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C-TYPE

106

COTTON PRODUCTION PRACTICES AND COSTS REPORT FOR 2015

CONTACT RECORD

TRACT

01

SUBTRACT

ID

VERSION

DATE	TIME			NO	OTES		
We are collecting as possible. The Protection provision confidential and has taken an oar	elf, and ask for the g information on the information you posions of Title V, Su will not be disclos	ne practic provide w obtitle A, F ed in ider	r. Rephrase in your own tees and costs used to pro- vill be used for statistical Public Law 107-347 and ntifiable for to anyone oth rm, a fine, or both if he o	oduce cotton and purposes only. In other applicable later than employed	n accordance with Federal laws, you es or agents. By	n the Confid ir responses law, every e	ential Information s will be kept employee and agent
collection of info 0535-0218. The for reviewing ins	According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OBM control number. The valid OMB control number for this information collection is 0535-0218. The time required to complete this information collection is estimated to average 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.						
We encourage y	ou to refer to your	farm rec	ords during the interview	V.			
	ннм	l M					SCREENING BOX
BEGINNING T [MILITARY							0006
☐ [Name, add	dress and partne	ers verifie	ed and updated if nec	essary]			
POID				POID			
PARTNER NAME				PARTNER NAME			
ADDRESS				ADDRESS			
CITY	STATE	ZIP	PHONE NUMBER	CITY	STATE	ZIP	PHONE NUMBER
POID				POID			
PARTNER NAME				PARTNER NAME	=		
ADDRESS				ADDRESS			
CITY	STATE	ZIP	PHONE NUMBER	CITY	STATE	ZIP	PHONE NUMBER
	-			-			_

-2-

TOTAL PLANTED ACRES

			7101120
1.	pla	w many acres of cotton did this operation plant for the 2015 crop year? [If no acres inted, review Screening Survey Information Form, make notes, then go to item 4 on back ge]	0050
	[If s	skip row cotton was planted, exclude the acreage in the skips.]	
		I will follow a simple procedure to make a random selection from the cotton fields planted for the 2015 crop.	
			TOTAL NUMBER OF FIELDS PLANTED
	2.	What is the TOTAL number of cotton fields that were planted on this operation? [If only one field enter "1" and go to item 5.]	0020
	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	10
2	11
3	12
4	13
5	14
6	_15
7	16
8	17
9	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	SELECTED FIELD NUMBER
	the label, and record the selected number. If only one field, enter 1.]	* * = :
5.	The field selected is (field name/number/description).	
	During this interview, the cotton questions will be about this selected cotton field. [Be sure the operator can identify the selected field.]	
6.	For the randomly selected field above, please provide the Farm Service Agency (FSA):	
	a. Farm Number	
	h. Tasat Nivashan	

c. Field Number.....

OFFICE USE OY Field Substituted

		ACRES				
1.	How many acres of cotton did this operation plant in this field for the 2015 crop?	1301				
	[If skip row cotton was planted, exclude the acreage in the skips.]	I				
		·				
		CODE				
	a. Are the acres in this field CERTIFIED ORGANIC ?	1300				
	[If YES , skip 1b and ask item 2.]					
	b. Was this field transitioning into organic cotton production in 2015?	1399				
	YES = 1					
		CODE				
	1 award by this energtion?	1302				
2.	Were the acres in this field 2 owned by this operation? The payment being a fixed cash amount?	1302				
	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?					
3.	[If field is CASH RENTED (item 2 = 2, 3 or 5), ask item 3, else go to item 4.]	DOLLARS & CENTS PER ACRE				
		1303				
	What was the cash rent paid per acre for this 2015 cotton field?					
		PERCENT				
4.	(· · · · · · · · · · · · · · · · · · ·	1304				
	What was the landlord's share of the crop from this field?					
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 for the DOLLARS & CENTS					
	2015 crop on the selected field? (Include the costs for all inputs, such as seed, fertilizer, chemicals, technical services, custom operations, drying	TOTAL DOLLARS				
	and irrigation. Exclude real estate tax expenses and lime costs paid by the	1306				
	landowner.)					
6.	What was the total cost for all inputs provided by any contractor for DOLLARS & CENTS the 2015 crop on the selected field? (Include the costs for all inputs PER ACRE OR	TOTAL DOLLARS				
	the 2013 crop on the selected field: (include the costs for all imputs,	1310				
	such as seed, fertilizer, chemicals, technical services, custom operations, drying and irrigation.)	1010				
	<u> </u>	YEAR				
		1312				
7.	What year did you (the operator listed on the label) start operating this field?					
		MM DD 107				
		MM DD YY				
8.	On what date was this field planted?	1308				
Ο.	On what date was this held planted:					
		POUNDS PER ACRE				
	. What was varied and for eather list at planting for this field?	ACRE				
	a. What was your yield goal for cotton lint at planting for this field?					
	,	L				
0	What type of cotton was planted on this field?	CODE				
9.	What type of cotton was planted on this field?					

10	(Incl treat Excl	at was the source and cost of lude operator, landlord, and contractor costs. Include cost of seed timent and technology fee. lude any Bt seed payment received for participating e Pink Bollworm program.)	DOLLARS & CENTS PER UNIT	UNIT CODE 1=POUNDS 22=ACRE 23=APPROX 50 LB. BAG 40 =250,000 SEED BAG	PERCENT of SEED PLANTED
	a.	Genetically engineered purchased seed?	1344	1345	1346
	b.	Non-genetically engineered purchased seed?	1347	1348	1349
	C.	Homegrown seed?			1340
					100%
		[If homegrown, ask]			CENTS PER POUND
		(i) What was the cost for cleaning and treating this see	ed?		1350
				UNITS	UNIT CODES for Seeding Rate 1 = POUNDS/ACRE 23 = 50 LB BAGS/ACRE 25 = SEEDS/FOOT 40 = 250,000 SEED BAGS/ACRE
11		hat was the seeding rate per acre the first time this ld was planted?			
		1 Drilled	12		CODE
	a.	What method of seeding did you use on 2 Plante	ed in Conventional Rows? dcast on this field?		1316
	[lf d	Irilled or planted (item 11= 1 or 2), ask]			INCHES
	b.	What was the average cotton row width?			1323
					1321
12	Did	this field have skip-row cotton?			ip-row, go to item 13.]
				ROWS OF COTTON BY	ROWS OF SKIP
	a.	What was the common skip pattern?		1316	1317
					INCHES
	b.	What was the average width of the skip?			1319
					ACRES
13	. H c	ow many acres in this field had to be replanted to co cres replanted = Number of acres x Number of times re	tton? planted.)		1315
	•		-		CODE
14	. Wa	as a hybrid cotton seed planted in this field?		YES = 1	1326

1		2	3
		2015	2014
			YES = 1
		YES = 1	N/A = 4 No Cotton in Field
15. Did you plant genetically engineered seeds for the 2015 or 2010	6 crop years?		
16. [If item 15=1, for either year continue. Else, go to 17] Did the cotton presentically engineered traits in 2015 or 2014? [Leave the second cotton in 2014.]			
1	2		3
	2015		2014
	YES = 1	□ N/A N	YES = 1 No Cotton in Field
a. Lepidopteran Resistance (Single Mode of Action)			
b. Lepidopteran Resistance (Pyramided Modes of Action)			
c. Glyphosate Tolerance			
d. 2, 4-D Tolerance			
e. Dicamba Tolerance			
f. Glufosinate Tolerance			
g. Other HT Trait			
1		2	3
		2015	2014
		YES = 1	YES = 1 N/A No cotton in field = 4
17. Was a non-genetically engineered seed planted in			
[Item 17=1 for either year, then continue. Else, go to Item 19]			
		2	3
		2015	2014
		YES = 1	YES = 1 N/A No cotton in field
18. Was this non-genetically engineered seed herbicide tolerant in			
<u> </u>			
 For the 2015 cotton crop, did you purchase pre-treated seed or have purchase with 	the seed treated aft	er	CODE
a. a fungicide (e.g., Trilex, Allegiance, or other seed treatments)?			
		YES = 1	
b. a nematicide (e.g., Acceleron, Avicta, or Aeris seed treatment)?			
		. YES = 1	

1351

harvested for lint?.....

abandoned?.....

b.

