchased compost.)

CODE

0218

7. Was gypsum applied to this field for the 2007 cotton crop?

YES = 1

POUNDS PER ACRE

0217

8. What was your yield goal at planting for this field?

9. Was a soil or plant tissue test performed on this cotton field in 2006 or 2007 for the 2007 crop?

YES [Continue.]  NO [Go to item 14.]

CODE

0225

10. Was a soil test for phosphorus performed on this cotton field in 2006 or 2007 for the 2007 crop?

YES = 1

POUNDS PER ACRE

a. [If phosphorus test done, ask---

How many pounds of phosphorus (per acre) were recommended (by the phosphorus test)?

0226

CODE

0227

11. Was a soil test for nitrogen performed on this cotton field in 2006 or 2007 for the 2007 crop?

YES = 1

POUNDS PER ACRE

a. [If nitrogen test done, ask---

How many pounds of nitrogen (per acre) were recommended (by the nitrogen test)?

0228



12. Was a plant tissue test or leaf analysis for nutrient deficiency performed on this field in 2006 or 2007 for the 2007 crop?..... YES = 1

CODE  
0229

13. How much was spent for these soil and plant tissue tests on this field? [Include landlord and contractor costs.].....

DOLLARS & CENTS PER ACRE OR TOTAL DOLLARS  
0230 0231

a. If tests were done at no cost explain---

- 1 Soil/plant tissue test provided free of charge by dealer, crop consultant, or extension service.
2 Soil/plant tissue test costs were included in the total fertilizer costs reported in item 6.
3 Some other reason.

CODE  
0232

14. [Enumerator Action: Refer to the Fertilizer Table, column 2. If nitrogen (N) was applied, complete items 15, 16 and 17. If NO nitrogen applied, go to item 18.]

15. Was the amount of nitrogen you decided to apply to this field based on--- [Enter code "1" for all that apply.]

- a. Results of a soil or plant tissue test?..... YES = 1
b. Crop consultant recommendation?..... YES = 1
c. Fertilizer dealer recommendation?..... YES = 1
d. Extension Service recommendation?..... YES = 1
e. Cost of nitrogen and/or expected commodity price?..... YES = 1
f. Contractor recommendation?..... YES = 1
g. Routine practice (operator's own determination based on past experience, yield goal, etc.)?..... YES = 1

CODE  
0233  
0234  
0235  
0236  
0237  
0238  
0239

16. What share of the commercial nitrogen fertilizer applied to this field was purchased under contract or otherwise pre-purchased at a pre-determined price set prior to January 1, 2007?.....

PERCENT  
0279

17. 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)..... YES = 1

CODE  
0241

18. Is lime ever applied to this field?..... YES = 1

CODE  
0242

a. [If no lime applied, go to item 19, else continue.]

On average, how many years are there between applications of lime to this field?.....

YEARS  
0243

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

TONS PER ACRE  
0244

c. Was lime applied to this field in 2006 or 2007 for the 2007 crop?..... YES = 1

CODE  
0240

d. [If rented, (Section B, item 2 =2, 3, 4, or 5) ask---

Considering the last time it was applied, what percent of the total cost of lime and its application was paid by the landlord(s)?.....

PERCENT  
0245

19. Was unprocessed manure or other organic material (excluding compost) applied to this field for the 2007 cotton crop? (Exclude commercially prepared manure.)

YES - [Enter code 1 and continue]

NO - [Go to item 21].

CODE

0246

ACRES

0247

a. How many acres in this field was manure applied to?

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

- 1 TONS
- 2 GALLONS
- 3 BUSHELS

CODE

0248

AND

UNITS PER ACRE

0249

OR

TOTAL UNITS

0250

MILES

c. What is the distance between the manure storage/production location and this manured field?

0251

d. What was the capacity of the manure spreader used to apply manure to this field?

- 1 TONS
- 2 GALLONS
- 3 BUSHELS

CODE

0252

AND

TOTAL UNITS

0253

e. Of the total manure applied to this field for the 2007 crop, what was the percent of manure applied---

PERCENT

(i) in the fall before planting?

+

0254

(ii) in the spring before planting?

+

0255

(iii) after planting?

+

0256

100%

f. Was the manure---

- 1 Lagoon liquid?
- 2 Slurry liquid?
- 3 Semi-dry or dry?

CODE

0257

g. Was the manure---

- 1 Broadcast or sprayed without incorporation?
- 2 Broadcast or sprayed with incorporation?
- 3 Injected/knifed in?
- 4 Sprayed using irrigation systems?

CODE

0258

h. Was the major source of the manure from---

- 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

0259

i. Was the manure---

- 1 Produced on this operation?
- 2 Purchased (including any payment for transportation or application)?
- 3 Obtained at no cost off this operation?
- 4 Obtained with compensation?  
(Operator received payment for accepting the manure.)

