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National Agricultural Statistics Service U.S Department of Agriculture NOC Division 9700 Page Avenue, Suite 400 St. Louis, MO 63132-1547

Phone: 1-888-424-7828 Fax: 855-515-1328 E-mail: nass@nass.usda.gov

C-TYPE

106

COTTON PRODUCTION PRACTICES AND COSTS REPORT FOR 2015

CONTACT RECORD

TRACT

01

NOTES

SUBTRACT

ID

VERSION

11

TIME

DATE

	I	l					
We are collecting as possible. The Protection provision confidential and has taken an oar	elf, and ask for the g information on the e information you p sions of Title V, Su will not be disclose	ne practice provide will obtitle A, Pred in ident	Rephrase in your own s and costs used to pro I be used for statistical ublic Law 107-347 and ifiable for to anyone other, a fine, or both if he o	oduce cotton and purposes only. I other applicable ner than employe	n accordance with Federal laws, you es or agents. By l	the Confident r responses wi law, every emp	ial Information Il be kept oloyee and agent
collection of info 0535-0218. The	rmation unless it de time required to c tructions, searching	lisplays a vocamplete the	f 1995, an agency may valid OBM control numb nis information collectio data sources, gatherin	per. The valid On n is estimated to	MB control number average 65 minut	r for this informes per respons	nation collection is se, including the time
We encourage y	ou to refer to your	farm reco	rds during the interview	<i>I</i> .			
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-2-

TOTAL PLANTED

			ACRES
1.	pla	w many acres of cotton did this operation plant for the 2015 crop year? [If no acres nted, review Screening Survey Information Form, make notes, then go to item 4 on back ge]	. <u> </u>
	[If s	kip 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

0022

		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 guned 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.		TOTAL DOLLARS
	the 2013 crop on the selected held? (Include the costs for all hipdis,	1310
	such as seed, fertilizer, chemicals, technical services, custom operations, drying and irrigation.)	1510
	<u> </u>	YEAR
7.	What year did you (the operator listed on the label) start operating this field?	1312
		MM DD YY
8.	On what date was this field planted?	1308
Ο.	On what date was this held planted?	
		POUNDS PER
		ACRE
	a. What was your yield goal for cotton lint at planting for this field?	
	(Exclude pounds of sood conton.)	
^	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 2016	crop years?		
16. [If item 15=1, for either year continue. Else, go to 17] Did the cotton posterically engineered traits in 2015 or 2014? [Leave the second cotton in 2014.]			
1	2		3
	2015		2014
	YES = 1	□ N/A I	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
		2015 YES = 1	2014 YES = 1 N/A No cotton in field = 4
17. Was a non-genetically engineered seed planted in			YES = 1 N/A No cotton
17. Was a non-genetically engineered seed planted in			YES = 1 N/A No cotton
			YES = 1 N/A No cotton
		YES = 1	YES = 1 N/A No cotton in field = 4
		YES = 1 2 2015	YES = 1 N/A No cotton in field = 4 3 2014 YES = 1 N/A No cotton
[Item 17=1 for either year, then continue. Else, go to Item 19]		YES = 1	YES = 1 N/A No cotton in field = 4 3 2014 YES = 1
		YES = 1 2 2015	YES = 1 N/A No cotton in field = 4 3 2014 YES = 1 N/A No cotton
[Item 17=1 for either year, then continue. Else, go to Item 19]		2 2015 YES = 1	YES = 1 N/A No cotton in field = 4 3 2014 YES = 1 N/A No cotton
[Item 17=1 for either year, then continue. Else, go to Item 19] 18. Was this non-genetically engineered seed herbicide tolerant in 19. For the 2015 cotton crop, did you purchase pre-treated seed or have to	he seed treated afte	2 2015 YES = 1	YES = 1 N/A No cotton in field = 4 3 2014 YES = 1 N/A No cotton in field
[Item 17=1 for either year, then continue. Else, go to Item 19] 18. Was this non-genetically engineered seed herbicide tolerant in 19. For the 2015 cotton crop, did you purchase pre-treated seed or have to purchase with	the seed treated after	YES = 1 2 2015 YES = 1	YES = 1 N/A No cotton in field = 4 3 2014 YES = 1 N/A No cotton in field
 [Item 17=1 for either year, then continue. Else, go to Item 19] 18. Was this non-genetically engineered seed herbicide tolerant in 19. For the 2015 cotton crop, did you purchase pre-treated seed or have to purchase with a. a fungicide (e.g., Trilex, Allegiance, or other seed treatments)? 	he seed treated afte	YES = 1 2 2015 YES = 1 YES = 1	YES = 1 N/A No cotton in field = 4 3 2014 YES = 1 N/A No cotton in field