	CROP CODE LIST for item 21 – PREVIOUSLY PLANTED CROPS							
190	Barley	3	Dry Beans	21	Rice	193	Tobacco, burley	
85	Canola	17	Dry Peas	22	Rye	196	Tobacco, flue cured	
310	Clover	311	Grasses other than clover	98	Safflower	42	Vegetables	
6	Corn for grain	1	Hay, alfalfa	25	Sorghum for grain	163	Wheat, durum	
5	Corn for silage	11	Hay, all other	24	Sorghum for silage	164	Wheat, other spring	
282	Cotton, Pima	94	Mustard Seed	26	Soybeans	165	Wheat, winter	
281	Cotton, Upland	15	Oats	28	Sugarbeets			
302	CRP	16	Peanuts	30	Sunflowers	318	No crop planted	
		20	Potatoes	31	Sweet Potatoes		during this period	

26. Please report what crops were previously PLANTED on the majority of this field, including cover crops.

1			2	3	4	5
What crops were PLANTED on this field in				How did you manage this crop?	Was this field irrigated?	Was this field no-tilled or strip-tilled?
SEASON AND YEAR	CROP NAME	CROP CODE	YES = 1	1 Plowed-in 2 Chisled-in 3 Chemical-killed 4 Rolled 5 Grazed 6 Harvested 7 Disked	YES = 1	1/ YES = 1
SEASON AND TEAK	OROT HAILE	1343	1470	1471	1344	1345
a. FALL of 2014?						
b. SPRING/SUMMER of 2014?		1369	1472	1473	1370	1371
c. FALL of 2013?		1372	1474	1475	1373	1374
d. SPRING/SUMMER of 2013?		1375	1476	1477	1376	1377
e. FALL of 2012?		1378	1478	1479	1379	1380
f. SPRING/SUMMER of 2012?		1381	1480	1481	1382	1383
g. FALL of 2011?		1366	1482	1483	1367	1368
h. SPRING/SUMMER of 2011?		1340	1484	1485	1341	1342

No-till means leaving soil and previous crop residue undisturbed from harvest to planting. Strip-till means tilling a narrow strip over the row, leaving soil and previous crop residue between the rows undisturbed.

DOLLARS & CENTS PER ACRE

i.	[If a cover crop was planted in Spring/Summer/Fall 2014, ask—]	1468	
	What was the seed cost per acre for the cover crop?		

27. Which of the following conservation practices or plans are used on this field?

27. 00	hich of the following conservation	2	3		<u>. </u>	5	
				Have you ever received at any time		Does this practice or plan help	
CON	NSERVATION PRACTICES or PLANS	Was this practice or plan used in 2015?	For 2011- 2015, how many years was this practice or plan used?	service provider funded by USDA 3 Soil Conservation District or State Agency 4 Other source 5 Self-funded (hired	Financial assistance? 1 Environmental Quality Incentives Program (EQIP)? 2 Conservation Reserve Program (CRP)? Conservation Stewardship Programs (CSP)? 4 Oher Federal, State, Local program	satisfy? 1 A federal regulatory requirement? 2 A state or local regulatory requirement 3 USDA conservation compliance provisions	
a.	Conservation tillage [include No-till/Direct seeding, mulch till, and ridge till]	120 1	Nomber	3052		3332	
b.	Cover crops [include grasses, legumes, forbs, or other herbaceous plants for seasonal cover and conservation]						
C.	Structural practices to conserve soil? [include grass waterways, terraces, grade stabilization, contour buffer strips, etc.]						
d.	Nitrogen application practices? [Include splitting nitrogen applications 50 % after crop emergence, applying nutrients 30 days prior to planting, precision application of nutrients, or using controlled release fertilizer]						
e.	Conservation plan specifying practices to reduce soil erosion?						
f.	Nutrient management plan specifying practices forFertilizer applicationManure application						
g.	Pest management plan to implement Integrated Pest Management (IPM) to control weeds, insects, or disease?						
h.	Irrigation water management plan specifying irrigation practices?						

28. Is this field included in an existing conservation program contract through any of the following programs for which you or the landlord have received (or expect to receive) cost sharing payments, stewardship payments, or incentive payments?.....

PROGRAM	1 1/	How many practices or practice enhancements are included in the	Does the contract include livestock-related practices?	During the past 4 years, was this field included in an application that was rejected or has not yet been funded?			
	YES = 1	contact? Number	YES = 1	YES = 1			
a. Environmental Quality Incentives Program (EQIP)							
b. Conservation Security or Conservation							
Stewardship Programs (CSP)							
c. Conservation Reserve Program (CRP)							
d. Other Federal, State, Local or non-							
government source							
1/ [Include conservation program contracts that provide assistance for grass waterways, filter strips, riparian buffers, or similar practices on or adjoining this field.]							

29. [In item 28, if you answered yes =1 in column 1 or column 4 for any program continue, else go to item 31.]

	behalf? [Include the number of hours	What
	spent with you plus the number of hours	of the
	spent on your behalf.]	

What was the cost e consultation? **DOLLARS & CENTS** YES = 1 **HOURS**

How much time was spent on your

Hire a consultant to help prepare the application?.....

Receive assistance free of charge? [Include assistance received from USDA, and extension agent, an environmental organization, or a farm organization.].

30.	In applying for and participating in the conservation program you listed in item 28, please
	indicate the approximate time you spent on the following activities:

HOURS

		1352
a.	Learning about the program in general, on your own or at meetings?	
b. i	Planning or designing specific practices for your farm (on your own or in meetings with USDA staff, contractors, or others)?	1353
C.	Collecting information (e.g. field characteristics, maps, soil test results) that was needed to fill out program application forms?	1354
		1355
d.	Filling out the program application forms?	
e.	If your offer was accepted, understanding and signing the contract? [Enter zero if offer was not accepted.]	1356
f.	If your offer was accepted, documenting compliance after the practices were installed or adopted? [Enter zero if offer was not accepted.]	1357

