



AGRICULTURAL RESOURCE MANAGEMENT SURVEY COTTON PRODUCTION PRACTICES AND COSTS REPORT



**NATIONAL
AGRICULTURAL
STATISTICS
SERVICE**

DRAFT - for 2014

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



CONTACT RECORD		
DATE	TIME	NOTES

We are collecting information on costs and returns and need your help to make the information as accurate as possible. Authority for collection of information on the Costs and Returns Report is Title 7, Section 2204 of the U.S. Code. Under Title 7 of the U.S. Code and CIPSEA (Public Law 107-347), facts about your operation are kept **confidential** and used only for statistical purposes. Response is **voluntary**. You may skip any question(s) you prefer not to answer.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0535-0218. The time required to complete this information collection is estimated to average 65 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

DRAFT

BEGINNING TIME
[MILITARY]

H H M M
0004 _____

1. 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.]
2. Please answer the following question(s) for the total acres you (name on label) operate.
 - a. Have or will you grow any crops or cut hay in 2014? **Yes** [Go to Item 3] **No** [Continue]
 - b. During 2014, did this operation sell any agricultural products or receive government agricultural payments? **Yes** [Go to Item 3] **No** [Continue]
 - c. Have or will you own or raise any livestock or poultry? **Yes** [Go to Item 3] **No** [Go to conclusion]
3. Are the day-to-day decisions for this (name on label) operation made by one individual, a hired manager, or partners? [Check one]

OFFICE USE

REPORTING UNIT

0921

 - One individual - [Enter 1, Go to item 5]
 - A hired manager - [Enter 8, Go to item 5]
 - Partners - [Continue]

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.

POID _____	POID _____
<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>
POID _____	POID _____
<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 2014? ACRES
0049 .____

a. How many acres of cotton did this operation [Operation 1] plant in 2014? 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.]

OPERATION 2: ►	PARTNERS: POID _____
<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>
POID _____	POID _____
<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>
POID _____	
<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 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 2014 [**Operation 2**]?

ACRES
0033

c. How many acres of cotton did you plant in 2014 [**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]

OPERATION 3: ►	PARTNERS: POID _____
<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>
POID _____	POID _____
<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>
POID _____	
<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 2014 [**Operation 3**]?

ACRES
0035

c. How many acres of cotton did you plant in 2014 [**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]

OPERATION 4: ▶	PARTNERS: POID _____
OPERATION NAME (IF ANY)	
OPERATION NAME	PARTNER 1: NAME
ADDRESS	ADDRESS
CITY STATE ZIP PHONE	CITY STATE ZIP PHONE

a. Are the day-to-day decisions for this farming/ranching operation **[Operation 4]** made by---

an individual operator?
[Enter 1 and Continue]

a hired manager?
[Enter 8 and Continue]

Partners? [List/verify partners in Partner Boxes above]

0934

POID _____
PARTNER 2: NAME
ADDRESS
CITY STATE ZIP PHONE

b. How many acres of cropland did you operate in 2014 **[Operation 4]**?

0037

POID _____
PARTNER 3: NAME

c. How many acres of cotton did you plant in 2014 **[Operation 4]**?

0038

ADDRESS
CITY STATE ZIP PHONE

[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]

OPERATION 5: ▶	PARTNERS: POID _____
OPERATION NAME (IF ANY)	
OPERATION NAME	PARTNER 1: NAME
ADDRESS	ADDRESS
CITY STATE ZIP PHONE	CITY STATE ZIP PHONE

a. Are the day-to-day decisions for this farming/ranching operation **[Operation 5]** made by---

an individual operator?
[Enter 1 and Continue]

a hired manager?
[Enter 8 and Continue]

Partners? [List/verify partners in Partner Boxes above]

0935

POID _____
PARTNER 2: NAME
ADDRESS
CITY STATE ZIP PHONE

b. How many acres of cropland did you operate in 2014 **[Operation 5]**?

0039

POID _____
PARTNER 3: NAME

c. How many acres of cotton did you plant in 2014 **[Operation 5]**?

0040

ADDRESS
CITY STATE ZIP PHONE

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.]

'Apply Random Operation Label'

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.

