AGRICULTURAL RESOURCE MANAGEMENT SURVEY

OMB No. 0535-0218 Approval Expires: 07/31/2018 Project Code: 906 SMetaKey: 2604 Phase II



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PHONE NUMBER

STATE ZIP

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	COTTON PR	ODUCTION PRACTIC	ES AND COS	TS REPORT	FOR 20'	<u>15</u>
VERSION		ID	TRACT	SUBTRACT	C-TYPE	1
11			01		106	
	,		•	•	•	
		CONTACT	T RECORD			
DATE	TIME		NO	TES		
INTRODUC		perator. Rephrase in your own	words 1			
According to the collection of infor 0535-0218. The for reviewing instance collection of information of information of information.	Paperwork Reduction mation unless it disn time required to communications, searching emation. Ou to refer to your far H H M	tices and costs used to produce will be used for statistical purple A, Public Law 107-347 and deform to anyone other than eme, or both if he or she willfully deform to anyone other than eme, or both if he or she willfully deformed as a valid OMB control number plete this information collection existing data sources, gathering may records during the interview.	not conduct or spo er The valid OMF n is estimated to av g and maintaining t	nsor, and a perso	on is not requ for this inforn s per respon and completi	uired to respond to, a
BEGINNING [MILIT	I IIVIL					
☐ [Name, add	dress and partners	verified and updated if nece	essary]			
POID			POID			
PARTNER NAME			PARTNER NAME			
ADDRESS			ADDRESS			
CITY	STATE Z	ZIP PHONE NUMBER	CITY	STATE	ZIP	PHONE NUMBER
POID			POID			
PARTNER NAME			PARTNER NAME			

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Α	COTTON FIELD SELECTION	Α
		TOTAL PLANTED ACRES
		0050
1.	How many acres of cotton did this operation plant for the 2015 crop year?	· · · · · · · · · · · · · · · · · · ·
	[If no acres were planted, review Screening Survey Information Form, make notes, then go to	item 4 on back page.]
	[If skip row cotton was planted, exclude the acreage in the skips.]	
2.	I will follow a simple procedure to make a random selection from the cotton fields plan for the 2015 crop.	ted
		TOTAL NUMBER OF FIELDS PLANTED
	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, the field has been selected. [If there are more than 18 fields, make sure item 2 is TOTAL fields 18 fields closest to the operator's permanent residence. If respondent is unable to identify or the Field Selection Grid Supplement.] FIELD NAME, NUMBER OR DESCRIPTION FIELD NAME, NUMBER OR DESCRIPTION	planted, and list only the describe the fields, use
1	10	SK BEGOKII TION
2	11	
<u>-</u> 3	12	
4	13	
5	14	
6	15	
7	16	
8		

	'Apply Random Operation Label'	
		SELECTED FIELD NUMBER
4.	[ENUMERATOR ACTION: Circle the pair of numbers on the above label associated with the last numbered field in item 3. Select the field according to the number you circled on the label, and record the selected number. If only one field, enter 1.]	0021
5.	The field selected is	
6.	For the randomly selected field above, please provide the Farm Service Agency (FSA):	
	a. Farm Number	
	b. Tract Number	
	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? [If skip-row cotton was planted, exclude acreage in the skips.]	1301
	Collon was planted, exclude acreage in the skips.]	CODE
	a. Are the acres in this field CERTIFIED ORGANIC ?YES=1	1300
	[If YES, skip 1b and ask item 2]	
		1399
	b. Was this field transitioning into organic cotton production in 2015? YES=1	
		CODE
2.	Were the acres in this field 2 rented for CASH with the payment being a fixed cash amount?	1302
	5 rented for some combination of CASH and SHARE of the crop?6 used RENT FREE?	
	[If field is CASH RENTED (item 2 = 2, 3 or 5), ask item 3, else go to item 4.]	DOLLARS & CENTS PER ACRE
	1	1303
3.	What was the cash rent paid per acre for this 2015 COTTON field?	·
	[If field is SHARE RENTED (item 2 = 4 or 5), ask]	PERCENT
	[1304
4.	What was the landlord's share of the crop from this field?	
	[If field is RENTED (item 2 = 2, 3, 4,or 5), ask]	
5.	What was the total cost for all inputs provided by any landlord DOLLARS & CENTS	
	such as seed fertilizer chemicals technical services custom operations and	TOTAL DOLLARS
	irrigation. Exclude real estate tax expenses and lime costs paid by the landowner.)	1306
6.	What was the total cost for all inputs provided by any contractor DOLLARS & CENTS	
	for the 2015 crop on the selected field? (Include the costs for all inputs, PER ACRE OR	TOTAL DOLLARS
	such as seed, fertilizer, chemicals, technical services, custom operations, and irrigation.)	1310
		VEAD
		YEAR
7.	What year did you (the operator listed on the label) start operating this field?	1312
	The second state of the second state of the second	MM DD YY
		1308
8.	On what date was this field planted?	
		POUNDS PER ACRE
		3316
	a. What was your yield goal for cotton lint at planting for this field? (<i>Exclude</i> pounds of seed cotton.)	
		CODE
	1 Upland	3317
9.	What type of cotton was planted on this field? 2 Pima-extra long stable or ELS	

		- 5 -					
10.	(<i>Inc</i> treat	hat was the source and cost of lude operator, landlord, and contractor costs. Include cost of seed timent and technology fee. Exclude any Bt seed payment received for icipating in the Pink Bollworm program.)	DOLLARS & CE PER UNIT	ENTS	UNIT CODE 1=POUNDS 22=ACRE 23=APPROX 50 LB. 40 =250,000 SEED E		PERCENT of SEED PLANTED
	a.	GMO/GE purchased seed?	1214		1215		1216
	b.	Non-GMO/GE purchased seed?	1217		1218		1219
		Homegrown seed?					1318
	C.	Tiomegrown seed ?					100%
		[If homegrown, ask]					CENTS PER POUND
		(i) What was the cost for cleaning and treating this seed	d?				3321
			_		UNITS	1 = F 23 = 5 25 = 5 38 = 5 40 = 2	UNIT CODES or Seeding Rate POUNDS/ACRE 50 LB BAGS/ACRE BEEDS/ACRE BEEDS/FOOT 250,000 SEED BAGS/ACRE
11.		at was the seeding rate per acre the first time s field was planted?		1313		3314	
		2	Drilled? Planted in Conver		Rows?		CODE 1316
	a.	What method of seeding did you use on this field? 3	Broadcast on this	field?		[
[lf (drille	ed or planted (item 11 = 1 or 2), ask]				ſ	INCHES
	b.	What was the average cotton row width?					
12	Did	this field have skip-row cotton?			VE	S = 1	1323
		kip-row, go to item 13]				ןי-י[
Į	10 3	KIP-10W, go to item 10]			ROWS OF COTTON	ву	ROWS OF SKIP
	a.	What was the common skip pattern?			1324		1325
							INCHES
	b.	What was the average width of the skip?					1326
40	11		2				ACRES
13.	(Ac	w many acres in this field had to be replanted to cotto res replanted = Number of acres X the number of times re	on <i>:</i> eplanted.)				
							CODE 1327
14	. W	as a hybrid cotton seed planted in this field?			YE	S = 1	1321

