AGRICULTURAL RESOURCE MANAGEMENT SURVEY

OMB No. 0535-0218 Approval Expires: 6/30/2026 Project Code: 906 SurveyID: 2054 Phase 2



USDA/NASS

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SOYBEAN PRODUCTION PRACTICES AND COSTS REPORT FOR 2023 ID **SUBTRACT VERSION** TRACT C-TYPE 77 01 120 CONTACT RECORD **NOTES** DATE TIME The information you provide will be used for statistical purposes only. Your response 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 and Statistical Efficiency Act of 2018, Title III of Pub. L. No. 115-435, codified in 44 U.S.C. Ch. 35 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. 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. H H M M**SCREENING BOX** BEGINNING TIME 0004 0006 [MILITARY]|________ Check if verified POID ___ __ __ ____ Check if verified POID _______ Name: Name: Address: City: _____ State: ____ Zip: ____ City: State: Zip: check if check if cell phone cell phone Check if verified POID _____ Check if verified POID ______ City:_____ State: ____ Zip: __ City: _____ State: ____ Zip: __ check if

cell phone

Phone: ()

Phone: (_____)

SOYBEAN FIELD SELECTION

L	ı
•	7

					lotal Planted Acres
1	Ца	w many total carea of saybeans did this an	oration plant for the 2022 aren year	2	0050
		w many total acres of soybeans did this op			
IT I	no a	cres were planted, review Screening Surve	ey information Form, make notes, th	en go to back page	
				.,	Code 1 4000
	a.	Did you produce any acres of certified org	anic soybeans?	Yes = : No = :	·
	b.	Of the total (item 1) acres, how many were	e planted using/as —		
		, ,		Total Acres	Number of Fields
		i. Conventional soybeans?		4001	4002
		•		4003	4004
		ii. Certified organic soybeans?		· <u> </u>	_
I۷	vill fo	ollow a simple procedure to make a randor	n selection from the soybean fields រុ	planted for the 202	3 crop.]
					Total Number Of Fields Planted
2.	Wh	at is the total number of soybean fields tha	at were planted on this operation? [If	only one field,	0020
	ent	er "1" and go to item 4.]			
3.	[No	w, I need to identify a soybean field to be	used for this survey.] The soybean	field pre-selected f	or this interview is
		1 Northern most field			
		₂ Southern most field			
		₃ ☐ Eastern most field	Field description:		
		4 Western most field			
		₅ Northeastern most field			
		6 ☐ Southeastern most field			
		₇ Northwestern most field			
		8 Southwestern most field			
١.	will	e field selected is (field be about this selected soybean field. sure the operator can identify the selected	name/number/description). During t d field.]	his interview, the s	oybean questions
5.	For	the randomly selected field above, please	provide the following Farm Service	Agency (FSA) ide	ntifiers:
of s S nui	stati A ad mbe	g this information helps USDA make better stical analysis that can be done with the re Iministrative fields, please include the farm rs are field identifiers that USDA uses to a vation programs.]	sponses from this survey. If the phy n, tract, and field number for the larg	rsical field in this ຣເ est administrative f	urvey spans multiple field. These ty programs, and
				107	Number
	a.	Farm Number (up to 8 digits)			
	b.	Tract Number (up to 7 digits)		107	1
				107	2
	C.	Field Number (up to 4 digits, exclude subf	ield letters)		
					OFFICE USE

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п.
ĸ

						Acres
1.	Ηο	w many acres of soybeans did t	his operation plant in the sel	ected field for the	2023 crop?	1301
		•	-		-	Code
	_	Are the cores in the colors of the	ald partified arrania as to	tioning into	Yes, Certified Organic=	1 4068
	a. Are the acres in the selected field certified organic or transitioning into certified organic soybean production?					
[If i	[If item 1a = 1 or 2, then ask—]					
b. What was the cost, per acre, for third party organic certification?						. 1399
2.		ere the acres in the selected d—	1 owned by this operation? 2 rented for cash with the pay 3 rented for cash with the pay 4 rented for a share of the cro 5 rented for some combinatio 6 used rent free?	Code 1302		
[If f	ield	is cash rented (item 2 = 2, 3, or		to item 4.]		Dollars & Cents per Acre
3.	Wh	at was the cash rent paid per a	cre for this 2023 soybean fie	ld?		1303
[If f	ield	is share rented (item 2 = 4 or 5), ask—]			Percent
4.	Wh	nat was the landlord's share of th	ne crop from the selected fie	ld?		1304
[If f	ield	is rented (item 2 = 2, 3, 4, 5, or	6) ask—]			
5. 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 seed,						Total Dollars
	fertilizer, chemicals, technical services, custom operations, drying, and irrigation. EXCLUDE real estate tax expenses and lime costs paid by the landowner				1306	
					Year	
6.	Wh	nat year did you (the operator lis	ted on the label) start operat	ting the selected fi	eld?	1312
			, ,	3		M M D D Y Y
7.	On	what date was the selected field	d planted?			1308
						Bushels per Acre
	a.	What was your yield goal at pla	anting for the selected field?			1311
0			_		Unit Code	
8.		the selected field, what was the CLUDE operator, landlord, and corcost of seed treatment and	ntractor costs	Dollars & Cents per Unit	1 = Pound 4 = Bushel 22 = Acres 23 = 50 lb bag 24 = 140,000 Seed Units	Percent of Seed Planted
	•			1214	1215	1216
	a.	GMO/GE purchased seed?		·	1240	1210
	b.	Non-GMO/GE purchased seed	1?	1217 · <u> </u>	. 1218	1219
	C.	Homegrown seed?				1318

[If item 8c is greater than zero, continue. Otherwise go to item 9.]			
d. What was the cost per pound for cleaning and	treating this seed?	3321	
a. Triidi nao alo oost poi pouna ioi oloaniig ana	Units	Unit Code 1=Pounds/Acre 2=Cwt/Acre 4=Bushels/Acre 25=Seeds/Acre 38=Seeds/Foot	
	1313	2314	
What was the seeding rate per acre the first time to	he selected field was planted?		
1	1 Drilled?	Code 1316	
a. Was the soybean seed—	2 Planted in conventional rows?		
[If drilled or planted (item 9a = 1 or 2), ask—]		Inches	
		1322	
10. What was the average soybean row width for the s	selected field?		
44. How many course in the colored field had to be some	plantad to apply a con 2 /A cross replanted - Niverbay of	Acres	
11. How many acres in the selected field had to be rep Acres x Number of times replanted.)		·	
		Code	
	1 Treated with a pesticide prior to purchase?	3062	
12. For the 2023 soybean crop, was the soybean seed	2 Treated with a pesticide after purchase? 3 Not treated with a pesticide?		
[If item 12 = 1 or 2, continue. Otherwise go to item 13.	Seed Treatment Name		
What was the name of the seed treatment? [Write seed treatment name in the box provided.]	1289		
	e appropriate seed treatment code from the atment was applied but is not listed. Enter "–1" if the	Code 2325	
		Code	
40. 5 11 0000 1 1	Yes=1	2340	
13. For the 2023 soybean crop, did you plant a comme [If item 13 = 1, ask—]	·		
a. What was the name of the seed product?	Commercial Seed Product Name 2342		
[Write seed product name in the box provided.]			
b. What was the seed product code? [Enter the a	appropriate product code from the Respondent rchased but is not listed. Enter "–1" if the product is	Code	
·	in the product is	2040	
14. For what reasons did you choose this commercial	seed product? (Select all that apply.)		
	High Protein content 4007 Pest resistance		
	Resistance to herbicide drift 4010 Other (Specify:		
	rom nearby fields)	
		Code	
 Were the soybeans from the selected field sold (or specifically for non–genetically modified soybeans 		2383	
[If item 15 = 1, ask—]		Dollars & Cents per Bushel	
What was the price premium (or the expected genetically modified soybeans?	premium if not yet sold) received for these non-	2384	

