AGRICULTURAL RESOURCE MANAGEMENT SURVEY

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

Phone: 1-800-727-9540 Fax: 314-595-9990

E-mail: nass@nass.usda.gov

SOYBEAN PRODUCTION PRACTICES AND COSTS REPORT FOR 2023

VERSION				ID		TRACT	SUBTRA	CT	C-TYPE		
7					01		_	120			
Γ											
			1	CONTAC	TREC						
DATE	TIME					NO	ΓES				
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			1								
INTRODUCTIO [Introduce yourse		for th	e opera	ator. Rephrase in your ow	n words	s.]					
person who will both. This surve Public Law 107-	fully disclo by is condu 347 and o	ses / cted ther	ANY ide in acc applica	sed for statistical purp entifiable information a ordance with the Confi able Federal laws. For r identiality. Response is	bout y dentia nore ir	rou or your I Information nformation	operation on Protect on how w	ission period	ubject to a jorovisions o otect your i	jail of Ti nfoi	term, a fine, or tle V, Subtitle A, rmation please
We encourage y	ou to refer t	o you	r farm r	ecords during the interviev	w.						
		ннм	I M	1						-	SCREENING BOX
BEGINNING T [MILITARY]											0006
[Name, add	ress and p	artne	ers veri	fied and updated if nece	essary]					
POID					POII	D					
PARTNER NAME					PART	NER NAME					
ADDRESS					ADDR	RESS					
CITY	STA	ATE	ZIP	PHONE NUMBER	CITY		STA	TE	ZIP	PH	IONE NUMBER
POID					POII	D					
PARTNER NAME					PART	NER NAME					
ADDRESS					ADDR	RESS					
CITY	STA	ATE	ZIP	PHONE NUMBER	CITY		STA	TE	ZIP	PH	IONE NUMBER
ccording 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 formation 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 2023 crop year? [If no acres planted, review Screening Survey Information Form, make notes, then go to item 4 on back page]	0050
2.	I will follow a simple procedure to make a random selection from the soybean fields planted for the 2023 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
_	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.]

FIFI D	NAME	NUMBER	OR	DESCRIP	TION
		INCINDEIX	\mathbf{v}	DESCINI	LICIN

FIELD NAME, NUMBER OR DESCRIPTION

1	10
2	_11
3	12
4	13
5	14
6	15
7	16
8	17
9	18

APPLY "RANDOM NUMBER" LABEL HERE

4.	[EN	IUMERATOR ACTION: Circle the pair of numbers on the above label associated with	SELECTED FIELD NUMBER	
		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	e field selected is (field name/number/description).		
J.				
		ring this interview, the soybean questions will be about this selected soybean field. sure the operator can identify the selected field.]		
6.	Fo	or 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 Substituted	

		ACRES			
1.	How many acres of soybeans did this operation plant in this field for the 2023 crop?	1301 			
		CODE			
	a. Are the acres in this field CERTIFIED ORGANIC ?	1300			
	[If YES , skip 1b and ask item 2.]				
		1399			
	b. Was this field transitioning into organic soybean production in 2023? YES = 1				
	[CODE			
2.	Were the acres in this field 2 owned by this operation? 2 rented for CASH with the payment being a fixed cash amount?	1302			
	3 rented for CASH with the payment being a flexible cash				
	amount? 4 rented for a SHARE of the crop?				
	5 rented for some combination of CASH and SHARE of the crop? 6 used RENT FREE?				
		DOLLARS &			
3.	[If field is CASH RENTED (item 2 = 2, 3 or 5), ask item 3, else go to item 4.]	CENTS PER ACRE			
	What was the cash rent paid per acre for this 2023 soybean field?	1303			
		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]				
	What was the total cost for all inputs provided by any landlord for the 2023 crop on the selected field? (Include the costs for all inputs, such as PER ACRE OR	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			
	Tanderment, in the second seco				
6.	What was the total cost for all inputs provided by any contractor for DOLLARS & CENTS	TOTAL			
•	the 2023 crop on the selected field? (Include the costs for all inputs,	DOLLARS			
	such as seed, fertilizer, chemicals, technical services, custom operations, drying and irrigation.)	1310			
		YEAR			
_	Miles Assessed Miles and Color of the Color	1312			
1.	What year did you (the operator listed on the label) start operating this field?	MM DD YY			
_		1308			
8.	On what date was this field planted?				
	1 Animal Feed? 2 Human Consumption?				
	a. What was the intended purpose for the 3 Seed? 4 Unknown (Delivered to elevator/grain broker)				
		1307			
	_	BUSHELS PER ACRE			
	h What was your yield goal at planting for this field?	1311			

b. Write the seed treatment product name in the box provided.....

•

XXXX

2022

15. Did the SOYBEAN planted on this field have any of the following traits in 2023 or 2022?

a. Herbicide-resistant seed variety with sulfonylurea tolerance.....

b. Nematode-resistant seed variety with cyst nematode resistance

c. Disease-resistant seed variety with root-rot tolerance

d. Insect-resistant seed variety with aphid resistance

2023 YES = 1	YES = 1
2501	2502
2509	2510
2511	2512
2513	2514

16. Did the SOYBEAN planted on this field have any of the following GMO/GE seed traits in 2023 or 2022? --

- 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

2023 YES = 1	2022 YES = 1
2501	2502
2509	2510
2511	2512
2513	2514

		3062
17. For the 2023 soybean crop, did you plant a commercial seed product?	YES = 1	

[If item 27 is yes, ask--]

CODE

 a. List the name of the seed product. Enter the appropriate product code from the Respondent Booklet (Page xx)

(enter 999 if a seed product was purchased but the product is not listed).....

2325

[If item 27a is 999, ask--]

Seed Treatment Product Name

CODE

b. Write the seed product name in the box provided......