	2015 Yes = 1	2014 Yes = 1 N/A no cotton in field = 4
15. Did you plant GMO/GE seeds for the 2015 or 2014 crop years?	2300	2301
[If item 15 = 1 for either year, continue. Otherwise, go to item 17.] 16. Did the cotton planted on this field have any of the following GMO/GE traits in		
2015 or 2014? [Leave the second column blank if field was not planted with cotton in 2014.]	2015 YES = 1	2014 YES = 1
a. Lepidopteran Resistance (Single Mode of Action)	2302	2303
b. Lepidopteran Resistance (Pyramided Modes of Action)	2304	2305
c. Glyphosate Tolerance	2306	2307
d. 2, 4-D Tolerance	2308	2309
e. Dicamba Tolerance	2310	2311
f. Glufosinate Tolerance	2312	2313
g. Other HT Trait	2314	2315
	2015 YES = 1	2014 YES = 1 N/A No cotton in field = 4
17. Was a non-GMO/GE seed planted in	2316	2317
[If item 17 = 1 for either year, then continue. Otherwise, go to item 18]		
	2015 YES = 1	2014 YES = 1 N/A No cotton in field = 4
a. Was this non-GMO/GE seed herbicide tolerant in	2318	2319
18. For the 2015 cotton crop, did you purchase pre-treated seed or have the seed treated after purchase with		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	2321
b. a nomational (e.g., Acceleran, Aviota, of Acres seed treatment):	123-1	
c. an insecticide (e.g., Poncho, Gaucho, Cruiser, Amparo seed treatment)?		2322

	use an "air delivery and/or vacuum planter sed with an insecticide seed treatment?		. YES = 1	
[If item 19 =	= 1, ask]		<u></u>	
a. Did	you use talc and/or graphite seed flow lubricant?	?	YES = 1	
	SEED TREATMENT PRODUCTS COI	DE LIST for item 20 – SEED TREA	TMENT	
100 Acceler 101 Acceler 102 Acceler 103 Acceler	ron I 105 Cruiser ron FI 106 Cruiser Dynasty	109 Aeris 1	12 Gaucho Grande 13 Genero 99 Other 3 Seed was not tre	ootod
103 Accele	OTTN 107 AVICIA	TTT Gaucilo		DDE
	ne appropriate product code from above (ent		2325 2326	
	= 1 continue, otherwise go to item 23] you choose the resistant seed variety used on the	nis field primarily to		
2 [ncrease yields through improved pest (weed or insect) control Decrease pesticide input costs? Save management time or labor or improve ease of manage For some other reason(s)? [Specify]		2327 	
	ercent of the field was used as refuge in orde on insect resistant management guidelines?		2328	
				DE
23. Has ha	rvest of this field been completed?		1328 . YES = 1	
	report the following information about the ac		and the yields from	
a. How	many ACRES in the cotton field were (or will be	e) harvested for lint?		·
	How many pounds of lint PER ACRE were harv harvested)?		2347	ER ACRE
			ACR	ES
b. Hov	v many ACRES in the cotton field were (will be)	abandoned?	1351	

	CROP CODE LIST for item 25 – 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			
		20	Potatoes	31	Sweet Potatoes		during this period		

25. 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		Was this a cover crop?	How did you manage this crop?	Was this field irrigated?	Was this field no-tilled or strip-tilled? 1/
				1 Plowed-in		
				2 Chiseled-in		
				3 Chemical-killed		
				4 Rolled 5 Grazed		
				6 Harvested		
				7 Disked		
SEASON AND YEAR	CROP NAME	CROP CODE	YES = 1	CODE	YES = 1	YES = 1
a. FALL of 2014?		1343	1470	1471	2344	1345
b. SPRING/SUMMER of 2014?		1369	1472	1473	2370	1371
c. FALL of 2013?		1372	1474	1475	2373	1374
d. SPRING/SUMMER of 2013?		1375	1476	1477	2376	1377
e. FALL of 2012?		1378	1478	1479	2379	1380
f. SPRING/SUMMER of 2012?		1381	1480	1481	2382	1383
g. FALL of 2011?		1366	1482	1483	2367	1368
h. SPRING/SUMMER of 2011?		1340	1484	1485	2341	1342

No-till means leaving oil 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.

[If a cover crop was planted in Spring/Summer/Fall 2014, ask—]

DOLLARS	8
CENTS	

		1468	
i.	What was the seed cost per acre for the cover crop?		

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

∠0. V	Which of the following co	onservation p	ractices or pia	iis are useu on this	neiu f	5
	ı	J				
CONS	SERVATION PRACTICES or PLANS	Was this practice or plan used in 2015	For 2011- 2015, how many years was this practice or plan used?	Technical or planning assistance? 1 USDA 2 Private technical service provider funded by USDA 3 Soil Conservation District or State Agency 4 Other Source 5 Self-funded (hired provider) 6 No technical assistance needed	 Conservation Reserve Program (CRP)? Conservation Stewardship Programs (CSP)? Other Federal, State, local program 	requirement? 2 A state or local regulatory requirement? 3 USDA conservation compliance provisions?
_	Onnanation (III)	YES = 1	NUMBER	CODE	CODE	CODE
a.	Conservation tillage [include no-till/direct seeding, mulch till, and ridge till]	706	716	726	736	746
b.	Cover crops [include grasses, legumes, forbs, or other herbaceous plants for seasonal cover and conservation]	707	717	727	737	747
C.	Structural practices to conserve soil? [include grass waterways, terraces, grade stabilization, contour buffer strips, etc.]	708	718	728	738	748
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].	709	719	729	739	749
e.	Conservation plan specifying practices to reduce soil erosion?	702	712	722	732	742
f.	Nutrient management plan specifying practices for fertilizer/manure application?	703	713	723	733	743
g.	Pest management plan to implement Integrated Pest Management (IPM) to control weeds, insects, or disease?	704	714	724	734	744
h.	Irrigation water management plan specifying irrigation practices?	705	715	725	735	745

27. 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?

		1	2	3	4
PROGRAM			How many practices or practice enhancements are included in the contract?	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?
			NUMBER	YES = 1	YES = 1
a.	Environmental Quality Incentive Program (EQIP)	2236	2237	2238	2239
b.	b. Conservation Security or Conservation Stewardship Programs (CSP)		2241	2242	2243
C.	Conservation Reserve Program (CRP)	2244	2245	2246	2247
d. Other Federal, State, Local or non- government source		2248	2249	2250	2251

[[]Include conservation program contracts that provide assistance for grass waterways, filter strips, riparian buffers, or similar practices on or adjoining this field.]

[In item 27 if you answered yes = 1 in column 1 or column 4 for any program continue, else go to item 30.]

