AGRICULTURAL RESOURCE MANAGEMENT SURVEY

OMB No. 0535-0218 Approval Expires: 12/31/2018 Project Code: 906 SMetaKey: 2054 Phase II

National Agricultural Statistics Service U.S Department of Agriculture

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ERS

NOC Division

AGRICULTURAL STATISTICS SERVICE

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VERSION	ID	TRACT	SUBTRACT	C-TYPE
7		01		120

CONTACT RECORD					
DATE	TIME	NOTES			

INTRODUCTION:

[Introduce yourself, and ask for the operator. Rephrase in your own words.]

The information you provide will be used for statistical purposes only. Your responses will be kept confidential and any person who willfully discloses ANY identifiable information about you or your operation is subject to a jail term, a fine, or both. This survey is conducted in accordance with the Confidential Information Protection provisions of Title V, Subtitle A, Public Law 107-347 and other applicable Federal laws. For more information on how we protect your information please visit: https://www.nass.usda.gov/confidentiality. Response is **voluntary**. You may skip any question(s) you prefer not to answer.

We encourage you to refer to your farm records during the interview.

	ннм	М					SCREENING BOX
BEGINNING TIME [MILITARY]	0004						0006
[Name, address a	and partne	rs verit	fied and updated if nec	essary]			
POID				POID			
PARTNER NAME				PARTNER NAME			
ADDRESS				ADDRESS			
CITY	STATE	ZIP	PHONE NUMBER	CITY	STATE	ZIP	PHONE NUMBER
POID				POID			
PARTNER NAME				PARTNER NAME			
ADDRESS				ADDRESS			
CITY	STATE	ZIP	PHONE NUMBER	CITY	STATE	ZIP	PHONE NUMBER

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





		TOTAL PLANTED ACRES
1.	How many acres of soybeans did this operation plant for the 2018 crop year? [If no acres planted, review Screening Survey Information Form, make notes, then go to item 4 on back page].	
2.	I will follow a simple procedure to make a random selection from the soybean fields planted for the 2018 crop.	TOTAL NUMBER OF

	FIELDS PLANTED
What is the TOTAL number of soybean 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

Α

FIELD NAME, NUMBER OR DESCRIPTION

1	10
2	
3	12
4	_13
5	_14
6	15
7	16
8	17
9	18

Α

APPLY "RAND	OOM NUMBER"	LABEL HERE

4. [ENUMERATOR ACTION: Circle the pair of numbers on the above label associated with the last numbered field in item 3. Select the field according to the number you circled on the label, and record the selected number. If only one field, enter 1.]....

5. **The field selected is** _____ (field name/number/description).

During this interview, the soybean questions will be about this selected soybean field. [Be sure the operator can identify the selected field.]

 6. For the randomly selected field above, please provide the Farm Service Agency (FSA):
 NUMBER

 a. Farm Number.
 1070

 b. Tract Number.
 1071

 c. Field Number.
 1072

OFFICE USE	
OY Field Substit	uted

0022		

SELECTED FIELD NUMBER

0021

H		-3-	-	
FIEL	D C	HARACTERISTICS SELECTED FIELD		В
How many acres of soybeans o	did thi	s operation plant in this field for the 2018 crop?		ACRES
a. Are the acres in this field CE [<i>If</i> YES , <i>skip</i> 1 <i>b</i> and <i>ask</i>			YES = 1	1300
b. Was this field transitioning in	to orga	anic soybean production in 2018?	ES = 1	1399
				CODE
Were the acres in this field	1 2 3 4 5 6	owned by this operation? rented for CASH with the payment being a fixed cash amount rented for CASH with the payment being a flexible cash amount? rented for a SHARE of the crop? rented for some combination of CASH and SHARE of the crop used RENT FREE?		1302
[If field is CASH RENTED (item 2	? = 2, 3	3 or 5), ask item 3, else go to item 4.]		DOLLARS & CENTS PER ACRE

What was the cash rent paid per acre for this 2018 soybean field?.....

		PERCENT
4.	[If field is SHARE RENTED (item 2 = 4 or 5), ask] What was the landlord's share of the crop from this field?	1304

5. [If field is RENTED (item 2 = 2, 3, 4, or 5), ask--]

В

1.

2.

What was the total cost for all inputs provided by any landlord for the 2018 crop on the selected field? (Include the costs for all inputs, such as	DOLLARS & CENTS PER ACRE	DR	TOTAL DOLLARS
seed, fertilizer, chemicals, technical services, custom operations, drying and irrigation. Exclude real estate tax expenses and lime costs paid by the landowner.).			1306

6.	the 2 such	t was the total cost for all inputs provided by 2018 crop on the selected field? (<i>Include</i> the as seed, fertilizer, chemicals, technical service og and irrigation.)	costs for all inputs, s, custom operations,	DOLLARS & CENTS PER ACRE OR 1309 	TOTAL DOLLARS
7.	Wha	at year did you (the operator listed on the label) st	art operating this field	?	1312
					MM DD YY
8.	On v	vhat date was this field planted?			1308
	a.	What was the intended purpose for the soybeans-–	 Animal Feed? Human Consumption? Seed? Unknown (Delivered to ele Other uses [Specify: 		CODE 1307
					BUSHELS PER ACRE

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

1311

1303

	H	- 4 -	-	
		1 Purchased?		CODE
9.	Was the source of the soybean seed	2 Homegrown or traded? 3 Both?		1317
	a. [If item 9 = 2 or 3, ask]			PERCENT
	How much of the soybean seed planted in this	÷ .	,	1318
	by this operation?			DOLLARS & CENTS
				PER BUSHEL
	(i) What was the cost per bushel for cleaning	and treating this seed?		1321 ·
10.	[<i>If any seed purchased</i> (item 9 = 1 or 3), ask]		DOLLARS & CENTS PER UNIT	UNIT CODE 1 = POUNDS 2 = CWT 3 = TONS 4 = BUSHEL 22 = ACRE 23 = 50 LB BAGS
	What was the total cost per unit (including both ye	our and the landlord's share)	1319	1320
	of purchased seed for this field? (Include cost of	f seed treatment.)	·	-
11.	What was the seeding rate per acre the first time this field was planted?		UNITS	UNIT CODES for Seeding Rate 1 = Pounds/Acre 2 = CWT/Acre 4 = Bushels/Acre 25 = Seeds/Acre 38 = Seeds/Foot 1314
	1	Drilled?		CODE
	a. Was the soybean seed 3	Planted in Conventional Rows? Broadcast on this field?		1316
12	[If Drilled or Planted (item 11a = 1 or 2), ask]			INCHES
	What was the average soybean row width?			1322
				ACRES
13.	How many acres in this field had to be replanted (Acres replanted = Number of acres times the numb			
			_	CODE
	For the 2018 soybean crop, did you purchase pre the seed treated after purchase with a fungicide o			3062
	[If item 14 is yes, ask]		CODE	_
	 List the name of the seed treatment product. Enter from the Respondent Booklet (Page 2) (enter 999 if a seed treatment was applied but the 		2325	

[If item 14a is 999, ask]	
	Seed Treatment Product Name
b. Write the seed treatment product name in the box provided	XXXX