XXXX

						CODE	-		
18.	thr	ere the soybeans from this field sold (or wire the soybeans from this field sold (or wire the sough a market specifically for non-genetic ybeans?		Ye	s=1				
	a.	[If item 23 = YES, ask]			CE	OLLARS & ENTS PER BUSHEL			
		What was the price premium (or the expect received for these non-genetically modified soybean	•	•	,	•			
19. I	Has	harvest of this field been completed?					Yes=1	1328	
	a.	harvested for grain or ଥିର ୍ୟ Now I need information about the acr	1346 es harvested (or	1347 to be hai	vested)	1348 and the v	rields fro	om this	
	-	field.				TO			
						1	;	2	
	b.	harvested for commercial thee soybean field	were (or will be)	1432	acre did	ield per 1433 I you (or	_	CODE Pounds	
	c.	abandoned?	1351		get	xpect to) for	3	CWT Tons	
			ACF	RES	soyb	eans		Bushels	

	CROP CODE LIST for item 21 - PREVIOUSLY PLANTED CROPS										
190	Barley	Grasses, including clover	22	Rye	318	No crop planted					
6	6 Corn for grain 1 Hay, alfalfa		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	302 CRP 21 Rice				Wheat, winter						

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

a.	SPRING/SUMMER of 2023?	Soybeans	26	XXX			xxx	XXX
a.	FALL of 2022?		1343	xxx	1470	1471	2344	1345
b.	SPRING/SUMMER of		1369	xxx	1472	1473	2370	1371
C.	FALL of 2021?		1372	xxx	1474	1475	2373	1374
d.	SPRING/SUMMER of 2021?		1375	xxx	1476	1477	2376	1377
e.	FALL of 2020?		1378	xxx	1478	1479	2379	1380
f.	SPRING/SUMMER of 2020?		1381	xxx	1480	1481	2382	1383
g.	FALL of 2019?		1366	xxx	1482	1483	2367	1368
h.	SPRING/SUMMER of 2019?		1340	xxx	1484	1485	2341	1342

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

i.	[If a cover crop was planted in Spring/Summer/Fall 2022, ask—	DOLLARS & CENTS PER ACRE
	What was the seed cost per acre for the cover crop?	1468
i.	What was the per-acre total of all cost-share or financial assistance payments received	

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

for the cover crop (if any)?

22. Is any part of this field been classification highly erodible is subject to highly erodible producers who receive farm program a soil conservation plan, prepared in accession standards.)	lible land payments	I conservation (HE s are required to h	ELC) req	uirements		YES = 1	CODE
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.)							1405
		y level (0 - 2%)	00/)]		_	CODE
24. What is the slope of this field?	Varia Even	, moderate grade (3 ble, moderate grade , steep grade (over ble, steep grade	9			2	2400
25. What is the primary soil type of this field?	Loam Clay Sand					2	CODE 2401
26. Which of the following resource Conc	erns do	you have on this	Have you from evaluated up to	any of the fole this resources 3 sources t assistance	,	s to Report	CODE
27. Did the Rand Use practices for this fie	برام الماري	do oubourfood de	1 2	USDA – NR Cooperative	Extension Ser	rvice	2402
[If YES, ask]	eia inciu	CODE		Forest Serv	ice	·	YEAR
[11 123, 431]			4	Conservation	Soil and Water on District, state		2403
a. In what year was the subsurface dra	ainage in			agency)			
a. Water driven erasion		YES = 1		urce 1	Source 2427	2	INCHES
a. Water-driven erosionb. What is the average width (space beb. White by the beautiful of the beautiful	etween r	ows) of your drain	age sys	tem?	2428		XXXX
cc. Swhapisplactibameter of your tiles?		2409	2419		2429		2605
d. Poor drainage		2410	2420		2430		
e. Low organic matterd. On average, how many hours does f. Water High theavy storm?:::::::	it take vo	2411 Our field to return t	2421 0 norma 2422	ıl soil mois	2431 ture levels		HOURS 2606
ge. Other anschude a mechan h. North and the control of the contr	ism for c	_	2423 (e.g. st	op logs, ris	2433 sers, or		2406
		I					

28. Have	e you ever applied fo	or conservation t	funding, throu	gh any Federal	, State, or local
program	n, for this field?				
[If item 28	8=1, go to Item 29 it	not, skip to item :	33.1		

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)

a. Environmental Quality Incentives Program	1=current, 2=past, 3=never
b. Conservation Stewardship Program	1=current, 2=past, 3=never
c. Conservation Reserve Program	1=current, 2=past, 3=never
d. Other Federal, State, Local or non-government source 1	L=current, 2=past, 3=never

	Conservation Practice/Conservation Plan List for question 31										
328 Conservation Crop		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.

2

2

4

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 2023?
Technical or planning assistance?
Financial assistance?
Does this practice or plan help satisfy?

2

3

USDA including funding of Technical Service Providers

Other Sources of Outside Assistance

No Assistance Needed

2

3

4

5

EQIP

CSP

CRP

Other Federal, State, and Local Programs

No Assistance Needed

2

3

A federal regulatory requirement?

USDA conservation compliance provisions?

Does not relate to any regulation or compliance requirement.

CODE YES = 1 CODE CODE CODE

0706

0726 0736 0746

0707 0727

0737

0747

0708 0728

0738 0748

0709

-8-

		CODE					
32.	Was the soybean in this field covered by private crop insurance in 2023? (hail, wind, freeze, etc.) \dots YES = 1	2520					
	[If YES, ask]	DOLLARS & CENTS PER ACRE					
	a. What was the dollar amount of coverage per acre for the private insurance policy covering this field?.	2521					
		PERCENT					
	b. What was the percent deductible for the private insurance policy covering this field? (Record no deductible as 0%.)						
		DOLLARS & CENTS PER ACRE					
	c. What premium cost per acre did you pay for the private insurance policy covering this field?	2523 •					
	d. Did you (<i>or will you</i>) collect an indemnity payment for this field from private crop insurance during 2023?	1394					
33.	Was the soybean in this field covered by Federal Crop Insurance in 2023?	CODE					
	☐ YES – [Enter code 1 and continue.] ☐ NO – [Go to Section C.]	1385					
	a. Which coverage did you obtain? 1 Federal CAT (Basic catastrophic insurance) 2 Yield based (Individual) 3 Yield plus SCO (Supplemental Coverage Option) 4 Revenue based (Individual) 5 Revenue plus SCO (Supplemental Coverage Option) 6 Other Federal Crop insurance	CODE 1386					
	[If item 40a = 2 or 3, ask]	PERCENT					
	What yield level did you select for your buy-up coverage for this field?	1387					
	What price level did you select for your buy-up coverage for this field?	1388					
	[If item 40a = 4 or 5, ask]	PERCENT					
	What was the level of revenue coverage you obtained for this field?	1389					
	b. What type of unit coverage did you purchase for this field? (Basic = 1, Optional = 2, Enterprise = 3)	CODE					
С	In what year did you (the operator listed on the label) first enroll this field in the Federal crop insurance program?	YEAR					
	d. What is the 2023 Approved APH (actual production history) yield for this field?	BUSHELS PER ACRE					
	e. What was the premium paid for Federal crop insurance for this field in 2023? (Exclude any sign-up fee.)	DOLLARS & CENTS PER ACRE					
f.	Did you (or will you) collect an indemnity payment for this field	CODE Voc - 1					