[If item	19c = 1 continue, otherw	ise ad	o to Item XI	7 –			-	•	
20. Die	d you use an "air delive	ry and	d∖or vacuum planter (pr						
pu	rchased with an insection	cide s	seed treatment?				YE	S = 1	
a.	[If item 20 is YES, ask	-]							CODE
	Did you use a talc or and	d/or g	graphite seed flow lubrica	nt?			YE	S = 1	
	,	J	•						
	SEED TRE	ATM	ENT PRODUCTS CODE	LIST f	or item 21 – \$	SEED TREA	TMEN	Т	
100 /	Acceleron	104	Apron	108	Avicta Comp	lete	112	Gau	cho Grande
101 /	Acceleron I	105	Cruiser	109	Aeris		113	Gene	ero
102 /	Acceleron FI	106	Cruiser Dynasty	110	Aeris + Trilex	Advanced	999	Othe	er
103 /	Acceleron N	107	Avicta	111	Gaucho		3	Seed	d was not treated
									CODE
	tem 19 = 1 continue, other								
3 11	f a seed treatment was no	t app	·lied)						
22. Dio	d you use an insect resista	ant se	ed variety?				YE	S = 1	
a.	[If item 22 = 1 continue,	other	wise go to Item X]						
	Did you choose the resis	stant	seed variety used on this	field p	rimarily to				
	-		d pest (weed or insect) control?	>				ļ	CODE
	2 Decrease pesticide input of 3 Save management time of		or improve ease of manageme	ent?					1343
	4 For some other reason(s)		•					•	
									PERCENT
23 Wi	nat percent of the field w	vas II	sed as refuge in order t	to com	nly with				1361
	cotton insect resistant								
									CODE
04 11			1.4.10						1328
24. H	as harvest of this field b	een (completed?				. YE	S = 1	
25. Ple	ease report the following i	nforn	nation about the acres I	harves	ted (or to be f	narvested) a ı	nd the	yield	ds from this
						1			
		44				How many of lint per a			2
	ow many acres in the cot Id were (or will be)	πon				do you exp	pect to)		UNIT CODE
	, ,					get for co	otton		1 POUNDS
					ACRES	UNITS PER	ACRE	<u> </u>	CODE
a.	harvested for lint?			1346	ē	1347		134	48

1351

b. abandoned?.....

	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 What crops were PLANTED or	Was this a cover crop?	3 How did you manage this crop?		5 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
GEAGGIVAIND TEAK	OROT WAITE	1343	1470	1471	1344	1345
a. FALL of 2014?		1040	1470	1771	1044	10-10
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 tim	received at any ie	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?					

PROGRAM	1 1/	How many practices or practice enhancements are included in the	3 Does the contract include livestock-related practices?	4 During the past 4 years, was this field included in an application that was rejected or has not yet been funded?				
	YES = 1	contact?	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.]								

			behalf? [Include the number of hours spent with you plus the number of hours spent on your behalf.]	of the consultation?		
		YES = 1	HOURS	DOLL	ARS & CENTS	
a.	Hire a consultant to help prepare the application?				·	

How much time was spent on your

b. 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:

indicate the approximate time you spent on the following activities:			
		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?					
С	. [Does this system include a mechanism for cisers, or float mechanisms)?	ontrolled drai	inage (e.g. sto	op logs,	S = 1	
38.	W	hich of the following resource concerns you	u do have on t				
		RESOURCE CONCERNS	CODE	the foll cond 1 USDA-NR 2 Cooperati 3 Other USI	eceived technical a owing sources to eern? (Report up to received assist RCS ve Extension Servic DA staff, including F g. Soil and Water Co	evalu o 3 se tance e orest	uate this resource ources that you e from.)
			YES = 1	Source 1	Source 2	<u>.</u>	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					
20	14/ -	a the cotton in this field covered by Federal	O I	in 00450			
39.	vva	s the cotton in this field covered by Federal	Crop insurar	1Ce IN 2015?			CODE 1385
		☐ YES – [Enter code 1 and continue.]	■ NO – [Enternal of the left of the le	er code 3 and 0	Go to item Section	C.].	
	a.	Which coverage did you obtain?	 Stacked In Yield prote Yield plus Yield plus option) Revenue p Revenue p Revenue p 	come Protection ction STAX SCO (supplement protection clus STAX	-]	CODE 1386
		[If item 39a = 3, ask]					PERCENT
		b. What was your yield level of your basic buy	y-up coverage	for this field?.			1387
		c. What was your price level of your buy-up c	overage for th	is field?			1388
		[If item 39a = 6, 7, or 8, ask]	-				PERCENT
				16 01 6 1	10		1389
		d. What was the level of basic revenue cover	age you obtair	ned for this field	d'?		