15. Did the SOYBEAN planted on this field have any of the following traits in 2018 or 2017?

- Herbicide-resistant seed variety with sulfonylurea tolerance..... a.
- Nematode-resistant seed variety with cyst nematode resistance b.
- c. Disease-resistant seed variety with root-rot tolerance
- d. Insect-resistant seed variety with aphid resistance
- 16. Did the SOYBEAN planted on this field have any of the following GMO/GE seed traits in 2018 or 2017? -
 - a. Genetically-modified herbicide-resistant seed variety with glyphosate tolerance...
 - b. Genetically-modified herbicide-resistant seed variety with glufosinate tolerance
 - c. Genetically-modified herbicide-resistant seed variety with dicamba tolerance
 - d. Genetically-modified herbicide-resistant seed variety with HPPD tolerance

			CODE
17. For the 2018 soy	bean crop, did you plant a commercial seed product?	YES = 1	3062
[If item 27 is yes,	ask]	CODE	_
Respondent E	of the seed product. Enter the appropriate product code from the Booklet (Page xx) Is seed product was purchased but the product is not listed)	2325	
[If item 27a is 999	, ask]	Seed Treatme	ent Product Name
b. Write the seed (product name in the box provided	XXXX	

2513	2514
2018 YES = 1	2017 YES = 1

2512

2514

2017

YES = 1

2502

2510

2512

-5-



2018 **YES = 1**

2501

2509

2511

2511

2513

	F	- 5 -			►	
th	ere the soybeans from this field sold (or w rough a market specifically for non-geneti bybeans?		Yes=			
a.	[If item 23 = YES, ask]			DOLLARS & CENTS PER BUSHEL	1	
	What was the price premium (or the expect received for these non-genetically modified soybean		- ,	·	- - -	
19. Ha	s harvest of this field been completed?				Yes=1 1328	}
a.	harvested for grain or ଅଭିନ ୍ୟାvow I need information about the acr	1346 es harvested (or	1347 to be harv	rested) and the v	vields from t	his
	field.			то 1		
b.	harvested for commercial the sources in this sources in the source	were (or will be)		What yield per acre did you (or	UNIT COD	
C.	abandoned?	1351 .		do you expect to) get for	2 CWT 3 Tons 4 Bushe	
		ACI	RES	soybeans	4 BUSH	15

		CRO	P CODE LIST for item 21 – F	PREVIO	USLY PLANTED CR	OPS	
190	Barley	311	Grasses, including clover	22	Rye	318	No crop planted
6	Corn for grain	1	Hay, alfalfa	XX	Sorghum, all	XX	Other field crop
5	Corn for silage	11	Hay, all other	26	Soybeans	XX	Other crop
XXX	Cotton (all)	15	Oats	XX	Wheat, spring	XX	Cover crop mix
302	CRP	21	Rice	165	Wheat, winter		

	1			2	3	4	5	6
Wh	nat crops were PLANTED on	this field in		What type of crop was grown on this field?	Was this a cover crop?	How did you manage this cover crop?	Was this field irrigated?	Was this field no-tilled or strip-
				1 GE Herbicide		1 Plowed-in		tilled? 1/
				Tolerant (HT)		2 Chiseled-in		1/
				2 GE Insect		3 Chemical-killed		
				Resistant (Bt)		4 Rolled		
				3 Stacked		5 Grazed		
				(HT and Bt)		6 Harvested		
				4 Not GE		7 Disked		
SEA	ASON AND YEAR	CROP NAME	CROP CODE	CODE	YES = 1	CODE	YES = 1	YES = 1

	E E		-5-			- H		
a.	SPRING/SUMMER of 2018?	Soybeans	26	xxx			XXX	XXX
a.	FALL of 2017?		1343	XXX	1470	1471	2344	1345
b.	SPRING/SUMMER of		1369	XXX	1472	1473	2370	1371
C.	FALL of 2016?		1372	XXX	1474	1475	2373	1374
d.	SPRING/SUMMER of 2016?		1375	XXX	1476	1477	2376	1377
e.	FALL of 2015?		1378	ххх	1478	1479	2379	1380
f.	SPRING/SUMMER of 2015?		1381	XXX	1480	1481	2382	1383
g.	FALL of 2014?		1366	XXX	1482	1483	2367	1368
h.	SPRING/SUMMER of 2014?		1340	XXX	1484	1485	2341	1342

1/

⊢

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.

H

i.	[If a cover crop was planted in Spring/Summer/Fall 2017, ask—	DOLLARS & CENTS
	What was the seed cost per acre for the cover crop?	

i. What was the per-acre total of all cost-share or financial assistance payments received for the cover crop (if any)?

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

22.	Is any part of this field been classified 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, prepared in accordance with Federal		CODE
	standards.)	YES = 1	1404
23.	Does this field contain a wetland? (Wetlands are subject to Wetland Conservation (WC) or "swampbuster" requirements. Producers who receive farm program payments must refrain from draining wetland to make them ready for crop production.)	YES = 1	1405

|--|

25. What is the primary soil type of this field?	Loam Clay Sandy Mixod	 CODE
	Mixed	

26. Which of the following resource Concerns do you have on this field

27. Did the Reference practices for this field inclu [If YES, ask] a. In what year was the subsurface drainage in	CODE stalled?	from any of the fo evaluate this resource up to 3 sources t assistant 1 USDA – NF 2 Cooperative ainage? Other USD/ Forest Serv 4 Other (e.g. Conservatic agency)	ce concern? (Report that you received ce from.) CCS Extension Service A staff, includin gES = 1 ice Soil and Water on District, state	CODE 2402 YEAR 2403
	YES = 1	Source 1	Source 2	INCHES
a. Water-driven erosion.	2407	2417	2427	XXXX
a. Water-driven erosion b. What is the average width (space between r b. Wind griven erosion		2418	2428	
cc. Swihapisplactulameter of your tiles? (inches)	2409	2419	2429	2605
d. Poor drainage	2410	2420	2430	
e. Low organic matter	2411	2421	2431	HOURS
d. On average, how many hours does it take yo f. Water (Haity following a heavy storm?::::::::::::::::::::::::::::::::::::	bur field to return t	o normal soil mois	ture levels	2606
Ge. Obes (AISS) Blem include a mechanism for c	2413 ontrolled drainage	2423 (e.g. stop logs, ri	sers, or	2406
h. NOSIMARANIEORDErns				

-8-

-8-

29. Has this field been in any conservation program contracts for which you or your landlord received (or expect to receive) cost-sharing payments, stewardship payments, or incentive payments? (1=currently in a contract, 2=previously in a contract, 3=never in a contract)

	Conservation Practice/Conservation Plan List for question 31						
328	Conservation Crop	590	Nutrient Management Plan?	332	Contour Buffer Strips		
	Rotation						
329	No-Till/Strip-Till	???	Manure Management Plan?	386	Field Border		
345	Reduced (Conservation)	595	Integrated Pest Management Plan	393	Filter Strip		
	Till						
330	Contour Farming	449	Irrigation Water Management Plan	412	Grassed Waterway		
340	Cover Crop	644	Wetland	410	Grade Stabilization Structure		
585	Strip cropping		Conservation Plan	603	Herbaceous Wind Barriers		
				600	Terraces		
				390	Riparian Buffer		
				380	Field Windbreak/Shelterbelt		
					or Hedgerow		

31. List all conservation practices or plans that were used on this field over the past 5 years.

1

Have you ever received at any time--

What conservation practices or plans have been used on this field at least once in the past 5 years?