		CODE	EDIT TABLE
1.	Were commercial nutrients or fertilizers applied to this field for the 2023 soybeans crop? (Include those from operators, landlords, and contractors.)	0202	0200
	[If COMMERCIAL nutrient or fertilizer applied, continue; else go to Section D.]		NUMBER
2.	How many commercial nutrient or fertilizer applications were made to this field for the 2023 crop? (Include applications made by airplanes and custom applicators		0203

3. Now I need to record information for each application.

į	CHEC	CKLIST			
¦✓	INCLUDE	€XCLUDE			
¦□	Custom applied nutrients or fertilizers	Micronutrients			
	Nutrients or fertilizers applied in the fall of 2022 and those applied earlier if this field was fallow in 2022	Unprocessed manure Nutrients or fertilizers applied to previous crops in this field			
	Commercially prepared manure or compost	Lime and gypsum/landplaster	OFFICE USE LINES IN TABLE	TABLE 001	0299

APPLICATION CODES for COLUMN 6

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

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

	2			3	4	5	6	7	
L	MATERIALS USED				What quantity was applied	[Enter material	When was this applied?	How was	How many acres were
N E	[Enter percentage analysis or actu pounds of plant nutrients applied per a [Show Common Nutrients or Fertiliz in Respondent Booklet.]		r acre.]	per acre? [Leave this column blank if actual pounds of nutrients	code.] 1 Pounds 12 Gallons 19 Pounds of actual	1 In the fall before seeding 2 In the spring before seeding	applied? [Refer to code list above.]	treated in this application?	
	N Nitrogen	P ₂ O ₅ Phosphate	K₂O Potash	S Sulfur	were reported.]	nutrients	3 At seeding 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

4.	We	re any nutrients or fertilizers applied by custom applicators?		
		YES - [Continue] NO - [Go to item 5]		
	a.	Are you able to report the cost of nutrient or fertilizer materials and		OFFICE USE
		custom application separately?	0215	5
		YES - [Continue] NO - [Go to item 5]		
	b.	Excluding the cost of the nutrient or fertilizer materials, how much was spent for custom application of nutrients or fertilizers on this field? (Include operator, landlord, and contractor costs. Include costs PER ACRE OR	то	TAL DOLLARS
		for sulfur and micronutrients. Exclude custom application of lime, gypsum, purchased manure and purchased compost.) [If material 0219	0220	
		and application costs can't be separated, exclude them here and		
5.	ap we this	nat was the TOTAL COST of all nutrient or fertilizer products plied to this field? (Include operator, landlord, and contractor costs, as Il as the costs for sulfur and micronutrients. Include materials applied to s field if it was fallow in 2022. Exclude lime, gypsum, purchased manure PER ACRE OR		TAL DOLLARS
	sep	d purchased compost.) . [If custom applied and the cost of material can be parated from application costs, include the cost of materials ONLY;	022	2
	oth	erwise, include both the material and application costs.]		
				CODE
			0218	3
6.	Wa	us gypsum applied to this field for the 2023 soybeans crop? YES = 1		
٠.				CODE
7.	Wa in	as a soil test for Soil Organic Matter performed on this soybeans field at some point the last 10 years?	3225	
	[If	item 7 = 1, ask]		PERCENT
	а	What was the percentage of Soil Organic Matter on the field for the most recent test?	3226	5
	u.	What was the personage of confergation matter of the float for the most resent test		
			000	NUMBER
	b.	How many times have you tested this field for Soil Organic Matter in the last ten years?	3227	,
	[If it	em 7b is more than 1 ask]		CODE
	C.	Based on these tests, is your Soil Organic Matter content: 1 Increasing 2 Decreasing 3 Staying roughly the same	3228	3
	8.	Was a soil or plant tissue test performed on this soybeans field in 2022 or 2023 for the 2023 crop?		
		YES [Continue.] NO [Go to item 13.]		
				CODE
	9.	Was a soil test for phosphorus performed on this soybeans field in 2022 or 2023 for the 2023 crop?	= 1	0225
		[If item 9 = 1, ask]	-	POUNDS PER ACRE
		a. How many pounds of phosphorus (per acre) were recommended (by the phosphorus test)?		0226
		The state of the s	٠٠.	

CODE

10. Wa	as a soil test for nitrogen performed on this soybeans field in 2022 of 23 crop?	2023 for the		0227
	•		YES =	1
[If	item10 = 1, ask]			POUNDS PER ACRE
a.	How many pounds of nitrogen (per acre) were recommended (by the nitr	ogen test)?		0228
		,		
				CODE
	as a plant tissue test or leaf analysis for nutrient deficiency performe 2022 or 2023 for the 2023 crop?		YES = 1	0229 L
		DOLLARS & CENT	s OR	TOTAL DOLLARS
or	ow much was spent for these soil and plant tissue tests this field in 2022 or 2023 for the 2023 crop? [Include landlord and contractor costs.]	0230		0231
F16 4 4	and the second and th			
[II lesis i	were done at no cost continue, otherwise go to Item 12b.] 1 Soil/plant tissue test provid	led free of charge by	\neg	CODE
a.	What is the reason why tests were done dealer, crop consultant, or	extension service.		0232
	at no cost?	were included in the d in item 5.		
b.	3 Some other reason. Did you receive a payment from the Conservation Stewardship Program a stalk or leaf tissue test for nitrogen application?		YES =	3231 1
[ENUM	MERATOR ACTION: Refer to the Fertilizer Table, column 2. If nitrogen (Notes to the Complete item 13. If NO nitrogen applied, go to item 1.			
13. W a	as the amount of nitrogen you decided to apply to this field based on			CODE
a.	Results of a soil or plant tissue test?		YES =	0233
b.	Crop consultant recommendation?		YES =	0234
C.	Fertilizer dealer recommendation?		YES =	0235
d.	Extension Service recommendation?			0236
				0237
e.	Cost of nitrogen and/or expected commodity price?		YES =	0238
f.	Contractor recommendation?		YES =	
g.	Routine practice (operator's own determination based on past experience, vield goal, etc.)?		YES =	0239
h.	[If nitrogen inhibitors were used, continue; else go to item 14.]	POUNDS PER ACRE	0	GALLONS R PER ACRE
	How much nitrogen inhibitor did you mix with the nitrogen applied to this field?	2561		2562

