AGRICULTURAL RESOURCE MANAGEMENT SURVEY

OMB No. 0535-0218 Approval Expires: 11/30/2023 Project Code: 906 SurveyID: 1312 Phase 2





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CORN PRODUCTION PRACTICES AND COSTS REPORT FOR 2021

	VERSION 8	II	D		TRACT 01	SUBTRACT	C-TYPE 105			
	CONTACT RECORD									
DATE	TIME				NOTES					
INTRODUCTI	ON:									
[We are collect possible.] The who willfully di conducted in a codified in 44 https://www.na According to ti collection of in complete this	ting information information you scloses ANY ide accordance with U.S.C. Ch. 35 a ass.usda.gov/co he Paperwork R formation unles information colle	or the operator. Rephrase on practices and costs us a provide will be used for si entifiable information about the Confidential Information nd other applicable Federa nfidentiality. Response is we teduction Act of 1995, an a s it displays a valid OMB of ection is estimated to avera es, gathering and maintain	ed to produce tatistical purp t you or your on Protection al laws. For n voluntary. agency may r control numbe age 75 minute	e corn and poses only. operation a and Statis nore inform not conduc er. The val es per res	Your response is subject to a stical Efficience nation on how t or sponsor, id OMB numb poonse, includi	se will be kept co a jail term, a fine, cy Act of 2018, Ti we protect your and a person is n per is 0535-0218. ing the time for re	nfidential and a or both. This s tle III of Pub. L information ple ot required to The time requ eviewing instru	any person survey is No. 115-435, ease visit: respond to a ired to ctions,		
We encourage	e you to refer to	your farm records during t	he interview.							
	H H IG TIME 0004 ITARY]	M M				SCRE 0006	ENING BOX			
Check if ve	rified POID				eck if verified	POID				
 Name:				Name: _						
Address:				Address						
City:		State: Zip:	check if cell phone	City:		State	: Zip	o: check if cell phone		
Phone: (_)			Phone: ()					
Check if ve	rified POID				eck if verified					
Name:				Name: _						

Address:				Address:			
City:	State:	Zip:		City:	State:	_ Zip:	
			check if cell phone				check if cell phone
Phone: ()				Phone: ()			

CORN FIELD SELECTION

2

		Total Planted Acres
		0050
1. How many acres of corn did this operation plant for the 2021 crop year?		•
[If no acres planted, review Screening Information Form, make notes, then go to back page.]		Code
a. Did you produce any acres of certified organic corn?	Yes=1 No=3	1064

b. Of the total (item 1) acres, how many were planted using/as --

		Total Acres	Number of Fields
i	Conventional corn?	0583	1065
••		·	
ii.	Certified organic corn?	0730	1066

[I will follow a simple procedure to make a random selection from the rice fields planted for the 2021 crop.]

		Total Number of Fields Planted
		0020
2.	What is the total number of corn fields that were planted on this operation?	
[lf	only one field enter "1" and go to item 4.]	

3. [Now, I need to identify a corn field to be used for this survey.] The corn field pre-selected for this interview is the:

1 Northern most field

2 Southern most field

3 Eastern most field

4 Western most field

5 Northeastern most field

6 Southeastern most field

7 Northwestern most field

8 Southwestern most field

Field description:

A

APPLY "RANDOM NUMBER" LABEL HERE

- 4. The field selected is ______ (field name/number/description). During this interview, the corn questions will be about this selected corn field. [Be sure the operator can identify the selected field.]
- 5. For the randomly selected field above, please provide the following Farm Service Agency (FSA) identifiers:

[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. 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.]