Was this practice or plan used in 2018? Technical or planning assistance? Financial assistance? Does this practice or plan help satisfy? -8-

_ F

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2

3

USDA including funding of Technical Service Providers

Other Sources of Outside Assistance

No Assistance Needed

- 1 2 3 4
- 5 EQIP
- CSP

CRP

Other Federal, State, and Local Programs

No Assistance Needed

- 1
- 2

3

A federal regulatory requirement?

USDA conservation compliance provisions?

Does not relate to any regulation or compliance requirement.

CODE	
YES = 2	1
CODE	
CODE	
CODE	

0706 0726 0736 0746		
0707 0727 0737 0747		
0708 0728 0738 0748		
0709 0729	F	

	E E	-8-	F
0739 0749			
0702 0722 0732 0742			
0703 0723 0733 0743			
0704 0724 0734 0744			
0705 0725 0735 0745			

			_	CODE
		as the soybean in this field covered by private crop insurance in 2018? (hail, wind,		2520
	fre	eeze, etc.)	ES = 1	
	[<i>lf</i>]	YES, ask]	-	DOLLARS & CENTS PER ACRE
	a.	What was the dollar amount of coverage per acre for the private insurance policy covering this field?.	S	2521 •
				PERCENT
	b.	What was the percent deductible for the private insurance policy covering this field? (<i>Record no deductible as 0%</i> .)		2522
			-	DOLLARS & CENTS PER ACRE
(C.	What premium cost per acre did you pay for the private insurance policy covering this field?		2523 •
	d.		ES = 1	1394

33. Was the soybean in this field covered by Federal Crop Insurance in 2018? CODE 1385 **YES** – [Enter code 1 and continue.] **NO** – [Go to Section C.]..... Federal CAT (Basic catastrophic insurance) 1 Yield based (Individual) 2 Yield plus SCO (Supplemental Coverage Option) 3 CODE a. Which coverage did you obtain?.... 4 Revenue based (Individual) 1386 5 Revenue plus SCO (Supplemental Coverage Option) Other Federal Crop insurance 6 [If item 40a = 2 or 3, ask--] PERCENT 1387 What yield level did you select for your buy-up coverage for this field?..... 1388 What price level did you select for your buy-up coverage for this field? [If item 40a = 4 or 5, ask--] PERCENT 1389 What was the level of revenue coverage you obtained for this field?..... CODE b. What type of unit coverage did you purchase for this field? (Basic = 1, Optional = 2, Enterprise = 3). In what year did you (the operator listed on the label) first enroll this field YEAR С in the Federal crop insurance program?..... **BUSHELS PER** d. What is the 2018 Approved APH (actual production history) yield for this field?..... ACRE DOLLARS & e. What was the premium paid for Federal crop insurance

 e. What was the premium paid for Federal crop insurance
 DocLards & Centre of Cen

-13-

NUTRIENT or FERTILIZER APPLICATIONS----SELECTED FIELD

-13-

H

F

С

								(CODE	EDIT TABLE
1.	2018 soyb	eans crop?	(Include the	se from ope	ied to this field f rators, landlords,	and	YES = 1	0202		0200
		,			ontinue; else go to		l			NUMBER
2.					pplications were			.)		0203
3.	Now I need	l to record i	nformation	for each ap	plication.	•		,	1	
			HECKL			רי ו				
¦√	INC	CLUDE	 ✓ 	EXC	LUDE					
	Custom appl	ied nutrients	n 🗌	Vicronutrients						
i I	or fertilizers			Jnprocessed	manure					
i⊔	Nutrients or applied in the					i				
	and those ap if this field wa	oplied earlier as fallow in 20			fertilizers applied ops in this field					
	Commerciall	v prepared		ime and min		OFFICI		т	ABLE	0299
	manure or co			_inie and gyps	sum/landplaster	LINES IN		•	001	0233
									7 Banded i	on water lected or knifed in n or over row directed spray
		:	2		3	4	5		6	7
L I N	[E]		ALS USED	ual	What quantity was applied per acre?	[Enter material code.]	When this app 1 In the fa	olied?	How was this applied?	How many acres were treated in this
Е	pound	ls of plant nutrie	ents applied per	acre.]	[Leave this column blank	1 Pounds 12 Gallons	before s 2 In the s	0	[Refer to code list	application?
	[Sho		ıtrients or Fertili ent Booklet.]	izers	if actual pounds of nutrients	19 Pounds of actual	before s	seeding	above.]	
	N	P₂O₅	K₂O	S	were reported.]	nutrients	3 At seed 4 After se			
	Nitrogen	Phosphate	Potash	Sulfur						ACRES
01	31	32	33	34	36	37	38		39	40
		32	33	34	36	37	38		39	40 ·
03	31	32	33	34	36	37	38		39	40 ·
04		32	33	34	36	37	38		39	40
05	31	32	33	34	36	37	38		39	40
06		32	33	34	36	37	38		39	40 ·
07		32	33	34	36	37	38		39	40 ·
08	31	32	33	34	36	37	38		39	40

С

F

		E E	- 36 -		- F		
4.	We	re any nutrients or fertilizers appl	lied by custom applicato	s?			
		YES - [Continue]	NO - [Go to item 5]				
	a.	Are you able to report the cost of nu	utrient or fertilizer materials	and			OFFICE USE
		custom application separately?					0215
		YES - [Continue]	NO - [Go to item 5]				
	b.	Excluding the cost of the nutrient or was spent for custom application of (Include operator, landlord, and con for sulfur and micronutrients. Exclu gypsum, purchased manure and put and application costs can't be separ- record the total in item 5.1	f nutrients or fertilizers on the ntractor costs. Include cost ude custom application of l urchased compost.) [If mat	nis field? sts ime, erial	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
5.	ap we this and sep	hat was the TOTAL COST of all number olied to this field? (<i>Include</i> operation of the costs for sulfur and micronu of field if it was fallow in 2017. Exclu of purchased compost.) . [If custom operated from application costs, include erwise, include both the material and	tor, landlord, and contractor trients. Include materials de lime, gypsum, purchase applied and the cost of ma de the cost of materials ON	r costs, as applied to ed manure terial can be ILY;	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
						-	CODE
							0218
~			4h - 0040	_			0210
6.	vva	s gypsum applied to this field for	the 2018 soybeans crop	?	YE	S = 1	
						1	CODE
7.	Wa in	as a soil test for Soil Organic Matte the last 10 years?	er performed on this soy	beans field a	t some point	5=1	3225
	[<i>If</i>]	item 7 = 1, ask]					PERCENT
	a.	What was the percentage of Soil O	raanic Matter on the field fr	or the most re	cont tost?		3226
	а.	What was the percentage of Son Of	rgame matter on the held it			•••	•
						1	NUMBER 3227
	b.	How many times have you tested th	nis field for Soil Organic Ma	tter in the las	t ten years?		5221
	[If it	em 7b is more than 1 ask]					CODE
	C.	Based on these tests, is your Soil C	Drganic Matter content:	1 Increa 2 Decrea 3 Stayin			3228
	8.	Was a soil or plant tissue test pe crop?	rformed on this soybean	s field in 201	7 or 2018 for the 2	2018	
		YES [Continue.]	NO [Go to item 13.]				
							CODE
	9.	Was a soil test for phosphorus p the 2018 crop?	erformed on this soybea			YES	0225 = 1
		[If item 9 = 1, ask]					POUNDS PER ACRE
			(nor nora) ware reas	nonded (by th	o phoophore to the	n	0226
		a. How many pounds of phosphor	us (per acre) were recomn	ienueu (by th	e priospriorus (est)	<i></i>	•••