NUTRIENT or FERTILIZER APPLICATIONS---SELECTED FIELD

		CODE	EDII IABLE
	Were commercial nutrients or fertilizers applied to this field for the	0202	0200
	2015 cotton crop? (Include those from operators, landlords, and		
	<i>contractors.</i>)		
	[If COMMERCIAL nutrient or fertilizer applied, continue; else go to item 6.]		NUMBER
<u>.</u>	How many commercial nutrient or fertilizer applications were made to this field		0203
	for the 2015 crop? (Include applications made by airplanes and custom applicators	:.)	

3	Now I need to record information for each application.							
i	CHECK							
i	√ INCLUDE	√ EXCLUDE						
<u>.</u> [Custom applied nutrients and fertilizers	☐ Micronutrients						
	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						
<u>'</u> [Commercially prepared manure or compost	Lime and Gypsum/landplaster	Office Use Lines in Table	TABLE 001	0299			

APPLICATION CODES for COLUMN 6

- 1 Broadcast, ground without incorporation
- 2 Broadcast, ground with incorporation
- 3 Broadcast, by aircraft
- 4 In seed furrow

- 5 In irrigation water
- 6 Chisel/Injected or knifed in
- 7 Banded in or over row
- 8 Foliar or directed spray

		:	2		3	4	5	6	7
L I N E	pounds of plant nutrients applied per acre.]		What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.]	[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			- Tritter decaring		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
80	31	32	33	34	36	37	38	39	40

TABLE	LINE
000	00

4.	Were any nutrients or fertilizers applied	ed by custom applicators?				
	☐ YES - [Continue]	☐ NO - [Go to item 5]				
	a. Are you able to report the cost of nut custom application separately?	rient or fertilizer materials and	d			OFFICE USE
	☐ YES - [Continue]	☐ NO - [Go to item 5]				0215
	b. Excluding the cost of the nutrient or f was spent for custom application of r (<i>Include</i> operator, landlord, and contract micronutrients. <i>Exclude</i> custom app manure and purchased compost.) [In be separated, exclude them here and purchased.]	nutrients or fertilizers on this fi or costs. Include costs for sul plication of lime, gypsum, purc f material and application cost	ield? Ifur and chased ts can't	DOLLARS & CENTS PER ACRE 0219	OR	TOTAL DOLLARS 0220
5.	What was the TOTAL COST of all nutrapplied to this field? (Include operator well as the costs for sulfur and micronutr of material can be separated from applic materials ONLY; otherwise, include both Include materials applied to this field if it gypsum, purchased manure and purchased	r, landlord, and contractor cos ients. [If custom applied and ation costs, include the cost on the material and application was fallow in 2014. Exclude	the cost of costs.] e lime,	DOLLARS & CENTS PER ACRE 0221	OR	TOTAL DOLLARS 0222 CODE 0218
_						
6.	Was gypsum applied to this field for t	he 2015 cotton crop?		YE	S = 1	
7.	Was a soil or plant tissue test perform or 2015 for the 2015 crop?	ed on this cotton field in 20	014			
	☐ YES [Continue.] ☐ NO	[Go to item 12.]				CODE
8.	Was a soil test for phosphorus perform or 2015 for the 2015 crop?			YES	S = 1	0225
	[If Item 8 = 1, ask]					POUNDS PER ACRE
	a. How many pounds of phosphorus (per	r acre) were recommended (b	y the pho	sphorus test)?		0226 CODE
9.	Was a soil test for nitrogen performed or 2015 for the 2015 crop?			YES	S = 1	0227
	[If Item 9 = 1, ask]					POUNDS PER ACRE
	a. How many pounds of nitrogen (per a	cre) were recommended (by	the nitroge	en test)?		0228
10.	Was a soil test for Soil Organic Matter pe	erformed on this cotton field a	t some po		S = 1	CODE
	[Item 10 = 1, ask]					PERCENT
	a. What was the percentage of Soil Orga	nic Matter on the field for the	most rece	ent test?		
						NUMBER
b.	How many times have you tested this fie	ld for Soil Organic Matter in th	he last ten	years?		
[If a	nswer to 10b is more than 1 ask]					CODE
C.	Based on these tests, is your Soil Organ	nic Matter content:	1 Increasing 2 Decreasir 3 Staying ro	-		