COTTON FIELD SELECTION

1. How many acres of cotton did this operation plant for the 2014 crop year?

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

TOTAL PLANTED
ACRES

0050

2. I will follow a simple procedure to make a random selection from the cotton fields planted for the 2014 crop.

TOTAL NUMBER OF
FIELDS PLANTED

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

0020

[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

1
2
3
4
5
6
7
8
9

FIELD NAME, NUMBER OR DESCRIPTION

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

1. **How many acres of cotton did this operation plant in this field for the 2014 crop?** ACRES
[If skip-row cotton was planted, exclude acreage in the skips.] 1301

a. Are the acres in this field **CERTIFIED ORGANIC?** YES=1 1311
[If YES, ask – else go to item 1b]

(i) What year was cotton from this field first certified? 1322
YEAR

b. Was this field transitioning into organic cotton production in 2014? 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
CODE

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 2014 field? 1303
[If item 2 = 2, ask items 3a, 3b, and 3c---else go to item 4]
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)? 1309
ACRES

b. What was the total amount of the Direct Payment under the 2014 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)? . . . 1310
[Note: Under cash rent arrangements, the tenant should receive all payments.]
TOTAL DOLLARS

c. When you signed the cash lease for this cotton field, did you expect a Counter-cyclical Payment would be declared in 2014? YES=1 1312
CODE

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 2014 crop? 1305 DOLLARS & CENTS PER ACRE OR 1306 TOTAL DOLLARS
(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.)

6. **What type of cotton was planted on this field?** 1320

1	Upland
2	Pima – extra long staple or ELS

CODE

7. **What year did you (the operator listed on the label) start operating this field?** 1307
YEAR
MM DD YY

8. On what date was this field planted?

1308

**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 UNITS 1314

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

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

b. What was the average cotton row width? INCHES 1323

10. **Did this field have skip-row cotton?** YES = 1 CODE 1321
 [If no skip-row, go to item 11.]

a. What was the common skip pattern? ROWS OF COTTON BY ROWS OF SKIP 1316 1317

b. What was the average width of the skip? INCHES 1319

11. **How many acres in this field had to be replanted to cotton?** ACRES 1318
 (Number of acres times the number of times replanted)

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.)

	DOLLARS & CENTS PER UNIT	UNIT CODE 1=POUNDS 22=ACRE 23=APPROX 50 LB. BAG 40 =250,000 SEED BAG 42= BOLL BOX	PERCENT of SEED PLANTED
a. Genetically-modified purchased seed?	1344	1345	1346
b. Non-genetically-modified purchased seed?	1347	1348	1349
c. Homegrown seed?			1340

100%

[If homegrown, ask---]

(i) What was the cost for cleaning and treating this seed? CENTS PER POUND 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.]

	CODE
a. in 2014?	1341
b. in 2013? [Leave blank if cotton was not on this field in 2013].	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---

	CODE
1 Increase yields through improved pest (weed or insect) control?	1343
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 _____]	

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---]

	CODE	DOLLARS
1 Per Acre	1362	1363
2 Per Bag		
3 Per Boll Box		

What was the technology fee paid?

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

In 2014, 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.	1364
2 Concerned about finding a market for Bt cotton.	
3 This field was used as refuge in 2014.	
4 Concerned about the environmental impact of Bt cotton.	
5 None of the above.	

CODE

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?** **YES = 1**

1328

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

ACRES

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

1335	.	_____
------	---	-------

POUNDS PER ACRE

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

1389

ACRES

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

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 No crop planted 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 2013?		1352
b. SPRING/SUMMER of 2013?		1353
c. FALL of 2012?		1354
d. SPRING/SUMMER of 2012?		1355
e. FALL of 2011?		1356
f. SPRING/SUMMER of 2011?		1357

22. In 2014 did your land-use practices for this field include--	CODE
a. Structures for soil erosion control? 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. Structures for storm water runoff control/handling? 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. Filter strips or other conservation buffers? 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. Drainage? 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. Other Practices? 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 2014, did you receive technical assistance for planning, installing, maintaining, or using conservation practices or systems on this field? <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.]

a. Have (or will) you receive cost sharing or incentive payments from---		CODE
(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? (Specify:_____)	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? (Specify:_____)	YES = 1	1400

27. During 2014, 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 2014?

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 2014 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 2014? [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 2014? (*Hail, wind, freeze, etc.*) YES = 1

CODE
1393

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

CODE
1394

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

1. **Were commercial FERTILIZERS applied to this field for the 2014 cotton crop?** YES = 1

CODE 0202	EDIT TABLE 0201
--------------	--------------------

2. [If COMMERCIAL fertilizer applied, continue, else go to item 5.]