		- 36 -	-	l	
					CODE
10. Wa	a soil test for nitrogen performed on t	nis soybeans field in 2017 or	2018 for the		0227
20	18 crop?			S = 1	
 [/f	item10 = 1, ask]			• -[POUNDS PER ACRE
				[0228
a.	How many pounds of nitrogen (per acre) w	vere recommended (by the nitro	ogen test)?	[0220
					CODE
				Б	CODE
	is a plant tissue test or leaf analysis for r 2017 or 2018 for the 2018 crop?				0229
10.4			YES	5=1	
			DOLLARS & CENTS		TOTAL DOLLARS
10 11			PER ACRE	OR	0231
	ow much was spent for these soil and pla this field in 2017 or 2018 for the 2018 cr		0230		0231
	ntractor costs.]	• •			
			·		
[If tests v	vere done at no cost continue, otherwise go to Item 12	2b.]			
		1 Soil/plant tissue test provid			CODE
a.	What is the reason why tests were done	dealer, crop consultant, or	extension service.	[0232
	at no cost?	2 Soil/plant tissue test costs total fertilizer costs reported	were included in the		
				L	
		3 Some other reason.		ſ	
b.	Did you receive a payment from the Cons a stalk or leaf tissue test for nitrogen appli			S = 1	3231
[ENUN	IERATOR ACTION: Refer to the Fertilizer T complete item 13. If No				
	complete item 13. Il M	o milogen applied, go lo ilem 1	.4.]		
13 Wa	as the amount of nitrogen you decided to	apply to this field based on			CODE
10. 10	is the amount of malogen you declared to	apply to this held based on			0233
a.	Results of a soil or plant tissue test?		YE	S = 1	0200
	·				0234
b.	Crop consultant recommendation?		YE	S = 1	
					0235
C.	Fertilizer dealer recommendation?		YE	S = 1	
Ь	Extension Service recommendation?				0236
d.			···· YE	S = 1	0007
e.	Cost of nitrogen and/or expected commo	lity price?	YF	S = 1	0237
0.				.0 - 1	0238
f.	Contractor recommendation?		YE	S = 1	
q.	Routine practice (operator's own determin				0239
у.	experience, vield goal, etc.)?	······································	YE	S = 1	
h.	[If nitrogen inhibitors were used, continue;	else go to item 14.]		05	GALLONS
			PER ACRE	OR	PER ACRE
	How much nitrogen inhibitor did you mix with the nitrogen applied to this field?		2561		

		-36-	
			CODE
14 -	lime over applied to this field?		0242
		nuo 1	
lit no	lime applied, go to item 15; else conti	nue.j	YEARS
a	On average, how many years are t	here between applications of lime to this field?	
			TONS PER ACRE
b	How many tons of lime were appli	ed per acre the last time it was applied to this field?.	0244
			CODE
_		17 0010 ((h 00100	0240
С		17 or 2018 for the 2018 crop?	
		own farm, from a neighbor's farm, etc.) or other orga o this field for the 2018 soybeans crop?(Exclud	
	ommercially prepared manure.)		0246
	YES - [Enter code 1 and continue]	NO - [Go to item 17].	
			ACRES
a.	How many acres in this field was m	anure or compost applied to?	
	-		
			PER ACRE OR TOTAL UNIT
	b. What was the amount of manur or compost applied to this field?		0250
		4 Cubic Yards	
c.	Of the total manure or compost appl		
	crop, what was the percent of manu	re or compost applied	PERCENT
	(i) in the fall before planting?		· · · · + 0254
	(ii) in the spring before planting?		• 0255
			0256
	(III) after planting?		
			100%
		1 Lagoon liquid? 2 Slurry liquid?	CODE
d.	Was the manure or compost	3 Semi-dry or dry?	0257
		1 Broadcast or sprayed without	CODE
		incorporation? 2 Broadcast or sprayed <i>with</i>	CODE
e.	Was the manure or compost	incorporation? 3 Injected/knifed in?	
	·	4 Sprayed using irrigation systems?	

	- 36 -	l l	-
f. Was the major source of the manure or compost from	1 Beef cattle? 2 Dairy cattle? 3 Hogs? 4 Sheep? 5 Poultry? 6 Equine? 7 Biosolids (<i>municipal sludge</i>)? 8 Food waste? 9 Other? [<i>Specify</i> :]]	CODE 0259
g. Was the manure or compost	 Produced on this operation? Purchased? Obtained at no cost off this operation? Obtained with compensation? (Operator received payment for accepting the man 		CODE
[If item 15g = 2, ask]			
	of the purchased manure or compost	DOLLARS & CENTS PER ACRE	OR TOTAL DOLLARS
	<i>clude</i> operator, landlord, and contractor ment made for transportation costs.)		
			CODE
(ii) Did you him comeans t	a sustan analy the measure or compact?		0286
	o custom apply the manure or compost?		YES = 1
[If YES, ask]		DOLLARS & CENTS PER ACRE	OR TOTAL DOLLARS
custom applied to th	ost paid to have manure or compost is field? [Do not report custom was included with the purchased manure	0287	0288
			MILES
(iii) What is the distance in r this field?	niles between the manure or compost sto	prage/production location	n and 0291
	applied to this field, was any tested for nu		CODE 0261 /ES = 1
	ON RATES to this field influenced by F		CODE 0264 /ES = 1
[If item 16 is YES, ask]			
a. What basis was used to det	ermine these manure application rate res	trictions	CODE
	f the crop?		/ES = 1
(ii) Phosphorus requirement	nt of the crop?	····· ·	0266 /ES = 1

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BIOCONTROL or PESTICIDE APPLICATIONS---SELECTED FIELD

Now I have some questions about all the biocontrols or pesticides used on this field for the 2018 soybeans crop, including both custom applications and applications made by this operation.