				CODE
			0242	-
14.	IS I	lime ever applied to this field?		
[If I	no lii	me applied, go to item 15; else continue.]		YEARS
	a.	On average, how many years are there between applications of lime to this field?	0243	1
	b.	How many tons of lime were applied per acre the last time it was applied to this field?	TO!	NS PER ACRE
	٠.	The state of the control approaches and the state and approaches and the state of t		CODE
			0240	
	C.	Was lime applied to this field in 2022 or 2023 for the 2023 crop? YES = 1		
15.		as non-commercial manure (from own farm, from a neighbor's farm, etc.) or other organic aterial (including compost) applied to this field for the 2023 soybeans crop? (Exclude		CODE
		mmercially prepared manure.)	0246	
		YES - [Fnter code 1 and continue] NO - [Go to item 17]		
				ACRES
	a.	How many acres in this field was manure or compost applied to?	0247	•
		b. What was the amount of manure or compost applied to this field? 1 Tons 2 Gallons 3 Bushels 4 Cubic Yards 1 Tons 2 Gallons 3 Dushels 4 Cubic Yards 1 Tons 2 GoDE 0248 0249 0249	OR	TOTAL UNITS
		Of the total manure or compost applied to this field for the 2023 crop, what was the percent of manure or compost applied	PE	ERCENT
		(i) in the fall before planting?	254	
		(ii) in the spring before planting? $+$	255	
		(iii) after planting? + [256	
			:	100%
		1 Lagoon liquid?		CODE
	d.	Was the manure or compost 2 Slurry liquid? 3 Semi-dry or dry?	257	
		Broadcast or sprayed <i>without</i> incorporation? Broadcast or sprayed <i>with</i>		CODE
	e.	Was the manure or compost	258	

1	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 (municipal sludge)? 8 Food waste? 9 Other? [Specify:] 			[COI 0259	DE
(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 				COI 0260	DE
[If it	em 15g = 2, ask]						
		(i) What was the total cost	of the purchased manure or compost		ARS & CENTS PER ACRE	OR	TOTAL D	OOLLARS
		applied to this field? (In	nclude operator, landlord, and contractor ment made for transportation costs.)		·		0200	
								ODE
		(ii) Did you hire someone t	to custom apply the manure or compost?		Y	'ES = 1	0286	
	[<i>If</i> `	YES, ask]						
	[If `	YES, ask]			ARS & CENTS PER ACRE	OR	TOTAL D	OOLLARS
	[If `	(a) What was the total of custom applied to the	cost paid to have manure or compost his field? [Do not report custom was included with the purchased manure			OR	TOTAL D 0288	DOLLARS
	[If `	(a) What was the total of custom applied to the application cost if it	nis field? [Do not report custom was included with the purchased manure			OR	0288	DOLLARS
	[[]	(a) What was the total of custom applied to the application cost if it cost.]	nis field? [Do not report custom was included with the purchased manure	0287	PER ACRE		0288	
	[<i>If</i> `	(a) What was the total of custom applied to the application cost if it cost.]	nis field? [Do not report custom was included with the purchased manure	0287	PER ACRE		0288 MII 0291	
	[<i>If</i> `	(a) What was the total of custom applied to the application cost if it cost.]	nis field? [Do not report custom was included with the purchased manure	nage/pro	oduction location		0288 MII 0291	LES
	h.	(a) What was the total of custom applied to the application cost if it cost.]	nis field? [Do not report custom was included with the purchased manure miles between the manure or compost sto applied to this field, was any tested for nut	rage/pro	oduction location	ı and	0288 MII 0291 CO 0261	LES
16.	- h.	(a) What was the total of custom applied to the application cost if it cost.]	nis field? [Do not report custom was included with the purchased manure miles between the manure or compost sto applied to this field, was any tested for nut	rage/pro	oduction location	ı and	0288 MII 0291 CO 0261	LES
16.	h. We	(a) What was the total of custom applied to the application cost if it cost.]	nis field? [Do not report custom was included with the purchased manure miles between the manure or compost sto applied to this field, was any tested for nut on RATES to this field influenced by F	rage/pro	oduction location	and	0288 MII 0291 CO 0261	LES
16.	h. Sta	(a) What was the total of custom applied to the application cost if it cost.]	nis field? [Do not report custom was included with the purchased manure miles between the manure or compost sto applied to this field, was any tested for nut on RATES to this field influenced by F	rage/pro	oduction location	and	0288 MII 0291 CO 0261 CC 0264	LES
16.	h. Sta	(a) What was the total of custom applied to the application cost if it cost.]	nis field? [Do not report custom was included with the purchased manure miles between the manure or compost sto applied to this field, was any tested for nut	rage/pro	oduction location ntent YE	and	0288 MII 0291 CO 0261	LES

D

BIOCONTROL or PESTICIDE APPLICATIONS---SELECTED FIELD

Now I have some questions about all the biocontrols or pesticides used on this field for the 2023 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 sovbean field for the 2023 crop?

 CODE
 EDIT TABLE

 0302
 0300

 YES = 1
 0300

insection	cides,	ngicides, herbicides and other pesticide botanical pesticid	es.	Exclud		fertilizers reported seed treatments.		FFICE USE LINES IN TABLE	: TAB		99
		2 What products were applied	pro bou	3 s this oduct ght in	4 Was this part of a tank mix?	5 When was this applied?	was	6 C much applied r acre	OR 7 What the t amo	otal unt	8 [Enter unit code.] 1 Pounds 12 Gallons
CHEMICAL PRODUCT NAME	L N E	to this field? [Show product codes from Respondent Booklet.]	fo	d or dry rm? r L or D]	[If tank mix, enter line number of first product in mix.]	BEFORE planting AT planting AFTER Planting		per cation?	applie applic in this	ation	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	65	•	73		74
	09	61			63	64	65	•	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		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

[ENUMERATOR NOTE:

Use these columns only if

TOTAL COST

(item 4 on next page)

cannot be provided.]

	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		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	77	79	80

OPTIONAL ITEM 4							
What was the cost per unit of the product?							
į	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						
81	82						
81	82						
81	82						
	82						
81 ·	82						
l ₈₁ ·— —	82						
81	82						
81	82						
81	82						
81	82						
81	82						
81	82						

3.	We	ere any chemicals, biocontrols, or pesticides applied by custom applicat	ors?		
		YES – [Continue] NO – [Go to item 4]			OFFICE USE
	a.	Are you able to report the cost of chemical, biocontrol, and pesticide product application separately?	ts and custom		0324
		☐ 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 field? (<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 22 fallow period. Exclude seed treatments.)	0334		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> , and contractor costs.)	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, landlord, and contractor costs.)	3036		3037
		1: If respondent cannot report TOTAL COST, itemize cost for each product i ide Table.	n optional columns	in E	Biocontrol or
		2: If custom applied and the costs for materials can be separated from applicals only. Otherwise, report both the material and application costs in item 4.	cation costs, include	e the	e cost for