28. In applying for the Conservation Program you listed in item 27, did you:

		YES = 1	How much time was spent on your behalf? [Include the number of hours spent with you plus the number of hours spent on your behalf.] HOURS	What was the cost of the consultation? DOLLARS & CENTS
a.	Hire a consultant to help prepare the application?	2252	2253	2254
b.	Receive assistance free of charge? [Include assistance received from USDA, and extension agent, an environmental organization, or a farm organization.].	2255	2256	

29. In applying for and participating in the conservation program you listed in item 27, please								
in	dicate 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.	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						

30. Did you apply for conservation funding (through any Federal, State, or local program) for

2357

iten	n 30 = 1, go to item 32.]									
31. If you did not apply for conservation program funding for this field in the past four years, what were your reasons?										
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	CODE			
a.	I was not aware of USDA or other conservation programs.	<u></u> 1	<u>2</u>	3	<u>4</u>	<u></u> 5	2358			
b.	I am not aware of environmental problems (on this field).	1	<u>2</u>	3	<u>4</u>	<u></u> 5	2359			
C.	Payments are not high enough.	<u></u> 1	<u>2</u>	3	□ 4	<u></u> 5	2360			
d.	Government standards make practices more expensive than the need to be to get the job done.	ey ☐1	<u></u> 2	<u></u> 3	<u></u> 4	□5	2361			
e.	My offer would not have been accepted because my farm is not eligible or my fields would not have ranked high enough.	e1	<u></u>	<u></u> 3	□ 4	□ 5	2362			
f.	The application process is too complicated and time consuming.	<u></u> 1	<u>2</u>	<u></u> 3	□ 4	<u></u> 5	2363			
g.	Documenting compliance would be too complicated and time consuming.	e	<u></u>	<u></u> 3	<u></u> 4	<u></u> 5	2364			
2. Has the Natural Resource Conservation Service (NRCS) classified any part of this field as "Highly Erodible"? (Cropland identified as highly erodible is subject to highly erodible land conservation (HELC) requirements. Producers who receive farm program payments are required to have (and apply) a written soil conservation plan.) (A "written plan" is a plan prepared in accordance with Federal, State, or district standards.)										
. Ha	ave you been notified by NRCS th	at this field co	ntains a we	tland?		YES = 1	1405			
. W	hat is the slope of this field?	1 Nearly level (0 2 Even, modera 3 Variable, mode 4 Even, steep gr 5 Variable, steep	te grade (3 – erate grade rade (over 10				CODE 2400			
	hat is the primary soil type of	1 Loam 2 Clay 3 Sandy					CODE 2401			

CODE

					2402
86. Did the land use practices for this field inclu	ide subsurface d	rainage?	Y	ES = 1	
f YES, ask]					YEAR
					2403
 a. What year was the subsurface drainage inst 	talled?				
					INCHES OF
			FEET PER	-	WATER REMOVED
			ECOND	OR	PER DAY
b. What is the capacity of your system?		2404			2405
b. What is the capacity of your system:					
c. Does this system include a mechanism for					2406
float mechanisms?			Y	ES = 1	
37. Which of the following resource concerns d	o you have on th	is field?			
		T			
		Have you received to sources to evaluate			
			at you received		
	CODE	1 USDA – NI 2 Cooperativ	RCS e Extension Ser	vioo	
RESOURCE CONCERNS	332	3 Other USD	A staff, including	Forest	
		4 Other (e.g. agency)	Soil and Water	Conserv	ation District, state
	YES = 1	Source 1	Source 2	,	Source 3
	2407	2417	2427	-	2437
a. Water-driven erosion	-		2721		
b. Wind-driven erosion	2408	2418	2428		2438
	2409	2419	2429		2439
c. Soil compaction					
d. Poor drainage	2410	2420	2430		2440
a	2411	2421	2431		2441
e. Low organic matter					
f. Water quality	2412	2422	2432		2442
1. Water quanty	2413	2423	2433		2443
g. Other concerns	2410	2423	2400		
h. No significant concerns	2414	2424	2434		2444
ii. No significant concerns	•				
38. Was the cotton in this field covered by Fede	ral Crop Insuran	ce in 2015?			CODE
The the colon in the held covered by I due	rai Grop illourail	30 III 2 0 I 0 I		Γ	1385
YES – [Enter code 1 and continue.] NO –	- [Enter code 3 and c	go to Section C.]			1000
				L	
I.	Fodorol CAT (basis	nataatranhia ina			
$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$	Stacked Income Pro	catastrophic insurance) tection Plan (STAX) on			
3 4	Yield protection Yield plus STAX	,			CODE
a. Which coverage did you obtain? 5	Yield plus SCO (supp	plemental coverage op	tion)		3386
6 7	Revenue protection Revenue plus STAX				
8	Revenue plus SCO				
9	Other Federal Crop i	nsurance			

[If item 38a = 3, ask]						
b.	What was your yield level of your basic buy-up coverage for this field?	1387				
C.	What was your price level of your buy-up coverage for this field?	1388				
[If item 38a = 6, 7, or 8, ask]						
d	What was the level of basic revenue coverage you obtained for this field?	1389				

EDIT TABLE

CODE

APPLICATION CODES for COLUMN 6

5 In irrigation water

6 Chisel/Injected or knifed in

7 Banded in or over row

8 Foliar or directed spray

1 Broadcast, ground without incorporation

2 Broadcast, ground with incorporation

3 Broadcast, by aircraft

4 In seed furrow

NUTRIENT or FERTILIZER APPLICATIONS---SELECTED FIELD

1.	Were commercial nutrients or fertilizers applied to this field for the 2015 cotton crop? (Include those from operators, landlords, and contractors.)							0200
	[If COMMERCIAL nutrient or fe	ertili	zer applied, continue; else go t	o item 6.]				NUMBER
2.	How many commercial nutrient or fertilizer applications were made to this field for the 2015 crop? (Include applications made by airplanes and custom applicators.)							0203
3. I	Now I need to record informa							
¦ 🗸	INCLUDE	~	EXCLUDE					
	Custom applied nutrients and fertilizers		Micronutrients					
	Nutrients or fertilizers applied		Unprocessed manure					
i I	in the fall of 2014 and those applied earlier if this field was fallow in 2014.		Nutrients or fertilizers applied to previous crops in this field					
	Commercially prepared manure or compost		Lime and Gypsum/landplaster	Office U Lines in T		TABLE 001	0299	

		:	2		3	4	5	6	7
I N E	nounds of plant putrients applied per sera!		was applied per acre? percentage analysis or actual [Leave this column blank if actual pounds of nutrients or Fertilizers n Respondent Booklet.] was applied per acre? [Leave this column blank if actual pounds of nutrients were reported.] 1 Pounds 12 Gallons 19 Pounds of actual		When was this applied? 1 In the fall before seeding 2 In the spring before seeding before seeding 3 At seeding		How many acres were treated in this application?		
	N Nitrogen	P ₂ O ₅ Phosphate	K₂O Potash	S Sulfur		nutrients	4 After seeding		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	31	32	33	34	36	37	38	39	40