1. Were any herbicides, insecticides, fungicides or other biocontrols or pesticides used on this soybean field for the 2018 crop?					YES = 1	302	0300	
		ols or pesticid			on E.	ŗ		
insectic	ides,	and other pesticide	es.	earlier and	seed treatments.	OFFICE USE	TABLE 03 001	99
CHEMICAL PRODUCT NAME	L I N E	2 What products were applied to this field? [Show product codes from Respondent Booklet.]	3 Was this product bought in liquid or dry form? [Enter L or D]	4 Was this part of a tank mix? [If tank mix, enter line number of first product in mix.]	5 When was this applied? 1 BEFORE planting 3 AT planting 4 AFTER Planting	6 C How much was applied per acre per application?	R 7 What was the total amount applied per application in this field?	8 [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	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		73	74
	09	61		63	64	65 	73	74
	10	61		63	64		73	74
	11	61		63	64		73	74
	12			63	64	65 	73	74
	13	61		63	64		73	74
	14	61		63	64		73	74
						-	-	

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

LINE

D

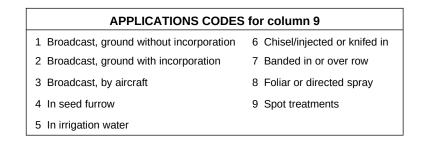
Pesticide Type (Herbicide, Insecticide Fungicide, etc.)

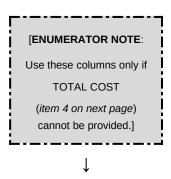
EPA No. or Trade name and Formulation Form Purchased (Liquid or Dry) Where Purchased [Ask ONLY if EPA No. cannot be reported.]

EDIT TABLE

CODE

D





	9	10	11	12	OPTIONAL ITEM 4			
						What was the cost per unit of the produc		
L I N E	How was this product applied? [Enter code from above.]	How many acres in this field were treated with this product? ACRES	How many times was it applied? NUMBER	Were these applications made by 1 Operator, partner or family member? 2 Custom applicator? 3 Employee/Other?		DOLLARS & CENTS PER UNIT	UNIT CODE 1 Pounds 15 Liquid Ounces 12 Gallons 28 Dry Ounces 13 Quarts 30 Grams 14 Pints	
01	76		79	80			82	
02	76		79	80			82	
03	76	77	79	80			82	
04	76	77	79	80		81	82	
05	76	77	79	80		81	82	
06	76	77	79	80			82	
07	76	77	79	80		81	82	
08	76	77	79	80			82	
09	76	77	79	80			82	
10	76	77	79	80			82	
11	76	77	79	80			82	
12	76	77	79	80		81	82	
13	76	77	79	80		81	82	
14	76	77	79	80		81	82	

		- 36 -	-				
3.	We	ere any chemicals, biocontrols, or pesticides applied by custom applica	tors?				
		YES – [Continue] NO – [Go to item 4]			OFFICE USE		
	a. Are you able to report the cost of chemical, biocontrol, and pesticide products and custom application separately?						
		☐ YES – [Continue] NO – [Go to item 4]					
	b.	Excluding the cost of the chemical, biocontrol, and pesticide products,	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS		
	how much was spent for custom application of such materials on this (<i>Include</i> operator, landlord, and contractor costs.)		0331		0332		
4.		nat was the TOTAL COST of all chemical, biocontrol, or pesticide oducts applied to this field? (<i>Include</i> operator, landlord, and contractor	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS		
	cos age	sts, defoliants, herbicides, insecticides, fungicides, surfactants, wetting ents, growth regulators, and materials applied before planting and during 17 fallow period. Exclude seed treatments.)			0335		
			DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS		
	a.	How much was spent for herbicide products applied to this field? (<i>Include</i> operator, <i>landlord</i> , <i>and contractor costs</i> .)	3034		3035		
			DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS		
	b.	How much was spent for insecticide products applied to this field? (<i>Include</i> operator, <i>landlord</i> , <i>and contractor costs</i> .)			3037		

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

NOTE 2: If custom applied and the costs for materials can be separated from application costs, include the cost for materials only. Otherwise, report both the material and application costs in item 4.

NOTES

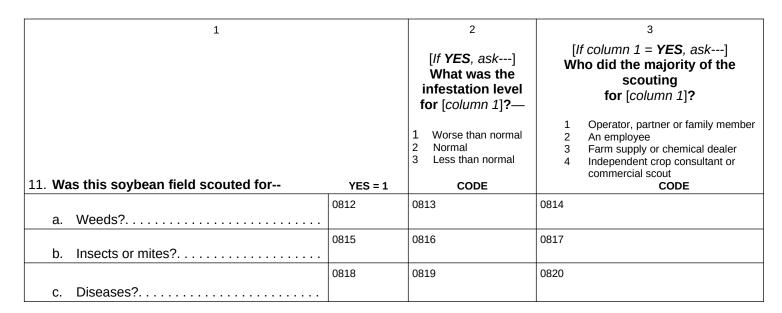
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	H	-36-	H	
Ε	PEST MANAGEN	IENT PRACTICES SELECTED FIELD	D	E
us	w I have some questions about your pest ma ed on this field for the 2018 soybean crop. E SEASES.			
[EI	NUMERATOR ACTION: Were PESTICIDE app	lications reported in Section D?]		
	□ YES – [Continue]	□ NO – [Go to item 6]		CODE
1.	Was weather data used to assist in determi pesticide applications?	ning either the need or when to make	YES = 1	0800
2.	Were any biological pesticides such as Bt (regulators, neem or other natural/biological manage pests in this field?		YES = 1	0801
3.	Were pesticides with different mechanisms primary purpose of keeping pests from bec	of action rotated or tank mixed for the oming resistant to pesticides?	YES = 1	0802
[EI	NUMERATOR ACTION: Were HERBICIDE (pe applications repo	sticide product codes 40000-49999) ted in Section D, item 1, column 2?]		
	□ YES – [Continue]	NO – [Go to item 6]		
4.	Were herbicides applied to this soybean fie emerged?	eld BEFORE weeds	YES = 1	0803
5.	Were herbicides applied to this soybean fie emerged?	eld AFTER weeds	YES = 1	0805
6.	Were records kept for this field to track the diseases?	activity or numbers of weeds, insects or	YES = 1	CODE
7.	Did you use published information on infest to take measures to manage pests in this fi	station thresholds to determine when eld?	. YES = 1	0824
8.	In 2018, how was this field primarily scouted for insects, weeds, diseases, and/or beneficial organisms?	 By deliberately going to the field specifically for scouting activities [<i>Enter code 1 and go to item 9.</i>] By conducting general observations while performing routine tasks [<i>Enter code 2 and go to item 11.</i>] This field was not scouted. [<i>Enter code 3 and go to item 14.</i>]]	CODE
9.	Was an established scouting process (systern or were insect traps used in this field?		YES = 1	0809
10.	Was scouting for pests done in this field du	ie to		CODE
	a. a pest advisory warning?		YES = 1	0810
	b. a pest development model?		YES = 1	0811

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[If scouted by crop consultant or commercial scout, ask item 12; else go to item 1				
	OR	TOTAL DOLLARS		
12. How much was charged for the scouting services for this field? [<i>Include</i> operator, landlord and contractor cost.]	0821	•		0822
				OFFICE USE
a. [If scouting performed at no cost, explain:]		0333
13. Did you use field mapping of previous weed problems to assist you in m management decisions?	YES = 1	0825		