Last time soybeans

		2023	were planted
		Yes = 1 No = 3	Yes = 1 No = 3 N/A = 4
16. Did you plant genetically modified organism/genetically engineered soybeans in the selected field for 2023 or the last time soybeans w		2300	2301
[If item 16 = 1 for either year, continue. Otherwise go to item 18.]	•	2023	Last time soybeans
17. Did the soybeans planted on the selected field have any of the foll	owing genetically	2023	were planted
modified organism/genetically engineered (GMO/GE) traits in 2023	3 or the last time	Yes = 1	Yes = 1 No = 3
soybeans were planted?			N/A = 4
a. Chunhanata talaranas (a.g. Baundun Baadus)		2306	2307
a. Glyphosate tolerance (e.g. Roundup Ready®)		2312	2313
b. Glufosinate tolerance (e.g. LibertyLink®)		-	2313
2. Caronials (e.g,,,		2310	2311
c. Dicamba tolerance (e.g. Xtend®)			
		2330	2331
d. HPPD tolerance (e.g. Balance®, MGI)			
		4011	4012
e. 2, 4–D tolerance (e.g. Enlist®)			
f. High-oleic sovbeans (e.g. Plenish®, Vistive Gold®)		4013	4014
f. High-oleic soybeans (e.g. Plenish®, Vistive Gold®)	•••••	2023	Last time asylvages
		2023	Last time soybeans were planted
18. Did the soybeans planted on the selected field have any of the following		Yes = 1	Yes = 1 No = 3
2023 or the last time soybeans were planted?		. No = 3	N/A = 4
0 1/2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OLTO)	2332	2333
a. Sulfonylurea tolerance (e.g. Sulfonylurea Ready, SR, STS®, B	OLI®)		
b. Soybean cyst nematode resistance (e.g. SCN)		2334	2335
b. Coybean cycl nomalode resistance (e.g. Cory)		4015	4016
c. Soybean sudden death syndrome resistance (e.g. SDS)			4010
, ,		2336	2337
d. Phytophthora root–rot resistance (e.g. PRR)			
		2338	2339
e. Aphid resistance (e.g. Rag1, Rag2)			
			Code
40 11-1 - 1		Yes = 1	1328
19. Has harvest of the selected field been completed?		No = 3	
[Now I need information about the acres harvested or to be harvested	and the yields from	n the selected field	d.]
•			Unit Code
		What yield per acre d you get or do you	id 1 Pounds 2 Cwt
20. How many cares in this saybeen field were or will be		expect to get for	3 Tons
20. How many acres in this soybean field were or will be—		soybeans–	4 Bushels
	Acres	Units per Acre	Code
a. harvested for grain?	1346	1347	1348
•	1431	1432	1433
b. harvested for commercial seed contract?		•_	_
	1351		
c. abandoned?	•		

Crop Code List for item 21 – Previously Planted Crops				
190 Barley	311 Grasses including clover	22 Rye (cereal)	34 Annual ryegrass	
6 Corn for grain	1 Hay, alfalfa	240 Sorghum, all	318 No crop planted	
5 Corn for silage	11 Hay, all other	26 Soybeans	291 Other field crop	
283 Cotton, all	15 Oats	263 Wheat, spring	292 Other crop	
302 CRP	21 Rice	165 Wheat, winter	312 Cover crop mix	

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

1			2	3	4
What crops were planted on the selected field in— [For perennial crops, (1, 11, 292, 302, and 311) report the crop code in all seasons when the crop was growing.]			Was this a cover crop?	If a cover crop was planted, how did you terminate this cover crop?	Was the selected field no–till or strip–tilled? ^{1/}
Season and Year	Crop Name	Crop Code	Yes=1 No=3	1 Tilled-in 2 Herbicide 3 Rolled 4 Grazed 5 Harvested for forage 6 Harvested for grain 7 Winter killed Code	Yes=1 No=3
a. Spring/Summer of 2023?	SOYBEANS				1344
b. Fall of 2022?		1343	1470	1471	1345
c. Spring/Summer of 2022?		1369	1472	1473	1371
d. Fall of 2021?		1372	1474	1475	1374
e. Spring/Summer of 2021?		1375	1476	1477	1377
f. Fall of 2020?		1378	1478	1479	1380
g. Spring/Summer of 2020?		1381	1480	1481	1383
h. Fall of 2019?		1366	1482	1483	1368
i. Spring/Summer of 2019?		1340	1484	1485	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.

[If a cover crop was planted in Spring/Summer/Fall 2022, ask—]	Dollars & Cents per Acre
j. What was the seed cost per acre for the cover crop?	1468
k. What was the per–acre cost–share or financial assistance payments received for the cover crop? If no program payment was received, enter zero	1495

22. Is this field managed under an NRCS-approved conservation plan for highly erodible land (HEL)? (All fields that have been designated as HEL by USDA, and that are being actively farmed, are required to have soil conservation plans under the conservation compliance program.).....

23. Does the selected field contain a wetland? Wetlands are subject to Wetland Conservation (WC) or "swampbuster" requirements. Producers who receive farm program payments must refrain from draining wetlands to make them ready for crop production......

Yes=1 No=3 1405 Yes=1 No=3

		<u>7_</u>		_	
			Nearly level (0 – 2%)		Code
24	\//h	set in the alone of the colocted field?	Even, moderate grade (3 – 9%) Variable, moderate grade		2400
4 -	V V I I	· 4	Even, steep grade (10% or more) Variable, steep grade		
		<u> </u>	1 Loam		Cada
			2 Clay		Code 2401
25.	Wh	at is the primary soil type of the selected field?	3 Sandy 4 Mixed		
			5 Silty		
					Unit Code 1 Currently a concern
26.	In t	he selected field, are any of the following currently or hist	orically a concern?		2 A concern in the past but not anymore
					3 Not a concern
					Code 2407
	a.	Water-driven erosion			-
	b.	Wind-driven erosion			2408
	C.	Soil compaction			2409
	d.	Poor drainage			2410
	e.	Low organic matter			2411
	f.	Water quality			2412
	g.	Other concerns		2413	
			2415		
	h.	Water availability			
[If it	tem	26a – 26h are all "Not a Concern", ask—]			Code
	i.	If the answer to all of the above was "Not a Concern", is significant concerns on this field?		Yes=1	2414
		No=3	0.4		
					Code 2402
27.	Did	the land use practices for the selected field include subs	urface drainage?	Yes=1 No=3	2402
[If it	tem	27 = 1, continue. Otherwise go to item 28.]			Year
	_	In what year was the current subsurface (tile) drainage in	actallad?		2403
	a.	in what year was the current subsurface (the) trainage in	istalieu :		
					2604
	b.	What is the average depth of your draining system?			
	C.	2605			
	J .	Code			
	d.	Does this system include a mechanism for controlled dra	ainage (e.g. stop logs, risers,	Yes=1	2406
		or float mechanisms)?		No=3	
	e.	Does this drainage system have surface inlets?		Yes=1 No=3	2719
			1 An open, single stage ditch 2 A natural waterbody		Code
			3 A saturated buffer 4 A retention pond		2720
	f.	Where does this system empty?	5 Another type of receiving system		

28.		s the selected field ever been in any conservation contracts for which you or your landlord received expected to receive) cost–sharing payments, stewardship payments, or incentive payments?	Unit Code 1 Current 2 Past 3 Never
	a.	Environmental Quality Incentive Program (EQIP)	2611
		Conservation Security or Conservation Stewardship Programs (CSP)	2612
	C.	Conservation Reserve Program (CRP)	2613
	d.	Other Federal, State, Local or non–government source	2614
			Code
29.		ring the last four years, did you apply for conservation funding, either through any Federal, Yes=1 te, or local program, for the selected soybean field?	4017

30. [Now I need information on soil, crop, and land management practices or activities used on the selected field and any financial assistance you may have received in conjunction with those practices.]

a. Please check any practices or activities that you used on the selected field this year or any time in the past.

On-field Soil and Crop Management	10 Terraces	Implement an integrated pest management plan – written plan
₁ No–till/strip–till	₁₂ Grass waterway	₃₁ Drift reducing spray nozzles
Conservation tillage except no–till/strip–till	Implement a nutrient management plan – written plan.	32 Targeted sprayer – electrical control
₃ Cover crop – single species	21 Precision nutrient application	Adjacent to Field
₄ Cover crop mix	22 Subsurface phosphorous application	33 Filter strip
₅ Contour farming	No fertilizer application more than 30 days before planting	34 Field border
₅ Conservation crop rotation	Controlled release or enhanced efficiency fertilizer	₃₅ ☐ Riparian buffer – grass or forest
₁☐ Laser leveling	Split nitrogen application with at least 50% applied after planting	₅₀
	! ! !	99 None of the above

b. For each practice or activity checked in 30a, please complete one line of this table. [Enumerator Note: If "99: None of the above" was selected, report code "99" in the first row (item 1610).]