ciu iii	the last four years?					YES =	'	
	f Item 31=1, go to Item 33] If you did not ap ears, what were your reasons?	ply for co	nservatior	n program	funding fo	or this fiel	d in th	e past
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree		CODE
a.	I was not aware of USDA or other conservation programs	□1	□ 2	Пз	□4	□5	1358	
b.	I am not aware of environmental problems (on this field)	□1	□2	□3	□4	□5	1359	
C.	Payments are not high enough	□1	□2	□3	□4	□5	1360	
d.	Government standards make practices more expensive than they need to be to get the job done	□ ₁	□ ₂	□3	□ 4	□5	1361	
e.	My offer would not have been accepted because my farm is not eligible or my fields would not have ranked high enough	□1	□ 2	□3	□ 4	□ 5	1362	
f.	The application process is too complicated and time consuming	1	□ ₂	Пз	□ 4	□5	1363	
g.	Documenting compliance would be too complicated and time consuming	□ ₁	□ 2	Пз	□ 4	□ 5	1364	
part erodi requi	s the Natural Resource Conservation Service tof this field as "Highly Erodible"? (Cropland lible land conservation (HELC) requirements. Produired to have (and apply) a written soil conservation ordance with Federal, State, or district standards.).	d identified a ucers who re plan.) (A "w	as highly ero eceive farm vritten plan"	dible is subje program pay is a plan pre	ments are pared in		1404	CODE
part erodi requi acco	t of this field as "Highly Erodible"? (Cropland lible land conservation (HELC) requirements. Produired to have (and apply) a written soil conservation ordance with Federal, State, or district standards.).	d identified a ucers who re plan.) (A "w	as highly ero eceive farm rritten plan" 	dible is subjo program pay is a plan pre	ments are pared in	. YES = 1		CODE
part erodi requi acco	t of this field as "Highly Erodible"? (Cropland lible land conservation (HELC) requirements. Produired to have (and apply) a written soil conservation	d identified a ucers who re plan.) (A "w	as highly ero eceive farm vritten plan"	dible is subje program pay is a plan pre	ments are pared in	. YES = 1	1404	CODE
part erodi requi acco	t of this field as "Highly Erodible"? (Cropland lible land conservation (HELC) requirements. Produired to have (and apply) a written soil conservation ordance with Federal, State, or district standards.).	d identified a ucers who re plan.) (A "w	as highly ero eceive farm rritten plan" 	dible is subjection program paying a plan pre	ments are pared in	. YES = 1	1404	CODE
part erodi requi acco Have	t of this field as "Highly Erodible"? (Croplandible land conservation (HELC) requirements. Produired to have (and apply) a written soil conservation ordance with Federal, State, or district standards.).	d identified a ucers who re plan.) (A "w	as highly ero eceive farm vritten plan" a wetland? level (0-2% Moderate gr le, Moderate steep grade	dible is subjection program paying a plan pre	ments are pared in	. YES = 1	1404	
part erodi requi acco Have	t of this field as "Highly Erodible"? (Cropland lible land conservation (HELC) requirements. Produired to have (and apply) a written soil conservation ordance with Federal, State, or district standards.). The you been notified by NRCS that this field with the slope of this field	d identified a ucers who re plan.) (A "w	as highly ero eceive farm vritten plan" a wetland? level (0-2% Moderate gr le, Moderate steep grade	dible is subjection program paying a plan pre	ments are pared in	. YES = 1	1404	CODE
part erodi requi acco Have What	t of this field as "Highly Erodible"? (Croplandible land conservation (HELC) requirements. Produired to have (and apply) a written soil conservation ordance with Federal, State, or district standards.). The you been notified by NRCS that this field it is the slope of this field	d identified a ucers who re plan.) (A "w	as highly ero eceive farm vritten plan" a wetland? level (0-2% Moderate grade e, Moderate grade e, Steep grade	dible is subjection program paying a plan pre	ments are pared in	YES = 1	1404	CODE
part erodi requi acco Have What	t of this field as "Highly Erodible"? (Croplandible land conservation (HELC) requirements. Produired to have (and apply) a written soil conservation ordance with Federal, State, or district standards.). The you been notified by NRCS that this field wit is the slope of this field	d identified a ucers who re plan.) (A "w	as highly ero eceive farm vritten plan" a wetland? level (0-2% Moderate gr le, Moderate steep grade e, Steep gra	dible is subjection program paying a plan pre	ments are pared in	YES = 1	1404	CODE

						CUBIC FEET PER SECOND	OR	INCHES OF WATER REMOVED PER DAY
b	. v	What is the capacity of your system?						
C	r	Does this system include a mechanism for coisers, or float mechanisms)?					S = 1	
38.	W	hich of the following resource concerns you	u do f	nave on t	1	accived technical		tance from any of
		RESOURCE CONCERNS		CODE	the foll cond 1 USDA-NR 2 Cooperati 3 Other USI 4 Other (e.gagency)	owing sources to cern? (Report up to received assis RCS ve Extension Servic DA staff, including F g. Soil and Water Co	evalu o 3 s tance e orest onser	ources that you e from.) Service vation District, state
				YES = 1	Source 1	Source 2		Source 3
	a.	Water-driven erosion						
	b.	Wind-driven erosion						
	C.	Soil compaction						
	d.	Poor drainage						
	e.	Low organic matter						
	f.	Water quality						
	g.	Other concerns						
	h.	No significant concerns						
39.	Wa	s the cotton in this field covered by Federa	l Crop	o Insuran	ce in 2015?			CODE
		☐ YES – [Enter code 1 and continue.]	□ N	O – [Ente	er code 3 and 0	Go to item Section	C.].	
	a.	Which coverage did you obtain?	2 S 3 Y 4 Y 5 Y 6 F 7 F 8 F	Stacked Individual Control of the Co	come Protection ction STAX SCO (supplement rotection lus STAX	-]	CODE 1386
		[If item 39a = 3, ask]						PERCENT
		b. What was your yield level of your basic bu	ıy-up c	coverage	for this field?.			1387
		c. What was your price level of your buy-up of	covera	nge for thi	s field?			1388
		[If item 39a = 6, 7, or 8, ask]						PERCENT
		d What was the level of hasis revenue	roac : :	ou obło!	ad for this field	40		1389
		d. What was the level of basic revenue cover	rage y	่อน อมเสท	eu ioi tilis lieli	u r		

EDIT TABLE

CODE

Commercially prepared manure

or compost

NUTRIENT or FERTILIZER APPLICATIONS---SELECTED FIELD

1.	Were commercial nutrients of 2015 cotton crop? (Include the contractors.)	S = 1	0202	0200					
	[If COMMERCIAL nutrient or fe	ertiliz	zer applied, continue; else go t	o item 6.]			NUMBER		
2.	2. How many commercial nutrient or fertilizer applications were made to this field for the 2015 crop? (<i>Include</i> applications made by airplanes and custom applicators.)								
3.	Now I need to record informa	ation	n for each application.						
	CHECI	(L	IST !						
	INCLUDE		EXCLUDE						
	Custom applied nutrients and fertilizers		Micronutrients						
Ш	Nutrients or fertilizers applied in the fall of 2014 and	☐ Unprocessed manure							
	those applied earlier if this field was fallow in 2014.		Nutrients or fertilizers applied to previous crops in this field						

Lime and Gypsum/landplaster

APPLICATION CODES for COLUMN 6

TABLE

001

1 Broadcast, ground without incorporation

Office Use

Lines in Table

- 5 In irrigation water
- 2 Broadcast, ground with incorporation
- 6 Chisel/Injected or knifed in
- 3 Broadcast, by aircraft

7 Banded in or over row

0299

4 In seed furrow

8 Foliar or directed spray

	2				3	4	5	6	7
L I N E	pounds of plant nutrients applied per acre.		[Enter percentage analysis or actual pounds of plant nutrients applied per acre.] [Show Common Nutrients or Fertilizers was applied per acre.] [Leave this column blank if actual nutrients if actual nutrients.]		per acre? [Leave this column blank if actual nutrients	[Enter material code.] 1 Pounds 12 Gallons 19 Pounds of actual nutrients	When was this applied? 1 In the fall before seeding 2 In the spring before seeding 3 At seeding 4 After seeding	How was this applied? [Refer to code list above.]	How many acres were treated in this application?
	N Nitrogen	P2O5 Phosphate	K2O Potash	S Sulfur			4 / their decaming		ACRES
01	31	32	33	34	36	37	38	39	40
02	31	32	33	34	36	37	38	39	40 :
03	31	32	33	34	36	37	38	39	40
04	31	32	33	34	36	37	38	39	40
05	31 32 33 34		36	37	38	39	40		
06	31	32	33	34	36	37	38	39	40
07	31	32	33	34	36	37	38	39	40
08	8 31 32 33 34		36	37	38	39	40		

