# AGRICULTURAL RESOURCE MANAGEMENT SURVEY

OMB No. 0535-0218 Approval Expires: 07/31/2021 Project Code: 906 SMetaKey: 2054 Phase 2



# ERS:::

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## SOYBEAN PRODUCTION PRACTICES AND COSTS REPORT FOR 2018

VERSION			ID	TRAC	Т	SUBTRACT	C-TYPE	]
7				01			120	
			CONTAC	T RECORD				4
DATE	TIME				NO	TES		
INTRODUCTION [Introduce yourse		e operator.	. Rephrase in your owr	n words.]				
possible. The inf who willfully discl conducted in acc applicable Federa	ormation you prov oses ANY identifia ordance with the ( al laws. For more	vide will be able inforr Confidenti informatio	nd costs to produce soy e used for statistical pur mation about you or you ial Information Protectic on on how we protect y to refer to your farm re	poses only. Y ir operation is n provisions o our informatior	′our r subje f Title n plea	esponses will b ect to a jail term e V, subtitle A, l ase visit: https:/	be kept confide , a fine, or both Public I aw 107	ntial and any person . This survey is -347 and other
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# SOYBEAN FIELD SELECTION

		тот	AL PLANTED ACRES
1.	How many acres of soybeans did this operation plant for the 2018 crop year? [If no acres planted, review Screening Survey Information Form, make notes, then go to item 4 on back page]	0050	

#### I will follow a simple procedure to make a random selection from the soybean fields planted for the 2018 crop.

TOTAL NUMBER OF FIELDS PLANTED					
0020					

Α

- 2. What is the TOTAL number of soybean fields that were planted on this operation? [If only one field enter "1" and go to item 4.].
- 3. Please list these fields according to identifying name/number or describe each field, then I will tell you which field has been selected.

[If there are more than 18 fields make sure item **2** is **TOTAL** fields planted, and list only the 18 fields closest to the operator's permanent residence. If respondent is unable to identify or describe the fields, use the Field Selection Grid Supplement.]

#### FIELD NAME, NUMBER OR DESCRIPTION

Α

#### FIELD NAME, NUMBER OR DESCRIPTION

1	10
2	11
3	12
4	13
5	14
6	15
7	16
8	17
9	18

- 2 -

#### **APPLY "RANDOM NUMBER" LABEL HERE**

4.	[ENUMERATOR ACTION: Circle the pair of numbers on the above label associated with	h	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.]		0021
5.	The field selected is (field name/number/description).		
	During this interview, the soybean questions will be about this selected soybean fi [Be sure the operator can identify the selected field.]	eld.	
6.	For the randomly selected field above, please provide the Farm Service Agency (FSA):		
	[If the physical field in this survey spans multiple FSA administrative fields, please include the farm, tract, and field number for the largest administrative field. These numbers are field identifiers that USDA uses to administer farm programs like crop insurance, commodity programs, and conservation programs. Having this information helps USDA make better use of other data you have provided to USDA and will improve the types of statistical analysis that can be done with the responses from this survey.]		NUMBER
		1070	
	a. Farm Number (up to 8 digits)		
		1071	
	b. Tract Number (up to 7 digits)		
		1072	
	c. Field Number (up to 4 digits, exclude subfield letters)		

OFFICE USE
<b>OY Field Substituted</b>

SELECTED FIELD

NUMBER

В	FIELD CHARACTERISTICSSELECTED FIELD	В
1.	How many acres of soybeans did this operation plant in the selected field for the 2018 crop? .	ACRES
	a. Are the acres in the selected field <b>CERTIFIED ORGANIC</b> ?	1300 1
	[If <b>YES</b> , skip 1b and ask item 2.]	
	b. Was the selected field transitioning into organic soybean production in 2018? YES =	1399 1
		CODE
2.	Were the acres in the selected field       1       owned by this operation?         2       rented for CASH with the payment being a fixed cash amount?         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?	1302
		DOLLARS & CENTS PER ACRE
3.	[If field is CASH RENTED (item 2 = 2, 3 or 5), ask item 3, else go to item 4.] What was the cash rent paid per acre for the selected 2018 soybean field?	. 1303
		PERCENT
4.	[ <i>If field is SHARE RENTED (item 2 = 4 or 5), ask</i> ] What was the landlord's share of the crop from the selected field?	1304
5.	[If field is RENTED (item 2 = 2, 3, 4, 5, or 6), ask]	
	What was the total cost for all inputs provided by any landlord for the 2018 crop on the selected field? <i>Include</i> the costs for all inputs, such as seed, fertilizer, chemicals, technical services, custom operations, drying	
	and irrigation. <b>Exclude</b> real estate tax expenses and lime costs paid by the landowner	1306
		YEAR
		1312
6.	In what year did you (the operator listed on the label) start operating the selected field?	
		MM DD YY
7	On what data was the colorial field planted?	1308
7.	On what date was the selected field planted?	BUSHELS PER
		1311
	a. What was your yield goal at planting for the selected field?	

# FIFL D CHARACTERISTICS....SELECTED FIELD

- 4 -

			CODE
			1309
8.	Was the soybean seed planted on the selected field purchased?	YES :	
[ <i>lf</i> ]	item 8 = YES, ask]	DOLLARS & CENTS PER UNIT	1 = POUND 4 = BUSHEL 22 = ACRE 23 = 50 LB BAG 24 = 140,000 SEED UNITS
	a. What was the total cost per unit ( <i>including both your and the landlord's share</i> ) of purchased seed for the selected field? <i>Include</i> cost of seed treatment. List the cost after deducting any rebates and discounts	1319 ·	1320
			CODE
			1286
	b. Did you receive a rebate or discount on the seed you purchased?	YES = 1	
[ <i>lf</i>	item 8b =YES,ask]	DOLLARS & CENTS PER UNIT	UNIT CODE 1 = POUND 4 = BUSHEL 22 = ACRE 23 = 50 LB BAG 24 = 140,000 SEED UNITS
["		1287	1288
	c. What was the rebate or discount per unit?	·	
		UNITS	UNIT CODEs for Seeding Rate 1 = POUNDS/ACRE 2 = CWT/ACRE 4 = BUSHELS/ACRE 25 = SEEDS/ACRE 38 = SEEDS/FOOT
9.	What was the seeding rate per acre the first time the selected field was planted?	1313 	1314
		_	CODE
	a. Was the soybean seed       1 Drilled?         2 Planted in conventional rows?         3 Broadcast on the selected field?		1316
[ <i>lf</i>	Drilled or Planted (item $9a = 1 \text{ or } 2$ ), ask]		INCHES
10	. What was the average soybean row width for the selected field?		1322
			ACRES
11.	How many acres in the selected field had to be replanted to soybeans? (Acres replanted = Number of acres times the number of times replanted.)		1315 
			CODE
12	For the 2018 soybean crop, was the soybean seed       1 Treated with a pesticide prior to purchase?         3 Not treated with a pesticide?		3062
[lf	item 12 = 1 or 2, ask]	SEED TREATME	
-	a. What was the name of the seed treatment? Write seed treatment name in the box provided		
			CODE
	b. What was the seed treatment code? Enter the appropriate seed treatment code Respondent Booklet (Pages 3 - 4). ( <i>Enter 999 if a seed treatment was applied</i> <i>Enter "-1" if the seed treatment is not known.</i> )	l but is not listed.	2325

		1	2 2017
	id the soybeans planted on the selected field have any of the following enetically modified organism/genetically engineered (GMO/GE) seed traits in	2018	YES = 1 N/A = 4 (No
	018 or 2017?	YES = 1	Soybeans in Field)
-	Charlesote telesones (e.g. Deurdur Deed ®)	2306	2307
a.	Glyphosate tolerance (e.g. Roundup Ready®)	2312	2313
b.	Glufosinate tolerance (e.g. LibertyLink®)	2012	2010
		2310	2311
C.	Dicamba tolerance (e.g. Xtend®)		
d.	HPPD tolerance (e.g. Balance®, MGI)	2330	2331
u.			
		1	2 2017
14. <b>D</b>	id the soybeans planted on the selected field have any of the following	2018	YES = 1 N/A = 4 (No
	aits (not GMO/GE) in 2018 or 2017?	YES = 1	Soybeans in Field)
		2332	2333
а.	Sulfonylurea tolerance (e.g. Sulfonylurea Ready, SR, STS®, BOLT®)		
b.	Soybean cyst nematode resistance (e.g. SCN)	2334	2335
		2336	2337
C.	Phytopthora root-rot resistance (e.g. PRR).		
d	Aphid resistance (e.g. Rag1, Rag2)	2338	2339
d.			CODE
15 E/	or the 2018 soybean crop, did you plant a commercial seed product		2340
	i the selected field?	YES = 1	
[If iten	n 15 is "Yes", ask] сом	MERCIAL SEED PRO	DUCT NAME
a.	What was the name of the seed product? Write the seed product name in the box provided		
			CODE
b.	What was the seed product code? Enter the appropriate product code from the R Booklet (Page 5). ( <i>Enter 999 if a seed product was purchased but the product is Enter "-1" if the product is not known</i> .).	not listed.	2343
		<u> </u>	CODE
	ere the soybeans from the selected field sold (or will they be sold) through narket specifically for non-genetically modified soybeans?		2383
	n 16 = YES, ask]	[	DOLLARS & CENTS PER BUSHEL
-	What was the price premium (or the expected premium if not yet sold) received for	or these	2384
α.	non-genetically modified soybeans?		•
		-	CODE
47	a how was of the polosial field have a second stad		1328
17. На	s harvest of the selected field been completed?	YES = 1	