11.	. W	as a plant tissue test or leaf analysis for nutrient deficiency po eld in 2014 or 2015 for the 2015 crop?	erformed on this YES = 1	0229
			DOLLARS & CENTS PER ACRE OR	TOTAL DOLLARS
12.		w much was spent for these soil and plant tissue tests this field? (<i>Include</i> operator, landlord, and contractor costs.)		0231
a.	If te	ests were done at no cost, explain 2 Soil/plant tissue test prov by dealer, crop consultant cost fertilizer costs reported in 3 Some other reason	t, or extension service. s were included in the total	CODE 0232
		I you receive a payment from the Conservation Stewardship Progratissue test for Nitrogen application?	am for performing a stalk YES = 1	
[EN	UM	ERATOR ACTION: Refer to the Fertilizer Table, column 2. If nitro complete item 13. If NO nitrogen applied, go to		
13.	Wa	s the amount of nitrogen you decided to apply to this field bas	sed on	CODE
				0233
	a.	Results of a soil or plant tissue test?	YES = 1	
	b.	Crop consultant recommendation?	YES = 1	0234
	C.	Fertilizer dealer recommendation?		0235
	٨	Extension Service recommendation?		0236
	d.	Extension service recommendations	YES = 1	0237
	e.	Cost of nitrogen and/or expected commodity price?	YES = 1	
	f.	Contractor recommendation?	YES = 1	0238
	g.	Routine practice (operator's own determination based on past experience, yield goal, etc.)?		0239
		expenses, yield gods, etc.,		CODE
				0242
14.	ls I	ime ever applied to this field?	YES = 1	
[If n	o lir	me applied, go to item 15; else continue.]		YEARS
	_	On average how many years are there between applications of li	me to this field?	0243
	a.	On average, how many years are there between applications of li	me 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
	^	Was lime applied to this field in 2014 or 2015 for the 2015 area?	VEO. 4	0240
	C.	Was lime applied to this field in 2014 or 2015 for the 2015 crop? [If field is rented (Section B, item 2 = 2, 3, 4, or 5), ask]	YES = 1	DEDOCALE
	d.			PERCENT 0245
		Considering the last time it was applied, what percent of the total and its application was paid by the landlord(s)?		0210

		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

		(i)	[If item 15i = 2, ask]		1,				DOLLARS & CENTS		TOTAL DOLLARS
			What was the total cost of (<i>Include</i> operator, landlor payment made for transport	d, and c	ontractor costs.	Inclu	de any	eld?	0284		0285
											CODE
		<i>,</i> ,,,	D			•					0286
		(ii)	Did you hire someone to	custom a	apply the manure	?			Y	ES = 1	
			(a) [If YES, ask]	a4 ma;al 4	a hawa maanuna a		m ampliad t		DOLLARS & CENTS	or	TOTAL DOLLARS
			What was the total co this field? [Do not rep with the purchased m	ort cust	om application c	ost if	it was inclu	uded	0287		0288
										=	CODE
	j.		s any manure that was ap lication?					-		ES = 1	0261
	k.		the application rate of cor						YES		0262
		(i)	[If YES, ask]							_	PERCENT
			By what percent did you re application rate on this field								0263
										_	CODE
	I.		you adjust the cotton harve ication of manure?						YES		0280
											CODE
16	St	ate, (ne manure APPLICATION or local restrictions? tem 15 is YES, ask]							S = 1	0264
		-	at basis was used to deter	mine the	ese manure appl	icatio	n rate resti	riction	S		CODE
		(i)	Nitrogen requirement of the	ne crop?					YE	S = 1	0265
		(ii)	Phosphorus requirement	of the cr	op?				YE	S = 1	0266
17	Wa	s co	npost applied to this fiel	d for the	e 2015 cotton c	ron?				i	CODE
••			- [Enter code 1 and contin			•	18]				0267
										ĺ	ACRES
	a.	How	many acres in this field w	as the co	ompost applied?						0268
				I		1					
	h	\^/-	two the amount of accord	oot	1 Tons		CODE]	UNITS PER ACRE	OR	TOTAL UNITS
	b.		It was the amount of compied to this field?		2 Cubic Yards		0269	AND	0270 · <u> </u>		0271

				[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	chices 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?			