TABLE	LINE
000	00

4.	We	ere any nutrients or fertilizers ap	plied by custom applicators?	•			
		YES - [Continue]	☐ NO - [Go to item 5]				
	a.	Are you able to report the cost of custom application separately?	nutrient or fertilizer materials a	nd			OFFICE USE
		YES - [Continue]	□ NO - [Go to item 5]				0215
	b.	Excluding the cost of the nutrient was spent for custom application (<i>Include</i> operator, landlord, and contimicronutrients. <i>Exclude</i> custom amount and purchased compost.) be separated, exclude them here	of nutrients or fertilizers on this ractor costs. Include costs for s application of lime, gypsum, pu [If material and application co	field? culfur and crchased osts can't	DOLLARS & CENTS PER ACRE 0219	OR	TOTAL DOLLARS
5.	api we of i ma Inc	nat was the TOTAL COST of all national plied to this field? (Include operall as the costs for sulfur and microry material can be separated from application of the country of the materials applied to this field on the purchased manure and purchased manure and purchased manure.	ator, landlord, and contractor contrients. [If custom applied an olication costs, include the cost of the material and application if it was fallow in 2014. Exclu	d the cost at of an costs.] de lime,	DOLLARS & CENTS PER ACRE 0221	OR	TOTAL DOLLARS 0222 CODE
							0218
6	۱۸/۵	no avenous applied to this field fo	or the 2015 potton aren?		\ <u>-</u>		
6.	vva	s gypsum applied to this field fo	or the 2015 cotton crop?		YE	S = 1	
7.		as a soil or plant tissue test perfo 2015 for the 2015 crop?	ormed on this cotton field in	2014			
		YES [Continue.]	NO [Go to item 12.]				CODE
8.		as a soil test for phosphorus per 2015 for the 2015 crop?			YES	S = 1	0225
		[If Item 8 = 1, ask]					POUNDS PER ACRE
	a. I	How many pounds of phosphorus ((per acre) were recommended	(by the pho	osphorus test)?		0226 CODE
9.		as a soil test for nitrogen perforn 2015 for the 2015 crop?	ned on this cotton field in 20		VE	S = 1	0227
	01	[If Item 9 = 1, ask]				, – 1	POUNDS PER ACRE
	a.	How many pounds of nitrogen (pe	er acre) were recommended (b	y the nitrog	ren test)?		0228
10.	Wa 10	as a soil test for Soil Organic Matte years?	r performed on this cotton field	at some po		S = 1	CODE
	[Ite	em 10 = 1, <i>ask</i>]					PERCENT
	a. \	What was the percentage of Soil O	rganic Matter on the field for th	e most rec	ent test?		
							NUMBER
b.	Ho	w many times have you tested this	field for Soil Organic Matter in	the last ter	n years?		
[If a	ansv	ver to 10b is more than 1 ask]					CODE
C.	Ва	ased on these tests, is your Soil Or	ganic Matter content:	 Increasing Decreasing Staying r 			

		CODE
11. V	Vas a plant tissue test or leaf analysis for nutrient deficiency performed on this eld in 2014 or 2015 for the 2015 crop?	0229
"	eld III 2014 Of 2013 for the 2013 crop:	= 1
	DOLLARS & CENTS PER ACRE	OR TOTAL DOLLARS
	ow much was spent for these soil and plant tissue tests 0230	0231
on	this field? (Include operator, landlord, and contractor costs.)	
a. If t	ests were done at no cost, explain 1 Soil/plant tissue test provided free of charge by dealer, crop consultant, or extension service.	CODE
	2 Soil/plant tissue test costs were included in the total fertilizer costs reported in item 5.	0232
	3 Some other reason	
. 5:		
	d you receive a payment from the Conservation Stewardship Program for performing a stalk tissue test for Nitrogen application?	_4
UI ICAI	tissue test for Nitrogen application?	= 1
[ENUN	MERATOR ACTION: Refer to the Fertilizer Table, column 2. If nitrogen (N) was applied, complete item 13. If NO nitrogen applied, go to item 14.]	
13. W a	as the amount of nitrogen you decided to apply to this field based on	CODE
		0233
a.	Results of a soil or plant tissue test? YES	= 1
		0234
b.	Crop consultant recommendation? YES	= 1
		0235
C.	Fertilizer dealer recommendation? YES	= 1
		0236
d.	Extension Service recommendation? YES	= 1
		0237
e.	Cost of nitrogen and/or expected commodity price? YES	= 1
		0238
f.	Contractor recommendation? YES	= 1
g.	Routine practice (operator's own determination based on past	0239
	experience, yield goal, etc.)?YES	= 1
		CODE
		0242
14. Is	lime ever applied to this field? YES	= 1
[If no li	ime applied, go to item 15; else continue.]	YEARS
-		0243
a.	On average, how many years are there between applications of lime to this field?	
		TONS PER ACRE
		0244
b.	How many tons of lime were applied per acre the last time it was applied to this field?	
		CODE
		0240
C.	Was lime applied to this field in 2014 or 2015 for the 2015 crop? YES	= 1
d.	[If field is 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)?	

		H			-16	; -			H	
15	ma	ns non-commercial manure nterial (excluding compost) a nmercially prepared manure.	pplied to the							CODE 0246
		YES - [Enter code 1 and con	tinue]	_ I	NO - [G	o to item 17]				ACRES
	a.	How many acres in this field	was manu	ıre applied	to?					0247
	b	. What was the amount of n applied to this field?	nanure 2	Tons Gallons Bushels		CODE	AND	0249	RE C	0250
	C.	What is the distance between	en the man	ure storage	⊒ e/produ	ction location an	d this	field?		MILES 0251
	d.	What was the capacity of the (or other vehicle) used to ha			d?	1 Tons 2 Gallons 3 Bushels	025	CODE 52	AND	0253
	e.	Of the total manure applied crop, what was the percent			15					PERCENT
		(i) in the fall before planting	g?						. +	0254
		(ii) in the spring before plar	nting?						+	0255
		(iii) after planting?							. +	0256
					1					100%
	f.	Was the manure	2 Slurry	n liquid? liquid? dry or dry?	ļ					CODE 0257
	g.	Was the manure	2 Broadc 3 Injected		ed with	out incorporation? incorporation? stems?] 			CODE 0258
	h.		8 Food was	tle? (municipal ste?	sludge)'					CODE 0259
	i.	Was the manure	2 Purcha3 Obtaine4 Obtaine	ed on this o sed? ed at no cos ed with com	st off this	operation? on? (Operator epting the manure)				CODE 0260

		-17-	•		
	(i)	[If item 15i = 2, ask]	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
		What was the total cost of the purchased manure applied to this field? (<i>Include</i> operator, landlord, and contractor costs. <i>Include</i> any payment made for transportation costs.)	0284		0285
					CODE
					0286
	(ii)	Did you hire someone to custom apply the manure?	YES	= 1	
		(a) [If YES, ask]	DOLLARS & CENTS	_	TOTAL DOLLARS
		What was the total cost paid to have manure custom applied to this field? [Do not report custom application cost if it was included	PER ACRE 0	OR 	TOTAL DOLLARS 0288
		with the purchased manure cost.]			0200
		•		ļ	CODE
j.	Wa	s any manure that was applied to this field tested for nutrient content pri	ior to		0261
J.		olication?		= 1	
				_	
k.		the application rate of commercial nitrogen fertilizer on this field			262
		ced due to manure application?	YES =	1	
	(i)	[If YES, ask]		L	PERCENT
		By what percent did you reduce the commercial nitrogen fertilizer		0	263
		application rate on this field?		• _	
				Ę	CODE
I.	Did	you adjust the cotton harvest date for this field due to the		0	280
	appl	ication of manure?	YES =	1	
					CODE
		he manure APPLICATION RATES to this field influenced by Federal or local restrictions?		1	0264
a.	-	tem 15 is YES, ask]			
	Wh	at basis was used to determine these manure application rate restriction	าร		CODE
	/i\	Nitrogon requirement of the gran?	V50 -	_	0265
	(i)	Nitrogen requirement of the crop?	YES =	: 1	0266
	(ii)	Phosphorus requirement of the crop?	YES =	: 1	0200
	` ,			ı	CODE
		mpost applied to this field for the 2015 cotton crop?			0267
	YES	- [Enter code 1 and continue]		٠ [
				г	ACRES
•	Цом	many agree in this field was the compact applied?			0268
a.	ITUW	many acres in this field was the compost applied?		· L	· <u> </u>
		4 Tama CODE	UNITS PER ACRE O	R	TOTAL UNITS
b.	Wha	at was the amount of compost	0270	Г	0271
		ied to this field?			