TABLE	LINE
000	00

4.	Were any nutrients or fertilizers applied	l by custom applicators?			
	☐ YES - [Continue]	NO - [Go to item 5]			
	a. Are you able to report the cost of nutri	ent or fertilizer materials and		OF	FICE USE
	custom application separately? YES - [Continue]] NO - [Go to item 5]		0215	
	-				
	 Excluding the cost of the nutrient or fe was spent for custom application of nu 		DOLLARS & CENTS	OR TOTAL	L DOLL ARE
	(Include operator, landlord, and contractor micronutrients. Exclude custom appli		PER ACRE	0220	L DULLARS
	manure and purchased compost.) [If I	material and application costs can't			
_	be separated, exclude them here and	•	·		
5.	What was the TOTAL COST of all nutrie applied to this field? (Include operator, well as the costs for sulfur and micronutrie of material can be separated from applica materials ONLY; otherwise, include both	landlord, and contractor costs, as ents. [If custom applied and the costion costs, include the cost of the material and application costs.]	DOLLARS & CENTS PER ACRE	1	AL DOLLARS
	Include materials applied to this field if it ugypsum, purchased manure and purchased		0221	0222	
	9,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		<u> </u>	. L	
					CODE
_				0218	
6.	Was gypsum applied to this field for the	e 2015 cotton crop?	YE	S = 1	
7.	Was a soil or plant tissue test performe	ed on this cotton field in 2014 or 2	015 for the 2015 cr	p?	
	☐ YES [Continue.] ☐ NO [0	Go to item 13.]			
					CODE
8.	Was a soil test for phosphorus perform 2015 crop?			0225 S = 1	
	[If item 8 = 1, ask]				OUNDS R ACRE
	a. How many pounds of phosphorus (per	r acre) were recommended (by the p	phosphorus test)?	0226	
		, , , , , , , , , , , , , , , , , , , ,	. ,		CODE
9.	Was a soil test for nitrogen performed		5 for the 2015	0227	
	crop?		YES	S = 1	OUNDS
	[If item 9 = 1, ask]			-	R ACRE
	a. How many pounds of nitrogen (per ac.	re) were recommended (by the nitro	gen test)?	0228	
			- ,		CODE
10	. Was a soil test for Soil Organic Matter	performed on this COTTON field	at some point	3225	CODE
	in the last 10 years?		YES	: = 1	
	[If item 10 = 1, ask]			PI	ERCENT
	a. What was the percentage of Soil Orga	nic Matter on the field for the most i	ecent test?	3226	
	, 5				
				N 3227	UMBER
	b. How many times have you tested this	field for Soil Organic Matter in the la	st ten years?		
	[If item 10b is more than 1 ask]			_	CODE
		2 Deci	easing reasing	3228	
	 c Based on these tests is your Soil Org. 	anic Matter content: 3 Stay	ing roughly the same		

	as a plant tissue test or leaf analysis for 2014 or 2015 for the 2015 crop?			YES = 1	0229
			DOLLARS & CENT PER ACRE	Ĺ	TOTAL DOLLARS
	ow much was spent for these soil and plathis field? [Include landlord and contractor costs		0230		0231
a.	If tests were done at no cost explain		e test provided free of charge by nsultant, or extension service.		CODE
		total fertilizer co	e test costs were included in the osts reported in item 5.		
		3 Some other rea			3231
b.	Did you receive a payment from the Consa a stalk or leaf tissue test for Nitrogen appli			YES = 1	5251
[ENUM	ERATOR ACTION: Refer to the Fertilizer 7 complete item 13. If NO				
13. Wa	s the amount of nitrogen you decided to	apply to this field b	pased on		CODE
a.	Results of a soil or plant tissue test?			YES = 1	0233
u.	recounts of a control plant thouse test			120 - 1	0234
b.	Crop consultant recommendation?			YES = 1	
C.	Fertilizer dealer recommendation?			YES = 1	0235
0.	r crimes: godier recommendation			120 .	0236
d.	Extension Service recommendation?			YES = 1	
e.	Cost of nitrogen and/or expected commod	lity price?		YES = 1	0237
	, , , , , , , , , , , , , , , , , , ,				0238
f.	Contractor recommendation?			YES = 1	
g.	Routine practice (operator's own determine experience, yield goal, etc.)?			YES = 1	0239
					CODE
					0242
14. Is I	ime ever applied to this field?			YES = 1	
[If no I	ime applied, go to item 15; else continue	.]			YEARS
a.	On average, how many years are there be	etween applications o	f lime to this field?		0243
	, , ,				TONS PER ACRE
L	Have grown to be a filter a common and its discount	4l l+ 4i i4	an amplical to this field?		0244
b.	How many tons of lime were applied per a	acre the last time it wa	as applied to this field?		CODE
					0240
C.	Was lime applied to this field in 2014 or 2	•	?	YES = 1	
[If field	I is rented (Section B, item 2 = 2, 3, 4, or	5), ask]			PERCENT
d.	Considering the last time it was applied, who was paid by the landlord(s)?				0245

15.	Was non-commercial manure (from own farm, from a neighbor's farm, etc.) or other organic material (excluding compost) applied to this field for the 2015 cotton crop? (Exclude commercially prepared manure.)	CODE
	☐ YES - [Enter code 1 and continue] ☐ NO - [Go to item 17]	
		ACRES 0247
	a. How many acres in this field was manure applied to?	
	b. What was the amount of manure applied to this field?	E OR TOTAL UNITS 0250 MILES 0251
	c. What is the distance between the manure storage/production location and this field?	
	d. What was the capacity of the manure spreader (or other vehicle) used to haul manure to this field? e. Of the total manure applied to this field for the 2015 crop, what was the percent of manure applied (i) in the fall before planting? (ii) in the spring before planting? (iii) after planting?	TOTAL UNITS 0253 PERCENT 0254 + 0255 + 100%
	f. Was the manure Semi-dry or dry?	0257
	1 Broadcast or sprayed without incorporation? 2 Broadcast or sprayed with incorporation? 3 Injected/knifed in? 4 Sprayed using irrigation systems?	CODE 0258
	h. Was the major source of the manure from	CODE 0259

1 Produced on this operation?

		2 Purchased?				
i.	Was the manure	3 Obtained at no cost off this operation?				CODE
		4 Obtained with compensation? (Operator received payment for accepting the mar			01	260
		received payment for accepting the man	nure.)		02	100
					·· L	
[If it	em 15i = 2, ask]					
[,, ,,	cm 707 – 2, uon – 1		DOLLA	RS & CENTS		
				R ACRE	OR	TOTAL DOLLARS
j.	What was the total cost of the	ne purchased manure applied to this	0284			0285
,		ndlord, and contractor costs. Include				
	any payment made for trans	sportation costs.)		· <u> </u>		
						CODE
					(0286
	(i) Did you hire someone t	o custom apply the manure?		YE	S = 1	
If YE	ES, ask]				_	
	•		DOLLA	RS & CENTS		
				R ACRE	OR	TOTAL DOLLARS
		paid to have manure custom applied to	0287		,	0288
		t custom application cost if it was				
	included with the purch	ased manure cost.]		·	L	
					Г	CODE
k.		applied to this field tested for nutrient con			_)261
				YES	S = 1	
I.		commercial nitrogen fertilizer on this field		V=)262
	• •	llication?		YES	S = 1	
IT YE	ES, ask]				Г	PERCENT
	(i) By what percent did you	ı reduce the commercial nitrogen fertilize	er		0)263
	application rate on this	field?				
						CODE
					C)280
m		arvest date for this field due to the		V=	0 - 4	
	application of manure?			YES	S = 1	
					_	CODE
		ON RATES to this field influenced by F				0264
S	tate, or local restrictions?			YES	S = 1	
[If ite	em 16 is YES, ask]					
		ormino those manure annihilation rate	otriotions			CODE
a.	vviiai pasis was useu io det	ermine these manure application rate res	อนาบนบทร		Г	
	(i) Nitrogen requirement of	f the crop?		VE		0265
	(i) Nitrogen requirement or	i tile σιορ (YES	S = 1	0266
	(ii) Phosphorus requiremen	nt of the crop?		VE	S = 1	0266
	(ii) Filospilolus lequilelliel	it of the Gop!			J - I L	CODE
7. W	las compost applied to this	field for the 2015 cotton crop?			Г	CODE
. .	YES - [Enter code 1 and con	·				0267
	J . LO - LETTET COUE T ATTU COT					