CODE

0260

j. Was any manure applied to this field tested for nutrient content prior to application? . . . . . YES = 1 CODE  
0261

k. Was the application rate of commercial nitrogen fertilizer on this field reduced due to manure application? . . . . . YES = 1 CODE  
0262

[If YES, ask--]

(i) By what percent did you reduce the commercial nitrogen fertilizer application rate on this field? . . . . . PERCENT  
0263

l. Did you adjust the cotton harvest date in this field due to the application of manure? . . . . . YES = 1 CODE  
0280

20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions? . . . . . YES = 1 CODE  
0264

a. [If item 20 is YES, ask--]  
What basis was used to determine these manure application rate restrictions--

(i) Nitrogen requirement of the crop? . . . . . YES = 1 0265

(ii) Phosphorus requirement of the crop? . . . . . YES = 1 0266

21. Was compost applied to this field for the cotton crop?

YES - [Enter code 1 and continue]      NO - [Go to Section D]. . . . . CODE  
0267

a. How many acres in this field was the compost applied to? . . . . . ACRES  
0268

b. What was the amount of compost applied to this field? . . . . .

	1 Tons 2 Cubic Yards		CODE 0269	AND	UNITS PER ACRE 0270	OR	TOTAL UNITS 0271
--	-------------------------	--	--------------	-----	------------------------	----	---------------------

[Enter up to 3 source codes]

c. Were the major sources of the compost from-- . . . . .

	1 Beef cattle? 2 Dairy cattle? 3 Hogs? 4 Sheep? 5 Poultry? 6 Equine? 7 Biosolids (food waste)? 8 Crop? (Specify) _____ 9 Other? (Specify) _____	
		FIRST 0281
		SECOND 0282
		THIRD 0283

d. Was the compost-- . . . . .

	1 Produced on this operation? 2 Purchased (including any payment for transportation or application)? 3 Obtained at no cost off this operation? 4 Obtained with compensation? (Operator received payment for accepting the manure.)	
		CODE 0272

**D**

**PESTICIDE APPLICATIONS---SELECTED FIELD**

**D**

Now I have some questions about all the pesticides used on this field for the 2007 cotton crop including both custom applications and applications made by this operation.

1. Were any herbicides, insecticides, fungicides or other chemicals used on this cotton field for the 2007 crop?..... YES = 1

0302	0301
------	------

[Include biological pesticides such as Bt, insect growth regulators, pheromones, etc.]

[Probe for applications made in the fall of 2006 (and those made earlier if this field was fallow).]  
[If no pesticides applied, go to Section E.]

Include defoliant, fungicides, herbicides, insecticides, and other pesticides. Include biological and botanical pesticides.	Exclude fertilizers reported earlier and seed treatments.	T - TYPE	TABLE
		3	001
LINE 99		OFFICE USE LINE IN TABLE	0319

CHEMICAL PRODUCT NAME	LINE	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 Oz. 28 Dry Oz. 30 Grams
	01	0305		0306	0307	0308	0309	0310
	02	0305		0306	0307	0308	0309	0310
	03	0305		0306	0307	0308	0309	0310
	04	0305		0306	0307	0308	0309	0310
	05	0305		0306	0307	0308	0309	0310
	06	0305		0306	0307	0308	0309	0310
	07	0305		0306	0307	0308	0309	0310
	08	0305		0306	0307	0308	0309	0310
	09	0305		0306	0307	0308	0309	0310
	10	0305		0306	0307	0308	0309	0310
	11	0305		0306	0307	0308	0309	0310
	12	0305		0306	0307	0308	0309	0310
	13	0305		0306	0307	0308	0309	0310
	14	0305		0306	0307	0308	0309	0310

2. [For 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	

[ENUMERATOR NOTE:  
  
Use these columns only if  
TOTAL COST  
(item 4 on next page)  
cannot be provided.]

LINE	9	10	11	13	OPTIONAL ITEM 4 What was the cost per unit of the product?	
	How was this product applied? <i>[Enter code from above.]</i>	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?	DOLLARS and CENTS PER UNIT	UNIT CODE  1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Oz. 28 Dry Oz. 30 Grams
01	0311	0312	0313	0316	0317	0318
02	0311	0312	0313	0316	0317	0318
03	0311	0312	0313	0316	0317	0318
04	0311	0312	0313	0316	0317	0318
05	0311	0312	0313	0316	0317	0318
06	0311	0312	0313	0316	0317	0318
07	0311	0312	0313	0316	0317	0318
08	0311	0312	0313	0316	0317	0318
09	0311	0312	0313	0316	0317	0318
10	0311	0312	0313	0316	0317	0318
11	0311	0312	0313	0316	0317	0318
12	0311	0312	0313	0316	0317	0318
13	0311	0312	0313	0316	0317	0318
14	0311	0312	0313	0316	0317	0318

T-TYPE	TABLE	LINE
0	000	00

3. Were any chemicals or pesticides applied by custom applicators?

- YES - [Continue] NO - [Go to item 4]

OFFICE USE

a. Are you able to report the cost of chemical product and custom application separately?