#### 18. Now I need information about the acres harvested (or to be harvested) and the yields from the selected field.

How many acres in the selected soybean field were (or will be)		1 What yield per acre did you (or do you expect to) get for soybeans	2 UNIT CODE 1 Pounds 2 CWT 3 Tons 4 Bushels
	ACRES	UNITS PER ACRE	CODE
a. harvested for grain or seed?	1346	1347	1348
b. abandoned?	1351		

	CROP CODE LIST for item 19 – PREVIOUSLY PLANTED CROPS						
190	Barley	311	Grasses including clover	22	Rye	318	No crop planted
6	Corn for grain	1	Hay, alfalfa	240	Sorghum, all	291	Other field crop
5	Corn for silage	11	Hay, all other	26	Soybeans	292	Other crop
283	Cotton (all)	15	Oats	263	Wheat, spring	312	Cover crop mix
302	CRP	21	Rice	165	Wheat, winter		

#### 19. Please report the history of crops on the majority of the selected field, including cover crops.

1			2	3	4	5	6
What crops were PLANTED on the	selected field in-		What type of crop was grown on the selected field?	a cover crop?	How did you terminate this cover crop?	Was the selected field irrigated?	Was the selected field no-tilled or strip-tilled? 1/
			<ol> <li>GMO/GE Herbicide Tolerant (HT)</li> <li>GMO/GE Insect Resistant (Bt)</li> <li>Stacked (HT and Bt)</li> <li>Not GMO/GE</li> </ol>		<ol> <li>Tilled-in</li> <li>Herbicide</li> <li>Rolled</li> <li>Grazed</li> <li>Harvested for forage</li> <li>Harvested for grain</li> </ol>		
SEASON AND YEAR	CROP NAME	CROP CODE	CODE	YES = 1 NO = 3	CODE	YES = 1 NO = 3	YES = 1 NO = 3
a. SPRING/SUMMER OF 2018?	Soybeans	26	1486			2345	1344
b. FALL OF 2017?		1343	1487	1470	1471	2344	1345
c. SPRING/SUMMER of 2017?		1369	1488	1472	1473	2370	1371
d. FALL of 2016?		1372	1489	1474	1475	2373	1374
e. SPRING/SUMMER of 2016?		1375	1490	1476	1477	2376	1377
f. FALL of 2015?		1378	1491	1478	1479	2379	1380
g. SPRING/SUMMER of 2015?		1381	1492	1480	1481	2382	1383
h. FALL of 2014?		1366	1493	1482	1483	2367	1368
i. SPRING/SUMMER of 2014?		1340	1494	1484	1485	2341	1342

<sup>1/</sup> No-till means leaving soil and previous crop residue undisturbed from harvest to planting. Strip-till means tilling a narrow strip over the row, leaving soil and previous crop residue between the rows undisturbed.

	DOLLARS & CENTS PER ACRE
j. [ <i>If a cover crop was planted in Spring/Summer 2017, or Fall 2017, ask—</i> ] 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 (enter zero if no program payment was received)?	1495 •
20. Has any part of the selected field been classified as "Highly Erodible"? (Cropland identified as highly erodible is subject to highly erodible land conservation (HELC) requirements. Producers who receive farm program payments are required to have (and apply) a written soil conservation plan, prepared in accordance with Federal standards.) YES =	CODE 1404 1
21. 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 =	1405
<ul> <li>22. What is the slope of the selected field?</li> <li>24. What is the slope of the selected field?</li> <li>1 Nearly level 0 - 2%</li> <li>2 Even, moderate grade 3 - 9%</li> <li>3 Variable, moderate grade</li> <li>4 Even, steep grade over 10%</li> <li>5 Variable, steep grade</li> </ul>	<b>CODE</b>
23. What is the primary soil texture of the selected field?	<b>CODE</b>

24. Next we will ask about soil and water concerns that you have on the selected field.

In the selected field, are you concerned about any of the following?	CODE YES = 1	sources to evaluate this reso sources that you rec 1 USDA – NRCS 2 Cooperative Extensio 3 Other USDA staff, inc	
	NO = 3	Source 1	Source 2
a. Water-driven erosion	2407	2417	2427
b. Wind-driven erosion	2408	2418	2428
c. Soil compaction	2409	2419	2429
d. Poor drainage	2410	2420	2430
e. Low organic matter	2411	2421	2431
f. Water quality	2412	2422	2432
g. Other concerns.	2413	2423	2433
h. *No significant concerns	2414		

\*ENUMERATOR NOTE: Enter Yes = 1 for item h, *No significant concerns*, ONLY if the respondent replies NO = 3 to all other concerns (items a – g).

		CODE
		2402
25. <b>D</b>	id the land use practices for the selected field include subsurface (tile) drainage? YES = 1	
[If YE	S, ask]	YEAR
		2403
a.	In what year was the current subsurface (tile) drainage system installed?	
		FEET
		2607
b.	What is the average width (space between tiles) of your drainage system?	
		INCHES
		2605
C.	What is the average or most common diameter of your tiles?	
		HOURS
d.	On average, how many hours does it take your field to return to normal soil moisture levels following a heavy rain?	2606
		CODE
e.	Does this system include a mechanism for controlled drainage (e.g. stop logs, risers, or float mechanisms)?	2406
la	as the selected field been in any conservation program contracts for which you or your indlord received (or expected to receive) cost-sharing payments, stewardship payments, or incentive payments?	UNIT CODE 1 = Current 2 = Past 3 = Never
		2611
a.	Environmental Quality Incentives Program.	
b.	Conservation Stewardship Program	2612
		2613
c.	Conservation Reserve Program.	-
	5	2614
d.	Other Federal, State, Local, or non-Government source.	

- 27. Now I need information on soil, crop, and land management practices or activities used on the selected field and any financial or technical assistance you may have received in conjunction with those practices.
  - a. From this list, please check any practices or activities that you used on the selected field this year or at any time in the past.

On-fi	On-field Soil and Crop Management								
□ 1	No-Till/Strip-Till	□ 11	Water and sediment basins	□ 30	Implement an integrated pest management plan (written plan)				
□ 2	Conservation Tillage (except no-till/strip-till)	□ 12	Grass Waterway	□ 31	Drift reducing spray nozzles				
□ 3	Cover crop (single species)	□ 13	Grade Stabilization	□ 32	Targeted sprayer (electrical control)				
□ 4	Cover crop mix	□ 40	Implement an energy management plan (written plan)	Adjad	cent to Field				
□ 5	Contour Farming	□ 20	Implement a nutrient management plan (written plan)	□ 33	Filter strip				
□ 6	Conservation crop rotation	□ 21	Precision nutrient application	□ 34	Field border				
□ 10	Terraces	□ 22	Subsurface phosphorous application	□ 35	Riparian Buffer (grass or forest)				

b. For each practice or activity checked in 27a, please complete one line of this table.