				ACRES
				0268
a.	How many acres in this field was the	compost applied?		
		CODE	UNITS PER ACRE	OR TOTAL UNITS
b.	What was the amount of compost	1 Tons 0269	0270	0271
	applied to this field?	2 Cubic Yards AN	· <u> </u>	
				[Enter up to 3 source codes]
		1 Beef cattle?		FIRST
		2 Dairy cattle?		0281
		3 Hogs? 4 Sheep?		
C.	Were the major sources	5 Poultry?		SECOND
	of the compost from	6 Equine? 7 Biosolids (<i>municipal sludge</i>)?		0282
		8 Food waste?	_	THIRD
		9 Crop? [Specify:	¹ ,	0283
		10 Other? [Specify:		
		1 Produced on this operation?		
d	Was the compact	2 Purchased?3 Obtained at no cost off this operation		CODE
d.	Was the compost	4 Obtained with compensation? (Open		0272
		received payment for accepting the		
[If item	17d = 2, ask]			<u> </u>
	,		DOLLARS & CENTS	
			DOLLARS & CENTS PER ACRE O	R TOTAL DOLLARS
	(i) What was the total cost of the pur		0273	0274
		andlord, and contractor costs and tion costs.)		
	any payment made for transporta	tion costs.)	· <u> </u>	
				CODE
	(ii) Did you hire someone to custom	annly the compost?	YES	0275
rif VEC		apply the compost:		- 1
[# 7ES	S, ask]			
			DOLLARS & CENTS PER ACRE	OR TOTAL DOLLARS
	(a) What was the total cost paid t	o have compost custom applied to	0276	0277
	this field? (Include operator,	landlord, and contractor costs.) [Do		
	compost cost.]	cost if it was included with the		
[If item	17d = 1, ask]			MILES
				0291
	(iii) What is the distance between the	compost storage/production location	and this field?	

18.	. Compared to the last time you planted cotton, did you make any of the following changes to your cropping
	practices with the intent of reducing commercial fertilizer use?

			CODE		
	a.	Change the type of commercial fertilizer products applied on this field [e.g. less anhydrous ammonia and more urea]YES=1	1226		
	b.	Manage fertilizer use more closely, with such practices as soil testing, split applications, variable rate applications, or soil incorporation on this field?	1228		
	C.	Change your crop rotation [e.g. plant cotton on this field rather than usual crop rotation]? YES=1	1227		
	d.	Reduce the application of commercial nitrogen fertilizer? YES=1	1224		
[If YES, ask]					
		(i) By what percent did you reduce the amount of commercial nitrogen fertilizer applied for 2015?	1225		

NOTES

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

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

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

Include biological and botanical pesticides.

Exclude nutrients or fertilizers reported earlier and seed treatments.

OFFICE USE LINES IN TABLE 0399 001

		2	3	4	5	6 O	PR 7	8
CHEMICAL PRODUCT NAME	LINE	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
	01	61		63	64	65	73	74
	02	61		63	64	65 . <u> </u>	73	74
	03	61		63	64	65	73	74
	04	61		63	64	65 · <u> </u>	73	74
	05	61		63	64	65 	73	74
	06	61		63	64	65	73	74
	07	61		63	64	65 . <u> </u>	73	74
	08	61		63	64	65 . <u> </u>	73	74
	09	61		63	64	65 . <u> </u>	73	74
	10	61		63	64	65	73	74
	11	61		63	64	65	73	74
	12	61		63	64	65	73	74
	13	61		63	64	65 . <u> </u>	73	74
	14	61		63	64	65	73	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.]		

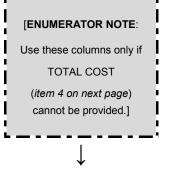
APPLICATIONS CODES for column 9

- 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

9 Spot treatments

5 In irrigation water



	9 10		11	12
L I N E	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?	Were these applications made by 1 Operator, partner or family member? 2 Custom applicator? 3 Employee/Other?
01	76	77	79	80
02	76	77	79	80
03	76	77	79	80
04	76	77	79	80
05	76	77	79	80
06	76	77	79	80
07	76	77	79	80
08	76	77	79	80
09	76	77	79	80
10	76	77	79	80
11	76	77	79	80
12	76	77	79	80
13	76	77	79	80
14	76	· <u> </u>	79	80

OPT	IONAL ITEM 4						
What was the cost per unit of the product?							
	UNIT CODE						
DOLLARS & CENTS PER UNIT	1 Pounds 15 Liquid Ounces 12 Gallons 28 Dry Ounces 13 Quarts 30 Grams 14 Pints						
81	82						
81	82						
	82						
<u></u>	82						
· <u> </u>	82						
81	82						
81	82						
81 - <u> </u>	82						
81 	82						
. <u> </u>	82						
81	82						
81	82						
81	82						
	82 I						

3.	We	ere any chemicals, biocontrols	, or pesticides applied b	y custom a	pplicate	ors?		
		YES – [Continue]	☐ NO – [Go to item 4]					
	a.	Are you able to report the cost application separately?	of chemical, biocontrol, a	nd pesticide p	products	s and custom		OFFICE USE
		☐ YES – [Continue]	☐ NO – [Go to item 4]					
						DOLLARS & CENT		TOTAL DOLLARS
	b.	Excluding the cost of the cheminow much was spent for custom (<i>Include</i> operator, landlord, and	m application of such mate	erials on this	field?	0331	_	0332
4.	pro	nat was the TOTAL COST of all oducts applied to this field? (/	nclude operator, landlord	l, and contrac		DOLLARS & CENT		TOTAL DOLLARS
	age	sts, defoliants, herbicides, insect ents, growth regulators, and mat 14 fallow period. Exclude seed	erials applied before plan	ting and durii	ng	0334		0335
			, i		'	DOLLARS & CENT PER ACRE		TOTAL DOLLARS
	a.	How much was spent for herbic (<i>Include</i> operator, landlord, and				3034 • <u> </u>	_	3035
					_	DOLLARS & CENT PER ACRE		TOTAL DOLLARS
	b.	How much was spent for insec (<i>Include</i> operator, landlord, and				3036 •	_	3037
Pe NO	stici DTE	1: If respondent cannot report ide Table. 2: If custom applied and the coals only.		·				
		Otherwise, report both the ma	terial and application cos	ts in item 4.			. — — — .	<u></u>
5.		as the cotton that was grown i e boll weevil eradication progr				Y	/ES = 1	0325
ΓIf	YES	6, ask]						CODE
		What phase has the eradicatio in this field?		1 Active erac 2 Post-eradio				0036
					_	DOLLARS & CENT PER ACRE		DOLLARS & CENTS PER BALE
	b.	For 2015, what was your asses BWEP: (<i>Include</i> operator, lan				0337 . <u> </u>	_	0338
	the	How did the level of secondary e level prior to participating in the dworms; plant bugs; or aphids).	BWEP? (e.g. best army	worm;	1 Incre 2 Decre 3 No Cl			CODE 0339