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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?							
	[Enter code "1" for all that apply.]						
	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	0848			
	i.	Adjust planting or harvesting dates?	YES = 1	0849			
	j.	Chop, spray, mow, plow, or burn field edges, lanes, ditches, roadways, or fence lines?	YES = 1	0850			
	k.	Clean equipment and field implements after completing field work to reduce the spread of pests?	YES = 1	0851			
			123 - 1	0852			
	I.	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?	YES = 1	0855			
	0.	Maintain buffer strips or border rows to isolate soybeans from non-organic crops or land,		0856			
		or did you take a buffer harvest?	YES = 1				
	p.	Use a flamer to kill weeds?	YES = 1	0857			
	q.	Plant earlier or later to avoid weeds?	YES = 1	0865			
15.		e any beneficial organisms (insects, nematodes, fungi) applied eleased in this field to manage pests?	YES = 1	0853			
16.		e floral lures, attractants, repellants, pheromone traps or other biological pest trols used on this field?	YES = 1	0858			
	5511		. 23 - 1 [

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[If item 15 or item 16 is YES, ask--]

-

a.	What were the TOTAL materials and application costs for all biological pest controls for this field?	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
	Include operator, landlord, and contractor costs. Include cost for	0859		0860
	beneficial organisms (insects, nematodes, and fungi).			
	Exclude biological pesticides previously reported	·		

E C	-36-	E E	
17. Was a trap crop (excluding fallow) g]? YES=1	CODE	
18. Was this field left in fallow in 2017	YES = 1	CODE 0864	
19. Were water management practices drainage, or treatment of retention or toxin-producing fungi and bacte	0861		
	isms a factor in your pest control decisi		1765
[<i>If Item 20 is YES, continue. Else go</i> a. Did you change timing of, reduce pesticide application?	-	YES = 1	1766
 b. Did you change to an alternative 21. If untreated (either with herbicides, tillage, or cultivation), how much yield loss (e.g. bushels per acre) do you think weeds would most likely cause on this field? 	BUSHELS TONS	UNITS PER ACRE	TOTAL UNITS
22. Did pests (weeds, insects, pathogens	s, animals) cause any yield loss on this f		CODE
[If YES, ask]			
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?	1 BUSHELS 2 TONS ····· AND	UNITS PER ACRE	TOTAL UNITS
	, glyphosate resistant seeds on this field ou have planted genetically engineered,	l in 2018, indicate glyphosate-	970 YEAR

a. What year did you first plant any glyphosate resistant seeds on this field? $\ldots \ldots \ldots$

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NUMBER OF YEARS

-36-	
24. If you used genetically engineered, dicamba resistant seeds on this field in 2018, indicate the number of consecutive years you have planted genetically engineered, dicamba resistant seeds	XXXX
a. What year did you first plant any dicamba resistant seeds on this field?	YEAR
25. Did you observe "cupping" or other symptoms associated with dicamba drift/volatility on this field in 2018? YES = 1	xxxx
[if item 26 = yes, continue. Else proceed to item 27]	
 a. Do you believe that the damage you observed on your field in 2018 was due to drift (not volatility)? YES = 1 	XXXX
26. As far as you are aware, did farmers in neighboring fields observe "cupping" or other symptoms associated with dicamba drift/volatility in 2018?	XXXX
27. As far as you are aware, did farmers in your county observe "cupping" or other symptoms associated with dicamba drift/volatility in 2018? YES = 1	xxxx
29. As far as you are aware, did farmers in neighbouring fields plant dicamba tolerant soybeans in 2018? YES = 1	xxxx
31. As far as you are aware, did farmers in your county plant dicamba tolerant soybeans in 2018? YES = 1	XXXX

30. Have any of the following herbicides been used since 2014?

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	2018 Yes=1	2017 Yes=1	2016 Yes=1	2015 Yes=1	2014 Yes=1
Glyphosate					
Glufosinate					
Dicamba					
2, 4-D					
Sulfonylurea (STS) (soybean)					

	E Contraction	- 36 -			E .	
						CODE
31. Have herbicide to	lerant seeds been pla	unted on this field any ti	me since 2014:			
	· .				YES = 1	
[If item 26= YES, contir	nue. If item 26 = NO, g	to item 30.]				
-						ectiveness of the is field, did you
	Have you noticed a decline in the effectiveness of herbicides in controlling weeds in this particular field?Yes=1	What was the first year you noticed a decline in the effectiveness of herbicides in controlling weeds in this field?	stop planting herbicide resistant crops with this trait? Yes=1	Change ti practice Yes=2	s?	Switch to an alternative herbicide? Yes=1
Glyphosate						
Glufosinate						
Dicamba						
2, 4-D						
Sulfonylurea (STS) (soybean)						

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32. Considering each year you planted a glyphosate resistant 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 2 Every Other Year 3 Multiple Years 4 One Year	4 Did the cost of managing weeds on this field increase as a result of your use of the practice?
		YES = 1	CODE	CODE
a.	Control weeds early	0886	2871	0878
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 cultivation	0890	2875	0882
f.	Use the herbicide label recommended application rate	0891	2876	0883
g.	Rotate crops	0892	2877	0884

[If item 27 column 2 contains at least one "1", ask: otherwise go to item 29.]

33. 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

 Completion Code for Pest Management Data

 1 Incomplete/Refusal
 0500



FIELD OPERATIONS--SELECTED FIELD

Including custom operations, I need to list field work performed 1. by machines on this field for the 2018 soybean crop. Please... CHECK LIST ▶ begin with the first field operation after harvest of previous crop, Include all field work using machines for--including operations for a cover crop established since the previous crop harvested [if fallow during 2017, list operations starting Land Forming/Levee Building with fall 2016]; Tillage Preparing for Irrigation list the operations in order through harvest and hauling of this crop ► to storage or first point of sale; and Planting Fertilizer & Pesticide applications maintain the order of tandem hook-ups. Harvesting & Hauling (grain & straw) **CODES FOR COLUMN 5** to storage or first point of sale You (the Operator) 1 Exclude 2 Partner OFFICE USE 3 Unpaid Worker Lime & Gypsum/landplaster applications LINES IN TABLE Paid Part-time or Seasonal Worker 4 Compost & Non-Commercial Manure 0499 5 Paid Full-time Worker applications **Custom Applicator** 6 [IF CUSTOM (column 5 = code 6), skip columns 6-11] 2 3 4 5 6 OR 10 11 8 9 [Record What Who was What [Record size How How many Which Power What was machine operation or the was the unit code.] TOTAL the fuel Source manv code SE machine size or equipment acres HOURS was used? 1/ type of the from 1 Feet was used? operatorswath tractor? Respondent were spent were Row QUENCE of the [Enter Booklet.] 3 Moldboard covered? on land Tractors: [machine] code forming, or L (bottoms) [Record fuel 1= (<40 HP) from used? L [Exclude hauling? 2= (40-99 HP) type only if above.] Ν Hauling land forming [Example. 3= (100-149 HP) Power code Е 4 Pounds backhoes, disk 4= (150-199 HP) and equals 1-5] 5 Bushels 6 Tons border maker. 5= (>=200 HP) hauling ditcher, rear Other: operations] mounted 1=diesel 66=Animal Drawn blade, trucks. 2=gasoline 77=Pick-up wadons 3=LP gas 99=Self Propelled forklifts, etc.] 4=other 1/ CODE CODE CODE ACRES HOURS CODE No. No. CODE 95 91 87 88 89 90 92 93 94 01 90 91 87 88 89 92 93 94 95 02 88 89 90 91 92 95 87 93 94 03 87 88 89 ٩N 91 92 93 94 95 04 87 88 89 90 91 92 93 94 95 05 95 87 88 89 90 91 92 93 94 06 95 07 87 88 89 90 91 92 93 94 90 87 88 89 91 92 93 94 95 08 95 87 88 89 90 91 92 93 94 09 95 90 91 87 88 89 92 93 94 10 95 91 87 88 89 90 92 93 94 11 ٩N 95 87 88 89 91 92 93 94 12 87 88 89 90 91 92 93 94 95 13 95 87 88 89 90 91 92 93 94 14 95 87 88 89 90 91 92 93 94 15 90 87 88 89 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

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

OFFICE USE

0400

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Please report the paid and unpaid labor that worked on this field to produce the 2018 soybean crop. (Exclude labor that was reported for field work performed by machines.)