1	2	Have you ever receiv	4 Does this practice or activity help satisfy	5 Was this practice or	
		Technical or planning assistance?	Financial assistance?		plan used on this selected field in 2018?
Practice or Activity on the selected field	Practice Code (see item 27a)	<ol> <li>USDA NRCS field staff, cooperative extension, or Technical Service Providers</li> <li>Other Sources of Outside Assistance, such as Soil and Water Conservation Service or a conservation organization</li> <li>No Assistance Needed</li> </ol>	<ol> <li>Environmental Qualify Incentives Program (EQIP)</li> <li>Conservation Stewardship Program (CSP)</li> <li>Conservation Reserve Program (CRP)</li> <li>Other Federal, State, and Local Programs</li> <li>No Assistance Needed</li> </ol>	<ol> <li>A Federal regulatory requirement</li> <li>USDA conservation compliance provisions</li> <li>Does not relate to any regulation or compliance requirement</li> </ol>	YES = 1 NO = 3
	1610	1611	1612	1613	1614
	1615	1616	1617	1618	1619
	1620	1621	1622	1623	1624
	1625	1626	1627	1628	1629
	1630	1631	1632	1633	1634
	1635	1636	1637	1638	1639
	1640	1641	1642	1643	1644
	1645	1646	1647	1648	1649

		CODE
28. In 2018, were the soybeans in the selected crop insurance policy (e.g. hail, replant, wir	field covered by a single or named peril d, freeze)?	2520
[If YES, ask]		
a. In 2018, were the soybeans in the selecter named peril crop insurance policies (e.g. h	d field covered by more than one single or ail, replant, wind, freeze)?YES = 1	2517
		DOLLARS & CENTS PER ACRE
b. What was the dollar amount of coverage p selected field?	er acre for the single peril policy covering the	2521 •
		PERCENT
c. What was the percent deductible for the s (Record no deductible as 0.)	ingle peril policy covering the selected field?	2522
		DOLLARS & CENTS PER ACRE
d. What premium cost per acre did you pay f	or the single peril policy covering the selected field?	2523 •
		CODE
e. Did you (or will you) collect an indemnity peril policy during 2018?	eayment for the selected field from the single YES = 1	1394
29. In 2018, were the soybeans in the selected	d field covered by a multi-peril crop insurance	
policy?		CODE
<b>YES</b> – [ <i>Enter code 1 and continue.</i> ]	□ <b>NO</b> – [Go to Section C.]	1385
	<ol> <li>Federal CAT (basic catastrophic insurance)</li> <li>Yield based</li> </ol>	CODE
a. Which coverage did you obtain?	2       Initial based         3       Revenue based         4       Other multi-peril crop insurance	1386
[ <i>If item 29a = 2, ask</i> ]		PERCENT
		1387
(i) What percent of yield coverage did yo	bu select for the selected field?	
(ii) What percent of price coverage did yo	ou select for the selected field?	1388
[If item 29a = 3, ask]		PERCENT
(iii) What percent of revenue coverage die	d you select for the selected field?	1389
	1 Basic	CODE
b. What type of unit coverage did you purch selected field?	ase for the 2 Optional	2524
		YEAR
	he label) first purchase multi-peril crop insurance	2525
		BUSHELS
		<b>PER ACRE</b> 2526
d. What is the 2018 Approved APH (actual pr	oduction history) yield for the selected field?	

		DOLLARS & CENTS PER ACRE
e.	What was the premium paid for multi-peril crop insurance for the selected field in 2018? ( <i>Exclude</i> any sign-up fee.)	
		CODE
f.	Did you (or will you) collect an indemnity payment for the selected field from Federal crop insurance during 2018?       YES = 1	2528

# С

# NUTRIENT or FERTILIZER APPLICATIONS----SELECTED FIELD

- 13 -

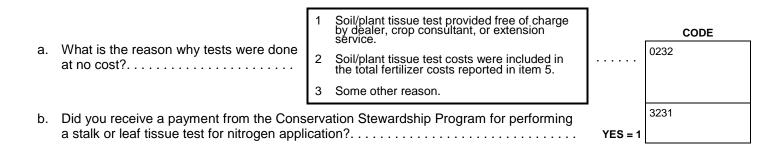
									CODE	OFFICE USE EDIT TABLE
1.	Were commercial nutrients or fertilizers applied to the selected field         for the 2018 soybean crop?       Include those from operators, landlords, and         contractors.       YES = 1							0202 YES = 1	2	0200
	[If COMMERCIAL nutrient or fertilizer applied, continue; else go to Section D.]							.]		NUMBER
2.	How many commercial nutrient or fertilizer applications were made to the set for the 2018 crop? <i>Include</i> applications made by airplanes and custom applications									0203
3.	Now I need to record information for each application.									
		CH	IECK		ST					
~	INCLUDE			✓ E	XCLUDE					
	Custom appl fertilizers	ied nutrients a	and [	M	licronutrients	I				
	Nutrients or	fertilizers appl	ied [	_ U	nprocessed i	manure				
	in the fall of 2 those applied selected field	d earlier if the was fallow ir	2017.	to	utrients or fe previous cro elected field	rtilizers applied ops in the				
	Commerciall or compost	y prepared ma	anure [	Li	ime and gyps	sum/landplaster	Office Us Lines in Ta			
							APPLIC	ATION CODES	for COLUMN 6	
							, ground with i , by aircraft	ut incorporation ncorporation	7 Banded	jected or knifed in in or over row
						4 III Seed tu	rrow		8 Foliar or	directed spray
		:	2			3	4	5	6 Follar or	7
L I N E	pound	MATERIA nter percentage ls of plant nutrie ow Common Nu in Respond	ALS USEI e analysis o ents applie utrients or a	or actu ed per a Fertiliz	acre.]		4 [Enter material code.] 1 Pounds 12 Gallons 19 Pounds of actual	5 When was this applied 1 In the fall before seedi 2 In the spring before seedi 3 At seeding	6 How was this applied?	
I N	pound	MATERIA nter percentage ls of plant nutrie ow Common Nu	ALS USEI e analysis o ents applie utrients or a	or actu ed per a Fertiliz	acre.]	3 What quantity was applied per acre? [Leave this column blank if actual pounds of nutrients	4 [Enter material code.] 1 Pounds 12 Gallons 19 Pounds	When was this applied 1 In the fall before seedi 2 In the spring before seedi	6 How was this applied? [Refer to code list above.]	7 How many acres in the selected field were treated in this
I N	pound [She	MATERIA Inter percentage Is of plant nutrie ow Common Nu in Respond	ALS USEI a analysis of ents applie utrients or r ent Bookle K <sub>2</sub> O	or actu ed per a Fertiliz et.]	acre.] rers S	3 What quantity was applied per acre? [Leave this column blank if actual pounds of nutrients	4 [Enter material code.] 1 Pounds 12 Gallons 19 Pounds of actual	When was this applied 1 In the fall before seedi 2 In the spring before seedi 3 At seeding	6 How was this applied? [Refer to code list above.]	7 How many acres in the selected field were treated in this application?
I N E	Nitrogen	MATERIA nter percentage ls of plant nutrie ow Common Nu in Respond	ALS USEI analysis o ents applie utrients or ent Bookle	or actu ed per a Fertiliz et.]	acre.] zers	3 What quantity was applied per acre? [Leave this column blank if actual pounds of nutrients	4 [Enter material code.] 1 Pounds 12 Gallons 19 Pounds of actual	When was this applied 1 In the fall before seedi 2 In the spring before seedi 3 At seeding	6 How was this applied? [Refer to code list above.]	7 How many acres in the selected field were treated in this
I N	Nitrogen	MATERIA Inter percentage Is of plant nutrie ow Common Nu in Respond P2O5 Phosphate	ALS USEI e analysis o ents applie utrients or r ent Bookle K <sub>2</sub> O Potas	or actu ed per a Fertiliz et.]	acre.] zers <b>S</b> Sulfur	3 What quantity was applied per acre? [Leave this column blank if actual pounds of nutrients were reported.]	4 [Enter material code.] 1 Pounds 12 Gallons 19 Pounds of actual nutrients	When was this applied 1 In the fall before seedi 2 In the spring before seedi 3 At seeding 4 After seeding	6 How was this applied? [Refer to code list above.]	7 How many acres in the selected field were treated in this application?
1 N E 01	Nitrogen	MATERIA Inter percentage Is of plant nutrie ow Common Nu in Respond P2O5 Phosphate 32	ALS USEI e analysis o ents applie utrients or r ent Bookle K2O Potas 33	pr actu ed per a Fertiliz et.]	acre.] ters Sulfur 34	3 What quantity was applied per acre? [Leave this column blank if actual pounds of nutrients were reported.]	4 [Enter material code.] 1 Pounds 12 Gallons 19 Pounds of actual nutrients	When was this applied 1 In the fall before seedi 2 In the spring before seedi 3 At seeding 4 After seeding 38	6How was this applied?ng[Refer to code list above.]ng39	7 How many acres in the selected field were treated in this application? ACRES
I N E 01	Nitrogen	MATERIA Inter percentage Is of plant nutrie ow Common Nu in Respond P2O5 Phosphate 32 32	ALS USEI e analysis o ents applie utrients or r ent Bookle K2O Potas 33 33	pr actu ed per a Fertiliz et.]	acre.] ters Sulfur 34 34	3 What quantity was applied per acre? [Leave this column blank if actual pounds of nutrients were reported.] 36	4 [Enter material code.] 1 Pounds 12 Gallons 19 Pounds of actual nutrients 37 37	When was this applied 1 In the fall before seedi 2 In the spring before seedi 3 At seeding 4 After seeding 38 38	6 How was this applied? [Refer to code list above.] 39 39	7 How many acres in the selected field were treated in this application? ACRES 40 
I N E 01 02 03	Nitrogen 31 31 31 31	MATERIA Inter percentage its of plant nutrie ow Common Nu in Respond P2O5 Phosphate 32 32 32	ALS USEI e analysis of ents applie utrients or r ent Bookle K2O Potas 33 33 33	pr actu ed per a Fertiliz h h	acre.] ters Sulfur 34 34 34	3 What quantity was applied per acre? [Leave this column blank if actual pounds of nutrients were reported.] 36 36 36	4 [Enter material code.] 1 Pounds 12 Gallons 19 Pounds of actual nutrients 37 37 37	When was this applied 1 In the fall before seedi 2 In the spring before seedi 3 At seeding 4 After seeding 38 38 38	6 How was this applied? [Refer to code list above.] 39 39 39	7         How many acres in the selected field were treated in this application?         ACRES         40         40         40            40            40         40            40            40            40            40            40            40            40            40            40
I N E 01 02 03 04	Nitrogen 31 31 31 31 31 31	MATERIA Inter percentage its of plant nutrie ow Common Nu in Respond P2O5 Phosphate 32 32 32 32	ALS USEI e analysis of ents applie utrients or r ent Bookle K2O Potas 33 33 33 33	pr actured per a Fertiliz	acre.] rers Sulfur 34 34 34 34	3 What quantity was applied per acre? [Leave this column blank if actual pounds of nutrients were reported.] 36 36 36 36	4 [Enter material code.] 1 Pounds 12 Gallons 19 Pounds of actual nutrients 37 37 37 37	When was this applied 1 In the fall before seedi 2 In the spring before seedi 3 At seeding 4 After seeding 38 38 38 38	6 How was this applied? [Refer to code list above.] 39 39 39 39	7         How many acres in the selected field were treated in this application?         ACRES         40         -         40         -         40
I N E 01 02 03 04 05	pound [Sho Nitrogen 31 31 31 31 31 31 31 31 31	MATERIA Inter percentage its of plant nutrie ow Common Nu in Respond P2O5 Phosphate 32 32 32 32 32 32	ALS USEI e analysis of ents applie utrients or reent Bookle K2O Potas 33 33 33 33 33 33	pr actured per a Fertiliz	acre.] rers Sulfur 34 34 34 34 34	3 What quantity was applied per acre? [Leave this column blank if actual pounds of nutrients were reported.] 36 36 36 36 36	4 [Enter material code.] 1 Pounds 12 Gallons 19 Pounds of actual nutrients 37 37 37 37 37 37	When was this applied 1 In the fall before seedi 2 In the spring before seedi 3 At seeding 4 After seeding 38 38 38 38 38	6How was this applied?Image: Refer to code list above.]Image: Refer to above.]Image: Refer to above.]Image	7         How many acres in the selected field were treated in this application?         ACRES         40