			Treate 99 in the instrow	· · · · · · · · · · · · · · · · · · ·	
1	2	3	4	5	
			What financial assistance (cost share) has been received for this practice on this field?		
Practice or Activity on the Selected Field	Practice Code (see item 30a)		 Received a payment in 2023 from EQIP, CSP, or similar program Did not receive a payment in 2023 but have in earlier years Have never received a payment for this practice 	A federal, state, or local regulatory requirement Highly erodible land conservation compliance Does not relate to any regulation or compliance requirement	
	Code	Code	Code	Code	
	1610	1614	1612	1613	
	1615	1619	1617	1618	
	1620	1624	1622	1623	
	1625	1629	1627	1628	
	1630	1634	1632	1633	
	1635	1639	1637	1638	
	1640	1644	1642	1643	
	1645	1649	1647	1648	
	1650	1654	1652	1653	
	1655	1659	1657	1658	
	1660	1664	1662	1663	

				(Code				
		ed field covered by a single or named perilireeze, etc.)?		1393					
[If item	31 = 1, continue. Otherwise, go to ite	m 32.]		(Code				
		lected field covered by more than one sing replant, wind, freeze)?		2721					
					rs & Cents er Acre				
		age per acre for the single peril policy cove		1395	·				
C.	c. What was the premium cost per acre for the single peril policy covering the selected field in 2023? EXCLUDE any sign-up fee								
d.	d. What was the percent deductible for the single peril policy covering the selected field? (Record no deductible as 0%)								
e. Did you (or will you) collect an indemnity payment for the selected field from the single peril Yes=1 policy during 2023?									
				(Code				
pro	vided protection against yield or rever	ed field covered by a multi–peril federal pronue losses? These include crop insurance a	and crop Yes=1						
	32 = 1, continue. Otherwise go to Se								
	What type of multi–peril coverage	1 Federal CAT (basic catastrophic insurance) 2 Yield Protection (YP) 3 Revenue Protection (RP)		1386	Code				
	did you obtain?	4 Other multi-peril crop insurance							
[If item	32a = 2, ask—]			Р	ercent				
	i. What percent of yield coverage d	id you select for the selected field?		1387					
	ii. What percent of price coverage of	lid you select for the selected field?		1388					
[If item	32a = 3, ask—]			Р	ercent				
	iii. What percent of revenue coveraç	ge did you select for the selected field?		1389					
b.		urchase for the multi–peril policy on the	1 Basic 2 Optional 3 Enterprise	2524	Code				
		ted on the label, first purchase multi–peril c		2525	Year				
d. What is the 2023 Approved APH (actual production history) yield for the selected field?									
e. What was the premium paid for multi–peril crop insurance for the selected field in 2023? EXCLUDE any administrative fee									
					Code				
f.		ty payment for the selected field from multi		2528					

С			NUTF	RIENT	or FERTII	LIZER A	PPL	LICATIONS	— SELECTED	FIELD	C	
	2023 soy	/bean cro	p? INCL	UDE tho	zers applied se from ope	erators, la		ed field for the rds, and	Yes=1 0202	Code	Office Use Edit Table	
		l continue							No=3		Niversham	
-				•	_						Number	
2.									elected field for		0203	
3.	Now I ne	eed to rec	ord infor	mation fo	r each app	lication.						
				CHECK	LIST							
	INCLU	DE			EXCI	LUDE						
	Custom	applied no	utrients or	fertilizers	☐ Micro	nutrients						
_		s or fertiliz			☐ Unpr	ocessed ma	anure)				
		022 and the lected field				ents or ferti ous crops i						
	Comme	rcially prep t	pared mar	nure or		and gypsu	m/lan	ndplaster	Office Use Lines in Table	Table 001	0299	
	Nitroa	en Codes	for Colum	n 2 Sourc	e/Form of N	Used		Α	application Codes	for Column 6	3	
2 3 4	1 Anhydrous ammonia 2 Nitrogen solution (UAN) 3 Urea 4 Ammonium nitrate 5 Sodium nitrate 5 Sodium nitrate 8 Other nitrogen fer material [specify:				e e, ate, and ertilizer	and and 1 Broadcast, ground without incorporation 5 In irr 2 Broadcast, ground with incorporation 6 Chis 3 Broadcast, by aircraft 7 Band 4 In seed furrow 8 Folia					gation water el/injected or knifed in led in or over row r or directed spray	
			2			3		4	5	6	7	
	Materials Used [Enter percentage analysis or actual pounds of plant nutrients applied per acre.]				nds of plant	What qua was applie acre?	d per	[Enter material code]	When was this applied?	How was this applied?	How many acres in the selected field were treated in this	
L I N	_	how Common Nutrients or Fertilizers in Respondent Booklet] efer to nitrogen list above for type of nitrogen used.]			·	column blank if actual putrients 13 Quarts			In the fall before seeding In the spring before seeding	[Refer to code list above]	application?	
E	N	P ₂ O ₅ Phosphate	K ₂ O	S Sulfur	Source/Form of N Used [Refer to code list	were repo	rted]	19 Pounds of actual nutrients	3 At seeding 4 After seeding			
					above]						Acres	
01	31	32	33	34	35	36		37	38	39	40	
02	31	32	33	34	35	36		37	38	39	40	
03	31	32	33	34	35	36		37	38	39	40	
04	31	32	33	34	35	36		37	38	39	40	
05	31	32	33	34	35	36		37	38	39	40	
06	31	32	33	34	35	36		37	38	39	40	
07	31	32	33	34	35	36		37	38	39	40	
00	31	32	33	34	35	36		37	38	39	40	

			Code
4. W	ere any nutrients or fertilizers applied by custom applicators?	Yes=1 No=3	0214
	n 4 = 1 continue. Otherwise go to item 5.]		Code
-	Are you able to report the cost of nutrient or fertilizer materials and custom application separately?	Yes=1 No=3	0216
[If iten	n 4a = 1 continue. Otherwise go to item 5.]		Office Use
			0215
b.	Excluding the cost of the nutrient or fertilizer materials, how much was spent for custom applic fertilizers on the selected field?	cation	of nutrients or
	INCLUDE • operator, landlord, and contractor costs Dollars & Cents		
	 operator, landlord, and contractor costs costs for sulfur and micronutrients Dollars & Cents per Acre	OR	Total Dollars
	EXCLUDE custom application of lime, gypsum, purchased manure, and purchased compost	_	0220
[If mat	terial and application costs can't be separated, exclude them here and record the total in item 5	.]	
5. W	hat was the total cost of all nutrient or fertilizer products applied to the selected field?		
	 INCLUDE operator, landlord, and contractor costs as well as the costs for sulfur and micronutrients Dollars & Cents per Acre	OR	Total Dollars
	 materials applied to the selected field if it was fallow in 2022 EXCLUDE lime, gypsum, purchased manure, and purchased compost 	_	0222
	tom applied and the cost of materials can be separated from application costs, include the cost vise, include both the material and application costs.]	of ma	terials only,
			Code
6. Wa	as gypsum applied to the selected field for the 2023 soybean crop?	Yes=1 No=3	0218
7. W	as a soil test for soil organic matter performed on the selected soybean field at some point in e last 10 years?	Yes=1 No=3	3225
[If iten	n 7 = 1, ask—]		Percent
а.	What was the percentage of soil organic matter on the selected field for the most recent test?		3226
۵.	The trace are personage or osmer game matter on the objection here has most resemble to the contract of the co		Number
		•	3227
	How many times have you tested the selected field for soil organic matter in the last 10 years'	?	
[If iten	n 7b is more than 1, ask—]		Code
C.			3228
	3 Staying roughly the same?		Code
	as a soil or plant tissue test performed on the selected soybean field in 2022 or 2023 for the 123 crop?	Yes=1 No=3	0224
[If iten	n 8 = 1, continue. Otherwise go to item 13.]		Code
	as a soil test for phosphorus performed on the selected soybean field in 2022 or 2023 for the 123 crop?	Yes=1 No=3	0225
[If iten	n 9 = 1 ask—]		Pounds per Acre
a.	How many pounds of phosphorus per acre were recommended by the phosphorus test?		0226

					Code
	as a soil test for nitrogen performed on the			Yes=1 No=3	0227
[If iten	n 10 = 1, ask—]				Pounds per Acre
a.	How many pounds of nitrogen per acre	were recommended by the nitroge	n test?		0228
					Code
	as a plant tissue test or leaf analysis for n 22 or 2023 for the 2023 crop?			Yes=1 . No=3	0229
			Dollars & Cents per Acre	OR	Total Dollars
	ow much was spent for these soil and plar ld? INCLUDE operator, landlord, and cor		0230		0231
[If test	s were done at no cost, continue. Otherw	ise go to item 12b.]			
		Soil/plant tissue test provided free dealer, crop consultant, or extensi			Code 0232
a.	What is the reason why tests were done at no cost?	2 Soil/plant tissue test costs were in total fertilizer costs reported in ite	cluded in the		0232
		3 Some other reason			Code
b.	Did you receive a payment from a conse performing a soil or plant tissue test?			Yes=1 No=3	3231
	nerator Action: Refer to the Fertilizer Table itrogen applied, go to item 15.]				
	as the amount of nitrogen you decided to	annly to the selected field based o	ın		Codo
13. VV	as the amount of fillrogen you decided to	apply to the selected field based of	·		Code 0233
a.	Results of a soil or plant tissue test?			Yes=1 No=3	
b.	Crop consultant recommendation?			Yes=1 . No=3	0234
C.	Fertilizer dealer recommendation?			Yes=1 No=3	0235
d.	Extension Service recommendation?			Yes=1 No=3	0236
e.	Cost of nitrogen and/or expected comm	odity price?		Yes=1 No=3	0237
f.	Contractor recommendation?	•		Yes=1 No=3	
				Yes=1	
g.	Routine practice – operator's own determent	mination based on past experience	e, yield goal, etc.?.	. No=3	
	hich of the following products did you e to slow the breakdown of nitrogen on	 Nitrification inhibitors (such as N–8 Urease inhibitors (such as Agrotai Chemical–coated fertilizers (such as N–8 	n)		Code 0241
	s field?	urea and polymer–coated urea) 4 Other inhibitors 5 None			
[If nitro	ogen inhibitors were used, continue. Othe	rwise go to item 15.]	Pounds per Acre	OR	Gallons per Acre
a.	How much nitrogen inhibitor did you mix the selected field?	with the nitrogen applied to 256	-	25	62
			Dollars & Cents per Pound	∟ OR	Dollars & Cents per Gallon
b.	What was the cost of nitrogen inhibitors operator, landlord, and contractor costs.		<u> </u>	02	