E

Ε

Now I have some questions about your pest management decisions and practices used on this field for the 2023 soybean crop. By pests, we mean WEEDS, INSECTS, and DISEASES. [ENUMERATOR ACTION: Were PESTICIDE applications reported in Section D?] \square NO – [Go to item 6] ☐ **YES** – [Continue] CODE 0800 1. Was weather data used to assist in determining either the need or when to make pesticide applications? YES = 1 2. Were any biological pesticides such as Bt (Bacillus thuringiensis), insect growth regulators, neem or other natural/biological based products sprayed or applied to manage pests in this field? 0802 3. Were pesticides with different mechanisms of action rotated or tank mixed for the primary purpose of keeping pests from becoming resistant to pesticides? YES = 1 [ENUMERATOR ACTION: Were HERBICIDE (pesticide product codes 40000-49999) applications reported in Section D, item 1, column 2?] ☐ **YES** – [Continue] **NO** – [Go to item 6] 0803 4. Were herbicides applied to this soybean field BEFORE weeds emerged?..... **YES = 1** 5. Were herbicides applied to this soybean field AFTER weeds 0805 **YES = 1** CODE Were records kept for this field to track the activity or numbers of weeds, insects or 0823 **YES = 1** 0824 7. Did you use published information on infestation thresholds to determine when By deliberately going to the field specifically for scouting activities [Enter code 1 and go to item 9.] CODE 8. In 2023, how was this field 2 By conducting general observations while performing 8080 primarily scouted for insects, routine tasks [Enter code 2 and go to item 11.] weeds, diseases, and/or beneficial 3 This field was not scouted. organisms?..... [Enter code 3 and go to item 14.] 0809 9. Was an established scouting process (systematic sampling, recording counts, etc.) used **YES = 1** 10. Was scouting for pests done in this field due to---CODE 0810 a pest advisory warning?..... **YES = 1** 0811

b. a pest development model?....

1		2	3
		[If YES, ask] What was the infestation level for [column 1]?—	[If column 1 = YES, ask] Who did the majority of the scouting for [column 1]?
		1 Worse than normal 2 Normal 3 Less than normal	1 Operator, partner or family member 2 An employee 3 Farm supply or chemical dealer 4 Independent crop consultant or commercial scout
11. Was this soybean field scouted for	YES = 1	CODE	CODE
	0812	0813	0814
a. Weeds?			
	0815	0816	0817
b. Insects or mites?			
	0818	0819	0820
c. Diseases?			

	DOLLARS PER A		OR	TOTAL DOLLARS
2. How much was charged for the scouting services for this field? [Include operator, landlord and contractor cost.]		0822		
				OFFICE USE
a. [If scouting performed at no cost, explain:				0333
a. [If scouting performed at no cost, explain:				

14.	pui	you do any of the following other type(s) of pest management practices for the rpose of managing or reducing the spread of pests in this field?	specific	
	[=//	ter code "1" for all that apply.]		CODE
	a.	Use the services of a diagnostic laboratory for pest identification or soil plant tissue pest analysis for this field?	YES = 1	0841
	b.	Plow down crop residue (using conventional tillage)?	YES = 1	
	C.	Remove/burn down crop residue?	YES = 1	
	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	
	f.	Choose crop variety because of specific resistance to a certain pest?	YES = 1	
	g.	Use no-till or minimum till?	YES = 1	0848
	h.	Plan planting locations to avoid cross infestation of pests?	YES = 1	
	i.	Adjust planting or harvesting dates?	YES = 1	
	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	
	I.	Adjust row spacing, plant density or row directions?	YES = 1	0852
	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 la or did you take a buffer harvest?		0856
			YES = 1	
	p.	Use a flamer to kill weeds?	YES = 1	0857
	q.	Plant earlier or later to avoid weeds?	YES = 1	1
		re any beneficial organisms (insects, nematodes, fungi) applied eleased in this field to manage pests?	YES = 1	0853
		re floral lures, attractants, repellants, pheromone traps or other biological pest trols used on this field?	YES = 1	0858
[If it	em	15 or item 16 is YES, ask]		
á		What were the TOTAL materials and application costs for all biological pest controls for this field? DOLLARS & PER AGE PER AGE		TOTAL DOLLARS
		Include operator, landlord, and contractor costs. Include cost for beneficial organisms (insects, nematodes, and fungi). Exclude biological pesticides previously reported	· <u> </u>	0860

					CODE
17. Was a trap crop (excluding fallow) g	rown to heln manage ir	sects in this fie	ld2 v	'ES = 1	0863
17. Was a trap crop (excluding ranow) g	rown to help manage in		id:	E9 - 1	CODE
					0864
18. Was this field left in fallow in 2022	to help manage insects	on this field?.	Y	'ES = 1	
19. Were water management practices					
drainage, or treatment of retention or toxin-producing fungi and bacte				VEC - 1	0861
or toxin-producing rangi and bacte	ilar			1E2 = 1	
20. Was protection of beneficial organ	isms a factor in vour ne	est control decis	sions		1765
for Alaba field			•	YES = 1	
[If Itam 20 is VES continue Else go	to Itom 21 1				
[If Item 20 is YES, continue. Else go a. Did you change timing of, reduce		minato a			1766
a. Did you change timing of, reduce pesticide application?	YES = 1	1700			
h Did was abarra ta an altamatis		1767			
b. Did you change to an alternative	pesticiae, biocontroi, or n	on-pesticide prad	ctice?	YES = 1	
21. If untreated (either with			UNITS PER		
herbicides, tillage, or		CODE	ACRE		TOTAL UNITS
cultivation), how much yield loss (e.g. bushels per acre) do	BUSHELS TONS · · · ·	AND		ØR	
you think weeds would most	TONS				
likely cause on this field?					
	1				CODE
				-	
22 Did pacts (woods insects nathogen	s animals) eques any vi	ald loss on this	field in	Γ	0827
22. Did pests (weeds, insects, pathogen spite of your pest control efforts?	,			ES = 1	0027
[If YES, ask]				L	
			LINITO DED		
 a. How much yield loss do you think was caused by all pests 		CODE	UNITS PER ACRE		TOTAL UNITS
on this field in spite of the		0828	0829		0830
management practices you	1 BUSHELS ····	. AND		OR	
used to reduce those losses?	2 TONS				
				,	NUMBER OF YEARS
23. If you used genetically engineered				ate 🗆	970
the number of consecutive years y resistant seeds.	ou have planted geneti	cally engineered	a, glyphosate-		-
resistant seeds.				L	\
				1	YEAR 971
a. What year did you first plant any	glyphosate resistant see	ds on this field?		1	311
aa. your and you mot plaint ally	المام				