4.	We	ere any nutrients or fertilizers appli YES - [Continue]	-	tom applicators Go to item 5	s?			
	 a.	Are you able to report the cost of nu		-	and			OFFICE USE
	a.	custom application separately?			anu			0215
		YES - [Continue]	🗌 NO - [(	Go to item 5]				0215
	b.	Excluding the cost of the nutrient or was spent for custom application of selected field? <i>Include</i> operator, la <i>Include</i> costs for sulfur and micron of lime, gypsum, purchased manure and application costs can't be separ record the total in item 5.]	nutrients o andlord, and outrients. E and purch rated, <b>exclu</b>	r fertilizers on th d contractor cost <b>xclude</b> custom ased compost. <b>Jde</b> them here a	e ts. application [If material and	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
5.	ap	nat was the TOTAL COST of all nut plied to the selected field? Include	e operator,	landlord, and co	ontractor	DOLLARS & CENTS		
		sts, as well as the costs for sulfur and plied to the selected field if it was falle				PER ACRE	OR	TOTAL DOLLARS
	pui of I	rchased manure and purchased com material can be separated from appli terials ONLY; otherwise, include both	post. [If cu cation cost	stom applied an s, include the co	d the cost ost of	0221		0222
					-		_	CODE
								0218
~			<i></i>					
6.	Wa	is gypsum applied to the selected	field for th	e 2018 soybea	n crop?	YE	ES = 1	
7.	Wa po	as a soil test for Soil Organic Matte	er perform	ed on the selec	ted soybear	n field at some	ES = 1	3225
[ <i>lf</i>	item	7 = 1, ask]						PERCENT
•		-						3226
	a.	What was the percentage of Soil Org	ganic Matte	er on the selecte	d field for the	e most recent test?		
								NUMBER
	b.	How many times have you tested the	e selected f	field for Soil Org	anic Matter i	n the last 10 years?	?	5221
[ <i> f</i>		7b is more than 1, ask]						CODE
-		Based on these tests, is your Soil O Matter content.	-	1 Increasing 2 Decreasing 3 Staying rough	nly the same	<u> </u>		3228
8.		is a soil or plant tissue test perforr 2018 for the 2018 crop?	med on the	e selected soyb	ean field in	2017		
		YES [Continue.]	<b>D</b> [Go to ite	m 13.]				
								CODE
9.		is a soil test for phosphorus perfore 2018 for the 2018 crop?					S = 1	0225
[ <i>lf</i>	item	9 = 1, ask]						POUNDS PER ACRE
	a.	How many pounds of phosphorus (	per acre) w	ere recommend	ed ( <i>by the ph</i>	nosphorus test)?		0226

	CODE
10. Was a soil test for nitrogen performed on the selected soybean field in 2017 or 2018 for the 2018 crop?       YES = 1	0227
[ <i>If item 10 = 1, ask</i> ]	POUNDS PER ACRE
a. How many pounds of nitrogen (per acre) were recommended (by the nitrogen test)?	0228
	CODE
11. Was a plant tissue test or leaf analysis for nutrient deficiency performed on the selected field in 2017 or 2018 for the 2018 crop?	0229
DOLLARS & CENTS	

12. How much was spent for these soil and plant tissue tests on the selected field in 2017 or 2018 for the 2018 crop? <i>Include</i> operator, landlord, and contractor costs.	0231

[If tests were done at no cost continue, otherwise go to Item 12b.]



[ENUMERATOR ACTION: Refer to the Fertilizer Table, column 2. If nitrogen (N) was applied, complete item 13. If NO nitrogen applied, go to item 14.]

13.	Wa	s the amount of nitrogen you decided to apply to the selected field ba	sed on		CODE
	a.	Results of a soil or plant tissue test?		YES = 1	0233
	b.	Crop consultant recommendation?		YES = 1	0234
	C.	Fertilizer dealer recommendation?		YES = 1	0235
	d.	Extension Service recommendation?		YES = 1	0236
	e.	Cost of nitrogen and/or expected commodity price?		YES = 1	0237
	f.	Contractor recommendation?		YES = 1	0238
	g.	Routine practice (operator's own determination based on past experience, yield goal, etc.)?		YES = 1	0239
	h.	[If nitrogen inhibitors were used, continue; else go to item 14.]	POUNDS PER ACRE	OR	GALLONS PER ACRE
		How much nitrogen inhibitor did you mix with the nitrogen applied to the selected field?	2561		2562

	CODE
	0242
14. Is lime ever applied to the selected field? YES = 1	
[If no lime applied, go to item 15; else continue.]	YEARS
	0243
a. On average, how many years are there between applications of <b>lime</b> to the selected field?	
	TONS PER ACRE
b. How many tang of <b>lime</b> were applied per agree the last time it was applied to the selected field?	0244
b. How many tons of <b>lime</b> were applied per acre the last time it was applied to the selected field?	CODE
	0240
c. Was lime applied to the selected field in 2017 or 2018 for the 2018 crop? YES = 1	
15. Was non-commercial manure (from own farm, from a neighbor's farm, etc.) or other organic	
material (including compost) applied to the selected field for the 2018 soybean crop? Exclude	CODE
commercially prepared manure.	0246
YES - [Enter code 1 and continue]       Image: NO - [Go to Section D]	
	ACRES
	0247
a. How many acres in the selected field was manure or compost applied to?	
1 Tons CODE UNITS PER ACRE OR	TOTAL UNITS
b. What was the amount of 2 Gallons 0248 0249	0250
the selected field?	·
4 Cubic Yards	
c. Of the total manure or compost applied to the selected field for the 2018	
crop, what was the percent of manure or compost applied	PERCENT
	0254
(i) in the fall before planting?+	
	0255
(ii) in the spring before planting?+	
	0256
(iii) after planting?+	4000/
	100%
1 Lagoon liquid?	CODE
d. Was the manure or compost       2       Slurry liquid?         3       Semi-dry or dry?	0257
<ol> <li>Broadcast or sprayed <i>without</i> incorporation?</li> <li>Broadcast or sprayed <i>with</i> incorporation?</li> </ol>	CODE
3 Injected/knifed in?	0258
e. Was the manure or compost 4 Sprayed using irrigation systems?	