				[Enter up to 3 source codes]
		1 Beef cattle?		FIRST
		2 Dairy cattle?		0281
		3 Hogs?		0201
		4 Sheep?		SECOND
C.	Were the major sources	5 Poultry? 6 Equine?		0282
	of the compost from	7 Biosolids (<i>municipal sludge</i>)?		
		8 Food waste?		THIRD
		9 Crop? [Specify:]		0283
		10 Other? [Specify:]		
		1 Produced on this operation?		
٦	Mag the compact	2 Purchased?		CODE
u.	Was the compost	Obtained at no cost off this operation? Obtained with compensation? (Operator		0272
		received payment for accepting the compost.)		0272
	(i) [If items 47d = 2 and 1	DOLLARS & CENTS	S	
	(i) [If item 17d = 2, ask]	PER ACRE		TOTAL DOLLARS
	What was the total cost of the pu	rchased compost applied 0273		0274
		andlord, and contractor costs and ation costs.)		
	any payment made for transports	<u> </u>	<u>-</u>]	
				CODE
	(ii) Did you hire company to quotom	apply the compact?	VEO - 4	0275
		apply the compost?	YES = 1	
	(a) [If YES, ask]			
	What was the total cost paid		OR	TOTAL DOLLARS
		le operator, landlord, and contractor napplication cost if it was included 0276		0277
	with the compost cost.]			
	, , , , , , , , , , , , , , , , , , , ,	<u> </u>] [
	(iii) [<i>If item 17d = 1, ask</i>]			MILES
	• • •	e compost storage/production location and this field?		0291
_				
	mpared to the last time you planted ctices with the intent of reducing c	cotton, did you make any of the following changes	to you	ir cropping
ρια	clices with the intent of reducing c	ommercial fertilizer use:		
				CODE
a.	Change the type of commercial ferti	lizer products applied on this field	_	1226
		more urea]	YES=1	
b.	Manage fertilizer use more closely,	with such practices as soil testing, split applications,		1228
	variable rate applications, or soil inc	corporation on this field?	YES=1	
				1227
C.	Change your crop rotation [e.g. plar	nt cotton on this field rather than usual crop rotation]?.	YES=1	
_				1224
d.	• •	ial nitrogen fertilizer?	YES=1	
	(i) [If YES, ask]			PERCENT
		the amount of commercial nitrogen fertilizer		1225
	applied for 2015?			

BIOCONTROL or PESTICIDE APPLICATIONS---SELECTED FIELD

D

Now I have some questions about all the biocontrols or pesticides used on this field for the 2015 cotton crop, including both custom applications and applications made by this operation.

		CODE	EDII TABLE	
Were any herbicides, insecticides, fungicides or other biocontrols or pesticides used on this cotton field for the 2015 crop?	YES = 1	0302	0300	

[Probe for applications made in the fall of 2014 (and those made earlier if this field was fallow).]

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

Include defoliants, fungicides, herbicides, insecticides, and other pesticides.

Include biological and botanical pesticides.

Exclude nutrients or fertilizers reported earlier and seed treatments.

OFFICE USE TABLE 0399
LINES IN TABLE 001

		2	3	4	5	6 (OR 7	8
CHEMICAL	L I N E	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	How much was applied per acre per application?	What was the total amount applied per application in this field?	[Enter unit code.] 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Ounces 28 Dry Ounces 30 Grams
PRODUCT NAME					prior to harvest			
	01	61		63	64	65	73	74
	02	61		63	64	65 . <u> </u>	73	74
	03	61		63	64	65 - <u> </u>	73 . <u> </u>	74
	04	61		63	64	65 . <u> </u>	73	74
	05	61		63	64	65 	73 · <u> </u>	74
	06	61		63	64	65 . <u> </u>	73	74
	07	61		63	64	65 ————	73 ———	74
	08	61		63	64	65 ————	73	74
	09	61		63	64	65 ————	73 · <u> </u>	74
	10	61		63	64	65 - <u> </u>	73 · <u> </u>	74
	11	61		63	64	· <u> </u>	73 · <u> </u>	74
	12	61		63	64	65 - <u> </u>	73 · <u> </u>	74
	13	61		63	64	· <u> </u>	73 . <u> </u>	74
	14	61		63	64	65 · <u> </u>	73 . <u> </u>	74

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

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

APPLICATIONS CODES for column 9

- 1 Broadcast, ground without incorporation
- 6 Chisel/Injected or knifed in
- 2 Broadcast, ground with incorporation
- 7 Banded in or over row
- 3 Broadcast, by aircraft
- 8 Foliar or directed spray

4 In seed furrow

5 In irrigation water

9 Spot treatments

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

9	10	11	12
How was this product applied? [Enter code from above.]	How many acres in this field were treated with this product?	How many times was it applied? NUMBER	Were these applications made by 1 Operator, partner or family member? 2 Custom applicator? 3 Employee/Other?
76		79	80
76	77	79	80
76	77	79	80
76	77	79	80
76	77	79	80
76	77	79	80
76	77	79	80
76	77	79	80
76	77	79	80
76	77	79	80
76	77	79	80
76	77	79	80
76	77	79	80
76	77	79	80
	How was this product applied? [Enter code from above.] 76 76 76 76 76 76 76 76 76 7	How was this product applied? How many acres in this field were treated with this product? [Enter code from above.] ACRES 76 77 <th>How was this product applied? How many acres in this field were treated with this product? Number 76 77 </th>	How was this product applied? How many acres in this field were treated with this product? Number 76 77

OPTIONAL ITEM 4							
What was the co	What was the cost per unit of the product?						
i I	UNIT CODE						
I I I I DOLLARS & CENTS PER UNIT	1 Pounds 15 Liquid Ounces 12 Gallons 28 Dry Ounces 13 Quarts 30 Grams 14 Pints						
81 	82						
81	82						
81	82						
81	82						
81	82						
81	82						
81	82						
81	82						
81	82						
81	82						
81	82						
81	82						
81	82						
81	82						

3.	We	ere any chemicals, biocontrols	s, or pesticides applied by	y custom applicat	tors?		
		YES – [Continue]	☐ NO – [Go to item 4]				OFFICE USE
	a.	Are you able to report the cost application separately?	of chemical, biocontrol, an	d pesticide produc	ts and custom		0324
		☐ YES – [Continue]	☐ NO – [Go to item 4]				
					DOLLARS & CENTS		
					PER ACRE	1 г	TOTAL DOLLARS
	b.	Excluding the cost of the cheminow much was spent for custor (Include operator, landlord, and	m application of such mate	rials on this field?			0332
1	\A/L	hat was the TOTAL COST of all	lahamiaal biaaantual ar	, maatiaida	DOLLARS & CENTS		
4.		hat was the TOTAL COST of all oducts applied to this field?(//			DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
	co: ag	sts, defoliants, herbicides, insect ents, growth regulators, and mat 15 fallow period. Exclude seed	ticides, fungicides, surfacta terials applied before planti	nts, wetting ing and during	0334		0335
		·	,		DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
	a.	How much was spent for herbi operator, landlord, and contract			<u> </u>		
					DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
	b.	How much was spent for insec (<i>Include</i> operator, landlord, and			·		
NI/	TE	4. If recognized connect report TOT	AL COST itemize east for as	ab product in antions	ol columns in Bissenti	rol or	Docticido Toblo
IAC) E	1: If respondent cannot report TOT.	AL COST, ILEMIZE COST FOR EA	cri product iri optioria	ai coluitilis ili biocolli	01 01	resticiue l'able.
NO	DTE	2: If custom applied and the costs f Otherwise, report both the materi			sts, include the cost fo	or ma	aterials only.
6.		as the cotton that was grown in Il weevil eradication program (YES:		325
	[<i>If</i>	YES, ask]					
	a.	What phase has the eradication in this field	n program reached		adication phase?	0	336
				D	OOLLARS & CENTS PER ACRE C	DR	OOLLARS & CENTS PER BALE
	b.	For 2015, what was your asses participate in the BWEP?				0	338
		(Include operator, landlord and contrac	ctor charges for 2015.)	<u></u>			
							CODE
	C.	How did the level of secondary	cotton pests in 2015	1	Increased?	0	339
		compare with the level prior to (e.g. beet armyworm; budworms; plant					
4	ASK	FOR CALIFORNIA and TEXAS	S ONLY				CODE
	7.	Was the cotton in this field coveradication or suppression pro	vered by an area-wide pi		YE	ES = 1	0341
		[If YES, ask]			DOLLARS & CENTS PER ACRE	OR	DOLLARS & CENTS PER BALE
		a. For the current crop year, whin the PBEP?			0342		0343

(Include operator, landlord, and contractor costs per acre and/or per bale charges for this year's cotton. 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, your landlord, or your contractor paid.)