0324

- YES - [Continue] NO - [Go to item 4]

b. Excluding the cost of the chemical product, how much was spent for custom application of chemicals and pesticides on this field?

DOLLAR & CENTS PER ACRE

OR TOTAL DOLLARS

0331

0332

(Include operator and landlord cost.)

DOLLAR & CENTS PER ACRE

OR TOTAL DOLLARS

4. What was the TOTAL COST of all chemical products applied to this field?

0334

0335

(Include operator and landlord cost, defoliant, herbicides, insecticides, fungicides, surfactants, wetting agents, growth regulators, and materials applied before planting and during 2006 fallow period. Exclude seed treatments.)

NOTE 1: If respondent cannot report TOTAL COST, itemize cost for each product in optional columns in Pesticide Table.

NOTE 2: For custom applications: If respondent cannot report cost of chemical product separately from application costs, report both in item 4.

5. Was the cotton that was grown in this field in 2007 covered by the boll weevil eradication program (BWEP)?

CODE

0325

YES = 1

[If YES, ask--]

a. What phase has the eradication program reached in this field--

- 1 Active eradication phase? 2 Post-eradication phase?

0336

DOLLARS & CENTS PER ACRE

OR DOLLARS & CENTS PER BALE

b. For 2007, what was your assessment on this field to participate in the BWEP?

0337

0338

(Include operator and landlord charges for the 2007 cotton whether paid prior to or after ginning.)

c. How did the level of secondary cotton pests in 2007 compare with the level prior to participating in the BWEP? (e.g. beet armyworm; budworms; plant bugs; or aphids)---

- 1 Increased? 2 Decreased? 3 No Change?

CODE

0339

ASK FOR CALIFORNIA and TEXAS ONLY

6. Was the cotton in this field covered by an area-wide pink bollworm eradication or suppression program (PBWP)?

CODE

0341

YES = 1

[If YES, ask--]

a. For the current crop year, what was your cost on this field to participate in the PBWP?

DOLLARS & CENTS PER ACRE

OR DOLLARS & CENTS PER BALE

0342

0343

(Include operator and landlord per acre and/or per bale charges for this year's cotton whether paid prior to or after ginning. If you receive a credit on your PBWP assessment for planting Bt cotton to control pink bollworm, report only the amount of the assessment you or your landlord paid.)

**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 2007 cotton crop. By pests, we mean WEEDS, INSECTS, and DISEASES.

T-TYPE	TABLE	LINE
0	000	00

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

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

2. Was weather data used to assist in determining either the need for or timing of pesticide applications?..... YES = 1

CODE
0800

3. Were any biological pesticides such as Bt (*Bacillus thuringiensis*), 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
------

5. [Enumeration Action: Were HERBICIDES used (pesticide product codes 3000-4999), Section D, item 1, column 2?]

- YES - [Continue]  NO - [Go to item 8]

6. Were herbicides applied to this cotton field BEFORE weeds emerged?..... YES = 1

[If item 6 = YES, ask---]..... YES = 1

CODE
0803

a. Were the herbicides applied BEFORE weeds emerged on this cotton field based primarily on---

1 routine treatments of what <b>weeds</b> are usually present?
<b>OR</b>
2 weed scouting from the previous year?

CODE
0804

7. Were herbicides applied to this cotton field AFTER weeds emerged?..... YES = 1

[If item 7 = YES, ask---]..... YES = 1

CODE
0805

a. Were the herbicides applied AFTER weeds emerged on this cotton field based primarily on---

1 routine treatments of what <b>weeds</b> are usually present?
<b>OR</b>
2 weed scouting from the current year?

CODE
0806

8. [Enumeration Action: Were INSECTICIDES used (pesticide product codes 1000 – 2999), in Section D, item 1, column 2?]

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

9. Were the insecticides applied to this cotton field based primarily on---

1 routine treatments of what <b>insects</b> are usually present?
<b>OR</b>
2 scouting for insect infestation?

CODE
0807

10. In 2007, how was this field primarily scouted for insects, weeds, diseases, and/or beneficial organisms---

	<p>1 By deliberately going to the field specifically for scouting activities? [Enter code 1 and go to item 11.]</p> <p>2 By conducting general observations while performing routine tasks? [Enter code 2 and go to item 13.]</p> <p>3 This field was not scouted. [Enter code 3 and go to item 18.]</p>	<p>CODE</p> <p>0808</p>
--	--	-------------------------

11. Was an established scouting process used (systematic sampling, recording counts, etc.) or were insect traps used in this field? [Exclude traps checked as part of either BWEF or PBWP].