							Code
15. Is I	ime ever applied to the selected	field?		1	/es=1 No=3	0242	
[If item	15 = 1 continue. Otherwise go t	o item 16.]					Years
a.	On average, how many years a	re there between applications of lime to the	selecte	ed field?		0243	
						Tons	s per Acre
b.	How many tons of lime were ap	plied per acre the last time it was applied to	the se	lected field?.		0244	
							Code
C.	Was lime applied to the selecte	d field in 2022 or 2023 for the 2023 crop?		····················	∕es=1 No=3	0240	
	` .	d) manure from own farm, from a neighbor's mpost, applied to the selected field for the 2				0246	Code
cro		manure		,	Yes=1		
	16 = 1 continue. Otherwise go t				No=3		Acres
[II ItCIII	10 - 1 continue. Otherwise go t	o occurr B.j				0247	Acres
a.	To how many acres in the select	ted field was manure or compost applied?					•
				Units per ac	re	Unit 1 Tons 2 Gallor 3 Bushe 4 Cubic	els
b.	What was the amount of manur	e or compost applied per acre to the selecte	ed	0249		0248	
				•			
C.	Of the total manure or compost was the percent of manure or compost	applied to the selected field for the 2023 so	ybean	crop, what		_	Percent
	was the percent of manufe of o	отпрозгаррной				0254	ercent
	i. in the fall before planting?				. +		
	ii. in the spring before planting	?			. +	0255	
	iii. after planting?				. +	0256	
	_Г				=		100%
			1 Lago	oon liquid?			Code
d.	Was the manure or compost—.		2 Slurr	ry liquid? ii–dry or dry?		0257	
		1 Broadcast or sprayed without incorporation?					Code
e.	oompost	2 Broadcast or sprayed with incorporation? 3 Injected/knifed in? 4 Sprayed using irrigation systems?				0258	
	l	1 7 0 0 7					
f.	Was the major source of	1 Beef cattle? 2 Dairy cattle? 3 Hogs? 4 Sheep? 5 Poultry? 6 Equine? 7 Biosolids – municipal sludge? 8 Food waste?				0259	Code
	-	9 Other? Specify:					

			1 Produced on this operation?					Code
	١٨/-		2 Purchased?3 Obtained at no cost off this operation?				0260	
g.	vva		4 Obtained with compensation (operator					
			received payment for accepting the manure	e)?				
[If item	160	g = 2, continue. Otherwise go to	o item 16h.1					
•	-	,		Dolla	rs & Cents			
					er Acre	OR	То	tal Dollars
	i.	What was the total cost of the	purchased manure or compost applied	0284			0285	
	١.		purchased manure or compost applied					
						_		
		INCLUDE	d					
		 operator, landlord, and any payment made for 						Ondo
		 any payment made fo 	i transportation costs					Code
	::	Did bins same to such				Yes=1	0286	
	II.	Did you nire someone to custo	om apply the manure or compost?			No=3		
[If item	160	gii = 1, ask—]						
					rs & Cents	OR	_	
			aid to have manure or compost custom		er Acre	UK 1		tal Dollars
			d? INCLUDE operator, landlord, and	0287			0288	
		contractor cost			·			
[Do no	t rep	oort custom application cost if it	was included with the purchased manur	e or cor	npost cost	.]		
								Miles
h	\ <i>\</i> /b	est is the distance in miles betw	year the manure or compact storage/proc	duction	location on	d tha	0291	
11.			reen the manure or compost storage/prod			id trie	0231	
	301							
								Code
i.			to the selected field, was any tested for			Yes=1	0261	
	pric	or to application?				No=3		
j.			ercial nitrogen fertilizer on the selected fie			Yes=1	0262	
	to r	manure or compost application	?			No=3		
[]f 16i -	- 1	ack 1						Danasant
[If 16j =								Percent
	i.		ce the commercial nitrogen fertilizer appli				0263	
		selected field?			•••••			
								Code
	ii.	Did you adjust the sovbean ha	arvest date for the selected field due to th	e applic	ation of	Yes=1	0280	
						No=3		
		·						Code
							0004	Code
			ion rates to the selected field influenced			Yes=1	0264	
Sia	ile, (or local restrictions?				No=3		
[If item	17	= 1, ask—]						
а	Wh	nat basis was used to determine	e these manure application rate restriction	ns—				Code
u.			application rate rectification	-			0265	7045
	i.	Nitrogen requirement of the cr	op?			Yes=1 No=3	0200	
	••	ogon roquironioni or the or	op				0000	
	ii.	Phosphorus requirement of th	e crop?			Yes=1	0266	
	п.	i mosphorus requirement of th	e oroh:			No=3	1	

П	٠	
	-1	

Now I have some questions about all the biocontrols or pesticides used on the selected field for the 2023 soybean crop, including both custom applications and applications made by this operation.

Office Use Edit Table

			0000		
1.	Were any herbicides, insecticides, fungicides or other biocontrols or pesticides used on this soybean field for the 2023 crop?	Yes=1 No=3		0300	

[Probe for applications made in the fall of 2022 and those made earlier if the selected field was fallow.]

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

; ··· • , · · · · ·	EXCLUDE	adjuvants, nutrients or fertilizers				
insecticides, and other pesticides.		reported earlier and seed	Office Use	Table	0399	
INCLUDE biological and botanical pesticides.		treatments.	Line in Table	001		

look for codes in respondent booklet Chemical Product Name	L – N E	2 What products were applied to the selected field? [Show product codes from Respondent Booklet.]	3 Was this product bought in liquid or dry form? [Enter L or D]	4 If this was part of a tank mix, enter line number of first product in mix.	5 When was this applied? 1 Before planting 3 At planting 4 After planting 5 Defoliation prior to harvest	6 OI How much was applied per acre per application?	What was the total amount applied per application in the selected field?	8 [Enter unit code] 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Ounces 28 Dry Ounces 30 Grams
	01	61	62	63	64	65 •	73 •	74
	02	61	62	63	64	65 •	73	74
	03	61	62	63	64	65	73	74
	04	61	62	63	64	65 •	73	74
	05	61	62	63	64	65 •	73	74
	06	61	62	63	64	65	73	74
	07	61	62	63	64	65 •	73	74
	08	61	62	63	64	65	73	74
	09	61	62	63	64	65	73	74
	10	61	62	63	64	65	73	74
	11	61	62	63	64	65	73	74
	12	61	62	63	64	65	73	74
	13	61	62	63	64	65	73	74
	14	61	62	63	64	65 •	73	74

2. For biocontrols or pesticides not listed in the 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
- 2 Broadcast, ground with incorporation
- 3 Broadcast, by aircraft
- 4 In seed furrow
- 5 In irrigation water

- 6 Chiseled/injected or knifed in7 Banded in or over row
- 8 Foliar or directed spray
- 9 Spot treatments

	9	10	11	12	13	14
	How was this product applied?	How many acres in the selected field were treated with this product?	How many times was it applied?	Were these applications made by —	What was the cost per unit of the product?	[Enter unit code]
	[Enter code from above.]	with this product?				1 Pounds 12 Gallons 13 Quarts
L I N E		A	North	Operator, partner, or family member? Custom applicator?	Dallara & Canta man Hait	14 Pints 15 Liquid Ounces 28 Dry Ounces
		Acres	Number	3 Employee/Other?	Dollars & Cents per Unit	
01	76	77 •	79	80	81 •	82
02	76	77 •	79	80	81 •	82
03	76	77	79	80	81	82
04	76	77	79	80	81	82
05	76	77	79	80	81	82
06	76	77	79	80	81	82
07	76	77	79	80	81	82
08	76	77	79	80	81	82
09	76	77	79	80	81	82
10	76	77	79	80	81	82
11	76	77	79	80	81	82
12	76	77	79	80	81	82
13	76	77	79	80	81	82
14	76	77	79	80	81 •	82

					Code
3.	We	re any chemicals, biocontrols, or pesticides applied by custom applicators?		Yes=1 No=3	0323
[If it	em	3 = 1 continue. Otherwise go to item 4.]			Code
	a.	Are you able to report the cost of chemical, biocontrol, and pesticide produ application separately?		Yes=1 No=3	0324
[If it	em	3a = 1, ask—]			
	L	Finally discrete and a fall and a second and	Dollars & Cents per Acre	OR	Total Dollars
	D.	Excluding the cost of the chemical, biocontrol, and pesticide products, how much was spent for custom application of such materials on the selected field? INCLUDE operator, landlord, and contractor costs	0331		0332
		, , ,			
	app	at was the total cost of all chemical, biocontrol, or pesticide products blied to the selected field? INCLUDE operator, landlord, and contractor sts, defoliants, herbicides, insecticides, fungicides, surfactants, wetting	Dollars & Cents per Acre	OR	Total Dollars
	age	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 the selected field? INCLUDE operator, landlord, and contractor costs	3034		3035
			Dollars & Cents per Acre	OR	Total Dollars
	b.	How much was spent for insecticide products applied to the selected field? INCLUDE operator, landlord, and contractor costs	3036		3037
		•	Dollars & Cents per Acre	OR	Total Dollars
	C.	How much was spent for fungicide products applied to the selected field? INCLUDE operator, landlord, and contractor costs	3038		3039
Note	ə:	If custom applied and the costs for materials can be separated from application co Otherwise, report both the material and application costs in item 4.	sts, include the cost f	for mat	erials only.
		Omerwise, report both the material and application costs in item 4.			