Ε

PEST MANAGEMENT PRACTICES---SELECTED FIELD

Now I have some questions about your pest management decisions and practices used on this field for the 2015 cotton crop. By pests, we mean WEEDS, INSECTS, and DISEASES.

ΕN	UMERATOR ACTION: Were PESTICID	DE applications reported in Section D?]		
	☐ YES – [Continue]	☐ NO – [Go to item 6]		
				CODE
1	Was weather data used to assist in d	letermining either the need or when to make		0800
٠.		to make	YES = 1	
2.		as Bt (Bacillus thuringiensis), insect growth		
		ological based products sprayed or applied to		0801
	manage pests in this field?		YES = 1	
_				<u> </u>
3.		anisms of action rotated or tank mixed for the	\/=o 4	0802
	primary purpose of keeping pests fro	om becoming resistant to pesticides?	YES = 1	
[EN		IDE (pesticide product codes 40000-49999)		
	_	ns reported in Section D, item 1, column 2?]		
	☐ YES – [Continue]	□ NO – [Go to item 6		
				0803
4.	Were herbicides applied to this cotto	on field BEFORE weeds emerged?	YES = 1	
				0805
5.	Were herbicides applied to this cotto	on field AFTER weeds emerged?	YES = 1	
		By deliberately going to the field specifically for scouting	7	
6.	In 2015, how was this field	activities [Enter code 1 and go to item 7.]		CODE
	primarily scouted for insects,	2 By conducting general observations while performing		0808
	weeds, diseases, and/or beneficial	routine tasks [Enter code 2 and go to item 9.]		0000
	organisms?	3 This field was not scouted. [Enter code 3 and go to item 14.]		
		[J	
				0000
7.		s (systematic sampling, recording counts, etc.) used		0809
		d? [Exclude traps checked as part of either BWEP or		
	<i>PBWP</i> .]		YES = 1	
	Did consequently designed by	Charles and the Harris Service Control of the Contr		
	a. Did you measure the damage by of	budworm or bollworm infestations on this field?	YES = 1	
				COUNT
	[If item 7a = 1, ask](i) If traps wer	re used, what was the average insect count per acre?		
			□ N/A	
			٦	CODE
		1 Damage in 1 locule		
	(ii) If hall dame are a second	2 Damage in 2 locules 3 Damage in 3 locules		
	(ii) If boll damage scores were reco the average boll damage score per	orded (U to 4), what was 4 Damage in all locules		
	the average boll damage scole per	o not applicable	_	

8.	Was	s scouting for pests done in this field du	ie to			
						0810
	a.	a pest advisory warning?			YES = 1	
	L	a mant day along on the adolf			\- <u>-</u>	0811
	b.	a pest development model?			YES = 1	
		1		2	3	
		,			[If column 1 =	
				[<i>If YES, ask</i>] What was the	Who did the m	ajority of the
				infestation level	scou	
				for [column 1]?—	for [colu	mn 1] ?
				4 11/		tner or family member
				1 Worse than normal2 Normal	2 An employee 3 Farm supply of	or chemical dealer
				3 Less than normal	4 Independent	crop consultant or
9.	Was	s this cotton field scouted for	YES = 1	CODE	commercial so	CODE
			0812	0813	0814	
	a.	Weeds?				
			0815	0816	0817	
	b.	Insects or mites?				
			0818	0819	0820	
	C.	Diseases?				
[<i>If</i> :		ed by crop consultant or commercial scout go to item 11.]	, ask item 10;			
				DO	LLARS & CENTS	
					PER ACRE OR	TOTAL DOLLARS
10.		w much was charged for the scouting se			21	0822
	line	lude operator, landlord and contractor cos	(.]		'	
						OFFICE USE
	a.	If scouting performed at no cost, explain:				0333
		<u>-</u>				
						CODE
11	Wei	e written or electronic records kept for	this field to t	rack the activity or n	umbers of	0823
		eds, insects or diseases?				ı
12.		e scouting data compared to published				0824
	thre	sholds to determine when to take meas	ures to mana	age pests in this field	d? YES = 1	
13.		you use field mapping of previous week				0825
	wee	ed management decisions?			YES = 1	

14.	pui	I you do any of the following other type(s) of pest management practices for the rpose of managing or reducing the spread of pests in this field?	specific	
	(En	ter 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 residue (using conventional tillage)?	YES = 1	0842
	C.	Remove/burn down crop residue?	YES = 1	0843
	d.	Rotate crops in this field during the past three 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 a certain pest?	YES = 1	0846
	g.	Use no-till or minimum till?	YES = 1	0848
	h.	Plan planting locations to avoid cross infestation of pests?	YES = 1	0849
	i.	Adjust planting or harvesting dates?	YES = 1	00.10
	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?	YFS = 1	0851
	l.	Adjust row spacing, plant density or row directions?		0852
			123-1	0054
	m.	Have the seed treated for insect or disease control after you purchased the seed for this field?	YES = 1	0854
	n.	Maintain a beneficial insect or vertebrate habitat?		0855
	0.	Maintain buffer strips or border rows to isolate organic cotton from non-organic crops land, or did you take a buffer harvest?		0856
	p.	Use a flamer to kill weeds?	YES = 1	0857
	q.	Plant earlier or later to avoid weeds?	YES = 1	0865
15.		re any beneficial organisms (insects, nematodes, fungi) applied released in this field to manage pests?	YES = 1	0853
10	\A/~	ve florel lurge ettrestante renellante mbarrament trans an ethan biological most		0858
10.		ere floral lures, attractants, repellants, pheromone traps or other biological pest ntrols used on this field?	YES = 1	
	a.	,		
		for all biological pest controls for this field? PER	& CENTS ACRE OR	TOTAL DOLLARS
		Include operator, landlord, and contractor costs. Include cost for beneficial organisms (insects, nematodes, and fungi). Exclude biological pesticides previously reported		0860
				CODE
				0863
17	W۵	s a trap crop (excluding fallow) grown to help manage insects in this field?	VFQ = 1	0003
		a trap stop (oxoloumy famon) grown to noip manage modete in tine noid it	120-1	
				0864
18.	Wa	s this field left in fallow in 2014 to help manage insects on this field?	YES = 1	

19.	Were water management practices s drainage, or treatment of retention w or toxin-producing fungi and bacteri	ater used on th	is field to manage	pests	YES		0861
20	Did you cultivate this field for weed	control?			YE	S = 1	
							NUMBER
	a. [If yes, ask]						
	How many times?						
						_	CODE
21.	Did pests (weeds, insects, pathogens, in spite of your pest control efforts?						0827
If y	es, ask]						
	How much yield loss do you think was caused by all pests on this field in spite of the management	1 BUSHELS	CODE	-	UNITS PER ACRE	1	TOTAL UNITS
	practices you used to reduce those losses?	2 TONS		AND		OR	
			_				NUMBER OF YEARS
22.	If you used Bt seeds on this field in 2						
	have planted Bt seeds. [Note: A prodeconventional cotton in 2014, has used to			and 201	5, put		
						_	YEAR
	(i) [If 22a is greater than 1, ask] single mode of action to a Bt se indicate the year that this change	ed with multiple	(pyramided) mode	s of actio	on,	I/A	
23.	Have you ever planted any glyphosa (e.g. Roundup Ready corn or soybea				YES :	= 1	
	[If item 23 = YES, continue. If item 23 :	= NO, go to item	26.]				YEAR
	a. What year did you first plant any G	R crop on this fie	eld?				
						г	CODE
24.	Have you noticed a decline in the eff controlling weeds in this field?					S = 1	
	[If item 23 = YES, continue. If item 23 :	= NO, go to item	26.]				YEAR
	a. What was the first year you noticed controlling weeds on this field?						
25.	After noticing the decline in the effect this field, did you	ctiveness of gly	phosate in contro	lling we	eds on		CODE
	a. stop planting GR crops?				YES =	1 _	
	b. change tillage practices?				YES =	1	