ASK FOR CALIFORNIA AND TEXAS ONLY

				CODE
6.	Was the cotton in this field covered by an area-wide pink bollworm erad	ication		0341
	or suppression program (PBWP)?	YE	S = 1	
[If YE	S, ask]	DOLLARS & CENTS PER ACRE	OR	DOLLARS & CENTS PER BALE
a.	For the current crop year, what was the costs on this field to participate in the PBWP?	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.)

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.

ĽΝ	JMERATOR ACTION: Were PESTICIDE app.	•	•		
	☐ YES – [Continue]	□ NO – [Go to item	1 6]		
					CODE
1.	Was weather data used to assist in determine				0800
	pesticide applications?			YES = 1	
2	Ways any higherical postinides and as Dt	(Decillera the minarian air	\ :		
2.	Were any biological pesticides such as Bt (regulators, neem or other natural/biologica				0801
	manage pests in this field?			. YES = 1	
3.	Were pesticides with different mechanisms primary purpose of keeping pests from bed			VEO - 4	0802
	primary purpose of keeping pests from bed	coming resistant to p	Jesticiaes (YES = 1	
	IMERATOR ACTION: Wass HERRICIDE (s.		40000 40000)		
ĮΕΝ	UMERATOR ACTION: Were HERBICIDE (pe	esticide product codes rted in Section D, item			
	☐ YES – [Continue]	□ NO – [Go to item	•		
		☐ NO = [Go to item	oj		
					0803
4.	Were herbicides applied to this cotton field	BEFORE weeds em	eraed?	. YES = 1	0003
			g		
					0805
5.	Were herbicides applied to this cotton field	AFTER weeds eme	rged?	. YES = 1	
			o the field specifically for scou	ting	
6.	In 2015, how was this field	-	de 1 and go to item 7.]		CODE
	primarily scouted for insects, weeds, diseases, and/or beneficial		observations while performing rode 2 and go to item 9.]	1	0808
	organisms?	3 This field was not scou	•		
		[Enter code 3 and g	o to item 14.]		
7.	Was an established scouting process (syst				0809
	or were insect traps used in this field? [Ex PBWP.]	•	•		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			120 1	2450
	a. Did you measure the damage of budworm	or bollworm infestation	ons on this field?	YES = 1	
ΓIf	tem 7a = 1, ask]				COUNT
į	1, usik 1				2451
	b. If traps were used, what was the average i	nsect count per acre?)		
	-	-			
			1. Damaga in 1 locula		CODE
	(i) If boll damage scores were recorded (1 to 4), what	Damage in 1 locule Damage in 2 locules		2452
	was the average boll damage score po		3 Damage in 3 locules4 Damage in all locules		
			5 Not applicable		

8. Was scouting f	or pests done in this field o	due to			CODE
					0810
 a. a pest adviso 	ory warning?			Y	ES = 1
					0811
b. a pest devel	opment model?			Y	ES = 1
	1		2		3
				. [If colum	n 1 = YES , ask]
			[<i>If YES, ask</i>] What was the	- Willoulu	the majority of the
			infestation lev	ol.	scouting
			for [column 1]?-	_ ^{lor}	[column 1]?
			4 14 11		or, partner or family member
			1 Worse than norm2 Normal		oloyee upply or chemical dealer
			3 Less than norma	I 4 Indepe	ndent crop consultant or
9. Was this cotton	field scouted for	YES = 1	CODE	comme	rcial scout CODE
		0812	0813	0814	
a. Weeds?					
		0815	0816	0817	
b. Insects or mit	tes?				
		0818	0819	0820	
c. Diseases?					
[If scouted by crop co else go to item 17	onsultant or commercial scout 1.]	t, ask item 10;		DOLLARS & CENTS PER ACRE	OR TOTAL DOLLARS
10. How much was	charged for the scouting se	ervices for thi	s field?	0821	0822
[Include operator	r, landlord and contractor cos	st.]		·	
					OFFICE USE
a. [If scouting p	erformed at no cost, explain:			1	0333
a. [ii oooaiiig p				•	
					CODE
	electronic records kept for or diseases?				0823
weeds, msects (Ji uiseases (Y	ES = 1
	lata compared to published				0824
thresholds to de	etermine when to take meas	sures to mana	ige pests in this f	neid? Y	ES = 1
					1000
	d mapping of previous wee ent decisions?				0825
weeu manayem	511t UGC1310113 :			Y	ES = 1

14.	pur	I you do any of the following other type(s) of pest management practices for the rest of managing or reducing the spread of pests in this field? Iter code "1" for all that apply.]	he specific	CODE
	-	11.5		
	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?	YES = 1	0851
				0852
	l.	Adjust row spacing, plant density or row directions?	YES = 1	
	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
	_	Maintain buffer strips or border rows to isolate organic cotton from non-organic cro		0856
	0.	land, or did you take a buffer harvest?		
	p.	Use a flamer to kill weeds?	YES = 1	0857
	•	Plant earlier or later to avoid weeds?	YES = 1	0853
15.		ere any beneficial organisms (insects, nematodes, fungi) applied released in this field to manage pests?	YES = 1	
16.		ere floral lures, attractants, repellants, pheromone traps or other biological per ntrols used on this field?		0858
[If	item	n 15 or item 16 is YES, ask]		
	a.	for all biological pest controls for this field?	RS & CENTS R 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.	Wa	s a trap crop (excluding fallow) grown to help manage insects in this field?	YES = 1	
				CODE
				0864
18.	Wa	s this field left in fallow in 2014 to help manage insects on this field?	YES = 1	