f.	. Was the major source of t manure or compost from-	the	1 Beef cattle? 2 Dairy cattle? 3 Hogs? 4 Sheep? 5 Poultry? 6 Equine? 7 Biosolids ( <i>municipal sludge</i> )? 8 Food waste? 9 Other? [ <i>Specify</i> :	]		<b>CODE</b> 0259
g	. Was the manure or comp		<ol> <li>Produced on this operation?</li> <li>Purchased?</li> <li>Obtained at no cost off this operation?</li> <li>Obtained with compensation? (Opereceived payment for accepting the</li> </ol>	rator	[	<b>CODE</b> 0260
[If ite	em 15g = 2, ask]					
				DOLLARS & PER ACI		TOTAL DOLLARS
	applied to the selecte contractor costs. Inc.	ed field? <b>İnc</b> i <b>Iude</b> any pag	chased manure or compost <b>lude</b> operator, landlord, and yment made for transportation	0284		0285
						CODE
	(ii) Did you hire someone	e to custom	apply the manure or compost?.		YES = 1	0286
[If YI	ES, ask]			DOLLARS & CI PER ACRE		TOTAL DOLLARS
[If YI	(a) What was the tota custom applied to application cost if	the selected to the selected fit was included	o have manure or compost d field? [Do not report custom ded with the purchased manure			TOTAL DOLLARS
[If YI	(a) What was the tota custom applied to application cost if	the selected <i>it was includ</i>	d field? [Do not report custom ded with the purchased manure	PER ACRE		
-	<ul> <li>(a) What was the tota custom applied to application cost if cost.]</li> <li>what is the distance in minimum cost in minimum cost application cost.</li> </ul>	o the selected f it was includ 	d field? [Do not report custom ded with the purchased manure	PER ACRE	<u> </u>	0288
-	<ul> <li>(a) What was the tota custom applied to application cost if cost.]</li> <li>what is the distance in minimum cost in minimum cost application cost.</li> </ul>	o the selected f it was includ 	d field? [Do not report custom ded with the purchased manure 	PER ACRE	<u> </u>	0288 MILES
h	<ul> <li>(a) What was the tota custom applied to application cost if cost.]</li> <li>h. What is the distance in millocation and the selected for a sele</li></ul>	the selected it was includ iles between field? st applied to	d field? [Do not report custom ded with the purchased manure 	PER ACRE	<u> </u>	0288 MILES 0291  CODE 0261
h	<ul> <li>(a) What was the tota custom applied to <i>application cost if cost.</i>]</li> <li>what is the distance in millocation and the selected for a selec</li></ul>	o the selected f <i>it was includ</i> iles between field? st applied to on?	d field? [Do not report custom ded with the purchased manure the manure or compost storage the selected field, was any teste	PER ACRE	<u> </u>	0288 MILES 0291  CODE 0261 CODE
- h 16. <b>V</b>	<ul> <li>(a) What was the tota custom applied to <i>application cost if cost.</i>]</li> <li>what is the distance in millocation and the selected for a content prior to application</li> </ul>	the selected it was includ iles between field? st applied to on?	d field? [Do not report custom ded with the purchased manure the manure or compost storage the selected field, was any teste	PER ACRE	E OR	0288 MILES 0291  CODE 0261
h 16. <b>V</b>	<ul> <li>(a) What was the tota custom applied to <i>application cost if cost.</i>]</li> <li>what is the distance in millocation and the selected for a content prior to application</li> </ul>	the selected it was includ iles between field? st applied to on?	d field? [Do not report custom ded with the purchased manure the manure or compost storage the selected field, was any teste <b>S to the selected field influenc</b>	PER ACRE	E OR	0288 MILES 0291  CODE 0261 CODE
h 16. <b>V</b> [ <i>If ite</i>	<ul> <li>(a) What was the tota custom applied to <i>application cost if cost.</i>]</li> <li>what is the distance in millocation and the selected for the manure or composition content prior to application.</li> <li>Were the manure APPLICATION State, or local restrictions?</li> <li>am 16 is YES, ask]</li> </ul>	the selected it was includ iles between field? st applied to on?	d field? [Do not report custom ded with the purchased manure the manure or compost storage the selected field, was any teste <b>S to the selected field influenc</b>	PER ACRE	E OR	0288 MILES 0291  CODE 0261 CODE
h 16. <b>V</b> [ <i>If ite</i>	<ul> <li>(a) What was the tota custom applied to <i>application cost if cost.</i>]</li> <li>what is the distance in millocation and the selected for the manure or composition content prior to application.</li> <li>Were the manure APPLICATION State, or local restrictions?</li> <li>am 16 is YES, ask]</li> <li>Was the basis to determine the manure of /li></ul>	b the selected f it was includ iles between field? st applied to on? TION RATES	d field? [ <i>Do not report custom</i> ded with the purchased manure in the manure or compost storage the selected field, was any teste <b>S to the selected field influenc</b>	PER ACRE	E OR	0288 MILES 0291  CODE 0261 CODE 0264

- 18 -

## **BIOCONTROL or PESTICIDE APPLICATIONS---**SELECTED FIELD

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

			CODE	OFFICE USE
1.	Were any herbicides, insecticides, fungicides or other biocontrols or pesticides used on the selected soybean field for the 2018 crop?	YES = 1		

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

Include defoliants, fungicides, herbicides, insecticides, and other pesticides.	Exclude nutrients or fertilizers reported earlier and seed treatments.			
Include biological and botanical pesticides.		OFFICE USE LINES IN TABLE	TABLE 001	0399

		2	3	4	5	6 0	PR 7	8
CHEMICAL PRODUCT NAME	LINE	What products were applied to the selected field? [Show product codes from Respondent Booklet.]	Was this product bought in liquid or dry form? [Enter L or D]	If this was part of a tank mix, enter line number of first product in mix.	When was this applied? 1 BEFORE planting 3 AT planting 4 AFTER Planting 5 DEFOLIATION prior to harvest	How much was applied per acre per application?	What was the total amount applied per application in the selected field?	[ <i>Enter unit code.</i> ] 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Ounces 28 Dry Ounces 30 Grams
	01	61		63	64	65 		74
	02	61		63	64	65 	73 ·	74
	03	61		63	64	65 		74
	04	61		63	64	65 		74
	05	61		63	64	65		74
	06	61		63	64	65 		74
	07	61		63	64	65 		74
	08	61		63	64	65 		74
	09	61		63	64			74
	10	61		63	64	65 		74
	11	61		63	64		73	74
	12	61		63	64		73	74
	13	61		63	64		73	74
	14	61		63	64	65 	73	74

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

LINE

D

Pesticide Type (Herbicide, Insecticide Fungicide, etc.)

EPA No. or Trade name and Formulation

Form Purchased (Liquid or Dry)

Where Purchased [Ask ONLY if EPA No. cannot be reported.]

D

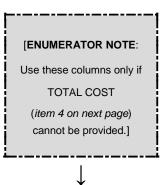
#### APPLICATIONS CODES for column 9

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

- 7 Banded in or over row
- 8 Foliar or directed spray

6 Chisel/injected or knifed in

9 Spot treatments



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

		YES – [Continue]	□ NO – [Go to item 4]			
					-	OFFICE USE
	a.		of chemical, biocontrol, and pesticide produc	cts and custom	İ	0324
		application separately?				
		<b>YES</b> – [Continue]	□ <b>NO</b> – [Go to item 4]			
	۲.	Evoluting the cost of the chemi	ical biocontrol and posticido producto	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
	υ.		ical, biocontrol, and pesticide products, m application of such materials on the	0331		0332
		selected field? Include operate	or, landlord, and contractor costs	•		
4.	DOLLARS & CENTS					TOTAL DOLLARS
			des, insecticides, fungicides, surfactants,	<b>PER ACRE</b> 0334	Г Г	0335
	we		and materials applied before planting and	0354		0335
	uui			•		
				DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
	a.		cide products applied to the selected field?	3034		3035
		Include operator, landlord, and	I contractor costs	•	_	
				DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
	b.		ticide products applied to the selected	3036		3037
		field? Include operator, landloi	rd, and contractor costs	·		

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

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

- 20 -

3. Were any chemicals, biocontrols, or pesticides applied by custom applicators?

## **PEST MANAGEMENT PRACTICES---**SELECTED FIELD

Now I have some questions about your pest management decisions and practices used on the selected field for the 2018 soybean crop. By pests, we mean WEEDS, INSECTS, and DISEASES.