Now I have some questions about your pest management decisions and practices used on the selected field for the 2023 soybean crop. By pests, we mean weeds, insects, and diseases.

[En	numerator Action: Were pesticide applications rep	oorted in Section D?]			
	☐ Yes – Continue ☐ No – Go to item 6		-	Code	
1.	Were weather data used to assist in determining applications?		Yes=1 No=3	0800	
2.	Were any biological pesticides such as Bt (<i>Bacill</i> neem or other natural/biological based products selected field?	in the	Yes=1 No=3	0801	
3.	Were pesticides with different mechanisms of ac purpose of keeping pests from becoming resista		Yes=1 No=3	0802	
	numerator Action: Were herbicide (pesticide prod Section D, item 1, column 2?]	uct codes 40000–49999) applications	reported	_	
	☐ Yes – Continue ☐ No – Go to item 6			_	Code
4.	Were herbicides applied to the selected soybear	n field before weeds emerged?		Yes=1 No=3	0803
5.	Were herbicides applied to the selected soybean		Yes=1 No=3	0805	
6.	Were records kept for the selected field to track to diseases?		Yes=1 No=3	0823	
7.	Did you use published information on infestation measures to manage pests in the selected field?		Yes=1 No=3	1824	
0	In 2002, however the colored field wine with	By deliberately going to the field specifically scouting activities [Enter code 1 and go to it]		_	Code
ο.	In 2023, how was the selected field primarily scouted for insects, weeds, diseases, and/or beneficial organisms?	By conducting general observations while proutine tasks [Enter code 2 and go to item	10.]		0808
	· ·	3 The selected field was not scouted. [Enter go to item 13.]		Г	Code
9.	Was an established scouting process such as sy or were insect traps used in the selected field?			Yes=1 No=3	0809
10.	Was scouting for pests done in the selected field	due to —		-	Code
	a. a pest advisory warning?			No=3	0810
	b. a pest development model?			Yes=1 No=3	0811
[lf s	scouted by crop consultant or commercial scout, a	ask item 11. Otherwise go to item 12.]		
		D	ollars & Cents per Acre	OR	Total Dollars
11.	How much was charged for the scouting services INCLUDE operator, landlord, and contractor cost		1	_	0822
					Office Use
	If scouting performed at no cost, explain:				0333
					Code
	Were scouting data compared to published information when to take measures to manage pests in the s	selected field?		Yes=1 No=3	0824
13.	Did you use field mapping of previous weed prob management decisions?			Yes=1 No=3	0825

	20 If you do any of the following other types of pest management for the specific purpose of an anaging or reducing the spread of pests in the selected field?		Code
	Use the services of a diagnostic laboratory for pest identification or soil plant tissue pest analysis for the selected field?	Yes=1 No=3	0841
b.	Plow down crop residue using conventional tillage?	Yes=1 No=3	
C.	Remove/burn down crop residue?	Yes=1 No=3	
d.	Rotate crops in the selected field during the past three years?	Yes=1 No=3	
e.	Maintain ground covers, mulches, or other physical barriers?	Yes=1 No=3	
f.	Choose crop variety because of specific resistance to a certain pest?	Yes=1 No=3	
g.	Use no–till or minimum till?	Yes=1 No=3	0847
h.	Plan planting locations to avoid cross infestation of pests?	Yes=1 No=3	0848
i.	Adjust planting or harvesting dates?	Yes=1 No=3	
j.	Chop, spray, mow, plow, or burn field edges, lanes, ditches, roadways, or fence lines?	Yes=1 No=3	
k.	Clean equipment and field implements after completing field work to reduce the spread of pests?	Yes=1 No=3	0851
l.	Adjust row spacing, plant density, or row directions?	Yes=1 No=3	
m.	Have the seed treated for insect or disease control after you purchased the seed for the selected field?	Yes=1 No=3	0854
n.	Maintain a beneficial insect or vertebrate habitat?	Yes=1 No=3	
0.	Use a flamer to kill weeds?	Yes=1 No=3	0857
p.	Maintain buffer strips or border rows to isolate soybeans from non–organic crops or land, or did you take a buffer harvest?	Yes=1 No=3	0856
q.	Plant earlier or later to avoid weeds?	Yes=1 No=3	0865
			Code
	ere any beneficial organisms, such as insects, nematodes, or fungi applied or released in the ected field to manage pests?	Yes=1 No=3	0853
	ere floral lures, attractants, repellants, pheromone traps, or other biological pest controls used the selected field?	Yes=1 No=3	0858
[If item	15 or item 16 = 1, ask—]		
a.	What were the total materials and application costs for all biological pest controls for the selec	cted fie	eld?
	INCLUDE Dollars & Cents	00	
	operator, landlord, and contractor costs per Acre per Acr	OR □	
	cost for beneficial organisms, insects, nematodes, and fungi EXCLUDE biological pesticides previously reported		0860
			Code
17. Wa	as a trap crop, excluding fallow, grown to help manage insects in the selected field?	Yes=1 No=3	0863
18. Wa	as the selected field left fallow in 2022 to help manage insects on the selected field?	Yes=1 No=3	0864
tre	ere water management practices such as irrigation scheduling, controlled drainage, or atment of retention water used on the selected field to manage pests or toxin–producing and bacteria?	Yes=1 No=3	0861

20. Was protection of beneficial organisms a factor in your pest field?			Yes=1 No=3	1765
[If item 20 = 1, continue. Otherwise go to item 21.]			.10 0	Code
a. Did you change timing of, reduce application rate of, or e	eliminate a pesticide	e application?	Yes=1 No=3	1766
b. Did you change to an alternative pesticide, biocontrol, or	non–pesticide pra	ctice?	Yes=1 No=3	1767
		Units per A	Acre	Unit Codes 1 Pounds 2 CWT 3 Tons 4 Bushels
 If untreated (either with herbicides, tillage, or cultivation), ho bushels per acre) do you think weeds would most likely caus 		e.g.		2730
				Code
22. Did pests, such as weeds, insects, pathogens, or animals, c field in spite of your pest control efforts?			Yes=1 No=3	0827
[If item 22 = 1, ask—]				
How much yield loss per acre do you think was caused by all pests on the selected field in spite of the	Units per Acre	Unit Codes 1 Pounds 2 CWT 3 Tons 4 Bushels	OR	Total Units
management practices you used to reduce those losses?	0829	0828		0830
				Number of Years
23. If you used GMO/GE glyphosate—tolerant seeds on the sele consecutive years you have planted GMO/GE glyphosate—to GMO/GE glyphosate—tolerant crop	olerant corn, soybe	ans, or any other		1970
				Year
a. What year did you first plant any GMO/GE glyphosate–to	olerant seeds on th	e selected field?		1971 — — — —
24. If you used GMO/GE dicamba–tolerant seeds on the selected consecutive years you have planted GMO/GE dicamba–tole glyphosate–tolerant crop	rant soybeans, or a	iny other GMO/GI		Number of Years
				Year
a. What year did you first plant any GMO/GE dicamba–tole	erant seeds on the s	selected field?		1973 — — — —
				Code
 On the selected field in 2023, did you observe symptoms as such as leaf cupping, an increased number of nodes, or heighted 			Yes=1 No=3	1974
[If item 25 = 1, continue. Otherwise go to item 26.]				Code
a. Did you report the injury to the state or local officials?			Yes=1 No=3	1981
b. Was the injury investigated by state or local officials?			Yes=1 No=3	
26. As far as you are aware, did farmers in neighboring fields ob symptoms associated with injury from dicamba in 2023?			Yes=1 No=3	Code 1976
[If item 26 = 1, continue. Otherwise go to item 27.]			1110-3	Code
a. As far as you are aware, did farmers in your county obse	erve leaf cupping or	other	V 1	1977
symptoms associated with injury from dicamba in 2023?			Yes=1 No=3	