19.	We	ere water management practices such as irrigation scheduling, controlled		
	dra	ninage, or treatment of retention water used on this field to manage pests toxin-producing fungi and bacteria?	YES = 1	0861
20	Die	d you cultivate this field for weed control?	YES = '	2453
		, ask]		NUMBER
ŗ.,	0	, uon -1		2454
	a.	How many times?		
				CODE
21.		d pests (weeds, insects, pathogens, animals) cause any yield loss on this field in spite your pest control efforts?		0827 I
[lf `	YES	, ask]		
		UNITS	PER	
		CODE ACF	RE	TOTAL UNITS
	a.	How much yield loss do you think was caused by all pests on this field in spite of the management practices you used to reduce those losses?	OF	0830
				NUMBER OF YEARS
22	Вť	rou used Bt seeds on this field in 2015, indicate the number of consecutive years you have seeds. [Note: A producer who used Bt cotton in 2015 and 2014, but conventional cotton s used Bt cotton for "2" consecutive years.]	in 2013,	0831
[lf	22 i	s greater than 1, ask]		YEAR
	a.	If you have ever switched from a Bt seed with a single mode of action to a Bt seed with m (pyramided) modes of action, indicate the year that this change was made		0832
				CODE
23.		ve you ever planted any glyphosate-resistant (GR) crop g. Roundup Ready corn or soybeans) on this field?	YES = 1	0867
[If i	tem	23 = YES, continue. If item 23 = NO, go to Section F.]	,	YEAR
	a	What year did you first plant any GR crop on this field?		0868
	u.	What you are you mot plant any of torop on the hold		CODE
24.		ve you noticed a decline in the effectiveness of glyphosate (e.g. Roundup) in ntrolling weeds in this field?	YES = 1	0834
			•	
[If i	tem	24 = YES, continue. If item 24 = NO, go to item 27.]	1	YEAR
	a.	What was the first year you noticed a decline in effectiveness of glyphosate in controlling weeds on this field?		0835
25.		er noticing the decline in the effectiveness of glyphosate in controlling weeds on s field, did you	'	CODE
				0837
	a.	stop planting GR crops?	YES = 1	
	b.	change tillage practices?	YES = 1	0839

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	1840	1847	1854	1861	1868
b.	fluometuron	1841	1848	1855	1862	1869
C.	acetochlor/S-metolachlor	1842	1849	1856	1863	1870
d.	paraquat	1843	1850	1857	1864	1871
e.	2, 4-D	1844	1851	1858	1865	1872
f.	diuron	1845	1852	1859	1866	1873
g.	herbicides other than those asked above.	1846	1853	1860	1867	1874

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?

1 RESISTANCE MANAGEMENT PRACTICE		2	3 How often did you use this practice on this field? 1 Every Year	Did the cost of managing weeds on this field increase as a result of your use of the practice?
			2 Every Other Year 3 Multiple Years 4 One Year	2 No 3 Don't Know
		YES = 1	CODE	CODE
		0886	2871	0878
a.	Control weeds early			
b.	Control weed escapes	0887	2872	0879
C.	Clean equipment between moving from one field to the next	0888	2873	0880
d.	Use herbicides other than glyphosate	0889	2874	0881
e.	Use tillage	0890	2875	0882
f.	Use the herbicide label recommended application rate	0891	2876	0883
g.	Rotate crops	0892	2877	0884

ı	[If item	27	column	2 contains	at least	one "1"	ask: o	therwise	an to	Section	٦F '
	III ILEIII	~1	COIUIIII	Z COllianis	o al Ivasi	. Ulie i .	asn. u	バリらしかりつきょ	uo ii	, Section	

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 4 – The nearest farm is too far away to affect this field		CODE 0088
---	---	--	------------------

Completion Code for Pest Management Data						
	0500					
1 Incomplete/Refusal						

Including custom operations, I need to list field work pe by machines on this field for the 2015 cotton crop. Plea	rformed CHECK LIST
 begin with the first field operation after harvest of previous croincluding operations for a cover crop established since the preharvested [if fallow during 2014, list operations starting with fall 2013]; list the operations in order through harvest and hauling of this to storage or first point of sale; and 	evious crop Land Forming/Levee Building Tillage Preparing for Irrigation
► maintain the order of tandem hook-ups.	Fertilizer & Pesticide applications Harvesting
CODES FOR COLUMN 5 1 You (the Operator) 2 Partner 3 Unpaid Worker	Module Building Hauling from field to gin Exclude OFFICE USE Limp & Gyrsum/landplaster applications

4 Paid Part-time or Seasonal Worker 5 Paid Full-time Worker 0499 6 Custom Applicator

LINES IN TABLE

Non-Commercial Manure applications & Compost

					[IF CUSTOM (column 5 = code 6), skip columns 6-11]					
	2	3	4	5	6	7	8 C)R 9	10	11
L I N E	%шСЭш ZСШ	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 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 custom and contract labor</i>)	1110	1111	1112			
Paid full-time workers (<i>Exclude custom and contract labor</i>)	1113	1114	1115			

		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 · <u> </u>
		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 - <u> </u>
		CODE
		1116
5.	Was any contract labor used on this field? YES = 1	
[If	YES, ask	DOLLARS & CENTS PER ACRE
	a. What was the average cost per acre for this contract labor? (Include operator, landlord, and contractor costs.)	1117 · <u> </u>
		PERCENT
6.	What percent of the total number of unpaid hours worked on this field was performed by 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

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?	
✓	← [Check box for each service performed; refer to item 1 if necessary.]	DOL	LARS & CENTS PER ACRE
	a. Custom land preparation and/or shaping	1121	
	(Cost per hour X Total hours = Total dollars ÷ Total acres in the field = Dollars & cents per acre)		·
	b. Custom cultivating?	1122	· <u> </u>
	c. Custom planting and/or reseeding?	1123	
	d. Custom harvesting?	1124	
	e. Custom module building?	1125	
	(Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre)		· <u> </u>
	f. Custom hauling from field to gin?	1126	
	(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?	2127	
	(Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) .		·
	[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.]	n ginning	costs, report the
8.	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]		
	Which 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 of these services? (Include operator, landlord, and contractor costs. Exclude cost of soil/tissue tests or scouting cost reported earlier. Do not report costs for any of these services if they were previously reported as part of the costs of materials and/or application.).	ITS OR	TOTAL DOLLARS
			CODE
10.	Were there (or will there be) any data collection tools (yield monitors, GPS mapping, etc.) used during field operations on this cotton field?	YES = 1	2460

[If YES, continue; else go to Section G]

Please report the data collection technologies you used on this field to produce this crop. Also indicate if the data is collected with Global Positioning System (GPS) coordinates and if the data will be used to 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
		2461	2462	2463
a.	Yield monitor			
b.	Soil tests on core sample (performed on-farm or sent out to a laboratory)	2464	2465	2466
		2467	2468	2469
C.	Soil sensor tests			
		2470	2471	2472
d.	Hard-wired crop condition sensors			
		2473	2474	2475
e.	Wireless crop condition sensors			
		2476	2477	2478
f.	Drones, aircraft or satellites			
g.	Custom service applications (data from completed work on your field)	2479	2480	2481
		2482	2483	2484
h.	Public data downloaded from online sources			

11.	Please report how you	r farm data will be stored and accessed.	[Enter code "1" for all that apply	٠.]

	a.	Did you access the data collected for this field on a		CODE
		(i) Paper hard copy?	YES = 1	2485
		(ii) Personal computer?	YES = 1	2486
		(iii) Mobile device?	YES = 1	2487
	b.	Did you access the data collected from this field through an agricultural technology provider website?	YES = 1	2488
[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	2489
	d.	Did you share any of the data collected from this field with a third party through an agricultural technology provider website?	YES = 1	2490
12	Dic	I you obtain crop management recommendations (data interpretation) based on that da	ta vou c	collected from

12. Did you obtain crop management recommendations (data interpretation) based on that data you collected from-[Enter code "1" for all that apply.]