**ENUMERATOR ACTION:** Were PESTICIDE applications reported in Section D?]

Ε

	YES – [Continue]	□ NO – [Go to item 6]	CODE			
1.	Were weather data used to assist in determ pesticide applications?	ining either the need or when to make	0800			
2.	Were any biological pesticides such as Bt ( regulators, neem or other natural/biological manage pests in the selected field?		0801			
3.	Were pesticides with different mechanisms		0802			
[EN	IUMERATOR ACTION: Were HERBICIDE (pe applications repor	sticide product codes 40000-49999) ted in Section D, item 1, column 2?]				
	YES – [Continue]	□ NO – [Go to item 6]	CODE			
			0803			
4.	Were herbicides applied to the selected soy	/bean field BEFORE weeds emerged? YES = 1				
_			0805			
5.		ybean field AFTER weeds emerged? YES = 1				
6.		track the activity or numbers of weeds,	0823			
7.		station thresholds to determine when to take field?	0824			
0	In 2019, how was the colocited field	1 By deliberately going to the field specifically for scouting activities [ <i>Enter code 1 and go to item 9.</i> ]				
8.	In 2018, how was the selected field primarily scouted for insects,	2 By conducting general observations while performing routine tasks [ <i>Enter code 2 and go to item 11</i> .]	CODE 0808			
	weeds, diseases, and/or beneficial organisms?	3 The selected field was not scouted. [Enter code 3 and go to item 14.]				
			CODE			
		ן	0809			
9.	Was an established scouting process (system or were insect traps used in the selected field					
10	10. Was scouting for pests done in the selected field due to					
			<b>CODE</b>			
	a. a pest advisory warning?	YES = 1				
	b. a pest development model?		0811			

	1		2 [ <i>If YES, ask</i> What was the	Who die		YES, ask] ajority of the ing
			infestation lev	10	or [colui	
			for [column 1]?			-
			1 Higher than norm		ator, partr nployee	ner or family member
			2 Normal 3 Lower than norm	3 Farm	supply of	r chemical dealer
11. <b>W</b>	as the selected soybean field scouted	<b>YES = 1</b>	3 Lower than norm		nercial sc	rop consultant or out
fo	ſ	NO = 3	CODE			CODE
		0812	0813	0814		
a.	Weeds?					
		0815	0816	0817		
b.	Insects or mites?					
		0818	0819	0820		
c.	Diseases?					
[If sco	uted by crop consultant or commercial scout,	ask item 12;				
	se go to item 13.]			DOLLARS & CENT	S OR	TOTAL DOLLARS
(a 11				0821		0822
	ow much was charged for the scouting set clude operator, landlord and contractor cost.			0021		0022
	ciude operator, landiord and contractor cost.			•	_	
						OFFICE USE
						0333
a.	[If scouting performed at no cost, explain:_			]		
						CODE
40 <b>D</b>	d you use field menning of providuo was	l problema t				0825
	d you use field mapping of previous weed anagement decisions?				<b>YES</b> = 1	
•••					120 - 1	
14. Di	d you do any of the following other type(s	) of pest main	nagement practic	es for the speci	fic	
	rpose of managing or reducing the sprea nter code "1" for all that apply.]	a of pests in	the selected field	11		CODE
-		f	iti a a ti a sa a sa			0841
a.	Use the services of a diagnostic laboratory soil plant tissue pest analysis for the select				YES = 1	
					152 = 1	
b.	Plow down crop residue (using conventiona	al tillage)?			<b>YES = 1</b>	0842
	· · · · · · · · · · · · · · · · · · ·				•	0843
c.	Remove/burn down crop residue?				<b>YES</b> = 1	0040
d.	Rotate crops in the selected field during the	e past three v	ears?			0844
u.		paor in co y			YES = 1	
			_			0845
e.	Maintain ground covers, mulches, or other	physical barri	ers?		YES = 1	
£	Change grap variaty because of apositio re-	aiotonoo to o	cortain neat?		VE0 4	0846
f.	Choose crop variety because of specific re-	sistance to a	certain pest?		YES = 1	
g.	Use no-till or minimum till?				<b>YES</b> = 1	0847
g.					123 = 1	0848
h.	Plan planting locations to avoid cross infest	tation of pests	s?		<b>YES</b> = 1	0848
	· ····· F ····························					0849
i.	Adjust planting or harvesting dates?				<b>YES</b> = 1	
j.	Chop, spray, mow, plow, or burn field edge	s, lanes, ditcl	nes.			0850
٦.	roadways, or fence lines?				YES = 1	
k.	Clean equipment and field implements afte					0851
N.	the spread of pests?				<b>YES</b> = 1	

- 22 -

l.	Adjust row spacing, plant density or row directions?	ES = 1	0852
		29 = 1	0854
m.	Have the seed treated for insect or disease control after you purchased the seed for the selected field?	ES = 1	
			0855
n.	Maintain a beneficial insect or vertebrate habitat? Y	ES = 1	
0.	Maintain buffer strips or border rows to isolate soybeans from non-organic crops or land, or did you take a buffer harvest?	ES = 1	0856
		29 = 1	0057
p.	Use a flamer to kill weeds? Y	ES = 1	0857
q.	Plant earlier or later to avoid weeds?	ES = 1	0865
15 Ma	re any honoficial organisms (incasts, nometados, funci) annlied		0853
	ere any beneficial organisms (insects, nematodes, fungi) applied released in the selected field to manage pests?	S = 1	
		0 - 1	0858
	ere floral lures, attractants, repellants, pheromone traps or other biological pest ntrols used on the selected field? YE	·	0000
CO		5 = 1	
[If item	15 or item 16 is YES, ask]		
-	What were the TOTAL meterials and application costs		
a.	for all biological pest controls for the selected field?	OR	TOTAL DOLLARS
	Include operator, landlord, and contractor costs. Include cost for	ייי ר	0860
	beneficial organisms (insects, nematodes, and fungi).		
	Exclude biological pesticides previously reported	. [	
			CODE
			0863
17. <b>wa</b>	is a trap crop (excluding fallow) grown to help manage insects in the selected field? YE	S = 1	0005
40			CODE
	is the selected field left in fallow in 2017 to help manage insects on the selected Id?YE	S _ 1	0864
		5 = 1	
	re water management practices such as irrigation scheduling, controlled		
	ainage, or treatment of retention water used on the selected field to manage pests		0861
or	toxin-producing fungi and bacteria? Y	ES = 1	
			Г
	is protection of beneficial organisms a factor in your pest control decisions		1765
TOP	the selected field? Yr	ES = 1	
[If Item	20 is YES, continue. Else go to Item 21.]		
- а.	Did you change timing of, reduce application rate of, or eliminate a		1766
		ES = 1	
			1767
b.	Did you change to an alternative pesticide, biocontrol, or non-pesticide practice?	ES = 1	
	Intreated (either with UNIT CODE UNITS PER		
	rbicides, tillage, or CODE ACRE	I	TOTAL UNITS
	tivation), how much yield 1 BUSHELS 0828 AND 0829	OR	0830
-	u think weeds would most		
	Id?		

22.	. If you used GMO/GE glyphosate-tolerant seeds on the selected field in 2018, indicate the	NUMBER OF YEARS
	number of consecutive years you have planted GMO/GE glyphosate-tolerant corn, soybeans, or any other GMO/GE glyphosate-tolerant crop	1970
		YEAR
		1971
	a. What year did you first plant any GMO/GE glyphosate-tolerant seeds on the selected field?	
		NUMBER OF YEARS
23	If you used GMO/GE dicamba-tolerant seeds on the selected field in 2018, indicate the number of consecutive years you have planted GMO/GE dicamba-tolerant soybeans, or any other GMO/GE dicamba-tolerant crop.	1972
		YEAR
		1973
	a. What year did you first plant any GMO/GE dicamba-tolerant seeds on the selected field?	
		CODE
24	4. Did you observe "cupping" or other symptoms associated with dicamba	1974
	drift/volatility on the selected field in 2018? YES = 1	

[If item 24 = YES, continue, else proceed to item 25.]

a. Do you believe that the damage you observed on the selected field in 2018 was due 

		CODE
25. As far as you are aware, did farmers in neighboring fields observe "cupping" or other symptoms associated with dicamba drift/volatility in 2018?	<b>YES = 1</b>	1976
a. As far as you are aware, did farmers in your county observe "cupping" or other symptoms associated with dicamba drift/volatility in 2018?	YES = 1	1977
26. As far as you are aware, did farmers in neighboring fields plant dicamba-tolerant soybeans in 2018?	YES = 1	1978
a. As far as you are aware, did farmers in your county plant dicamba-tolerant soybeans in 2018?	YES = 1	1979

YEAR

1975

**YES** = 1

#### 27. Have any of the following herbicides been used on the selected field in the specified years since:

1 Active Ingredients	2 2018 YES = 1 NO = 3	3 2017 YES = 1 NO = 3	4 2016 YES = 1 NO = 3	5 2015 YES = 1 NO = 3	6 2014 YES = 1 NO = 3
a. Glyphosate (e.g. Roundup®)	2001	2002	2003	2004	2005
b. Glufosinate (e.g. Liberty®)	2006	2007	2008	2009	2010
c. Dicamba (e.g. Xtend®, Xtendimax®, Engenia®)	2011	2012	2013	2014	2015
d. Active Ingredients in the Sulfonylurea family (e.g. chlorimuron, foramsulfuron, Synchrony® XP, Leadoff®, Basis®)	2016	2017	2018	2019	2020

- 24 -

## 28. Have herbicide-tolerant seeds been planted on the selected field any time since 2014?... YES = 1

[If item 28 is YES, continue, else skip.]