		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 OY Field Substituted	
0022	

Number

FIELD CHARACTERISTICS - SELECTED FIELD

В

				Acres
1.	How many acres of corn did this of	operation plant in the selected field for the 2021 crop?		1301
				L' _ J
			Yes=1	Code
	a. Are the acres in the selected	field Certified Organic?	No=3	1300
				Code
	h Was the selected field transiti	oning into organic corn production in 2021?	Yes=1 No=3	1399
			110-5	
ו זון	tem 1a or 1b = 1, then ask]			Dollars & Cents
	c. What was the cost, per acre,	for third party organic certification?		1891 •
		4 owned by this encertion?		
		 owned by this operation? rented for cash with the payment being a fixed cash amount? 		Code
2.	Were the acres in the selected field	3 rented for cash with the payment being a flexible cash amount? 4 rented for a share of the crop?		1302
		5 rented for some combination of cash and share of the crop? 6 used rent free?		
[lf f	ield is cash rented (item 2 = 2, 3, o	or 5), ask item 3, otherwise go to item 4.]		Dollars & Cents per Acre
~				1303
3.	what was the cash rent paid per	acre for the selected 2021 corn field?		•
		5)		
[11 1	ield is share rented (item 2 = 4 or	5), ask]		Percent 1304
4.	What was the landlord's share of	the crop from the selected field?		1304
[If f	ield is rented (item 2 = 2, 3, 4, 5, c	or 6) ask]		
5.		uts provided by any landlord for the 2021 crop Dollars & Cents the costs for all inputs, such as seed, fertilizer, per Acre		Total Dollars
	chemicals, technical services, cus	stom operations, drying, and irrigation.		1306
	EXCLUDE real estate tax expens	es and lime costs paid by the landowner		
6.	What was the total cost for all inp	uts provided by any contractor for the 2021 Dollars & Cents		
-	crop on the selected field? INCL	UDE the costs for all inputs, such as seed, per Acre	ן OR	Total Dollars
		vices, custom operations, drying, and 1309		1310
	-			Year
				1312
7.	In what year did you (the operato	r listed on the label) start operating the selected field?		

MMDD 1308 8. On what date was the selected field planted?..... 2021 Unit Code 1 Pounds 2 CWT 3 Tons Units per Acre 4 Bushels 0216 0217 a. What was your yield goal at planting for the selected field?..... 1 Grain Code 2 Silage 3327 Was the corn on the selected field planted with the 4 Seed intention of being harvested as..... 25 Other Unit Code 1 Pound 10. What was the source and cost of --2 CWT 4 Bushel INCLUDE 22 Acre operator, landlord, and contractor costs ٠ **Dollars & Cents** 23 Approx. 80,000 Percent of Seed cost of seed treatment and technology fee per Unit Kernel Bag Planted 1214 1215 1216 a. GMO/GE purchased seed?..... 1217 1218 1219 Non-GMO/GE purchased seed?..... b. 1318 C. Homegrown seed?..... 100% Cents per Pound [If item 10c is greater than zero, continue. Otherwise go to item 11.] 3321 i. What was the cost for cleaning and treating this seed?..... Unit Code 1 Pounds/Acre 2 CWT/Acre 4 Bushels/Acre 25 Kernels-Seeds/Acre Units 38 Kernels-Seeds/Foot 1313 1314 11. What was the seeding rate per acre the first time the selected field was planted? Inches 1322 12. What was the average corn row width for the selected field?..... Code 1323 Yes=1 13. Did the selected field have skip-row corn?..... No=3 [If item 13 = 1, continue. Otherwise go to item 14.] Rows of Corn ΒY Rows of Skip 1324 1325 a. What was the common skip pattern?..... Inches 1326 b. What was the average width of the skip?..... Acres 1315

		1 Troato	d with a pesticide prior to purchase?		Code
	r the 2021 corn crop, was the corn ed	2 Treated	d with a pesticide after purchase? ated with a pesticide?		3062
[If item	15 = 1 or 2, continue. Otherwise go t	o item 16.]		
			Seed 1	reatment Name	
a.	What was the name of the seed trea [Write seed treatment name in the bo provided.]	х	1289		
b.	What was the seed treatment code?				Code
	Respondent Booklet. Enter "999" if a the seed treatment is not known.]				2325
					Code
16. Fo	r the 2021 corn crop, did you plant a c	ommercia	al seed product on the selected f	Yes=1 eld?No=3	2340
[If item	16 = 1, continue. Otherwise go to iter	m 17.]			
-		-	Commercial	Seed Product Name	
a.	What was the name of the seed proc [Write seed product name in the box provided.]		2342		
b.	What was the seed product code? [I	Enter the	appropriate product code from th	e Respondent	Code
	Booklet (page 5). Enter "999" if a se product is not known.]				2343
				2021 Yes=1 No=3	Last Time Corn was Planted Yes=1 No=3 N/A=4
	d you plant genetically modified organi m in this field for 2021 or the last time			2300	2301

[If item 17 = 1 for either year, continue. Otherwise, go to item 19.]