3. **How many commercial fertilizer applications were made to this field for the 2014 crop?** (Include applications made by airplanes and custom applicators)

NUMBER 0203

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

CHECKLIST		T-TYPE	TABLE
<input checked="" type="checkbox"/> INCLUDE <input type="checkbox"/> Custom applied fertilizers <input type="checkbox"/> Fertilizers applied in the fall of 2013 and those applied earlier if this field was fallow in 2013 <input type="checkbox"/> Commercially prepared manure or compost	<input checked="" type="checkbox"/> EXCLUDE <input type="checkbox"/> Micronutrients <input type="checkbox"/> Unprocessed manure <input type="checkbox"/> Fertilizer applied to previous crops in this field <input type="checkbox"/> Lime and Gypsum/landplaster	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	P2O5 Phosphate	K2O Potash	S Sulfur					
	[Enter percentage analysis or actual pounds of plant nutrients applied per acre.] [Show Common Fertilizers in Respondent Booklet.]								
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
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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 OR TOTAL DOLLARS
0219 OR 0220

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 2013 Exclude lime, gypsum, purchased manure and purchased compost.)

DOLLARS & CENTS PER ACRE OR TOTAL DOLLARS
0221 OR 0222

7. Was gypsum applied to this field for the 2014 cotton crop?

YES = 1

CODE
0218

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

POUNDS PER ACRE
0217

9. Was a soil or plant tissue test performed on this cotton field in 2013 or 2014 for the 2014 crop?

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

10. Was a soil test for phosphorus performed on this cotton field in 2013 or 2014 for the 2014 crop?

YES = 1

CODE
0225

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

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

POUNDS PER ACRE
0226

11. Was a soil test for nitrogen performed on this cotton field in 2013 or 2014 for the 2014 crop?

YES = 1

CODE
0227

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

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

POUNDS PER ACRE
0228

12. Was a plant tissue test or leaf analysis for nutrient deficiency performed on this field in 2013 or 2014 for the 2014 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.]

		CODE
a. Results of a soil or plant tissue test?.....	YES = 1	0233
b. Crop consultant recommendation?.....	YES = 1	0234
c. Fertilizer dealer recommendation?.....	YES = 1	0235
d. Extension Service recommendation?.....	YES = 1	0236
e. Cost of nitrogen and/or expected commodity price?.....	YES = 1	0237
f. Contractor recommendation?.....	YES = 1	0238
g. Routine practice (operator's own determination based on past experience, yield goal, etc.)?.....	YES = 1	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, 2014?.....

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.]

YEARS
0243

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?.....

TONS PER ACRE
0244

c. Was lime applied to this field in 2013 or 2014 for the 2014 crop?..... YES = 1

CODE
0240

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

PERCENT
0245

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

19. Was unprocessed manure or other organic material (excluding compost) applied to this field for the 2014 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	CODE	UNITS PER ACRE	TOTAL UNITS
2 GALLONS	0248	AND 0249	OR 0250
3 BUSHELS			

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

MILES
0251

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

1 TONS	CODE	TOTAL UNITS
2 GALLONS	0252	AND 0253
3 BUSHELS		

e. Of the total manure applied to this field for the 2014 crop, what was the percent of manure applied---

(i) in the fall before planting? +

(ii) in the spring before planting? +

(iii) after planting? +

PERCENT
0254
0255
0256

f. Was the manure---

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

100%
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

CODE

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

0261

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

0262

[If YES, ask--]

PERCENT

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

0263

CODE

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

0280

CODE

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

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?

CODE

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

0267

ACRES

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

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]

FIRST

0281

SECOND

0282

THIRD

0283

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) _____

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. Was the compost--

D PESTICIDE APPLICATIONS---SELECTED FIELD

D

Now I have some questions about all the pesticides used on this field for the 2014 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 2014 crop? YES = 1

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

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

[Probe for applications made in the fall of 2013 (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	
	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?	What was the cost per unit of the product? 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.)

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

(Include operator and landlord cost, defoliants, herbicides, insecticides, fungicides, surfactants, wetting agents, growth regulators, and materials applied before planting and during 2013 fallow period. Exclude seed treatments.)

DOLLAR & CENTS
PER ACRE

OR TOTAL DOLLARS

0334

0335

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 2014 covered by the boll weevil eradication program (BWEP)?