26. After noticing the decline in the effectiveness of glyphosate in controlling weeds on this field, how did you change your use of--

		Increase use	Decrease use	Discontinue use	Did not change use	Did not use the chemical at all
		YES = 1	YES = 1	YES = 1	YES = 1	YES = 1
a.	glyphosate					
b.	fluometuron					
C.	acetochlor/S-metolachlor					
d.	paraquat					
e.	2, 4-D					
f.	diuron					
g.	herbicides other than those asked above					

[If item 23 = YES, ask; otherwise go to Section F]

27. Considering each year you planted a GR crop on this field, have you ever used the following practices in order to reduce the rate that glyphosate resistance develops in weeds on this field?

	to reduce the rate that gryphosate resista	noc acverops		,
1 RESISTANCE MANAGEMENT PRACTICE		2	How often did you use this practice on this field?	Did the cost of managing weeds on this field increase as a result of your use of the practice?
			1 Every Year 2 Every Other Year 3 Multiple Years 4 One Year	1 Yes 2 No 3 Don't Know
		YES = 1	CODE	CODE
		0886	0871	0878
a.	Control weeds early			
		0887	0872	0879
b.	Control weed escapes			
C.	Clean equipment between moving from one field to the next	0888	0873	0880
		0889	0874	0881
d.	Use herbicides other than glyphosate			
		0890	0875	0882
e.	Use tillage			
f.	Use the herbicide label recommended application rate	0891	0876	0883
		0892	0877	0884
g.	Rotate crops			

[If item 27 column 2 contains at least one "1", ask: otherwise go to Section F.]

28.	Considering the above practices
	(i.e. a-g) do you believe resistance
	management practices are or would be more
	effective in reducing the rate that herbicide
	resistance develops in weeds on this field if
	operators of nearby farms also use them?

1 – Yes 2 – No	
3 – Don't Know	CODE
4 – The nearest farm is too far away to affect this field	

Completion Code for Pest Management Data			
1	0500		
Incomplete/Refusal			

FIELD OPERATIONS--SELECTED FIELD

1.	Including custom operations, I need to list field work by machines on this field for the 2015 cotton crop. Pl	performed ease…	CHECK LIST
	begin with the first field operation after harvest of previous of including operations for a cover crop established since the harvested [if fallow during 2014, list operations starting with fall 2013];		Include all field work using machines for Land Forming/Levee Building Tillage
	 list the operations in order through harvest and hauling of the to storage or first point of sale; and maintain the order of tandem hook-ups. 	nis crop	Preparing for Irrigation Planting Fertilizer & Pesticide applications Harvesting
	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	OFFICE USE LINES IN TABLE 0499	Module Building Hauling from field to gin Exclude Lime & Gypsum/landplaster applications Non-Commercial Manure applications & Compost

	[IF CUSTOM (column 5 = code 6), skip columns 6-11]									
	2	3	4	5	6	7		OR 9	10	11
L I N E	& E Q D E Z C E	What operation or equipment was used?	[Record machine code from Respondent Booklet.]	Who was the machine operator- [Enter code from above.]	What was the size or swath of the [machine] used?	[Record size unit code.] 1 Feet 2 Row 3 Moldboard (bottoms) Hauling 4 Pounds 5 Bushels 6 Tons 7 Bales	How many acres were covered? [Exclude land forming and hauling operations]	How many TOTAL HOURS were spent on land forming, module building, or hauling? [Example: backhoes, disk border maker, ditcher, rear mounted blade, trucks, wagons, forklifts, etc.]	Which Power Source was used? 1/ Tractors: 1= (<40 HP) 2= (40-99 HP) 3= (100-149 HP) 4= (150-199 HP) 5= (>=200 HP) Other: 66=Animal Drawn 77=Pick up 99=Self Propelled 1/	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
No.	No.		CODE	CODE		CODE	ACRES	HOURS	CODE	CODE
01	87		88	89	90	91	92	93	94	95
02	87		88	89	90	91	92	93	94	95
03	87		88	89	90	91	92	93	94	95
04	87		88	89	90	91	92	93	94	95
05	87		88	89	90	91	92	93	94	95
06	87		88	89	90	91	92	93	94	95
07	87		88	89	90	91	92	93	94	95
80	87		88	89	90	91	92	93	94	95
09	87		88	89	90	91	92	93	94	95
10	87		88	89	90	91	92	93	94	95
11	87		88	89	90	91	92	93	94	95
12	87		88	89	90	91	92	93	94	95
13	87		88	89	90	91	92	93	94	95
14	87		88	89	90	91	92	93	94	95
15	87		88	89	90	91	92	93	94	95
16	87		88	89	90	91	92	93	94	95
17	87		88	89	90	91	92	93	94	95
18	87		88	89	90	91	92	93	94	95

1/ If trucks other than pick-ups are used as the power source, use truck codes in Respondent Booklet.

OFFICE USE

2. Now I need some additional information about your labor.

Please report the paid and unpaid labor that worked on this field to produce the 2015 cotton crop. (*Exclude* labor that was reported for field work performed by machines.)

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

		DOLLARS & CENTS PER HOUR
3.	What was the average hourly wage rate paid to part-time or seasonal hired workers? (Exclude custom and contract workers, payroll taxes and benefits.)	1119
		DOLLARS & CENTS PER HOUR
4.	What was the average hourly wage rate paid to full-time hired workers? (Exclude custom and contract workers, payroll taxes and benefits.)	1118
		CODE
_		1116
5.	Was any contract labor used on this field? YES = 1	
	a. [If YES, ask]	DOLLARS & CENTS PER ACRE
	What was the average cost per acre for this contract labor? (Include operator, landlord, and contractor costs.)	1117
6.	What percent of the total number of unpaid hours worked on this field was performed by	PERCENT
	workers under 16 years of age? (Estimates of labor costs for unpaid workers are based on off-farm wage rates, which are different for workers under 16 relative to those 16 and older.)	1120

2	\cap	

7. Now I need some information on how much was spent (or will be spent) for custom services used on this field for the 2015 cotton crop.

		CUSTOM SERVICE Which of the following services were performed for the 2015 cotton crop on this field?	Including operator, landlord, and contractor costs, how much was spent for [column 1] on this field for the 2015 cotton crop? DOLLARS & CENTS	
✓	+	- [Check box for each service performed; refer to item 1 if necessary.]		PER ACRE
	a.	Custom land preparation and/or shaping	1122	
Ш		(Cost per hour X Total hours = Total dollars ÷ Total acres in the field = Dollars & cents per acre)		· <u> </u>
	b.	custom cultivating?		· <u> </u>
П	C.	Custom planting and/or reseeding	1123	
			1124	
Ш		Custom harvesting	1126	· <u> </u>
	е.	Custom module building? x ÷ =	1120	·
	f.	Custom hauling from field to gin?	1127	
Ш		(Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre)		· <u> </u>
	[If c	ustom harvesting, module building, and hauling from field to gin cannot be separated, ask] Custom harvesting, module building, and hauling from field to gin. x ÷ =	1128	
	[No	ote: Do not report cotton ginning costs. If harvesting, module building, and/or hauling costs cannot be separated from	l ginning (costs, report the
8	Dic	d you hire any technical or consultant services to make recommendations uch as for nutrient, pest control, irrigation, or precision farming) for this field? YES – [Continue] NO – [Go to item 11]		
	Wr	nich of the following services did you obtain?		CODE
	a.	Nutrient recommendations/management service?	'ES = 1	1129
	b.	Soil or tissue sample collection?	'ES = 1	1130
	c.	Pest control recommendations/management service?	'ES = 1	1131
	d.	Pest scouting? (Exclude any activity for the BWEP or PBWP)	/ES = 1	1132
	e.	Irrigation management service (i.e. irrigation scheduling)?	'ES = 1	1133
	f.	Yield map or remote sensing map development/interpretation?	/ES = 1	1134
	g.	Other custom or technical service? [Specify:] Y	'ES = 1	1135