YES = 1

	<p>CODE</p> <p>0809</p>
--	-------------------------

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

a. a pest advisory warning? .....	YES = 1	<p>CODE</p> <p>0810</p>
b. a pest development model? .....	YES = 1	<p>0811</p>

	1	2	3
		<p>[If YES, ask---] Was the infestation level for [column 1]—</p> <p>1 Worse than normal</p> <p>2 Normal</p> <p>3 Less than normal</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</p> <p>2 An employee</p> <p>3 Farm supply or chemical dealer</p> <p>4 Independent crop consultant or commercial scout</p>
<b>13. Was this cotton field scouted for--</b>	<b>YES = 1</b>	<b>CODE</b>	<b>CODE</b>
a. Weeds? .....	0812	0813	0814
b. Insects or mites? .....	0815	0816	0817
c. Diseases? .....	0818	0819	0820

14. [If item 13, column 3 = 3 or 4), ask--- else go to item 15.]

**How much did you pay for the scouting services for this field?**  
 [Include landlord and contractor cost.] .....

	<p>DOLLARS &amp; CENTS PER ACRE</p> <p>0835</p>	OR	<p>TOTAL DOLLARS</p> <p>0836</p>
--	---	----	----------------------------------

a. [Note: If scouting performed at no cost, explain: \_\_\_\_\_]

	<p>OFFICE USE</p> <p>0333</p>
--	-------------------------------



		CODE
15. Were written or electronic records kept for this field to track the activity or numbers of weeds, insects or diseases? .....	YES = 1	0838
16. Was scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests in field? .....	YES = 1	0839
17. Did you use field mapping of previous weed problems to assist you in making weed management decisions? .....	YES = 1	0840
18. Did you do any of the following other type(s) of pest management practices 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? .....	YES = 1	0841
b. Plow down crop residues ( <i>using conventional tillage</i> )? .....	YES = 1	0842
c. Remove/burn down crop residue? .....	YES = 1	0843
d. Rotate crops in this field during the past 3 years? .....	YES = 1	0844
e. Maintain ground covers, mulches, or other physical barriers? .....	YES = 1	0845
f. Choose crop variety because of specific resistance to certain pest? .....	YES = 1	0846
g. Use no-till or minimum till? .....	YES = 1	0847
h. Plan planting locations to avoid cross infestation of pests? .....	YES = 1	0848
i. Adjust planting or harvesting dates? .....	YES = 1	0849
j. Chop, spray, mow, plow, or burn field edges, lanes, ditches, roadways, or fence lines? .....	YES = 1	0850
k. Clean equipment and field implements after completing field work to reduce the spread of pests? .....	YES = 1	0851
l. Adjust row spacing, plant density or row directions? .....	YES = 1	0852
m. Have the seed used in this field treated for insect or disease control after you purchased the seed? .....	YES = 1	0854
n. Maintain a beneficial insect or vertebrate habitat? .....	YES = 1	0855
o. Maintain buffer strips or border rows to isolate organic cotton from non-organic crops or land, or did you take a buffer harvest? .....	YES = 1	0856
p. Use a flamer to kill weeds? .....	YES = 1	0857
19. Was this field cultivated for weed control during the growing season? .....	YES = 1	0863
a. [If YES, ask--]		NUMBER
How many times did you cultivate this field for weed control during the growing season? .....		0864

20. Were any beneficial organisms (*insects, nematodes, fungi*) applied or released in this field to manage pests? ..... YES = 1
21. Were floral lures, attractants, repellants, pheromone traps or other biological pest controls used on this field? ..... YES = 1   
 [If item 20 or 21 = YES, ask---]
- a. What were the TOTAL materials and application costs for all biological pests controls for this field? .....  
*[Include landlord's and contractor's share. Include cost for beneficial organisms (insects, nematodes, and fungi). Exclude biological pesticides and BWEF traps.]* .....  
 DOLLARS & CENTS PER ACRE OR TOTAL DOLLARS  
 .....
22. Was a trap crop grown to help manage insects in this field? ..... 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 (*i.e. aflatoxin*)? ..... YES = 1  CODE
24. Was protection of beneficial organisms a factor in your pest control decisions for this field? ..... YES = 1

**PEST MANAGEMENT INFORMATION**

25. [Show Pest Management Information Sources Code List from Respondent Booklet.]  
 Which outside sources of information on pest management practices and products were used for the 2007 cotton crop?  
 (Starting with the most influential in determining the pest management practices used on this operation, enter code(s) for up to 3 sources.)