YES = 1

CODE

0325

[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 2014, what was your assessment on this field to participate in the BWEP?

0337

0338

(Include operator and landlord charges for the 2014 cotton whether paid prior to or after ginning.)

c. How did the level of secondary cotton pests in 2014 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)?

YES = 1

CODE

0341

[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 2014 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?

[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 weeds are usually present? |
| OR |
| 2 weed scouting from the previous year? |

CODE
0804

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

[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 weeds are usually present? |
| OR |
| 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 insects are usually present? |
| OR |
| 2 scouting for insect infestation? |

CODE
0807

<p>10. In 2014, how was this field primarily scouted for insects, weeds, diseases, and/or beneficial organisms---</p>	<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> <table border="1" style="width: 100px; height: 20px;"> <tr> <td style="text-align: center;">0808</td> </tr> </table>	0808
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 BWEP or PBWP].</p>	<p>CODE</p> <table border="1" style="width: 100px; height: 20px;"> <tr> <td style="text-align: center;">0809</td> </tr> </table> <p>YES = 1</p>	0809
0809		

<p>12. Was scouting for pests done in this field due to---</p> <p>a. a pest advisory warning?</p> <p>b. a pest development model?</p>	<p>CODE</p> <table border="1" style="width: 100px; height: 20px;"> <tr> <td style="text-align: center;">0810</td> </tr> </table> <p>YES = 1</p> <table border="1" style="width: 100px; height: 20px;"> <tr> <td style="text-align: center;">0811</td> </tr> </table> <p>YES = 1</p>	0810	0811
0810			
0811			

1		2 [If YES, ask---] Was the infestation level for [column 1]—	3 [If column 1 = YES, ask---] Who did the majority of the scouting for [column 1]---
<p>13. Was this cotton field scouted for--</p> <p>a. Weeds?</p> <p>b. Insects or mites?</p> <p>c. Diseases?</p>	<p>YES = 1</p> <p>0812</p> <p>0815</p> <p>0818</p>	<p>1 Worse than normal</p> <p>2 Normal</p> <p>3 Less than normal</p> <p>CODE</p> <p>0813</p> <p>0816</p> <p>0819</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> <p>CODE</p> <p>0814</p> <p>0817</p> <p>0820</p>

<p>14. [If item 13, column 3 = 3 or 4), ask--- else go to item 15.]</p> <p>How much did you pay for the scouting services for this field? [Include landlord and contractor cost].</p>	<p>DOLLARS & CENTS PER ACRE</p> <table border="1" style="width: 100px; height: 20px;"> <tr> <td style="text-align: center;">0835</td> </tr> </table>	0835	<p>OR</p> <p>TOTAL DOLLARS</p> <table border="1" style="width: 100px; height: 20px;"> <tr> <td style="text-align: center;">0836</td> </tr> </table>	0836
0835				
0836				

<p>a. [Note: If scouting performed at no cost, explain: _____]</p>	<p>OFFICE USE</p> <table border="1" style="width: 100px; height: 20px;"> <tr> <td style="text-align: center;">0333</td> </tr> </table>	0333
0333		

		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 (using conventional tillage)?.....	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?**.....
- | | DOLLARS & CENTS
PER ACRE | OR | TOTAL DOLLARS |
|--|-----------------------------------|----|-----------------------------------|
| <i>[Include landlord's and contractor's share. Include cost for beneficial organisms (insects, nematodes, and fungi). Exclude biological pesticides and BWEP traps.]</i> | <input type="text" value="0859"/> | | <input type="text" value="0860"/> |
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
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 2014 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

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

26. **Other than pesticide applicator training, have you (the operator) attended any training session on pest identification and management since October 1, 2013?**..... YES = 1

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

NOTES

F FIELD OPERATIONS---SELECTED FIELD

1. Including custom operations, I need to list field work performed by machines on this field for the 2014 cotton crop. Please...