19

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	EDIT TABLE	
1.	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 PRODUCT NAME	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?	Was this part of a tank mix? [If tank mix, enter line number of first product in mix.]	When was this applied? 1 BEFORE planting 3 AT planting 4 AFTER Planting 5 DEFOLIATION prior to harvest	How much was applied per acre per application?	What was the total amount applied per application in this field?	[Enter unit code.] 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Ounces 28 Dry Ounces 30 Grams
NAME	01	61		63	64	65	73	74
	02	61		63	64	65	73	74
	03	61		63	64	65	73	74
	04	61		63	64	65	73	74
	05	61		63	64	65	73	74
	06	61		63	64	65	73	74
	07	61		63	64	65	73	74
	08	61		63	64	65	73	74
	09	61		63	64	65	73	74
	10	61		63	64	65 	73	74
	11	61		63	64	65 - <u> </u>	73	74
	12	61		63	64	65 - <u> </u>	73	74
	13	61		63	64	65 	73	74
	14	61		63	64			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.]
	<u> </u>			

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 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.	Vе	re any chemicals, biocontrols,	, or	pesticides applied by cust	om applicat	ors?		
[YES – [Continue]		NO – [Go to item 4]				OFFICE USE
ć	Э.	Are you able to report the cost of application separately?	of ch	nemical, biocontrol, and pest	ticide product	ts and custom		0324
		☐ YES – [Continue]		NO – [Go to item 4]				
						DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
	_	Freeholden den sant af den ale and					1 г	
I	Ο.	Excluding the cost of the chemic how much was spent for custom (<i>Include</i> operator, landlord, and	n ap	plication of such materials o	n this field?	0331 - <u> </u>		0332
		at was the TOTAL COST of all				DOLLARS & CENTS PER ACRE	ΩP	TOTAL DOLLARS
		oducts applied to this field? (Ir				0334	1 г	0335
ć	age	ents, growth regulators, and mate 15 fallow period. Exclude seed t	erial	s applied before planting an	d during			0333
		,		,		DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
ć	Э.	How much was spent for herbic operator, landlord, and contract	cide for c	products applied to this field	d? (<i>Include</i>			
						DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
l	٥.	How much was spent for insect (<i>Include</i> operator, landlord, and	ticio	de products applied to this fientractor costs.)	eld?			
		A. If represents the second transport to the		COST itemine and for and are		l solvens in Disconti		Destinide Table
NO		1: If respondent cannot report TOTA	4 <i>L</i> C	.OST, itemize cost for each prof	иисі ін ориона	ii columns in biocomi	OI OI	Pesticide l'able.
NOT	ΓE :	If custom applied and the costs for Otherwise, report both the materia			application co	sts, include the cost fo	or ma	aterials only.
		s the cotton that was grown in Il weevil eradication program (l				YES:		325
[If \	YES, ask]						
í	а.	What phase has the eradication	ord r	ogram reached	1 Active era	adication phase?	0	336
		in this field			2 Post-erad	lication phase?		
					D	OLLARS & CENTS PER ACRE C	DR _	OOLLARS & CENTS PER BALE
I	Ο.	For 2015, what was your assess participate in the BWEP?					0	338
		(Include operator, landlord and contrac	tor c	harges for 2015.)			_	
								CODE
(Э.	How did the level of secondary			1		0	339
		compare with the level prior to p (e.g. beet armyworm; budworms; plant i			2			
A	SK	FOR CALIFORNIA and TEXAS	10	NLY				CODE
7.		Was the cotton in this field coveradication or suppression pro				YE	ES = 1	0341
	[If YES, ask]				DOLLARS & CENTS PER ACRE	OR	DOLLARS & CENTS
	a	a. For the current crop year, wh	at w	vas the costs on this field to	participate	0342		0343
		in the PBEP?			•	·		·

(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.)

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.