-30-	•	
24. If you used genetically engineered, dicamba resistant seeds on this field in 2023, indicate the number of consecutive years you have planted genetically engineered, dicamba resistant seed	ls	xxxx
		YEAR
a. What year did you first plant any dicamba resistant seeds on this field?		xxxx
25. Did you observe "cupping" or other symptoms associated with dicamba drift/volatility on this field in 2023?	ES = 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 2023 was due to drift (not volatility)? 	ES = 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 2023?	ES = 1	xxxx
27. As far as you are aware, did farmers in your county observe "cupping" or other		
	ES = 1	XXXX
29. As far as you are aware, did farmers in neighbouring fields plant dicamba tolerant		xxxx
soybeans in 2023?	ES = 1	
31. As far as you are aware, did farmers in your county plant dicamba tolerant soybeans in		
2023?	ES = 1	XXXX

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

	2023 Yes=1	2022 Yes=1	2021 Yes=1	2020 Yes=1	2019 Yes=1
Glyphosate					
Glufosinate					
Dicamba					
2, 4-D					
Sulfonylurea (STS) (soybean)					

	-	-36-		H .		
						CODE
31. Have herbicide to	lerant seeds been pla	ınted on this field any ti	me since 2014:		YES = 1	
[If item 26= YES, contin	nue. If item 26 = NO, g	no to item 30.]			1	
						ectiveness of the nis 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=1	s?	Switch to an alternative herbicide?
Glyphosate						
Glufosinate						
Dicamba						
2, 4-D						
Sulfonylurea (STS) (soybean)						

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?

RESI	1 RESISTANCE MANAGEMENT PRACTICE		3 How often did you use this practice on this field? 1 Every Year 2 Every Other Year 3 Multiple Years 4 One Year CODE	Did the cost of managing weeds on this field increase as a result of your use of the practice? 1 Yes 2 No 3 Don't Know
a.	Control weeds early	YES = 1 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?

L – Yes		
2 – No		
3 – Don't Know 4 – The nearest farm is too far away to affect this field		0088

Completion Code for Pest Management Data				
1 Incomplete/Refusal	0500			

CODE

••	Including custom operations, I need to list field work perf by machines on this field for the 2023 soybean crop. Plea	ormed ase	CHECK LIST
	begin with the first field operation after harvest of previous crop, including operations for a cover crop established since the prev harvested [if fallow during 2022, list operations starting with fall 2021];		Include all field work using machines for Land Forming/Levee Building Tillage
	 list the operations in order through harvest and hauling of this crown to storage or first point of sale; and maintain the order of tandem hook-ups. 	rop	Preparing for Irrigation Planting Fertilizer & Pesticide applications
		OFFICE USE IES IN TABLE	Harvesting & Hauling (grain & straw) to storage or first point of sale Exclude Lime & Gypsum/landplaster applications Compost & Non-Commercial Manure applications

						[IF CUSTON	/ (column 5 = c	ode 6), skip co	olumns 6-111	
	2	3	4	5	6	7	· •	OR 9	10	11
L I N E	S E QUE N C E	What operation or equipment was used?	[Record machine code from Respondent Booklet.]	Who was the machine operator- [Enter code from above.]	What was the size or swath of the [machine] used?	[Record size unit code.] 1 Feet 2 Row 3 Moldboard (bottoms) Hauling 4 Pounds 5 Bushels 6 Tons	How many acres were covered? [Exclude land forming and hauling operations]	How many TOTAL HOURS were spent on land forming, or hauling? [Example: backhoes, disk border maker, ditcher, rear mounted blade, trucks, wagons, forklifts, etc.]	Which Power Source was used? 1/2 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 1/2	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

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

OFFICE USE

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

Please report the paid and unpaid labor that worked on this field to produce the 2023 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	1 2			
	scouting for weeds, insects and diseases?	irrigating?	performing other work by hand?		
TYPE OF WORKERS	HOURS	HOURS	HOURS		
You (the operator)	1101	1102	1103		
Partner(s)	1104	1105	1106		
Unpaid workers	1107	1108	1109		
Paid part-time or seasonal workers (<i>Exclude</i> custom and contract labor)	1110	1111	1112		
Paid full-time workers (<i>Exclude</i> custom and contract labor)	1113	1114	1115		

		DOLLARS & CENTS PER HOUR
3.	What was the average hourly wage rate paid to part-time or seasonal hired workers on this field? (Exclude 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? (Exclude custom and contract workers, payroll taxes and benefits.)	1118
		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
		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 2023 soybean crop.