- ▶ Begin with the first field operation after harvest of previous crop, (If fallow during 2013, list operations starting with fall 2012.)
- ▶ 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	
<input checked="" type="checkbox"/>	Include all field work using machines for---
<input type="checkbox"/>	Land Forming/Levee Building
<input type="checkbox"/>	Tillage
<input type="checkbox"/>	Preparing for Irrigation
<input type="checkbox"/>	Planting
<input type="checkbox"/>	Fertilizer & Pesticide applications
<input type="checkbox"/>	Harvesting
<input type="checkbox"/>	Module Building
<input type="checkbox"/>	Hauling from field to gin
	Exclude
<input type="checkbox"/>	Lime & Gypsum/landplaster applications
<input type="checkbox"/>	Non-Commercial manure applications and compost

2 S E Q U E N C E 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?	7 [Record size code.] 1 Feet 2 Row 3 Moldboard (bottoms) Hauling 4 Pounds 5 Bushels 6 Tons 7 Bales	8 How many acres were covered? [Exclude land forming and hauling operations]	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.]	10 Which Power Source was used? ^{1/} 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	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	CODE	ACRES	HOURS	CODE	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

^{1/} 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 2014 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 2014 cotton crop.

	1 CUSTOM SERVICE	2 Including landlord's/contractor's cost, how much was spent for [column 1] on this field for the 2014 cotton crop?
√	<p>Which of these services were done for the 2014 cotton crop on this field?</p> <p>[Check √ box for each service performed; refer to Item 1, column 5 if necessary.]</p>	DOLLARS & CENTS PER ACRE
<input type="checkbox"/>	<p>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.</p>	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"/>	<p>e. custom module building?..... (_____ X _____ ÷ _____ = _____) Dollars & Cents per unit x Total units built ÷ Total acres in field = Dollars & Cents per acre.)</p>	1125 _____
<input type="checkbox"/>	<p>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.)</p>	1126 _____
<input type="checkbox"/>	<p>[If custom harvesting, module building and hauling cannot be separated ask---] g. custom harvesting, module building and hauling from field to gin?..... (_____ X _____ ÷ _____ = _____) Dollars & Cents per unit x Total units hauled from field ÷ Total acres in field = Dollars & Cents per acre.)</p>	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 BWEF 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. Was there (will there be) a yield monitor on the equipment used to harvest this cotton field?	YES = 1	1138
[If item 10 is YES, continue--- else go to item 11]		
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---[Enter code for all that apply.]		
(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. During 2013 or 2014, was a GPS (Global Positioning System) device used to produce a map of the soil properties of this field? (such as nitrate levels, PH, soil type, etc.)	YES = 1	1148
[If item 11 is YES, ask—]		
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 _____	1149
		CODE
12. Did you have an airplane or satellite provide an image or photograph of this field either at the start or during the 2014 growing season? (Include imagery provided at no cost.)	YES = 1	1151
13. 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---		
a. fertilization or liming?	YES = 1	1152
(i) If YES, ask---Did you use a variable rate applicator for--- [Enter code "1" for all that apply.]		
(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. 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)?	YES = 1	1150

ACRES

1. How many acres in this field were irrigated for the 2014 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 2014 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 OR	1162	1176
		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 2014 growing season? (Exclude this field)		ACRES	1174	1188

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

DOLLARS & CENTS
PER ACRE

OR TOTAL DOLLARS

1189

1190

4. Was any water purchased to irrigate this field?

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

YES - [Enter code 1 and continue.]

NO - [Go to item 5.]

CODE

1191

PERCENT

1192

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

DOLLARS & CENTS PER ACRE

OR TOTAL DOLLARS

b. What was the total cost for the water purchased for this field during the 2014 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

1201

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

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

TOTAL DOLLARS

1202

What was the total amount spent for poly pipe used on this field during the 2014 growing season?

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

INCHES

1203

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

FEET

1204

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

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

CODE

1205

YES - [Enter code 1 and continue]

NO - [Go to item 9.]

NUMBER

1206

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

INCHES

1207

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

FEET

1208

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.]

CODE

1209

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

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

CODE

1210

YES - [Enter code 1 and continue]

NO - [Go to item 9.]

ACRES

1211

(i) Excluding this field, how many other acres on this operation were irrigated using the same well(s) during the 2014 growing season?

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.]

INCHES

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

1212

FEET

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

1213

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

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

1214

1. In response to high fuel prices during the 2014 crop year for cotton, did you:

CODE

- 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
- b. reduce the amount of irrigation water on this field (*i.e., compared to what you would have otherwise applied*)?..... YES = 1
- c. change other production practices on this field? [*If yes, specify*_____] YES = 1

2. In response to high fertilizer prices during the 2014 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

[*If YES, ask---*]

PERCENT

- (i) by what percent did you reduce the amount of commercial nitrogen fertilizer for 2014?.....

CODE

- 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
- 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
- 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

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 2015 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

NUMBER

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										