			2491
a.	Input dealers?	YES = 1	
			2492
b.	Integrated input providers?	YES = 1	
			2493
C.	Custom service providers?	YES = 1	
			2494
d.	USDA/University extension services?	YES = 1	

13.	Die	d you use the yield monitor information to		CODE
				1140
		(i) monitor crop moisture content to determine need for crop drying?	YES = 1	
		(1) 11(1141
		(ii) add/improve tile drainage?	YES = 1	
		(iii) negotiate new crop leases?	YES = 1	1144
		(iii) negotiate new Grop leases:	163 - 1	1147
		(iv) other uses [specify:]	YES = 1	1147
14.		as any of the following GPS-enabled (Global Positioning System) equipment used to		
	pro	oduce crops on this field? [Enter code "1" for all that apply.]		CODE
	a.	Guidance auto-steering (excluding Light Bar)?	YES = 1	1148
	۵.	Calculation data of other line (oxoldalling Light Sur)	0 .	1149
	b.	Light Bar?	YES = 1	
	C.	Variable rate application for seeding?	YES = 1	1158
	О.	variable rate application for seeding	163 - 1	1152
	d.	Variable rate application for fertilizer/lime?	YES = 1	1102
	^	Variable rate application for posticide applications?	VEC - 4	1159
	e.	Variable rate application for pesticide applications?	YES = 1	1150
	f.	"Smart" technologies like Google Glass or other head-up cab control displays?	YES = 1	1150
		011 000 11 1 1 10		1151
	g.	Other GPS-enabled equipment?	YES = 1	

G IRRIGATION G

		ACRES	
1.	How many acres in this field were irrigated for the 2015 cotton crop?	1160	
	[If none, go to Conclusion]		

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

	\downarrow		UNIT	SYSTEM 1	SYSTEM 2
a.	What type(s) of irrigation system(s) was this field? [Show System Type Codes Enter System Type Code for up to two field acres.].	in the Respondent Booklet. systems covering the most	SYSTEM TYPE CODE	1161	1175
			INCHES PER ACRE OR	1162	1176
b.	What was the total quantity of water app the entire growing season? (<i>Include AL</i> 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 co		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 irrigat system came from surface water source		PERCENT	1166	1180
d.	What was the number of times this field cotton growing season using this system <i>irrigation</i> .)	n? (Include any pre-plant	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.	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?
	(Include operator, landlord, and contractor costs.)

1189		

4 4 6 6		
1190		

4.	Wa fro	Ţ.	1191					
		YES – [Enter code 1 and continue.] NO – [Go to item 5.]						
			L					
	а	What was the total cost for the water purchased for this field DOLLARS & CENTS PER ACRE OI	R ·	TOTAL DOLLARS				
	a.	during the 2015 growing season? (<i>Include</i> operator, landlord, and contractor costs and ditch maintenance costs for this field.)	-	1194				
[<i>If</i> :	SIPH	HON TUBES were used (item 2a = 10 or 11), ask]	-	TOTAL DOLLARS				
•		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_	1201				
5.	Wł	hat would be the total cost to replace all the siphon tubes used on this field?						
[If POLY PIPE system was used (item 2a = 14) ask]								
6.		1202						
[<i>If</i> (GA T	TED PIPE system was used (item 2a = 15 or 16), ask]	_	INCHES				
-		, , , , , , , , , , , , , , , , , , , ,	[-	1203				
7.	Wł	hat was the average diameter of gated pipe used to irrigate this field?						
				FEET				
				1204				
	a.	What was the total length of gated pipe used?	· L					
Q	Wo	ere wells used to supply irrigation water for this field?	Г	CODE				
0.		YES – [Enter code 1 and continue]		1205				
	ш	TES = [Enter code T and continue]	L	NUMBER				
			Г	1206				
	a.	How many wells were used to irrigate this field?		1200				
	a many wone wore accase any account and note							
			Γ.	INCHES 1207				
	b.	What was the average diameter of the outer well casing?		-				
	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	• [1208				
		in the water level caused by pumping during the irrigation season.]						
	d.	Were other fields irrigated using water pumped from wells that supplied		CODE				
		water to the selected field?		1210				
		☐ YES – [Enter code 1 and continue] ☐ NO – [Go to item 9]	. L					
			_	ACRES				
	e.	Excluding this field, how many other acres on this operation were irrigated		1211				
		using the same wells during the 2015 growing season?		· <u> </u>				
9.		as 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	d.)					
		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				
				1213				
	n	How many feet of this additional pipe were used to bring water to this field?	1					

NOTES

CONCLUSION

LO	CATION	OF SELI	ECTE	D FIELD									
1.	. I need to locate the selected field of cotton on this							OFFI	OFFICE USE				
	тар.					COUNTY NAME					FIPS CODE		
2.	What county is the selected cotton field in?										0010		
	=1 -1 d d d												
	Field de	scriptioi	n							· ·			
FOR STATES WITH GPS UNITS ONLY LATITUDE LONGIT									IGITUDE				
	Field location												
							d	dd mm ss		[_	d d d	m m	1 ss
3.	3. [ENUMERATOR ACTION: Mark map to indicate where the selected cotton field is located. Be sure the "X" marked on map is in the county identified above.]												
4.	4. We will need additional information to complete this study. We will contact you in February or March 2016 to collect it. I'll call you then to set up a time that is good for you.												
5.				ete results c								_	CODE
				results/. Wo er date?							YES = '	9990	
		o you u									120		н мм
												0005	
6.	ENDING	TIME [A	<i>MLITA</i>	4 <i>RY</i>]									
RE	CORDS (JSE											
7.	[Did resp	ondent i	use fa	rm/ranch rec	ords to repo	ort]						(CODE
	- F £ a.u4	***= del	· - O1									0011	
	a. [fert	ilizer aai	ta'?j								YES = 1	0012	
	b. [pes	ticide da	ata?].								YES = 1		
					_							0013	
	c. [<i>maj</i>	ority of tr	nis ex	pense data?]						YES = 1		
												NU 0041	JMBER
SU	PPLEME	NTS USI	ED								FERTILIZER APPLICATIONS		
8.	[Record	the total	numb	er of each ty	pe of supple	ement					PESTICIDE	0042	
	used to	complete	this i	nterview.]							APPLICATIONS		
											FIELD OPERATIONS	0043	
							9910			9911		L	
Re	ported by	:					3510		15				
	Telephone: ()												
OFFICE USE													
R. Unit 9921		Ptr 1 St	Ptr 1 Str Ptr 2 Str 922 9923		Ptr 3 Str 9927	Ptr 3 Str Ptr 4		Str OPS 923		SO 1	ADJ 922 9	Optio	9916
992	'	9922		923	9921	9920		923	9907		922	900	9910
Resp		Response		Respondent		Mc		Mode		num.	•	POID	
1-Co 2-R	omp			9901 1-Op/Mgr 9902 2-Sp 3-Acct/Bkpr 4-Partner		2-Tel 3-Face-to	o-Face	9903	9998		9989		
3-In													
			9-Other								Eval.		Change
											9900	9985	