			If column $2 = 1$ , ask questions in columns $3 - 6$				
		2 Have you noticed a decline in the	3 What was the first year you noticed a decline in	After noticing the decline in the effectiveness of this herbicide in controlling weeds on the selected field, did you			
	r herbicide tolerant seeds that are tolerant of	effectiveness of herbicides in controlling weeds in the selected field?	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.	Active Ingredients in the Sulfonylurea family (e.g. chlorimuron, foramsulfuron, Synchrony® XP, Leadoff®, Basis®)	2037	2038	2039	2040	2041	

Completion Code for Pest Management Data			
	0500		
Incomplete/Refusal			

F	FIELD OPERATIONSSELECTED FIELD								F		
1.	Includi machin	ng custom op les on the sel	perations, lected fiel	I need to I d for the 20	ist field work )18 soybean	performed crop. Pleas	by se		СН	ECK LIST	
<ul> <li>begin with the first field operation after harvest of previous crop, including operations for a cover crop established since the previous crop was harvested [<i>if fallow during</i> 2017, <i>list operations starting with fall</i> 2016];</li> <li>list the operations in order through harvest and hauling of this crop to storage or first point of sale; and</li> <li>maintain the order of tandem hook-ups.</li> <li>CODES FOR COLUMN 5         <ul> <li>You (<i>the Operator</i>)</li> <li>Partner</li> <li>Unpaid Worker</li> <li>Paid Part-time or Seasonal Worker</li> <li>Paid Full-time Worker</li> <li>Custom Applicator</li> </ul> </li> <li>(If CUSTOM (column 5 = code 6), <i>skip columns</i> 6-11]</li> </ul>						s lications					
		2		-		-	· ·			-	
L	2 SEQUE	3 What operation or equipment was used?	4 [Record machine code from Respondent Booklet.]	5 Who was the machine operator- [ <i>Enter</i> code	6 What was the size or swath of the [machine]	7 [Record size unit code.] 1 Feet 2 Row 3 Moldboard (bottoms)	m ac W	low lany cres vere ered?	PR 9 How many TOTAL HOURS were spent on land forming, or	10 Which Power Source was used? <sup>1/</sup> Tractors: 1= (<40 HP)	11 What was the fuel type of the tractor?
I N E	I N C E			from above.]	used?	Hauling 4 Pounds 5 Bushels 6 Tons	land a ha	cclude forming and nuling rations]	hauling? [Example: backhoes, disk border maker, ditcher, rear mounted blade, trucks, wagons, forklifts, etc.]	1= (<40 HP) 2= (40-99 HP) 3= (100-149 HP) 4= (150-199 HP) 5= (>=200 HP) <b>Other:</b> 66=Animal Drawn 77=Pick-up 99=Self Propelled <b>1/</b>	type only if Power code equals 1-5] 1=diesel 2=gasoline 3=LP gas 4=other
No.	No.		CODE	CODE		CODE	AC	RES	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		94	95
12	87		88	89	90	91	92	93 94 95			95
13	87		88	89	90	91	92	- <u></u>	93	94	95
14	87		88	89	90	91	92	93 94 95			95
15	87		88	89	90	91	92	93 94 95			95
16	87		88	89	90	91	92		93	94	95
17	87		88	89	90	91	92		93	94	95
18	87		88	89	90	91	92		93	94	95

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

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

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

	How many hours d	How many hours did (type of worker) spend on the selected field						
	1	3						
	scouting for weeds, insects and diseases?	irrigating?	performing other work by hand?					
TYPE OF WORKERS	HOURS	HOURS	HOURS					
You (the operator)	1101	1102	1103					
Partner(s)	1104	1105	1106					
Unpaid workers	1107	1108	1109					
Paid part-time or seasonal workers ( <i>Exclude custom and contract labor</i> )	1110	1111	1112					
Paid full-time workers ( <i>Exclude</i> custom and contract labor)	1113	1114	1115					

		I EK HOOK
3.	What was the average hourly wage rate paid to part-time or seasonal hired workers on the selected field? <i>Exclude</i> custom and contract workers, payroll taxes and benefits	1119 
		DOLLARS & CENTS PER HOUR
4.	What was the average hourly wage rate paid to full-time hired workers on the selected field? <i>Exclude</i> custom and contract workers, payroll taxes and benefits	1118 
		CODE
		1116
5.	Was any contract labor used on the selected field? YES = 1	
[ <i>lf</i>	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 the selected field was performed by workers under 16 years of age? ( <i>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.</i> )	1120

#### DOLLARS & CENTS PER HOUR

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

	1 CUSTOM SERVICE Which of the following services were performed for the 2018 soybean crop on the selected field?	2 Including operator, landlord, and contractor costs, how much was spent for [column 1] on the selected field for th	
	for the 2018 soybean crop on the selected field?		2018
		so	bybean crop?
$\checkmark$	← [Check box for each service performed; refer to item 1 if necessary.]	DOL	LARS & CENTS PER ACRE
	a. Custom land preparation and/or shaping?	1121	·
		1122	
	b. Custom cultivating?		•
	c. Custom planting and/or reseeding?	1123	
	d. Custom harvesting?	1124	
	e. Custom hauling to storage or point of first sale?	1126	
	(Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre)		
	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)		
			•
~		Г	CODE
8.	Were the soybeans harvested and hauled from the selected field dried (or will be dried) before they were sold or stored?	YES = 1	1195
9.	Did you hire any technical or consultant services to make recommendations (such as for nutrient, pest control, irrigation, or precision farming) for the selected field?		
	$\square YES - [Continue] \qquad \square NO - [Go to item 11]$		
	Which of the following services did you obtain?	-	CODE
	a. Nutrient recommendations/management service?	YES = 1	1129
	b. Soil or tissue sample collection?	YES = 1	1130
	c. Pest control recommendations/management service?	YES = 1	1131
	d. Pest scouting?	YES = 1	1132
	e. Irrigation management service ( <i>i.e. irrigation scheduling</i> )?	YES = 1	1133
	f. Yield map or remote sensing map development/interpretation?	YES = 1	1134
	g. Other custom or technical service? [Specify:]	YES = 1	1135
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		

services f 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.

RS & CENTS R ACRE OR TOTAL DOLLARS

1136

- 28 -

- 29 -

[Enter code "1" for all that apply.]	seu.	
a. Did you access data collected from the selected 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 data collected from the selected field through an agricultural technolo provider website?		2488
[ <i>If item 11b</i> = YES, ask]		
c. Did you opt out of allowing your agricultural technology provider website to share data collected from the selected field with any third party?		2489
d. Did you share any of the data collected from the selected field with a third party throu an agricultural technology provider website?		2490
		CODE

2460

# Please report how any data from the selected field in 2018 will be stored and accessed

12. Were there (or will there be) any data collection tools (yield monitors, GPS mapping, etc.) used during field operations on the selected soybean field? YES = 1

#### [If YES, continue; else go to Item 13.]

Please report the data collection technologies you used on the selected field in 2018 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 cost 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 cell blank.

	1	2	3	4	5	6
	Data Collection Tool	Tool Used	Collected GPS coordinates	Data was/will be used to create a map	Replacement Cost	Annual Fee
		YES = 1 NO = 3	YES = 1 NO = 3	YES = 1 NO = 3	Total Dollars	Total Dollars
		2461	2462	2463	2570	2571
a.	Yield monitor					
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.	Drones, aircraft or satellites	2476	2477	2478	2580	2581
g.	Custom service applications (data from completed work on your field).	2479	2480	2481	2582	2583
h.	Public data downloaded from online sources	2482	2483	2484		

- 30 -

[If item 12a = 1 in column 2, continue, else go to item 14.]