	UMERATOR ACTION: Were PESTICIDE ap	opiications reported i	in Section D?]		
	☐ YES – [Continue]	☐ NO – [Go to]	item 6]		
					CODE
1	Was weather data used to assist in determ	mining either the n	eed or when to make		0800
•	pesticide applications?			YES = 1	
2.	Were any biological pesticides such as B				
	regulators, neem or other natural/biologic				0801
	manage pests in this field?			YES = 1	
_					
3.	Were pesticides with different mechanism primary purpose of keeping pests from be			VEC - 1	0802
	primary purpose or keeping pests from bo	econning resistant	to pesticides?	YES = 1	
[EN	IUMERATOR ACTION: Were HERBICIDE (p				
		oorted in Section D, i	•		
	☐ YES – [Continue]	□ NO – [Go to i	tem 6		
					0803
4.	Were herbicides applied to this cotton fie	eld BEFORE weeds	emerged?	YES = 1	
					0805
5.	Were herbicides applied to this cotton fie	eld AFTER weeds e	merged?	YES = 1	
		1 By deliberately go	ping to the field specifically for scouting	7	
6.	In 2015, how was this field		code 1 and go to item 7.]		CODE
	primarily scouted for insects,		neral observations while performing		0808
	weeds, diseases, and/or beneficial organisms?		Inter code 2 and go to item 9.]		
	organisms :		nd go to item 14.]		
		-		_	
					0809
7.	Was an established scouting process (sy				0009
	or were insect traps used in this field? [E:		ed as part of either BWEP or	VEC - 4	
	<i>PBWP</i> .]			YES = 1	
	a. Did you measure the damage by of budy	worm or hollworm in	factations on this field?	YES = 1	
	a. Did you measure the damage by of budy	WOITH OF DOILWOITH III	restations on this heig!	169 - 1	
					COUNT
	[If item 7a = 1, ask](i) If traps were use	ed, what was the av	erage insect count per acre?	□ N/A	
				LI IV/A	2005
			4. Damana in 4 la sulta	7	CODE
			1 Damage in 1 locule2 Damage in 2 locules		
	(ii) If boll damage scores were recorded	I (0 to 4) what was	3 Damage in 3 locules		
	the average boll damage score per acre		4 Damage in all locules 5 Not applicable		
			ere pro- ere er	_	

8.	Wa	s scouting for pests done in this field du	ıe to						
						0810			
	a.	a pest advisory warning?			YES = 1				
	L	a mant day along an top dalo				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				
				infestation level	scouting for [column 1]?				
				for [column 1]?—	tor [coil	mn 1] ?			
				4 14/ 11		tner or family member			
				1 Worse than normal2 Normal	2 An employee 3 Farm supply	or chemical dealer			
				3 Less than normal	4 Independent	crop consultant or			
9.	Wa	s this cotton field scouted for	YES = 1	CODE	commercial s	CODE			
			0812	0813	0814				
	a.	Weeds?							
			0815	0816	0817				
	b.	Insects or mites?							
			0818	0819	0820				
	C.	Diseases?							
[<i>If</i> :	SCOL	ted by crop consultant or commercial scout	ask item 10:						
Į ·		e go to item 11.]	,						
				DC	DLLARS & CENTS PER ACRE OR	TOTAL DOLLARS			
10.		w much was charged for the scouting se			21	0822			
	[In	clude operator, landlord and contractor cos	<i>t</i> .]		· <u> </u>				
						OFFICE USE			
						0333			
	a.	If scouting performed at no cost, explain:_							
						CODE			
11.		re written or electronic records kept for eds, insects or diseases?				0823			
	we	eus, ilisects of diseases?			YES = '	I .			
40	12. Were scouting data compared to published information on infestation								
12.		re scouting data compared to published esholds to determine when to take meas			d? YES = :				
						· [
13	Dic	I you use field mapping of previous wee	d problems to	o assist vou in maki	na	0825			
		ed management decisions?				ı			

14. 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?							
	(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	0847			
	h.	Plan planting locations to avoid cross infestation of pests?	YES = 1	0849			
	i.	Adjust planting or harvesting dates?	YES = 1	0043			
	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?		0851			
	I.	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?	YES = 1	0855			
	0.	Maintain buffer strips or border rows to isolate organic cotton from non-organic crops of 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			
4.0				0858			
16.		re floral lures, attractants, repellants, pheromone traps or other biological pest ntrols used on this field?	YES = 1				
	a.	[If item 15 or item 16 is YES, ask]					
		What were the TOTAL materials and application costs for all biological pest controls for this field? DOLLARS 8 PER AC		TOTAL DOLLARS			
		Include operator, landlord, and contractor costs. Include cost for beneficial organisms (insects, nematodes, and fungi). Exclude biological pesticides previously reported		0860			
		<u></u>		CODE			
				0863			
17	Wa	s a trap crop (excluding fallow) grown to help manage insects in this field?	YFS = 1	0000			
		a trap trap (oncomenty famon) grown to holy manage measure in the hold in the					
				0864			
18.	Wa	s this field left in fallow in 2014 to help manage insects on this field?	YES = 1				