					Code
27. As far as you are aware, did far 2023?					1978
[If item 27 = 1, continue. Otherwise	go to item 28.]				Code
a. As far as you are aware, did					1979
					Code
28. On the selected field in 2023, d such as leaf strapping, stem tw					4018
29. Have any of the following herbi	cides been used o	n the selected fiel	d in the specified y	/ears since:	
1	2	3	4	5	6
Active Ingredients	2023 Yes = 1	2022 Yes = 1	2021 Yes = 1	2020 Yes = 1	2019 Yes = 1
	No = 3	No = 3	No = 3 2003	No = 3	No = 3
a. Glyphosate (e.g. Roundup®)	2001	2002			2005
	2006	2007	2008	2009	2010
b. Glufosinate (e.g. Liberty®)					
c. Dicamba (e.g. Xtend®, Xtendimax®, Engenia®)	2011	2012	2013	2014	2015
d. 2, 4–D (e.g. Enlist®)	2738	2739	2740	2741	2742
					Code
30. Have herbicide-tolerant seeds	heen planted on th	ne selected field a	ny time since 2019	Yes = 1 9? No = 3	2021
[If item 30 = 1, continue. Otherwise	•	TO SOLOGICA HOLA A	Ty time since 20 K	J: 140 – 3	
		F			
Г	T	i	1	estions in columns 3 –	
1	2 Have you noticed a	3 What was the first		cline in the effectivene eeds on the selected fi	
For herbicide tolerant seeds that are tolerant of —	decline in the effectiveness of herbicides in controlling weeds in the selected field?	year you noticed a decline in the effectiveness of herbicides in controlling weeds in the selected field?	4 Stop planting herbicide resistant crops with this trait?	5 Change tillage practices?	6 Switch to an alternative herbicide?
	Yes = 1 No = 3	Year	Yes = 1 No = 3	Yes = 1 No = 3	Yes = 1 No = 3
a. Glyphosate (e.g. Roundup®)	2022	2023 — — —	2024	2025	2026
b. Glufosinate (e.g. Liberty®)	2027	2028	2029	2030	2031
c. Dicamba (e.g. Xtend®, Xtendimax®, Engenia®)	2032	2033 — — —	2034	2035	2036
d. 2, 4–D (e.g. Enlist®)	2743	2744 — — —	2745	2746	2747
· - · ·	1	l	1	l	1

	n Code for gement Data		
1 Incomplete/Refusal	0500		

						rk performed	d by	machine	s		Check List			
(on the	selected fi	eld for the 2	2023 soyb	ean crop. P	lease				INCLUDE a	all field work using ma	achines for—		
	•					previous crop,				☐ Land	d forming/Levee Build	ding		
		operations for a cover crop established since the previous crop was harvested. If fallow during 2022, list operations starting with fall 2021.							ge					
	•		•		•	ng of this crop t	to sto	rage or first	t	☐ Prep	paring for Irrigation			
		point of sale							-	☐ Plan	iting			
	•	maintain the	e order of tand	dem hook-up	S.					☐ Ferti	lizer & Pesticide app	lications		
				Co	des for Column	n 5				□ Har\	esting & Hauling to	storage or		
				ou (the Opera artner	ator)						rst point of sale	-		
				npaid Worke	r			Office U		EXCLUDE				
					or Seasonal V	Vorker			rable	i	& Gypsum/land plas			
				aid Full–time ustom Applic				0499			post & Non–comme oplications	rciai manure		
1	2	3	4	5		[[If Co	lumn 5 = co	ode 6, s	kip columns	·			
					6	7		8 C)R	9	10	11		
	S E	What operation or	[Record machine	Who was the	What was	[Record size		ow many		many total	What power	What was the		
L	Q	equipment	code from	machine	the size or swath of the	unit code.]		cres were covered?		were spent nd forming	source was used? Tractors	fuel type of the tractor?		
I	Ū	was used?	Respondent Booklet.]	operator?	[machine]	1 Feet 2 Row		overeu.		hauling?	1 <40 HP	[Record fuel		
N E	E N			[Enter code	used?	3 Moldboard		XCLUDE					2 40-99 HP 3 100-149 HP	type only if
	С			from above.]		bottoms		nd forming nd hauling	bor	der maker,	4 150-199 HP	Column 10 equals 1–51		
	E					Hauling 4 Pounds		perations.		cher, rear nted blade,	5 >=200 HP OR	1 diesel		
						5 Bushels			trucl	ks, wagons,	66 Animal Drawn	2 gasoline 3 LP gas		
						6 Tons			10	rklift etc.]	77 Pick up ^{1/} 99 Self-Propelled	4 other		
No.	No.		Code	Code		Code		Acres		Hours	Code	Code		
	87		88	89	90	91	92	Acres	93	Tiours	94	95		
01														
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	<u> </u>	93		94	95		
13	87		88	89	90	91	92		93		94	95		

 $^{1/}$ lf trucks other than pick-ups are used as the power source, use truck codes in Respondent Booklet

15 87

17 87

Office Use

[Enumerator Action: Were machine or equipment co	des report	ted in item 1	?]			
4029 ₁ Yes – Continue	No – Go	to item 3				Code
Were any of the machines or equipment reported during 2023?			•		Yes = 1 No = 3	4030
[If item 2 = 1, continue. Otherwise go to item 3.]						
1	2			3		
	Record mad om responde	chine code ent booklet.]		list price of the mac r price," not includin values for used	ıg disc	ounts or trade–in
	Cod	de		Dolla	rs	
4031 403	32		4033			
4034 403	35		4036			
4037 403	38		4039			
4040 404	11		4042			
4043 404	14		4045			
Now I need some additional information about your Please report the paid and unpaid labor that wor EXCLUDE labor that was reported for field work	rked on the			duce the 2023 soy	/bean	crop.
	Hov	v many hours	did (type	of worker) spend on	the se	lected field —
		1		2		3
		ng for weeds, and diseases		irrigating?	per	forming 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 EXCLUDE custom and contract labor	1110		1111		1112	
Paid full–time workers EXCLUDE custom and contract labor	1113		1114		1115	
4. What was the average hourly wage rate paid to or seasonal hired workers on the selected field? time workers are defined as those who worked for salaries for less than 30 hours a week on ave EXCLUDE custom and contract workers, payroll and benefits	Part– for wages grage. I taxes	Dollars & Co Per Hou 1119	(1)	Total Dollars per Week 2119	AND	Number of Hours Worked Each Week 3119
5. What was the average hourly wage rate paid to	full–time	Dollars & Co Per Hou	O. 1	Week	AND	Number of Hours Worked Each Week
hired workers on the selected field? EXCLUDE and contract workers, payroll taxes and benefits	custom	1118		2118		3118

Code

		Vaa=1	1116
6. \	Was any contract labor used on the selected field?	Yes=1 No=3	
[If ite	em 6 = 1, continue. Otherwise go to item 7.]		Dollars & Cents Per Acre
á	a. What was the average cost per acre for this contract labor?		1117
	INCLUDE operator, landlord, and contractor costs		•
	What percent of the total number of unpaid hours worked on the selected field was performed by		Percent
	workers under 16 years of age? Estimates of labor costs for unpaid workers are based on off–far wage rates, which are different for workers under 16 relative to those 16 and older		1120
	Now I need some information on how much was spent or will be spent for custom services used of the 2023 soybean crop.	on the	selected field for
	1		2
	Custom Service		luding operator,
	Which of the following services were performed for the 2023 soybean crop on the selected field?	cont mu [c sele	landlord, and ractor costs, how ch was spent for olumn1] on the ected field for the 3 soybean crop?
	[Check box for each service performed; refer to item 1 if necessary.]		Dollars & Cents per Acre
	a. Custom land preparation, shaping and/or leveling?	1121	•
	b. Custom cultivating?	1122	•
	c. Custom planting and/or reseeding?	1123	•
	d. Custom harvesting?	1124	•
	e. Custom hauling to storage or point of first sale?	1126	
Ш	(Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre)		•
П	f. 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)		•——
			Code
	Were the soybeans harvested and hauled from the selected field dried (or will be dried) before they were sold or stored?	Yes=1 No=3	2748
	Did you hire or receive any technical or consultant services to make recommendations such as for nutrient, pest control, irrigation, or precision farming for the selected field?	Yes=1 No=3	1196
[If ite	em 10 = 1, continue. Otherwise, go to item 14.]	•	

11. Which of the following technical or consultant services did you obtain to make recommendations for the selected field?		Code
a. Nutrient recommendations/management service?	Yes=1 No=3	1129
b. Soil or tissue sample collection?	Yes=1 No=3	1130
c. Pest control recommendations/management service?	Yes=1 No=3	1131
d. Pest scouting?	Yes=1 No=3	1132
e. Irrigation management service (i.e. irrigation scheduling)?	Yes=1 No=3	1133
f. Yield map or remote sensing map development/interpretation?	Yes=1 No=3	1134
g. Other custom or technical service? [Specify:]	Yes=1 No=3	1135
[If any item in 11a–g = 1, continue. Otherwise go to item 14.]		Code
12. Were any of the technical or consultant services listed in item 11a–g provided to you at no–cost or were partially reimbursed by the Natural Resources Conservation Service (NRCS)?	Yes=1 No=3	4046
13. If Yes to any of these services in item 11a–g, what was the cost for all of these services? INCLUDE operator, landlord, and contractor costs. EXCLUDE cost of soil or tissue tests or scouting costs previously reported. Do not report Dollars & Cents per Acre	OR	Total Dollars
costs for any of these services reported above if they were previously reported as part of the cost of materials and/or application	_	1137
14. Please report how any data from the selected field in 2023 will be stored and accessed.		
a. Did you access the data collected from the selected field on a —	ı	Code
i. Paper hard copy?	Yes=1 No=3	2485
ii. Personal computer?	Yes=1 No=3	2486
iii. Mobile device?	Yes=1 No=3	2487
b. Did you access the data collected from the selected field through an agricultural technology provider website?	Yes=1 No=3	2488
[If item 14b = 1, continue. Otherwise, go to item 15.]		Code
c. Did you opt out of allowing your agricultural technology provider website to share data collected from the selected field with any third party?	Yes=1 No=3	2489
d. Did you share any of the data collected from the selected field with a third party through an agricultural technology provider website?	Yes=1 No=3	2490