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

			1141
a.	add/improve tile drainage?	YES = 1	
			1144
b.	negotiate new crop leases?	<b>YES</b> = 1	
			1143
c.	help determine chemical input use?	<b>YES</b> = 1	

#### [If any tools used in item 12, continue, else go to item 15.]

14. Using data collected from the above/previous tools table, (item 12) did you obtain crop management recommendations (data interpretation) in 2018 for the selected field from any of the following--[Enter code "1" for all that apply.]

a.	Input dealers without other fee-for-services?	YES = 1	2491
b.	Input dealers with other fee-for services?	YES = 1	2492
C.	Custom service providers?	YES = 1	2493
			2494
d.	USDA/University extension services?	YES = 1	

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

# 15. Was any of the following GPS-enabled (Global Positioning System) equipment used to produce soybeans on the selected field in 2018? [Enter code "1" for all that apply.]

a.	Mounted in-cab heads-up displays?	YES = 1	2155
b.	Smartphones or computer tablets?	YES = 1	2156
c.	Guidance auto-steering?	YES = 1	2148
[If item	15c = 1 continue, else go to Item 15d]		CODE
	(i) Was the guidance auto-steering equipment 1 New, owned 2 Used, owned 3 Leased		2158
			YEAR
	(ii) What year was guidance auto-steering first purchased		2159
		DOLLARS & CENTS PER ACRE OR	TOTAL DOLLARS
	(iii) What is the replacement cost for guidance auto-steering equipment?	2160	2161
	(iv) What is the annual fee for guidance auto-steering?	2162	2163
			2164
d.	Variable rate applicator?	YES = 1	

CODE

16. Please report the variable rate applicator types you used on the selected field to produce the soybean crop in 2018.

1	2	3	4	5	6	
Was a variable rate applicator used on the selected field for	Was this applicator—Tool1 Sensor-basedUsed2 GPS-based3 Both4 Neither		Was this applicator— 1 New, owned 2 Used, owned 3 Leased	What year was the applicator first used?	Premium paid for the applicator	
	YES = 1 NO = 3	CODE	CODE	YEAR	TOTAL DOLLARS	
	1158	2170	2171	2172	2173	
a. Seeding						
	1152	2174	2175	2176	2177	
b. Fertilizer/lime applications						
	1159	2178	2179	2180	2181	
c. Pesticide applications						

## - 32 -

### 1. How many acres in the selected field were irrigated for the 2018 soybean crop? [If none, go to **Conclusion**].....

G

3.

ACRES

#### 2. Now, I have some questions about irrigation systems and water used on the selected field for the 2018 soybean crop.

$\rightarrow$	UNIT	
a. What irrigation system was used to apply the most water on the selected field? [Show System Type Codes (Page 28) in the Respondent Booklet.].	SYSTEM TYPE CODE	1161
	INCHES PER ACRE	1162
b. What was the total quantity of water applied to the selected field during the entire growing season? <i>Include</i> ALL water used from both on-farm and off-farm sources and applied by any irrigation system	OR TOTAL ACRE-FEET	1163
[If operator cannot provide item 2b, ask (i) & (ii), else go to 2c]		
(i) What was the <b>total</b> number of <b>hours</b> used to apply water to the selected 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 the selected field came from surface water sources?	PERCENT	1166
d. What was the number of times the selected field was irrigated during the soybean growing season? <i>Include</i> any pre-plant irrigation	NUMBER OF IRRIGATIONS	1167
e. Was the pump type [ <i>If more than one pump in the system,</i> <i>enter type for pump closest to water</i> <i>source.</i> ] 1 TURBINE? 2 SUBMERSIBLE? 3 CENTRIFUGAL? 4 BOOSTER? 5 SIPHON? 99 NO PUMP? [ <i>If code 99, go to item j.</i> ]	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
1DIESEL2GASOLINE3LP GAS3LP GAS4NATURAL GAS5ELECTRICITYused to pump the water?66SOLAR 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 the selected field's irrigation system during the 2018 growing season? Exclude the selected field	ACRES	

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

AL DOLLARS

4.	Wa	as any water purchased to irrigate the selected field? Include landlord's share and purchases	CODE
		om all sources.	1191
		YES – [Enter code 1 and continue.] NO – [Go to item 5.]	
		DOLLARS & CENTS	
	a.		TOTAL DOLLARS
		during the 2018 growing season?       Include operator, landlord, and       1193         contractor costs and ditch maintenance costs for the selected field.	1194
[ <i>lf</i> \$	SIPF	HON TUBES were used (item 2a = 10 or 11), ask]	TOTAL DOLLARS
			1201
5.	W	hat would be the total cost to replace all the siphon tubes used on the selected field?	
[ <i>If  </i>	POL	Y PIPE system was used (item 2a = 14) ask]	TOTAL DOLLARS
6.		hat was the total amount spent for poly pipe used on the selected field during the	1202
		<b>18 growing season?</b> <i>Include operator, landlord, and contractor costs</i>	
[ <i>lf</i> (	GA7	TED PIPE system was used (item 2a = 15 or 16), ask]	INCHES
7	\ <b>A</b> /	hat was the average diameter of gated pipe used to irrigate the selected field?	1203
1.	vv	hat was the average diameter of gated pipe used to imgate the selected held?	FEET
			1204
	a.	What was the total length of gated pipe used?	1204
			CODE
8.	We	ere wells used to supply irrigation water for the selected field?	1205
		<b>YES</b> – [Enter code 1 and continue] $\square$ NO – [Go to item 9].	
			NUMBER
	-	Low many wells were used to invigate the coloring field?	1206
	a.	How many wells were used to irrigate the selected field?	
			INCHES
	b.	What was the average diameter of the outer well casing?	1207
			FEET
	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 in the water level caused by pumping during the irrigation season.]	1208
	d.	Were other fields irrigated using water pumped from wells that supplied water to the selected field?	CODE
		$\square$ YES – [Enter code 1 and continue] $\square$ NO – [Go to item 9]	1210
			ACRES
	e.	Excluding the selected field, how many other acres on this operation were irrigated	1211
	0.	using the same wells during the 2018 growing season?	·

9. Was any additional mainline or lateral pipe used to carry water from the source to the system in the selected field? *Include* underground pipe. *Exclude* any system pipe within the selected field.

	YES – [Continue]       Image: NO – [Go to Conclust	ion]	
a.			<b>INCHES</b>
	of this additional pipe used?		FEET
b.	. How many feet of this additional pipe were used to br	ing water to the selected field?	1213

## NOTES:

## NOTES:

# CONCLUSION

- 36 -

LO	CATION	OF S	ELECT	ED FIELD										
1.	1. I need to locate the selected field of soybeans on this map.							COUNTY NAME					OFFICE USE COUNTY FIPS CODE	
2.	What county is the selected soybean field in?					<b>?</b>						0010		
	Field de	scrip	tion											
						r		LATITUDE		r	LC	ONGITUDE		
	Field loo	catio	n			N 005	54 	•	. <u> </u>	w	0055			
							d	d m m	s s		d d	d m	m s s	
								ATITUDE		OR	LO	NGITUDE		
						00					0052			
												 cimal		
3.	[ENUME	RAT	OR ACT	TION: Mark n	nap to indica	ate wher	e the se	elected soy	vbean f	ield is l	ocated.	onnai		
				Be sur	e the "X" ma	arked on	map is	in the cou	nty ide	ntified a	above.]			
4.				nal informati							n February			
-				llect it. I'll ca	•		•	-		or you.				
5.				plete results .usda.gov/Su					go to					
	To have	a su	mmary e	emailed to you			10 95							
	Please e	enter	your em	ail address:										
												<b></b>	CODE	
	Would y	ou lik	to rec	eive a copy of	the results	of this s	urvey in	the mail?.			YES =	9990 • <b>1</b>		
	•			nt, then review			•						нмм	
												0005		
6.	ENDING	S TIM	E [MILI]	TARY]								·		
RE	CORD U	SE												
7.	[Did res	oonde	ent use f	arm/ranch rec	cords to repo	ort]								
			Г	YES = 1	7			YES =	1				′ES = 1	
	fertilize	<b>r</b> data'		0011	ne	sticide da	ta?	0012			Majority of this expense data?	0013		
SUF	PLEME				<i>p</i> o						oxponee aata.			
8.	[Record	the to	otal num	ber of each ty	rpe of questi	onnaire	supplei	ment used	to com	nplete tl	his interview.]			
			Г	NUMBER	7			NUMBI	ER			-	UMBER	
	FERTIL APPLIC			0041		STICIDE				FIELD 0043 OPERATIONS				
								•			OF ERAHORO.			
							9910			9911				
Re	ported by	<i>'</i> :					M		18	Telepł	none: ()			
						 OF	FICE US							
					4 Str	OPS	S	SO 1	ADJ	Opti	onal Use			
992 <sup>-</sup>	1	9922		9923	9927	9928	9	923	9907		922	9906	9916	
						Mada				Enum DOID				
Response         Respondent           1-Comp         9901         1-Op/Mgr         9902         2-P/						2-PATI (	Mode	9903	9998	num.	9989	POID		
2-R	•		5001	2-Sp		3-PAPI (	Face-to-							
	-Inac 3-Acct/Bkpr -Office Hold 4-Partner			Face)										
I				9-Other							<b>Eval.</b> 9900	9985	Change	
											3300	9900		