CUSTOM SERVICE Which of the following services were performed for the 2023 soybean crop on this field? Which of the following services were performed for the 2023 soybean crop on this field? **Cell Check box for each service performed; refer to item 1 it necessary.** **DOLLARS & CENTS** **DOLLARS & CENTS** **PER ACRE** **Do. Custom land preparation and/or shaping?. **I122** **B. Custom planting and/or reseeding?. **I123** **C. Custom planting and/or reseeding?. **I124** **d. Custom harvesting?. **C. Custom harvesting and hauling from field to storage or point of first sale?** **C. Custom harvesting and hauling from field to storage or point of first sale? **C. Custom harvesting and hauling from field to storage or point of first sale? **C. Custom harvesting and hauling from field to storage or point of first sale? **C. Custom harvesting and hauling from field to storage or point of first sale? **C. Custom raking, bailing, and hauling the straw from this field **C. Custom raking, bailing, and hauling the straw from this field **C. Custom raking, bailing, and hauling the straw from this field field = Dollars & cents per acre) **C. Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) **D. Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) **D. Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) **D. Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) **D. Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) **D. Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per				
a. Custom land preparation and/or shaping?	✓	CUSTOM SERVICE Which of the following services were performed for the 2023 soybean crop on this field?	and how for this f	Including erator, landlord, contractor costs, much was spent [column 1] on ield for the 2023 bybean crop?
b. Custom cultivating?. c. Custom planting and/or reseeding?. d. Custom harvesting?. e. Custom hauling to storage or point of first sale? (Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) Custom harvesting and hauling from field to storage or point of first sale? (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 = Custom raking, baling, and hauling the straw from this field = Custom raking, baling, and hauling the straw from this field = Dollars & cents per acre) Custom raking, baling, and hauling the straw from this field = Dollars & cents per acre) Custom raking, baling, and hauling the straw from this field = Dollars & cents per acre) Code Were the soybeans harvested and hauled from field + Acres harvested in field = Dollars & cents per acre) 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? a. Nutrient recommendations/management service? YES = 1 D. Soil or tissue sample collection? C. Pest control recommendations/management service? YES = 1 1130 C. Pest control recommendations/management service? YES = 1 1131 d. Pest scouting? YES = 1 1132 e. Irrigation management service (i.e. irrigation scheduling)? YES = 1 1134 1135			1121	
c. Custom planting and/or reseeding?. d. Custom harvesting?. e. Custom hauling to storage or point of first sale? (Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) Custom harvesting and hauling from field + Acres harvested in field = Dollars & cents per acre) Custom raking, baling, and hauling the straw from this field Custom raking, baling, and hauling the straw from this field = Dollars & cents per acre) Custom raking, baling, and hauling the straw from this field (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 (Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) CODE 3. Were the soybeans harvested and hauled from this field dried (or will be dried) before being sold or stored? 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 = 1 Which of the following services did you obtain? a. Nutrient recommendations/management service? YES = 1 b. Soil or tissue sample collection? C. Pest control recommendations/management service? YES = 1 1130 1131 d. Pest scouting? YES = 1 1132 F. Yield map or remote sensing map development/interpretation? YES = 1 1134 1135			1122	<u> </u>
d. Custom harvesting? e. Custom hauling to storage or point of first sale? (Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) Custom harvesting and hauling from field to storage or point of first sale? (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 Custom raking, baling, and hauling the straw from this field = Dollars & cents per acre) Custom raking, baling, and hauling the straw from this field = Dollars & cents per acre) Custom raking, baling, and hauling the straw from this field = Dollars & cents per acre) CODE 8. Were the soybeans harvested and hauled from this field dried (or will be dried) before being sold or stored? 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 = 1 Which of the following services did you obtain? a. Nutrient recommendations/management service? YES = 1 b. Soil or tissue sample collection? Code 1129 1130 Code 1129 1130 Code 1131 1131 Pest scouting? YES = 1 1132 E. Irrigation management service (i.e. irrigation scheduling)? YES = 1 F. Yield map or remote sensing map development/interpretation? YES = 1			1123	·
e. Custom hauling to storage or point of first sale? (Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) Custom harvesting and hauling from field to storage or point of first sale? (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 (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 (Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) CODE (Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) CODE (Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) (Dollars & cents per acre) (Do		d. Custom harvesting?	1124	_
Custom harvesting and hauling from field to storage or point of first sale? (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 (Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) CODE (Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) CODE (Dollars & cents per unit x Total units hauled from this field dried (or will be dried) before being sold or stored? (Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) CODE (Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) (Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) (Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) (Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) (Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) (Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) (Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre) (Dollars & ce		e. Custom hauling to storage or point of first sale?	1126	·
Custom raking, baling, and hauling the straw from this field X		Custom harvesting and hauling from field to storage or point of first sale?	1127	
Were the soybeans harvested and hauled from this field dried (or will be dried) before being sold or stored? Poid 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? a. Nutrient recommendations/management service?. b. Soil or tissue sample collection?. c. Pest control recommendations/management service?. d. Pest scouting?. e. Irrigation management service (i.e. irrigation scheduling)?. YES = 1 1133 1134 1135		. Custom raking, baling, and hauling the straw from this field	1128	
(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 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.e. irrigation scheduling)?. YES = 1 f. Yield map or remote sensing map development/interpretation? YES = 1	3.	Were the soybeans harvested and hauled from this field dried (or will be dried) before		
a. Nutrient recommendations/management service?. b. Soil or tissue sample collection?. c. Pest control recommendations/management service?. d. Pest scouting?. e. Irrigation management service (i.e. irrigation scheduling)?. f. Yield map or remote sensing map development/interpretation?. YES = 1 1129 1130 1131 1132 1133 1134	9.	(such as for nutrient, pest control, irrigation, or precision farming) for this field?		
b. Soil or tissue sample collection?		Which of the following services did you obtain?		CODE
b. Soil or tissue sample collection?		a. Nutrient recommendations/management service?	YES = 1	1129
c. Pest control recommendations/management service?		b. Soil or tissue sample collection?	YES = 1	1130
d. Pest scouting?		c. Pest control recommendations/management service?	YES = 1	1131
e. Irrigation management service (<i>i.e. irrigation scheduling</i>)?		d. Pest scouting?	YES = 1	1132
f. Yield map or remote sensing map development/interpretation?		e. Irrigation management service (i.e. irrigation scheduling)?	YES = 1	1133
g. Other custom or technical service? [Specify:] YES = 1		f. Yield map or remote sensing map development/interpretation?	YES = 1	1134
		g. Other custom or technical service? [Specify:]	YES = 1	1135

10.	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 \

DOLLARS & CENTS PER ACRE	TOTAL DOLLARS
1136	1137
•	

11. Were there (or will there be) any data collection tools (yield monitors, GPS mapping, etc.) used during field operations on this sovbean

	2460
YES = 1	

CODE

[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		

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

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

	d you obtain crop management recommendations (data interpretation in the context of the contex	on) based on that d	data you c	ollected from
a.	Input dealers?		YES = 1	2491
	•			2492
b.	Integrated input providers?		YES = 1	2493
C.	Custom service providers?		YES = 1	
d.	USDA/University extension services?		YES = 1	2494
[If cro	p management recommendations were obtained, ask]	DOLLARS & CENTS	S 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	_ 3	3151
14. D i	d you use the yield monitor information to [Enter code "1" for all th	nat apply.]		
	(i) monitor crop moisture content to determine need for crop drying?.			1140
	(i) monitor crop moisture content to determine need for crop drying?.		-	 l141
	(ii) add/improve tile drainage?			
	(iii) negotiate new crop leases?			L144
	(iv) Help determine input use for management zones?		YES = 1	
	(v) other uses [specify:]		YES = 1	1147
	as any of the following GPS-enabled (Global Positioning System) eqroduce crops on this field? [Enter code "1" for all that apply.]	uipment used to	_	CODE
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
[If GP	'S-enabled, ask]	DOLLARS & CENTS PER ACRE	OR TO	TAL 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.)	•		
	was the guidance auto-steering 2 U	ew sed	/ES = 1	CODE
	equipment:	eased		
				YFAR

b. What year was guidance auto-steering first purchased?					
		DOLLARS & CENT PER ACRE		TOTAL	L DOLLARS
 c. What is the replacement cost for guidance auto-steering equipment? 	J	•			
		DOLLARS & PER ACI	-	OR_T	OTAL DOLLARS
d. What is the annual fee for guidance auto-steering?.					
					CODE
17. Was a variable rate applicator used on this field?			. YES	= 1	
[If YES, continue; else go to Section G]					
Please report the variable rate applicator types you used on this applicator was not used, leave that row blank.	field to produce	e this crop. If a p	articula	ar row's	s variable rate
1	2	3		4	5
	Was this applicator 1 Sensor- based 2 GPS-based 3 Both	Was this applicator 1 New 2 Used 3 Leased	wa app	at year as the olicator t used?	Premium paid for the
Was a variable rate applicator used on this field for:	4 Neither		Year		Total dollars
a. Seeding					
b. Fertilizer/lime applications					
c. Pesticide applications					