**PEST MANAGEMENT INFORMATION SOURCES CODE LIST**

- |   |  |
|---|--|
| 1 County, Cooperative, or University Extension Advisor, Publications or demonstrations<br>2 Farm Supply or Chemical Dealer<br>3 Commercial Scouting Service<br>4 Independent Crop Consultant or Pest Control Advisor/Custom Applicator<br>5 Other Growers or Producers<br>6 Producer Associations, Newsletters or Trade Magazines<br>7 Electronic Information Services ( <i>DTN, Internet, World Wide Web, etc.</i> )<br>8 Employee Pest Advisor<br>11 Other – (Specify: _____)<br>12 None – Operator used no <b>outside</b> information source | [Enter up to 3 source codes.]<br><br><b>FIRST</b><br><input type="text" value="0865"/><br><br><b>SECOND</b><br><input type="text" value="0866"/><br><br><b>THIRD</b><br><input type="text" value="0867"/><br><br><b>CODE</b> |
|---|--|

26. Other than pesticide applicator training, have you (the operator) attended any training session on pest identification and management since October 1, 2006? ..... YES = 1

Completion Code for Pest Management Data	
1- Incomp/R	0340

**NOTES**

**F FIELD OPERATIONS---SELECTED FIELD**

**F**

**1. Including custom operations, I need to list field work performed by machines on this field for the 2007 cotton crop. Please...**

- ▶ Begin with the first field operation after harvest of previous crop. (If fallow during 2006, list operations starting with fall 2005.)
- ▶ List the operations in order through harvest and hauling of this crop to storage or first point of sale. and
- ▶ Maintain the order of tandem hook-ups.

CODES FOR COLUMN 5	
1	You (The Operator)?
2	Partner?
3	Unpaid Worker?
4	Paid Part-time or Seasonal Worker?
5	Paid Full-time Worker?
6	Custom Applicator?---[Skip columns 6-11.]

**CHECK LIST**

- Include** all field work using machines for--
- Land Forming/Levee Building
  - Tillage
  - Preparing for Irrigation
  - Planting
  - Fertilizer & Pesticide applications
  - Harvesting
  - Module Building
  - Hauling from field to gin
- Exclude**
- Lime & Gypsum/landplaster applications
  - Non-Commercial manure applications and compost

2 SEQUENCE No.	3 What operation or equipment was used?	4 [Record machine code from Respondent Booklet.] CODE	5 Who was the machine operator- [Enter code from above.] CODE	[IF CUSTOM(column 5 = code 6), skip columns 6-11]					
				6 What was the size or swath of the [machine] used? CODE	7 [Record size code.] CODE	8 How many acres were covered? [Exclude land forming and hauling operations] ACRES	OR 9 How many TOTAL HOURS were spent on land forming and hauling? [Example: backhoes, disk border maker, ditcher, rear mounted blade, trucks, wagons, forklifts, etc.] HOURS	10 Which Power Source was used? <sup>1/</sup> Tractors: 1= (<50 HP) 2= (50-99 HP) 3= (100-149 HP) 4= (150-199 HP) 5= (>=200 HP) Other: 66=Animal Drawn 77=Pick up 99=Self Propelled CODE	11 What was the fuel type of the tractor? [Record fuel type only if Power code equals 1-5] 1=diesel 2=gasoline 3=LP gas 4=other CODE
0351		0352	0353	0354	0355	0356	0359	0357	0358
0361		0362	0363	0364	0365	0366	0369	0367	0368
0371		0372	0373	0374	0375	0376	0379	0377	0378
0381		0382	0383	0384	0385	0386	0389	0387	0388
0391		0392	0393	0394	0395	0396	0399	0397	0398
0401		0402	0403	0404	0405	0406	0409	0407	0408
0411		0412	0413	0414	0415	0416	0419	0417	0418
0421		0422	0423	0424	0425	0426	0429	0427	0428
0431		0432	0433	0434	0435	0436	0439	0437	0438
0441		0442	0443	0444	0445	0446	0449	0447	0448
0451		0452	0453	0454	0455	0456	0459	0457	0458
0461		0462	0463	0464	0465	0466	0469	0467	0468
0471		0472	0473	0474	0475	0476	0479	0477	0478
0481		0482	0483	0484	0485	0486	0489	0487	0488
0491		0492	0493	0494	0495	0496	0499	0497	0498
0501		0502	0503	0504	0505	0506	0509	0507	0508
0511		0512	0513	0514	0515	0516	0519	0517	0518
0521		0522	0523	0524	0525	0526	0529	0527	0528

<sup>1/</sup> If a truck was used for hauling, use power source code 99. If a truck was used to power another machine, use truck codes in Respondent Booklet.

**OFFICE USE**

**ENUMERATOR NOTE: Please complete the checklist at top of page for this table.**

0032

2. Now I need some additional information about your labor. Exclude labor that was reported for field work performed by machines.

Please report the paid and unpaid labor that worked on this field to produce the 2007 cotton crop.

TYPE OF WORKERS	1 How many hours did (type of worker) spend on this field---		
	a.	b.	c.
	scouting for weeds, insects and diseases?  HOURS	irrigating?  HOURS	other work performed by hand?  HOURS
You (the operator)	1101	1102	1103
Partner(s)	1104	1105	1106
Unpaid workers	1107	1108	1109
Paid part-time or seasonal workers (Exclude custom and contract labor)	1110	1111	1112
Paid full-time workers (Exclude custom and contract labor)	1113	1114	1115

3. What was the average hourly wage rate paid to full-time hired workers on this field?  
(Exclude custom and contract workers, payroll taxes and benefits.) . . . . .