19.	dra	re water management practices su linage, or treatment of retention wa toxin-producing fungi and bacteria	ter used on this	s field to manag	ge pests	YES		0861
20	Di	d you cultivate this field for weed o	ontrol?			YE	S = 1	
	a.	[If yes, ask]						NUMBER
		How many times?						
								CODE
21.		l pests (weeds, insects, pathogens, a spite of your pest control efforts?.						0827
If y	es, a	ask]					<u></u>	
	a.	How much yield loss do you think was caused by all pests on this field in anits of the management.	1 BUSHELS	CODE	<u> </u>	UNITS PER ACRE	1	TOTAL UNITS
		field in spite of the management practices you used to reduce those losses?	2 TONS		AND		OR	
								NUMBER OF YEARS
22.		ou used Bt seeds on this field in 20 ve planted Bt seeds. [Note: A produ			nsecutive 6 and 201			
		eventional cotton in 2014, has used B				J, Dul		
							Г	YEAR
	(i)	[If 22a is greater than 1, ask] single mode of action to a Bt see indicate the year that this change	ed with multiple (pyramided) mod	les of actio	on,	I/A	
23.		ve you ever planted any glyphosato g. Roundup Ready corn or soybear				YES =	= 1	
	[If i	tem 23 = YES, continue. If item 23 =	NO, go to item 2	26.]			_	YEAR
	a.	What year did you first plant any GR	crop on this field	d?				
								CODE
24.		ve you noticed a decline in the effentrolling weeds in this field?					S = 1	
	[If it	tem 23 = YES, continue. If item 23 =	NO, go to item 2	26.]			_	YEAR
	a.	What was the first year you noticed a controlling weeds on this field?						
25.		er noticing the decline in the effect s field, did you	iveness of glyp	hosate in conti	rolling wee	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 resistance develops in weeds on this neid:									
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				

F

1.	Including custom operations, I need to list field work by machines on this field for the 2015 cotton crop. P	performed lease	CHECK LIST
	begin with the first field operation after harvest of previous including operations for a cover crop established since the harvested [if fallow during 2014, list operations starting with fall 2013];	1 '	Include all field work using machines for Land Forming/Levee Building Tillage
	 list the operations in order through harvest and hauling of to storage or first point of sale; and maintain the order of tandem hook-ups. 	this 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	8 C	DR 9	10	11
L N E	% EQDEZOE	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
08	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

0400

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.	b.	C.			
	scouting for weeds, insects and diseases?	irrigating?	performing other work by hand?			
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 (Exclude 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

	1	0	
_	- 1	u	

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?	and c how i for this f	Including rator, landlord, ontractor costs, much was spent [column 1] on ield for the 2015 otton crop?
✓	← [Check box for each service performed; refer to item 1 if necessary.]	DOL	LARS & CENTS PER ACRE
	a. Custom land preparation and/or shaping	1122	
_			· <u> </u>
Ш	b. custom cultivating?	1123	· <u> </u>
	c. Custom planting and/or reseeding	_	
	d. Custom han resting	1124	
Ш	d. Custom harvesting	1126	· <u> </u>
П	Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre	5	
	f. Custom hauling from field to gin?	1127	<u> </u>
	(Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre)		
	[If custom harvesting, module building, and hauling from field to gin cannot be separated, ask] g. Custom harvesting, module building, and hauling from field to gin.	1128	· <u> </u>
8	[Note: Do not report cotton ginning costs. If harvesting, module building, and/or hauling costs cannot be separated from nonresponse code (-1) for those costs that cannot be separated.] Did you hire any technical or consultant services to make recommendations (such as for nutrient, pest control, irrigation, or precision farming) for this field? YES – [Continue] NO – [Go to item 11]	n ginning (costs, report the
	Which of the following services did you obtain?	,	CODE
	a. Nutrient recommendations/management service?	YES = 1	1129
	b. Soil or tissue sample collection?	YES = 1	1130
	c. Pest control recommendations/management service?	YES = 1	1131
	d. Pest scouting? (Exclude any activity for the BWEP or PBWP)	YES = 1	1132
	e. Irrigation management service (i.e. irrigation scheduling)?	YES = 1	1133
	f. Yield map or remote sensing map development/interpretation?	YES = 1	1134
	g. Other custom or technical service? [Specify:]	YES = 1	1135

9	If YES to any of these services, what was the cost for all c services? (Include operator, landlord, and contractor costs. soil/tissue tests or scouting cost reported earlier. Do not report	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	Jul 1
11.	Please report how your farm data will be stored and acces	ssed. (⊏nter code	ғ т тоған иласарр	<i>ny</i> .]
	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

	[lf i	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 on collected from [Enter code "1" for all that apply.]	data	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.	Dic	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	

-33-

		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].....