G IRRIGATION G

		ACRES	
1.	How many acres in this field were irrigated for the 2023 soybean crop?	1160	
	[If none, go to Conclusion]		

2. Now, I have some questions about irrigation systems and water used on this field for the 2023 soybean crop.

↓	UNIT	SYSTEM 1
 a. What type(s) of irrigation system(s) was (or were) used to irrigate this field? [Show System Type Codes in the Respondent Booklet. Enter System Type Code for up to two systems covering the most field acres.] 	SYSTEM TYPE CODE	1161
	INCHES PER ACRE	1162
b. What was the total quantity of water applied to this field during the entire growing season? (<i>Include</i> ALL water used from both on-farm and off-farm sources.)	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 this system was used to apply water to this field during the soybean growing season?	TOTAL HOURS	1164
(ii) How many gallons per minute were applied?	GALLONS PER MINUTE	1165
c. What percent of the water used to irrigate this field through this 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</i> any pre-plant irrigation.)	NUMBER OF IRRIGATIONS	1167
e. Was the pump type [If more than one pump in the system, 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
f. What was the average pumping rate?	GALLONS PER MINUTE	1169
g. [If item 2a = code 1-9 (PRESSURE SYSTEM), ask] 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. [If NO PUMP was used (item 2e = 99), ask] What was the average flow rate?	GALLONS PER MINUTE	1173
k. How many other acres on this operation were irrigated using this field's irrigation system during the 2023 growing season? (<i>Exclude this field.</i>)	ACRES	1174

PER ACRE	OR	TOTAL DOLLARS
1180		1100

 1189

4.	Was any water purchased to irrigate this field? (Include landlord's share and purchases from all sources.)	CODE 1191		
	☐ YES – [Enter code 1 and continue.] ☐ NO – [Go to item 5.]	1191	-	
	DOLLARS & CENTS	OR	TOTAL DOLLARS	
[If	SIPHON TUBES were used (item 2a = 10 or 11), ask]	тот	AL DOLLARS	
5.	What would be the total cost to replace all the siphon tubes used on this field?	1201	L	
[If	POLY PIPE system was used (item 2a = 14) ask]	тот	AL DOLLARS	
6.	What was the total amount spent for poly pipe used on this field during the 2023 growing season? (Include operator, landlord, and contractor costs.)	1202		
[If	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	3	
		FEET		
	a. What was the total length of gated pipe used?	1204	,	
Ω	Were wells used to supply irrigation water for this field?		CODE	
Ο.	☐ YES – [Enter code 1 and continue] ☐ NO – [Go to item 9]	1205	5	
			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	7	
	c. What was the average pumping depth of these wells during the irrigation season? [Pumping depth is the depth to water at the start of the irrigation season, plus an average decline	FEET		
	in the water level caused by pumping during the irrigation season.]	1208	3	
	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]		ACRES	
	e. Excluding this field, how many other acres on this operation were irrigated using the same wells during the 2023 growing season?		1211	
9.		·		
			INCHES	
	What was the average diameter (<i>in inches</i>) of the most common type of this additional pipe used?	1212	2	
			FEET	
	b. How many feet of this additional pipe were used to bring water to this field?	1213	3	

CONCLUSION

LO	CATIO	N OF SELEC	STED FIELD												
1.	I need map.	to locate th	ne selected fiel	ld of soybear	n on this	S COUNTY NAME						OFFICE USE COUNTY FIPS CODE			
2.		county is the	ne selected soy	ybean field							0	0010			
	Field (description.													
						L	LATITUDE		_		LON	IGITUD	Æ		
	Field L	ocation			N 0054		- -		w	0055	_				
	•					d d	d m m	s s	J		 d d	m	m s	s	
3.	[ENUIV	/IERATOR A	ACTION: Mark Be su	k map to indica sure the "X" ma	ate where arked on	e the s map is	elected so s in the cc	oybean fic ountv ider	eld is ntified	; located. l above.l					
4.			itional informa collect it. I'll c								,				
5.			mplete results										CODE	<u>:</u>	
	www.n	nass.usda.g	jov/results/. W	Nould you rat	ther have	e a bri	ief summa	ary				9990			
	maileo	I to you at a	a later date?	• • • • • • • • • • • • • • • • • • • •	<u> </u>	· · · · · · ·		· · · · · · · ·	· · · · ·	YES	3 = 1	<u></u>		_	
												0005	нн мм	1	
6.	ENDIN	NG TIME [MI	ILITARY]								!	0005	_	_	
															
_	ECORDS		h "		,										
7.	[Did re	spondent us	se farm/ranch re	ecords to repo	ort]								CODE		
	a. [fe i	ertilizer data	.?]							YE!	e = 1	0011			
	α. [Tunzor dans.	.]								, - <u>-</u> ,	0012			
	b. [<i>pe</i>	esticide data	a?]							YES	s = 1	00			
	F	· · · · · · · · · · · · · · · · · · ·	-1-4	-							!	0013			
	_		s expense data	∄?]						YES	3 = 1				
		MENTS USER		·	· saira	nle	L						NUMBEI	R	
8.	(Recon used to	d the total ric o complete tl	umber of each this interview.]	type or quesu	onnaire :	suppiei	ment			FERTILIZI APPLICATION	ER ONS	0041			
										PESTICIE APPLICATION		0042			
										FIELD OPERATIO		0043			
						9910			9911		-				
Re	eported b	by:						23	مام ۲	phone: (١				
_									I GION	JIIUIIE. (<u> </u>				
	R. Unit	Ptr 1 Str	Ptr 2 Str	Ptr 3 Str	OFF Ptr 4	FICE USE 1 Str	OPS	SS	SO 1	ADJ	\top	Opti	onal Us		
9921		9922	9923	9927	9928		923	9907		922	990		9916		
_	Re	esponse	Resp	ondent		Mode	و	En	um.		_ Р	POID			
2-R 3-Ina	omp nac	9901	1-Op/Mgr 2-Sp 3-Acct/Bkpr	9902	2-PATI (To 3-PAPI (Fo Fo	Tel)	9903	9998	•••	9989		<u></u>			
4-On	office Hold		4-Partner 9-Other							Eval.		\overline{T}	Change		

9985