DOLLARS & CENTS  
PER HOUR

1116
.\_ \_

4. What was the average hourly wage rate paid to part-time or seasonal hired workers on this field?  
(Exclude custom and contract workers, payroll taxes and benefits.) . . . . .

DOLLARS & CENTS  
PER HOUR

1117
.\_ \_

5. Was any contract labor used on this field? . . . . . YES = 1

CODE

1118

a. If YES, ask – What was the average cost per acre for this contract labor?  
(Include landlord and contractor costs.) . . . . .

DOLLARS & CENTS  
PER ACRE

1119
.\_ \_

6. What percent of the total hours worked on this field by UNPAID workers was worked by children under 16 years old? . . . . .

PERCENT

1120

7. Now I need some information on how much was spent for custom services used on this field for the 2007 cotton crop.

1	2
CUSTOM SERVICE	Including landlord's/contractor's cost, how much was spent for [column 1] on this field for the 2007 cotton crop?
Which of these services were done for the 2007 cotton crop on this field?	DOLLARS & CENTS PER ACRE
[Check <input checked="" type="checkbox"/> box for each service performed; refer to Item 1, column 5 if necessary.]	
<input type="checkbox"/> a. custom land preparation, shaping and/or leveling? ..... ( _____ X _____ = _____ ÷ _____ = _____ ) Cost per hour X Total hours = Total dollars + Total Acres in the field = Dollars & Cents per acre.	1121 _____
<input type="checkbox"/> b. custom cultivating? .....	1122 _____
<input type="checkbox"/> c. custom planting and/or reseeding? .....	1123 _____
<input type="checkbox"/> d. custom harvesting? .....	1124 _____
<input type="checkbox"/> e. custom module building? ..... ( _____ X _____ ÷ _____ = _____ ) Dollars & Cents per unit x Total units built ÷ Total acres in field = Dollars & Cents per acre.	1125 _____
<input type="checkbox"/> f. custom hauling from field to gin? ..... ( _____ X _____ ÷ _____ = _____ ) Dollars & Cents per unit x Total units hauled from field ÷ Total acres in field = Dollars & Cents per acre.	1126 _____
<input type="checkbox"/> g. custom harvesting, module building and hauling from field to gin? ..... [If custom harvesting, module building and hauling cannot be separated ask---] ( _____ X _____ ÷ _____ = _____ ) Dollars & Cents per unit x Total units hauled from field ÷ Total acres in field = Dollars & Cents per acre.	1128 _____

8. Did you hire any technical or consultant services to make recommendations for this field? (such as for nutrient, pest control, irrigation, or precision farming recommendations)

YES - [Continue]       NO - [Go to section G]

	CODE
a. Nutrient recommendations/management service? ..... YES = 1	1129
b. Collect soil or tissue samples? ..... YES = 1	1130
c. Pest control recommendations/management service? ..... YES = 1	1131
d. Pest scouting (Exclude any activity for the BWEP or PBWP)? ..... YES = 1	1132
e. Irrigation management service (i.e. irrigation scheduling)? ..... YES = 1	1133
f. Yield map or remote sensing map development/interpretation? ..... YES = 1	1134
g. Other custom or technical service? (Specify: _____) ..... YES = 1	1135

9. If YES to any of these services, what was the cost for all of these services?

(Include landlord/contractor cost.

Exclude cost of soil/tissue tests or scouting cost reported earlier.

Do not report costs for any of these services if they were previously reported as part of the costs of materials and/or application.)