	\downarrow		UNIT	SYSTEM 1	SYSTEM 2
a.	What type(s) of irrigation system(s) was this field? [Show System Type Codes is Enter System Type Code for up to two sfield acres.].	SYSTEM TYPE CODE	1161	1175	
	What was the total available of water		INCHES PER ACRE OR	1162	1176
D.	What was the total quantity of water applithe entire growing season? (<i>Include</i> AL farm and off-farm sources.)	L water used from both on-	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 the apply water to this field during the control of th		TOTAL HOURS	1164	1178
	(ii) How many gallons per minute were a	applied?	GALLONS PER MINUTE	1165	1179
c.	What percent of the water used to irrigate system came from surface water sources		PERCENT	1166	1180
d.	What was the number of times this field vector growing season using this system 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 SYS) What was the system operating pressure		POUNDS PER SQUARE INCH	1170	1184
h.	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), a What was the average flow rate?	GALLONS PER MINUTE	1173	1187	
k.	How many other acres on this operation field's irrigation system during the 2015 (this field.)	growing season? (Exclude	ACRES	1174	1188

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

_

-

CODE

4.	and	s any water purchased to irrigate this field? (<i>Include</i> operator, landlord, and contractor's shad purchases from all sources.) YES – [Enter code 1 and continue.] NO – [Go to item 5.]		1191		
		DOLLARS & CENTS	0.0	TOTAL DOLLARS		
	a.	What was the total cost for the water purchased for this field during the 2015 growing season? (<i>Include operator, landlord, and contractor costs and ditch maintenance costs for this field.</i>)	OK	1194		
				TOTAL DOLLARS		
5.	-	SIPHON TUBES were used (item 2a = 10 or 11), ask] nat 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		
	Wh	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 C	GATED PIPE system was used (item 2a = 15 or 16), ask]		INCHES		
	а	What was the average diameter of gated pipe used to irrigate this field?		1203		
	a.	what was the average diameter of gated pipe used to imgate this held:				
				FEET 1204		
	b.	What was the total length of gated pipe used?		1204		
0	۱۸/۵	we well a used to supply invigation water for this field?		CODE		
ο.	Were wells used to supply irrigation water for this field? ☐ YES – [Enter code 1 and continue] ☐ NO – [Go to item 9]					
	Ш	NUMBER				
				1206		
	a.	How many wells were used to irrigate this field?				
				INCHES		
	b.	What was the average diameter of the outer well casing?		1207		
		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 decli in the water level caused by pumping during the irrigation season.]		1208		
	d.	Were other fields irrigated using water pumped from wells that supplied water to the selected field?		CODE		
		☐ 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 fi	eld.)			
		YES – [Continue]	,			
				INCHES		
	a.	What was the average diameter (<i>in inches</i>) of the most common type of this additional pipe used?		1212		
				FEET		
	h	How many fact of this additional pine were used to being water to this field?		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 locate the selected field of cotton on this map. 					COI		OFFICE USE COUNTY FIPS CODE			
2.	What county i	is the selected co	otton field in?								0010
	Field descript	tion									
FO	R STATES WIT	TH GPS UNITS OI	NLY		LAT	TITUDE		г		LON	GITUDE
	Field location	1	N	0054	54 	 	s	w	0055		
3.	[ENUMERATO		rk map to indicate w sure the "X" marked		e the selec	ted cotto	n field is		ated.	~ ~	<i></i>
4.		additional inform	nation to complete I call you then to s	this	study. W	Ve will co	ontact y	ou i	in February	у	
5.			ts of this survey o								CODE
	www.nass.us	da.gov/results/.	Would you rather	have	e a brief s	ummary			YE	S = 1	9990
	-										нн мм
6.	ENDING TIME	≣ [MILITARY]									0005
RE	CORDS USE										
7.		nt use farm/ranch	records to report	-1							CODE
١.	- ,		•	-							0011
	-	-									0012
	-	-									0013
	c. [majority o	f this expense da	nta?]						YE	S = 1	•
									FERTILIZ	7FR	NUMBER 0041
	JPPLEMENTS U								APPLICAT	IONS	
8.	Record the tot used to comple	tal number of each ete this interview.	h type of supplemei 	nt 					PESTICI APPLICAT		0042
									FIELD OPERATION		0043
				(9910		991	11			
Re	eported by:			-	<u> </u>		15 Te	leph	one: (_)	
	R. Unit	SSO 1	0	ptiona				Eva	al.		Change
992		9907	9906		9916		9900			9985	
	Respo	onse	Respond	dent			N	/lode			Enum.
2-R 3-In	Comp	9901		9902		2-Tel 3-Face-to)-Face	99	903		9998