15. Please report the data collection technologies you used on the selected field to produce this crop.

	1	2	3	4	5	6		
				If the tool was used—				
	Data Collection Tool	Was this tool used on the selected field?	Did this tool collect GPS coordinates?	Are data from this tool used to create a map?	What is the replacement cost of this tool?	What is the annual fee for using this tool?		
		Yes=1 No=3	Yes=1 No=3	Yes=1 No=3	Total Dollars	Total dollars		
a.	Yield monitor	2461	2462	2463	2570	2571		
b.	Soil tests on core sample performed on– farm or sent out to a laboratory	2464	2465	2466	2572	2573		
C.	Soil sensor tests	2467	2468	2469	2574	2575		
d.	Hard-wired crop condition sensors	2470	2471	2472	2576	2577		
e.	Wireless crop condition sensors	2473	2474	2475	2578	2579		
f.	Aircraft or satellites	2445	2446	2447	2448	2449		
g.	Drones or Unmanned Aerial Vehicles (UAV)	2455	2456	2457	2458	2459		
h.	Custom service applications – data from completed work on your field	2479	2480	2481	2582	2583		
i.	Public data downloaded from online sources.	2482	2483	2484				

	h.	Custom service applications – data from completed work on your field	2479	2480	2481	2582		2583
	i.	Public data downloaded from online sources.	2482	2483	2484			
I/ IN	NCLU	JDE custom service fees, data subscriptions, and online to	ool subscriptio	ns.				
lf i	tem	15a column 2 = 1, continue to item 16. Other	wise go to it	tem 17.]				
16.	Did	you use the yield monitor information to—						Code
	a.	add/improve tile drainage?						1141
	b.	negotiate new crop leases?					Yes=1 No=3	1144
	C.	help determine chemical input use?					Yes=1 No=3	1143
lf a	any i	item 15 column 2 = 1, continue. Otherwise go	to item 19.]					
17.		ng data collected from the previous tools table ommendations, such as data interpretation, in					t	
	follo	owing—				•		Code
	a.	input dealers without other fee-for-services?					Yes=1 No=3	2491
	b.	input dealers with other fee-for-services?					Yes=1 No=3	2492
	C.	custom service providers?					Yes=1 No=3	2493
	d.	USDA/university extension services?					Yes=1 No=3	2494
lf a	any i	item 17a–d = 1, ask—]						
	e.	What was the cost for all of these services? I landlord and contractor costs. EXCLUDE costs.		•		& Cents Acre	OR	Total Dollars
							1	
		services if they were previously reported as p materials and/or application			3150	•	315	51

28 [If item 15g column 2 = 1, ask—] 18. In the selected field, did you use the UAV for any of the following purposes? Code Yes=1 3161 a. Weed analysis?.... No=3 Yes=1 3165 b. Yield analysis?.... No=3 Yes=1 3166 c. Moisture analysis?.... No=3 19. Was any of the following GPS-enabled (Global Positioning System) equipment used to produce soybeans on the selected field in 2023? Code 2155 Yes=1 Mounted in-cab heads-up displays? No=3Yes=1 Smart phones or computer tablets? No=3 c. Automatic section control, such as auto sprayer boom controls or automatic section shut 2165 Yes=1 No=3 20. If any GPS-enabled equipment was used, what was the cost to purchase and install all GPS-enabled equipment, not including guidance auto-steering **Dollars & Cents** equipment? INCLUDE cost for GPS receiver and annual GPS subscription fee. OR per Acre **Total Dollars** and operator, landlord, and contractor costs. EXCLUDE costs for any of this 2166 2167 equipment if they were previously reported as part of the costs of materials and/or application..... Code 2148 21. Were any automated guidance systems (i.e. auto-steer), excluding Light Bar, used on the Yes=1 selected field? No=3 [If item 21 = 1, continue. Otherwise go to item 21f.] 1 New. owned? Code 2 Used, owned? 2158 a. Was the automated guidance system..... 3 Leased? Year 2159 What year was the automated guidance system first purchased?..... **Dollars & Cents** OR per Acre **Total Dollars** 2160 2161 What is the replacement cost for the automated guidance system?..... **Dollars & Cents** OR per Acre **Total Dollars** 2162 2163 d. What is the annual fee for the automated guidance system?..... e. For what reasons did you choose to use an automated guidance system? (Select all that apply.) Increase yields 4048 Reduce input costs 4049 Reduce operator fatigue Improve soil conditions Technology came "standard" 4052 Reduce environmental impacts 4050 4051 on my equipment (i.e. soil compaction) (i.e. emissions) Other 4053

[If item 21 = 3, ask—]

f. For what reasons did you choose not to use an automated guidance system? (Select all that apply.)

Costs are too high relative to benefits 4055 Benefits are uncertain 4056 Too complicated to use

4057 Not sufficiently accurate

4058 Not suitable for my operation

4059 Other

		C	oue
22. Was a variable rate applicator used on the selected field?	Yes=1 No=3		

[If item 22 = 1 continue. Otherwise go to Section G.]

Please report the variable rate applicator types you used on the selected 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	6
	Tool Used	Was this applicator?—	Was this applicator?—	What year was the applicator first used?	Premium paid for the applicator
Was a variable rate applicator used on the selected field for—		1 Sensor-based 2 GPS-based 3 Both 4 Neither	1 New, owned 2 Used, owned 3 Leased		
	Yes=1 No=3	Code	Code	Year	Total Dollars
a. seeding	1158	2170	2171	2172	2173
b. fertilizer/lime applications	1152	2174	2175	2176	2177
c. pesticide applications	1159	2178	2179	2180	2181
d. irrigation applications	1197	2182	2183	2184	2185

G	IRRIGATION	

					Acres	
1	Ηον	ow many acres in the selected field were irrigated for the 2023 soybea	an crop?		1160	
		ne, go to Conclusion]	arr 6r6p:		•	
-				r 11 r 11 01	200	
2.	No	ow I have some questions about the irrigation systems and water use	d on the selected i	field for the 20	023 soybean crop.	
				Unit	System	
	a.	What type(s) of irrigation system(s) was (or were) used to irrigate the [Show System Type Codes in the Respondent Booklet. Enter System Type Codes in the Respondent Booklet.	System Type	1161		
				Code		
		NAME of the second seco		Inches per	1162	
	D.			OR	1163	
		sources		Total Acre Feet		
[If c	per	rator cannot provide item 2b, ask (i) and (ii). Otherwise go to 2c]				
				Total Hours	1164	
		ii. How many gallons per minute were applied?		Gallons per Minute	1165	
	C.			Percent	1166	
	d.		Number of Irrigations	1167		
	e.	, , ,, , , , , , , , , , , , , , , , ,				
		type for pump closest to water 3 Centrifugal		Code	1168	
		5 Siphon	5 Siphon			
		99 No Pump		Callana nar	1160	
	for the system covering the most field acres.]					
ΓIf it	em	n 2a = code 1–9 (Pressure System), ask—1				
[• • •		Pounds per	1170	
	g.	What was the system operating pressure?		Square Inch		
		2 Gasoline				
	h.	pump the water?4 Natural Gas		Code	1171	
	i.	What was the average motor size?		Horsepower	1172	
[If N	lo F	Pump was used, item 2e = 99, ask—]				
	j.	What was the average flow rate?		Gallons per Minute	1173	
	k.	How many other acres on this operation were irrigated using the se irrigation system during the 2023 growing season? EXCLUDE the		Acres	1174	