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
1136 _____		1137 _____

		CODE
10. <b>Was there (will there be) a yield monitor on the equipment used to harvest this cotton field?</b> .....	YES = 1	1138
<i>[If item 10 is YES, continue--- else go to item 11]</i>		
a. Was there (will there be) a yield map produced from this harvest using information from the yield monitor?.....	YES = 1	1139
b. Did you use the yield monitor information to--- <i>[Enter code for all that apply.]</i>		
(i) add/improve tile drainage?.....	YES = 1	1141
(ii) add/improve irrigation equipment/irrigation water application?.....	YES = 1	1142
(iii) conduct in-field experiments (e.g., compare fertilizer applications, seed varieties, herbicides, pesticides, etc)?.....	YES = 1	1143
(iv) negotiate new crop leases?.....	YES = 1	1144
(v) document yields for crop insurance, real estate tax, or farm program purposes?.....	YES = 1	1145
(vi) accurately divide crop production among partners and/or for landlord crop shares?.....	YES = 1	1146
(vii) other uses [specify _____].....	YES = 1	1147
CODE		
11. <b>During 2006 or 2007, was a GPS (Global Positioning System) device used to produce a map of the soil properties of this field?</b> .....	YES = 1	1148
<i>(such as nitrate levels, PH, soil type, etc.)</i> .....		
<i>[If item 11 is YES, ask—]</i>		
a. Was the information collected above based on---	1 soil tests from this field? 2 a machine that measured electrical conductivity of the soil in this field (e.g. Veris machine)? 3 other? Specify _____	CODE 1149
CODE		
12. <b>Did you have an airplane or satellite provide an image or photograph of this field either at the start or during the 2007 growing season?</b> .....	YES = 1	1151
<i>(Include imagery provided at no cost.)</i> .....		
13. <b>Was a variable rate applicator (i.e., variable rate technology or VRT; include on-the-go systems such as GreenSeeker) used on this field for---</b>		
a. fertilization or liming?.....	YES = 1	1152
(i) <i>If YES, ask---Did you use a variable rate applicator for--- [Enter code "1" for all that apply.]</i>		
(1) nitrogen applications?.....	YES = 1	1153
(2) phosphorus applications?.....	YES = 1	1154
(3) potash applications?.....	YES = 1	1155
(4) lime applications?.....	YES = 1	1156
(5) manure applications?.....	YES = 1	1157
b. seeding?.....	YES = 1	1158
c. pesticide applications?.....	YES = 1	1159
14. <b>Was a guidance or auto-steering system (connected to G.P.S.) used with any machine operation on this field (e.g. light bar, assisted steering, automatic steering, etc. – exclude custom operations)?</b> .....	YES = 1	1150

ACRES

1. How many acres in this field were irrigated for the 2007 cotton crop?

[If none, go to Section H]. . . . .

1160
------

2. Now, I have some questions about irrigation systems and water used on this field for the 2007 cotton crop.

		UNIT	SYSTEM 1	SYSTEM 2
a. What type(s) of irrigation system(s) was used to irrigate this field? [Show System Type Codes in the Respondent Booklet. Enter System Type Code for up to two systems covering the most field acres.]	↓	SYSTEM TYPE CODE	1161	1175
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	1162	1176
		OR TOTAL ACRE-FEET	1163	1177
[If operator cannot provide item 2b, ask (i) & (ii)---, else go to 2c]				
(i) What is the total number of hours this system was used to apply water to this field during the cotton growing season? . . . . .		TOTAL HOURS	1164	1178
(ii) How many gallons per minute were applied? . . . . .		GALLONS PER MINUTE	1165	1179
c. What percent of the water used to irrigate this field through this system came from surface water sources? . . . . .		PERCENT	1166	1180
d. What was the number of times this field was irrigated during the cotton growing season using this system? [Include any pre-plant irrigation.]		NUMBER OF IRRIGATIONS	1167	1181
e. Was the pump type--- [If more than one pump in the system, enter type for pump closest to water source.]	1 TURBINE? 2 SUBMERSIBLE? 3 CENTRIFUGAL? 4 BOOSTER? 5 SIPHON? 99 NO PUMP? [If code 99, go to item j.]	CODE	1168	1182
f. What was the average pumping rate? . . . . .		GALLONS PER MINUTE	1169	1183
g. [If item 2a = code 1-9 (PRESSURE SYSTEM), ask---] What was the system operating pressure? . . . . .		POUNDS PER SQUARE INCH	1170	1184
h. What was the primary motor type used to pump the water?	1 DIESEL 2 GASOLINE 3 LP GAS 4 NATURAL GAS 5 ELECTRICITY 6 SOLAR POWER	CODE	1171	1185
i. What was the average motor size? . . . . .		HORSEPOWER	1172	1186
j. [If NO PUMP was used (item 2e = 99), ask---] What was the average flow rate? . . . . .		GALLONS PER MINUTE	1173	1187
k. How many other acres on this operation were irrigated using this field's irrigation system during the 2007 growing season? (Exclude this field)		ACRES	1174	1188

DOLLARS & CENTS PER ACRE

OR TOTAL DOLLARS

3. What was the cost of the fuel or electricity used to irrigate this field? . . . . .

1189
------

1190
------



4. Was any water purchased to irrigate this field?

(Include landlord's share and purchases from all sources.)

CODE

YES - [Enter code 1 and continue.]

NO - [Go to item 5.]

1191

PERCENT

a. What percent of the water used on this field was purchased?

1192

DOLLARS & CENTS PER ACRE

OR

TOTAL DOLLARS

b. What was the total cost for the water purchased for this field during the 2007 growing season?

(Include landlord and contractor costs and ditch maintenance costs.)

1193

1194

5. [If SIPHON TUBES were used (item 2a = 10 or 11), ask--]

TOTAL DOLLARS

What would be the total cost to replace all the siphon tubes used on this field?

1201

6 [If POLY PIPE system were used (item 2a = 14) ask--]

TOTAL DOLLARS

What was the total amount spent for poly pipe used on this field during the 2007 growing season?

1202

7. [If GATED PIPE system were used (item 2a = 15 or 16), ask--]

INCHES

a. What was the average diameter of gated pipe used to irrigate this field?