	How many total hours did (type of worker) spend on this field				
	1 2 3				
	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 (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 on this field? (<i>Exclude</i> custom and contract workers, payroll taxes and benefits.)	
	DOLLARS & CENTS PER HOUR
4. What was the average hourly wage rate paid to full-time hired workers on this field? (<i>Exclude</i> custom and contract workers, pavroll taxes and benefits.)	
	CODE
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? (<i>Include</i> operator, <i>landlord</i> , <i>and contractor costs</i> .)	
	PERCENT
6. What percent of the total number of unpaid hours worked on this field was performed by	1120

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.) -36-

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7. Now I need some information on how much was spent (or will be spent) for custom services used on this field for the 2018 soybean crop.

F

	1	
	CUSTOM SERVICE Which of the following services were performed for the 2018 soybean crop on this field?	2 Including operator, landlord, and contractor costs, how much was spent for [column 1] on this field for the 2018 soybean crop?
✓	\leftarrow [Check box for each service performed; refer to item 1 if necessary.]	DOLLARS & CENTS PER ACRE
		1121
	a. Custom land preparation and/or shaping?	·
_		1122
	b. Custom cultivating?	·
	a Custom planting and/or recording?	1123
	c. Custom planting and/or reseeding?	· ·
	d. Custom harvesting?	1124
	e. Custom hauling to storage or point of first sale?	· · 1126
	× ÷ =	
	(Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre)	· · 1127
	Custom harvesting and hauling from field to storage or point of first sale?	1127
	(Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre)	·
	Custom raking, baling, and hauling the straw from this field	1128
	(Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre)	·
		CODE
	Were the soybeans harvested and hauled from this field dried (or will be dried) before	1195
	being sold or stored?	YES = 1
9.	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?	YES = 1 1129
	b. Soil or tissue sample collection?	YES = 1
	c. Pest control recommendations/management service?	YES = 1
	d. Pest scouting?	YES = 1
	e. Irrigation management service (<i>i.e. irrigation scheduling</i>)?	YES = 1
	f. Yield map or remote sensing map development/interpretation?	YES = 1
	g. Other custom or technical service? [Specify:]	YES = 1

		-36-			
10.		ord, and contractor costs. Exclude cost of	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
		orted earlier. Do not report costs for any of ly reported as part of the costs of materials			1137
				-	CODE
11.	Were there (or will there be) any day	tta collection tools (yield monitors, GPS ma	apping, etc.)	= 1	2460

11. Were there (or will there be) any data collection tools used during field operations on this sovbean

[If YES, continue; else go to Item 12]

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. (In the fifth column, report how much it would cost you to replace the data collection tool. In the sixth column, report the annual costs of using the data collection tool. Include custom service fees, data subscriptions, and online tool subscriptions. If the replacement cost or annual fee does not apply to a particular data collection tool, leave that row blank.)

	1	2	3	4	5	6
	Data Collection Tool	Tool Used	Collected with GPS	Data was/will be used to create a map	Replacement Cost	Annual Fee
		YES = 1	YES = 1	Yes = 1	Total Dollars	Total Dollars
a.	Yield monitor.	2461	2462	2463		
b.	Soil tests on core sample (performed on-farm or sent out to a laboratory)	2464	2465	2466		
C.	Soil sensor tests.	2467	2468	2469		
d.	Hard-wired crop condition sensors	2470	2471	2472		
e.	Wireless crop condition sensors	2473	2474	2475		
f.	Drones, aircraft or satellites	2476	2477	2478		
g.	Custom service applications (data from completed work on your field)	2479	2480	2481		
h.	Public data downloaded from online sources	2482	2483	2484		

Please report how your farm data will be stored and accessed. [Enter code "1" for all that apply.] 12.

a.	Did you access the data collected from 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 item	12b = 1 continue, otherwise go to item 13]		
C.	Did you opt-out of allowing your agricultural technology provider website to share data collected from this field with any third	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

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

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

[If crop management recommendations were obtained, ask]	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
e. What was the cost for all of these services? (Include operator, landlord, and contractor costs. Do not report costs for any of these services if they were previously reported as part of the costs of materials and/or application).	3150 ·		3151

14. Did you use the yield monitor information to--- [Enter code "1" for all that apply.]

⊢

(i) monitor crop moisture content to determine need for crop drying?	···· YES = 1	1140
(ii) add/improve tile drainage?	YES = 1	1141
(iii) negotiate new crop leases?		1144
(iv) Help determine input use for management zones?		
	YES = 1	1147

15. Was any of the following GPS-enabled (Global Positioning System) equipment used to produce crops on this field? [Enter code "1" for all that apply.]

a.	Light Bar?	YES = 1	2148
b.	"Smart" technologies like Google Glass or other heads-up cab control displays?	YES = 1	2149
C.	Other GPS-enabled equipment?	YES = 1	1158
d.	Any farming-specific apps for phones and tablets?	YES = 1	1152

CODE

[If GPS-enabled, ask]	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
e. What was the cost to purchase and install all GPS-enabled equipment? (Include cost for GPS receiver and annual GPS subscription fee, and operator, landlord, and contractor costs. Do not report costs for any of this equipment if they were previously reported as part of the costs of materials and/or application.)			

16. Was guidance auto-steering (excluding Light Bar) u	ised on this field?YES = 1	CODE
[lf 16=1, ask]		
a Was the guidance auto-steering equipment:	1 New 2 Used 3 Leased	
		YEAR

	-36-	►	
b.	What year was guidance auto-steering first purchased?		
		DOLLARS & CENTS PER ACRE OR TO	
С.	What is the replacement cost for guidance auto-steering equipment?	·	
		DOLLARS & CENTS PER ACRE OR	TOTAL DOLLARS
	d. What is the annual fee for guidance auto-steering?	······	
			CODE
17. Wa	s a variable rate applicator used on this field?		

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

⊢

Please report the variable rate applicator types you used on this field to produce this crop. If a particular row's variable rate applicator was not used, leave that row blank.