9	If YES to any of these services, what was the cost for all c services? (Include operator, landlord, and contractor costs. soil/tissue tests or scouting cost reported earlier. Do not report	Exclude cost of rt costs for any of	DOLLARS & CENTS PER ACRE	OR TOTAL DOLLARS
	these services if they were previously reported as part of the cand/or application.)		· <u> </u>	1137
				CODE
10	Were there (or will there be) any data collection tools (yield etc) used during field operations on this cotton field?			= 1
	[If YES, continue; else go to item]			
	Please report the data collection technologies you use the data is collected with Global Positioning System (create a map.			
		1	2	3
	Data Collection Tool	Tool Used	Collected with GPS	Data was/will be mapped to create a map
		YES = 1	YES = 1	YES = 1
	a. Yield monitor			
	b. Soil tests on core samples (performed on-farm or sent out to a laboratory)			
	c. Soil sensor tests			
	d. Hard-wired crop condition sensors			
	e. Wireless crop condition sensors			
	f. Drones, aircraft or satellites			
	g. Custom service applications (data from completed work on your field)			
	h. Public data downloaded from the online sources			
11	Diagon remort how your form data will be atomed and access	and [Enter code	"1" for all that ann	.h.1
11.	Please report how your farm data will be stored and acces	ssed. (⊏nter code	е т тоган итак арр	''y'.]
	a. Did you access the data collected from this field on a			CODE
	1. Paper hard copy		YES	= 1
	2. Personal computer		YES	= 1
	3. c. Mobile device		YES	= 1
	b. Did you access the data collected from this field through a provider website?			= 1

	[If it	tem 11b = 1 continue, otherwise go to Item 12]		
	C.	Did you opt-out of your agricultural technology provider website sharing data collected from this field with any third party?	YES = 1	
	d.	Did you share any of the data collected from this field with a third party through an agricultural technology provider website?	YES = 1	
12.		you obtain crop management recommendations (data interpretation) based on that ducollected from [Enter code "1" for all that apply.]	lata	CODE
	a.	Input dealers?	YES = 1	
	b.	Integrated input providers?	YES = 1	
	C.	Custom Service providers?	YES = 1	
	d.	USDA/University extension services?	YES = 1	
14.	Did	you use the yield monitor information to [Enter code "1" for all that apply.]		CODE
	a.	monitor crop moisture content to determine need for crop drying?	YES = 1	1140
	b.	add/improve tile drainage?	YES = 1	1141
	C.	negotiate new crop leases?	YES = 1	1144
	d.	other uses [specify:]	YES = 1	1147
15.		s any of the following GPS-enabled (Global Positioning System) equipment used to duce crops on this field? [Enter code "1" for all that apply.]		CODE
	a.	Guidance auto-steering (excluding Light Bar)?	YES = 1	
	b.	Light Bar?	YES = 1	
	C.	Variable rate application for seeding?	YES = 1	
	d.	Variable rate application for fertilizer/lime?	YES = 1	
	e.	Variable rate application for pesticide applications?	YES = 1	
	f.	"Smart" technologies like Google Glass or other head-up cab control displays?	YES = 1	
	g.	Other GPS-enabled equipment	YES = 1	

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		ACRES	
1.	How many acres in this field were irrigated for the 2015 cotton crop?	1160	

2. Now, I have some questions about irrigation systems and water used on this field for the 2015 cotton crop.

[If none, go to **Conclusion**].....

↓	UNIT	SYSTEM 1	SYSTEM 2
a. What type(s) of irrigation system(s) was (or were) 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
	INCHES PER ACRE OR	1162	1176
b. What was the total quantity of water applied to this field during the entire growing season? (<i>Include</i> ALL water used from both onfarm and off-farm sources.).	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? (<i>Include</i> 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 2015 growing season? (<i>Exclude this field.</i>)	ACRES	1174	1188

		PER ACRE	OR	TOTAL DOLLARS
3.	What was the cost of the fuel or electricity used to irrigate this field?	1189		1190
	(Include operator, landlord, and contractor costs.)	· <u> </u>		

CODE

4.	and	s any water purchased to irrigate this field? (<i>Include</i> operator, landlord, and contractor's shared purchases from all sources.) YES – [Enter code 1 and continue.] NO – [Go to item 5.]	1191					
		DOLLARS & CENTS						
	a.	What was the total cost for the water purchased for this field during the 2015 growing season? (<i>Include</i> operator, landlord, and contractor costs and ditch maintenance costs for this field.)	1194					
_			TOTAL DOLLARS					
5.	-	SIPHON TUBES were used (item 2a = 10 or 11), ask] at would be the total cost to replace all the siphon tubes used on this field?	1201					
6.	[If F	POLY PIPE system was used (item 2a = 14) ask]	TOTAL DOLLARS					
		nat was the total amount spent for poly pipe used on this field during the 15 growing season? (Include operator, landlord, and contractor costs.)	1202					
7.	[If (GATED PIPE system was used (item 2a = 15 or 16), ask]	INCHES					
	a.	What was the average diameter of gated pipe used to irrigate this field?	1203					
		3	FEET					
	h	What was the total length of gated pipe used?	1204					
			CODE					
8.	We	re wells used to supply irrigation water for this field? YES – [Enter code 1 and continue]	1205					
	a.	How many wells were used to irrigate this field?	1206					
			INCHES					
	b.	What was the average diameter of the outer well casing?	1207					
	С.	What was the average pumping depth of these wells during the irrigation season?	FEET					
	0.	[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					
	d.	Were other fields irrigated using water pumped from wells that supplied	CODE					
		water to the selected field? YES – [Enter code 1 and continue] NO – [Go to item 9]	1210					
			ACRES					
	e.	Excluding this field, how many other acres on this operation were irrigated using the same wells during the 2015 growing season?	1211					
9.		is any additional mainline or lateral pipe used to carry water from the source to the stem in this field? (Include underground pipe. Exclude any system pipe within the selected field						
		YES – [Continue]	,					
			INCHES					
	a.	What was the average diameter (<i>in inches</i>) of the most common type of this additional pipe used?	1212					
		or the additional pipe about.	FEET					
			1213					
	b.	How many feet of this additional pipe were used to bring water to this field?						

LOCATION OF SELECTED FIELD

1.	I need to locat map.		col	OFFICE USE COUNTY FIPS CODE						
2.	What county i	What county is the selected cotton field in?								0010
	Field descript	tion								
FO	R STATES WIT	TH GPS UNITS ON	LY			TITUDE			LON	IGITUDE
	Field location	l	N	005	54 	<u>,</u>		w 0055		
3.	[ENUMERATO	DR ACTION : Mark Be su	c map to indicate w ure the "X" marked		e the selec	cted cottor			a u u	mm ss
4.		additional informa 6 to collect it. I'll c	ation to complete	e this	s study. W	Ve will co	ontact y	you in Febru	ary	
5.		e complete results								CODE
	www.nass.uso	da.gov/results/. W at a later date?	Vould you rather	have	e a brief s	summary			YES = 1	9990
	-								•	HH MM
6.	ENDING TIME	[MILITARY]								0005
	CORDS USE									
_		at was form/ranch r	records to report.	1						CODE
7.		nt use farm/ranch re	•	-						CODE 0011
	a. [fertilizer d	data?]							YES = 1	0012
	b. [pesticide	e data?]							YES = 1	
	c. [majority of	f this expense data	⋾ ?]						YES = 1	0013
										NUMBER
su	IPPLEMENTS U	JSED						FERTI APPLIC	ILIZER ATIONS	0041
8.	[Record the tot	tal number of each a	type of suppleme	nt				PEST APPLIC	TICIDE SATIONS	0042
	useu to comp.c	ile uno mierview						FIE	ELD ATIONS	0043
					9910		991	 11		
Re	eported by:						15	elephone: ()	
<u></u>	5 11.4	2004			M M	D D		•		01
	R. Unit	\$\$0.1			nal Use		Eval.			Change
992	1	9907	9906		9916	1	9900		9985	5
	Respo	T	Respond					Mode		Enum.
2-R 3-In		2- 3- 4-	I-Op/Mgr 2-Sp 3-Acct/Bkpr I-Partner 9-Other	9902		2-Tel 3-Face-to)-Face	9903		9998