Dollars & Cents

		per Acre OF	Total Dollars
3.	3. What was the cost of the fuel or electricity used to irrigate the sel INCLUDE operator, landlord, and contractor costs		1190
	INCLUDE operator, landiord, and contractor costs		Code
1	4. Was any water purphased to irrigate the selected field? INCLUD	□ landlard's share and	1191
4.	Was any water purchased to irrigate the selected field? INCLUD purchases from all sources		
[If i	[If item 4 = 1, continue. Otherwise go to item 5.]		
		Dollars & Cents	
	a. What was the total cost for the water purchased for the select the 2023 growing season? INCLUDE operator, landlord, and costs and ditch maintenance costs for the selected field	contractor 1193	Total Dollars
ΓIf	[If siphon tubes were used, item 2a = 10 or 11, ask—]	<u> </u>	Total Dollars
Į., ,	[II sipheri tabes were assa, item za in or in, ask]		1201
5.	5. What would be the total cost to replace all the siphon tubes used	on the selected field?	
[lf p	[If poly pipe system was used, item 2a = 14, ask—]		Total Dollars
6.	6. What was the total amount spent for poly pipe used on the select season? INCLUDE operator, landlord, and contractor costs		1202
[If o	[If gated pipe system was used, item 2a = 15 or 16, ask—]		Inches
			1203
7.	7. What was the average diameter of gated pipe used to irrigate the	selected field?	
			Feet
	a. What was the total length of gated pipe used?		1204
[If [[If Pipe systems were used, item 2a = 10, 11, 14, 15 or 16, ask—]		Code
Į., ,	[In the dystems were used, item 2d 10, 11, 14, 10 of 10, doi: 1	Yes=	1005
8.	8. Were wells used to supply irrigation water for the selected field?.		·
[lf i	[If item 8 = 1, continue. Otherwise go to item 9.]		Number
			1206
	 How many wells were used to irrigate the selected field? 		
	,		In all an
			Inches
	b. What was the average diameter of the outer well casing?		Inches 1207
	b. What was the average diameter of the outer well casing?c. What was the average pumping depth of these wells during t	he irrigation season? Pumping depth	. 1207 . Feet
	b. What was the average diameter of the outer well casing?	he irrigation season? Pumping depth an average decline in the water level	. 1207 . Feet
	b. What was the average diameter of the outer well casing?c. What was the average pumping depth of these wells during t is the depth to water at the start of the irrigation season, plus	he irrigation season? Pumping depth an average decline in the water level	Feet
	b. What was the average diameter of the outer well casing?c. What was the average pumping depth of these wells during t is the depth to water at the start of the irrigation season, plus	he irrigation season? Pumping depth an average decline in the water level	Feet 1208 Code
[If i	 b. What was the average diameter of the outer well casing? c. What was the average pumping depth of these wells during t is the depth to water at the start of the irrigation season, plus caused by pumping during the irrigation season d. Were other fields irrigated using water pumped from wells that 	he irrigation season? Pumping depth an average decline in the water level	Feet 1208 Code
[lf i	 b. What was the average diameter of the outer well casing? c. What was the average pumping depth of these wells during t is the depth to water at the start of the irrigation season, plus caused by pumping during the irrigation season d. Were other fields irrigated using water pumped from wells the selected field? 	he irrigation season? Pumping depth an average decline in the water level at supplied water to the Yes= No=	Feet 1208 Code 1 1210 Acres
[lf i	 b. What was the average diameter of the outer well casing? c. What was the average pumping depth of these wells during t is the depth to water at the start of the irrigation season, plus caused by pumping during the irrigation season d. Were other fields irrigated using water pumped from wells the selected field? [If item 8d = 1, continue. Otherwise go to item 9.] e. Excluding the selected field, how many other acres on this or 	he irrigation season? Pumping depth an average decline in the water level at supplied water to the Yes= No=	Feet 1208 Code 1 1210 Acres
	 b. What was the average diameter of the outer well casing? c. What was the average pumping depth of these wells during t is the depth to water at the start of the irrigation season, plus caused by pumping during the irrigation season d. Were other fields irrigated using water pumped from wells the selected field? [If item 8d = 1, continue. Otherwise go to item 9.] e. Excluding the selected field, how many other acres on this or 	the irrigation season? Pumping depth an average decline in the water level at supplied water to the Yes= No= Deration were irrigated using the same of the source to the system in Yes=	Feet 1208 Code 1210 Acres 1211 Code
9.	 b. What was the average diameter of the outer well casing? c. What was the average pumping depth of these wells during t is the depth to water at the start of the irrigation season, plus caused by pumping during the irrigation season d. Were other fields irrigated using water pumped from wells the selected field?	the irrigation season? Pumping depth an average decline in the water level at supplied water to the Yes= No= Deration were irrigated using the same of the source to the system in Yes=	Feet 1208 Code 1210 Acres 1211 Code
9.	 b. What was the average diameter of the outer well casing? c. What was the average pumping depth of these wells during t is the depth to water at the start of the irrigation season, plus caused by pumping during the irrigation season d. Were other fields irrigated using water pumped from wells the selected field?	the irrigation season? Pumping depth an average decline in the water level at supplied water to the Yes= No= Deration were irrigated using the same of the source to the system in Yes= No=	Feet 1208 Code 1210 Acres 1211 Code
9.	 b. What was the average diameter of the outer well casing? c. What was the average pumping depth of these wells during t is the depth to water at the start of the irrigation season, plus caused by pumping during the irrigation season d. Were other fields irrigated using water pumped from wells the selected field? [If item 8d = 1, continue. Otherwise go to item 9.] e. Excluding the selected field, how many other acres on this or wells during the 2023 growing season? 9. Was any additional mainline or lateral pipe used to carry water from the same wells during the 2023 growing season? 	the irrigation season? Pumping depth an average decline in the water level at supplied water to the Yes= No= Deration were irrigated using the same of the source to the system in Yes= No=	Feet 1208 Code 1210 Acres 1211 Code 12211 Inches
9.	 b. What was the average diameter of the outer well casing? c. What was the average pumping depth of these wells during t is the depth to water at the start of the irrigation season, plus caused by pumping during the irrigation season d. Were other fields irrigated using water pumped from wells the selected field?	the irrigation season? Pumping depth an average decline in the water level at supplied water to the Yes= No= Deration were irrigated using the same of the source to the system in Yes= No=	Feet 1207 Feet 1208 Code 1210 Acres 1211 Code 13 Inches 1212 Feet
9.	 b. What was the average diameter of the outer well casing? c. What was the average pumping depth of these wells during t is the depth to water at the start of the irrigation season, plus caused by pumping during the irrigation season d. Were other fields irrigated using water pumped from wells the selected field?	the irrigation season? Pumping depth an average decline in the water level at supplied water to the Yes= No= Department of the Supplied water to the Yes= No= Department of the Supplied water to the Yes= No= Department of the Supplied water to the Supplied water	Feet 1207 Feet 1208 Code 1210 Acres 1211 Code 12211 Inches 1212 Feet 1213

CONCLUSION

Location of	Selected Field	d									
I need to loo	cate the selec	ted field of soy	beans on this	s map.		County	/ Name		St		e Use y FIPS Code
1. What co	unty is the se	lected soybea	n field in?						001	0	
	·	·		LATITU	DE			L	ONGIT	TUDE	
a Field	d location		9854				9855 _				
u. 11010				ded	cimal					decimal	
[Enumerato		the iPad app g the aerial in				of the s	elected f	ield. Co	onfirm	n with the	e operator
		formation to c ime that is go		study. We wil	I contact yo	ou in Fe	ebruary o	r March	2024	4 to colle	ect it. I'll
								ffice Use	Only		
							(Military)	OR		Total	
				0	Hour	S	Minutes		Н	lours	Minutes
2. Ending t	ime				005			8000			
3. Records	s Use – 「Did	respondent u	se farm/ranch	records to re	eport—1	•		•	•	•	
		Code				ode					Code
	,	Yes=1 0011			Yes=1 0012		[majori	ty of this		Yes=1	0013
[fertilize	er data?]		[pesticide	data?]						No=3	
4. Supplen	nents Used –	[Record the	e total number	of each type	of supplen	nent us	ed to cor	nplete t	his in	terview.]	
		Number			Nui	mber		•		_	Number
		0041			0042						0043
Fertilize	er Supplement.		Pesticide	Supplement			Field C	peration	s		
Contact Inf	ormation										
Operator Em	ail:						Operato	r Phone:			
9929					9917		9918				check if
					Check to results by						cell phone
							()				
0 " 5	/:6 1:66						<u> </u>		/: c !:		-
-	nail: (if different	from above)						n Phone	e: (If di	fferent fro	om above)
9937					9920 Check to re	eceive	9936				check if cell phone
					results by	email					
							()				- "
Respondent	Name:			Respon	dent Phone (if differe	ent from a	bove)			<u>. </u>
9912				9911				check if	9910	MM	DD YY
				()					Date:		
	This complet	es the survey.	The results w	vill be availah	le on the re	lease c	late at na	ass usd		/results	
	s complet			ank you for y		.5355	.3.5 01 110		go v	,. 556110	
				OFFICE US	SE						
R. Unit	Ptr 1 Str	Ptr 2 Str	Ptr 3 Str	Ptr 4 Str	OPS	S	SSO 1	AD	J	Optio	onal Use
9921	9922	9923	9927	9928	923	9907		922		9906	9916
Res	sponse	Respo	ndent	Mod	le	Е	num.		1	POID	<u>'</u>

2-PATI (tel) 3-PAPI (Face-to-Face)

9903

9998

9989

9900

Eval.

Change

9985

1-Op/Mgr 2-Spouse 3-Acct/Bkpr 4-Partner 9-Other

9902

9901

1-Comp 2-R 3-Inac

4-Office Hold