1203

FEET

b. What was the total length of gated pipe used?

1204

8. Were wells used to supply irrigation water for this field?

CODE

YES - [Enter code 1 and continue]

NO - [Go to item 9.]

1205

NUMBER

a. How many wells were used to irrigate this field?

1206

INCHES

b. What was the average diameter of the outer well casing?

1207

FEET

c. What was the average pumping depth of these wells during the irrigation season?

[Pumping depth is the depth to water at the start of the irrigation season,

plus an average decline in the water level caused by pumping during the irrigation season.]

1208

CODE

d. Did this well(s) have a water meter or other flow measurement device? YES = 1

1209

e. Were other fields irrigated using water pumped from well(s) that supplied water to the selected field?

CODE

YES - [Enter code 1 and continue]

NO - [Go to item 9.]

1210

ACRES

(i) Excluding this field, how many other acres on this operation were irrigated using the same well(s) during the 2007 growing season?

1211

9. Was any additional mainline or lateral pipe used to carry water from the source to the system in this field?

(Include underground pipe. Exclude any system pipe within the selected field.)

YES - [Continue.]

NO - [Go to item 10.]

a. What was the average diameter (in inches) of the most common type of this additional pipe used? .....

INCHES

1212

b. How many feet of this additional pipe were used to bring water to this field? .....

FEET

1213

10. Is the run-off from this field .....

RUN-OFF CODES

- 1 retained at the end of the field?
- 2 reused to irrigate on the farm?
- 3 collected in evaporation ponds on the farm?
- 4 drained from the farm?
- 5 there is no run-off.

CODE

1214

1. In response to high fuel prices during the 2007 crop year for cotton, did you:

- a. reduce the number of field operations such as tillage, cultivation, or nutrient and pesticide applications on this field (i.e., compared to what you would have otherwise)?..... YES = 1 CODE  
1220
- b. reduce the amount of irrigation water on this field (i.e., compared to what you would have otherwise applied)?..... YES = 1 1222
- c. change other production practices on this field? [If yes, specify \_\_\_\_\_] YES = 1 1223

2. In response to high fertilizer prices during the 2007 crop year for cotton, did you:

- a. reduce the application rate of commercial nitrogen fertilizer on this field (i.e., compared to what you would have otherwise applied)?..... YES = 1 1224
- [If YES, ask--]
- (i) by what percent did you reduce the amount of commercial nitrogen fertilizer for 2007?..... PERCENT  
1225
- b. change the type of commercial nitrogen fertilizer products applied on this field (i.e., compared to what you would have otherwise applied)? [e.g. less anhydrous ammonia and more UAN]..... YES = 1 CODE  
1226
- c. increase the application rate of manure or other organic fertilizers on this field (i.e., compared to what you would have otherwise applied)?..... YES = 1 1227
- d. manage fertilizer more closely, with such practices as soil testing, split applications, variable rate applications, or soil incorporation on this field (i.e., compared to what you would have otherwise done)?..... YES = 1 1228

# CONCLUSION

## LOCATION OF SELECTED FIELD

1. I need to locate the selected field of cotton on this map.

OFFICE USE  
COUNTY FIPS  
CODE

What county/parish is the cotton field in? .....

COUNTY/PARISH NAME

0010

Field description .....

## FOR STATES WITH GPS UNITS ONLY

Field location .....

N

LATITUDE

0054

d d . m m s s

W

LONGITUDE

0055

d d d . m m s s

2. [ENUMERATOR ACTION:

*Mark map to indicate where the selected cotton field is located.*

*Be sure the "X" marked on map is in the county/parish identified above.]*

3. We will need additional information to complete this study. We will contact you in February or March 2008 to collect it. I'll call you then to set up a time that is good for you.

4. Would you like to receive a free copy of the results of this survey in the mail?

(Results will also be available on the Internet at <http://www.nass.usda.gov/> & <http://www.ers.usda.gov/>.) ..... YES = 1

CODE

0099

HH MM

0005

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

## RECORDS USE

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

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

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

c. [majority of this expense data?] ..... YES = 1

CODE

0011

0012

0013

## SUPPLEMENTS USED

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

FERTILIZER APPLICATIONS

0041

PESTICIDE APPLICATIONS

0042

FIELD OPERATIONS

0043

Reported by: \_\_\_\_\_ Telephone: (\_\_\_\_) \_\_\_\_\_

PARTNERS STRATUM SAMPLE 182					Duplication Adjustor		Office Use for POID			
OFFICE USE	0925	0926	0927	0928	0922		0789			
Response	Respondent		Mode		Enum	Eval.	Date		Optional	
							MM DD YY			
1-Comp	9901	1- Op/Mgr	9902	2-Tel	9903	0098	0100	9910	0002	0003
2-R		2-Sp		3-Face-to-						
3-Inac		3-Acct/Bkpr		Face				____07		
		4-Partner								
		9-Other								
S/E Name										