1	2	3	4	5
Was a variable rate applicator used on this field for:	Was this applicator 1 Sensor- based 2 GPS-based 3 Both 4 Neither	Was this applicator 1 New 2 Used 3 Leased	What year was the applicator First used?	Premium paid for the applicator
	4 Neither		Year	Total dollars
a. Seeding				
b. Fertilizer/lime applications				
c. Pesticide applications				

		- 36 -	-					
G		IRRIGATION		G				
				ACRES				
1.	How many acres in this field were irrigate [If none, go to Conclusion]			1160				
2.								
	\downarrow		UNIT	SYSTEM 1				
	 a. What type(s) of irrigation system(s) was this field? [Show System Type Codes in System Type Code for up to two systems co acres.]. 	n the Respondent Booklet. Enter overing the most field	SYSTEM TYPE CODE	1161				
			INCHES PER ACRE	1162				
	b. What was the total quantity of water appl the entire growing season? (<i>Include</i> AL farm sources.)	L water used from both on-farm and off-	OR TOTAL ACRE-FEET	1163				
	[If operator cannot provide item 2b, ask ((i) & (ii), else go to 2c]						
	(i) What is the total number of hours th apply water to this field during the so		TOTAL HOURS	1164				
	(ii) How many gallons per minute were a	GALLONS PER MINUTE	1165					
	c. What percent of the water used to irrigate system came from surface water sources		PERCENT	1166				
	 d. What was the number of times this field was irrigated during the soybean growing season using this system? (<i>Include any pre-plant irrigation.</i>). 			1167				
	e. Was the pump type	enter 1 TURBINE? 2 SUBMERSIBLE? 3 CENTRIFUGAL? 4 BOOSTER? 5 SIPHON? 99 NO PUMP? [If code 99, go to item j.]	CODE	1168				
	f. What was the average pumping rate?		GALLONS PER MINUTE	1169				
	g. [<i>If item 2a = code 1-9</i> (PRESSURE SYS' What was the system operating pressure		POUNDS PER SQUARE INCH	1170				
	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				
	i. What was the average motor size?		HORSEPOWER	1172				
	j. [<i>If NO PUMP was used</i> (item 2e = 99), a. What was the average flow rate?		GALLONS PER MINUTE	1173				
	k. How many other acres on this operation system during the 2018 growing season? <i>field</i> .).	were irrigated using this field's irrigation <i>(Exclude this</i>)	ACRES	1174				

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

⊢

	-36-	
4.	Was any water purchased to irrigate this field? (<i>Include landlord's share and purchases from all sources.</i>)	CODE
	YES – [Enter code 1 and continue.] NO – [Go to item 5.].	
	a. What was the total cost for the water purchased for this field DOLLARS & CENTS	OR TOTAL DOLLARS
	during the 2018 growing season? (Include operator, landlord, and contractor costs and ditch maintenance costs for this field.). 1193	1194
[<i>If</i> \$	SIPHON TUBES were used (item 2a = 10 or 11), ask]	TOTAL DOLLARS
5.	What would be the total cost to replace all the siphon tubes used on this field?	1201
[If F	POLY PIPE system was used (item 2a = 14) ask]	TOTAL DOLLARS
6.	What was the total amount spent for poly pipe used on this field during the2018 growing season? (Include operator, landlord, and contractor costs.).	1202
[<i>lf</i> (GATED PIPE system was used (item 2a = 15 or 16), ask]	INCHES
7.	What was the average diameter of gated pipe used to irrigate this field?	1203
		FEET
	a. What was the total length of gated pipe used?	1204
0	Were wells used to supply irrigation water for this field?	CODE
о.	Were wells used to supply irrigation water for this field? YES – [Enter code 1 and continue] NO – [Go to item 9]	1205
		NUMBER
	a. How many wells were used to irrigate this field?	1206
		INCHES
	b. What was the average diameter of the outer well casing?	1207
	c. What was the average pumping depth of these wells during the irrigation season?	FEET
	[Pumping depth is the depth to water at the start of the irrigation season, plus an average decline in the water level caused by pumping during the irrigation season.]	1208
	d. Were other fields irrigated using water pumped from wells that supplied water to the selected field?	CODE
	$\square YES – [Enter code 1 and continue] \square NO – [Go to item 9]$	1210
	 Evaluating this field, how many other cares on this operation were interacted. 	ACRES
	e. Excluding this field, how many other acres on this operation were irrigated using the same wells during the 2018 growing season?	1211
9.	Was any additional mainline or lateral pipe used to carry water from the source to the system in this field? (<i>Include</i> underground pipe. <i>Exclude</i> any system pipe within the selected field	d.)
	$\Box $ YES – [Continue] $\Box $ NO – [Go to Conclusion]	
		INCHES
	a. What was the average diameter (<i>in inches</i>) of the most common type of this additional pipe used?	1212

		FEET
	1213	

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

NOTES

F

F

F





9985

9900

F

CONCLUSION

LO	CATION	OF SELEC	TED FIELD										
1.	l need map.	to locate th	e selected fie	ld of soybear	n on thi	s 		COUNTY	NAME		C		ICE USE / FIPS CODE
2.	What c in?		e selected so	ybean field							0	010	
	Field d	escription.											
						L	ATITUDE		7		LON	GITUDE	
	Field Lo	ocation			N 0054			·	w	0055		_ .	·
						d d	m m	S S		d d	d d	m n	nss
3.	[ENUM	ERATOR A		r map to indica ure the "X" ma									
4.				ation to comp call you then							,		
5.	To rec	eive the cor	nplete results	s of this surve	ev on th	ne relea	se date	. ao to					CODE
0.	www.n	ass.usda.g	ov/results/. V	Vould you rat	her hav	/e a bri	ef sumn	nary				9990	
	mailed	to you at a	later date?							YES	5 = 1		
											г	ŀ	н мм
c												0005	
6.	ENDIN										••••		
RE	CORDS	USE											
7.	[Did res	spondent us	e farm/ranch r	ecords to repo	rt]								CODE
	-			-	-						[0011	
	a. [fe i	r tilizer data'	?]							YES	6 = 1		
	h fran	-tioide dete	.01									0012	
	b. [pe	sticide data	<i>[?</i>]							YES	5 = 1	0010	
	c. [<i>ma</i>	aioritv of this	expense data	a?]						YES	5 = 1	0013	
SU	-	ENTS USER	•								[N	UMBER
8.	[Record	d the total nu	umber of each	type of question	onnaire	supple	ment			FERTILIZ	ER	0041	-
	useu lo	complete ti	iis iiiteiview.j.		• • • • • •						t	0042	
										PESTICII APPLICATI		0042	
										FIELD OPERATIO	ONS	0043	
						9910			9911				
Re	ported b	IV:						10					
		J				M		18	Teler	ohone: ()		
					OF	FICE USI	=						
F	R. Unit	Ptr 1 Str	Ptr 2 Str	Ptr 3 Str	Ptr 4		OPS	S	SO 1	ADJ		Optio	nal Use
9921	L	9922	9923	9927	9928	ç	923	9907		922	990	6	9916
	Res	ponse	 Resn	ondent		Mode		Fn	um.		P	DID	l
1-Cc 2-R 3-Ina 4-Of	omp	9901	1-Op/Mgr 2-Sp 3-Acct/Bkpr 4-Partner	9902	2-PATI (` 3-PAPI (I	Tel)	9903	9998		9989			
			9-Other							Eval.		(Change