18. Did the corn planted on the selected field have any of the following genetically modified organism/genetically engineered (GMO/GE) traits in 2021 or the last time corn was planted?	2021 Yes=1 No=3	Last Time Corn Was Planted Yes=1 No=3 N/A=4
a. Insect Resistance (Bt) to Corn Borer	2501	2502
i. With multiple (pyramided) modes of action	2503	2504
b. Insect Resistance (Bt) to Rootworm	0362	0363
i. With multiple (pyramided) modes of action	2507	2507
c. Insect Resistance (Bt) to Earworm	2509	2510
d. Insect Resistance (Bt) to Armyworm	2511	2512
e. Other Insect Resistance (Bt) Trait	2513	2514
f. Herbicide Tolerance (HT) to Glyphosate (e.g. Roundup Ready®)	2306	2307
g. Herbicide Tolerance (HT) to 2,4-D (e.g. Enlist®)	2308	2309
h. Herbicide Tolerance (HT) to dicamba (e.g. Extend®)	2310	2311
i. Herbicide Tolerance (HT) to Glufosinate (e.g. Liberty Link®)	2312	2313
j. Other Herbicide Tolerant (HT) Trait	2514	2315
k. Drought Resistance	2515	2516
I. Enzyme technology for ethanol (e.g. Enogen)	xxxx	XXXX

Note: Any genetically modified organism/genetically engineered HT trait other than Glyphosate Tolerance, 2,4-D Tolerance, Dicamba Tolerance, or Glufosinate Tolerance should be accounted for using the "Other HT trait" column.

	2021 Yes=1 No=3	Last Time Corn was Planted Yes=1 No=3 N/A=4
19. Did you plant non-genetically modified/genetically engineered (non-GMO/GE) seeds for the 2021 crop year or the last time corn was planted?	2316	2317
[If item 19 = 1 for either year, continue. Otherwise, go to item 22.]	2021 Yes=1 No=3	Last Time Corn was Planted Yes=1 No=3 N/A=4
20. Did the corn planted on the selected field have non-GMO/GE herbicide tolerant (HT) traits in the 2021 crop year or the last time corn was planted?	2318	2319
21. Was the corn from the selected field sold (or will be sold) through a market specifically for non-GMO/GE corn?	2518	2519
	Dollars & Cents per Bushel	·
a. In 2021, what was the price premium (or the expected premium if not yet sold) received for this non-genetically modified corn?	2384 ·	

		Code
22. Was the corn planted on the selected field drought tolerant?	Yes=1 No=3	XXXX
[If item 22 = 1, continue. Otherwise, go to item 23.]		Code
a. Were these GMO/GE drought-tolerant seeds (e.g. Genuity® DroughtGard®)	Yes=1 No=3	хххх
b. Were these non-GMO/GE drought-tolerant seeds (e.g. Optimum® AQUAmax®, Agrisure Artesian®)?	Yes=1 No=3	хххх
c. Since the time that drought-tolerant corn became available in your area, have you only planted drought-tolerant corn varieties?	Yes=1 No=3	XXXX

[Next we will ask about factors that influenced your decision to plant drought tolerant seeds on the selected field.]

23. In the selected field, was the decision to plant drought tolerant corn based on any of the following? [Enter Yes = 1 for all that apply.]						
	a.	Ability to bundle drought tolerant seed traits with one or more GMO/GE traits, such as insect resistance or herbicide tolerance?	XXXX			
	b.	$\begin{array}{llllllllllllllllllllllllllllllllllll$	хххх			
	C.	Price of irrigation water and/or irrigation water applications?	хххх			
	d.	Yes=1 Low soil moisture from frequent droughts?	хххх			
	e.	Field conditions, other than soil moisture or seasonal forecasts, at planting time? No=3	хххх			
	f.	Drought in the prior crop year that at least partially damaged the crop?	xxxx			
	g.	Yes=1 Concerns about changing growing conditions?	хххх			
			Code			
24. Did you use a genetically engineered, insect resistant seed variety for the 2021 crop?						
[If i	[If item 24 = 1, continue. Otherwise go to item 26.]					
a. Did you choose the resistant seed variety used on the selected field primarily to						
		1 Increase yields through improved pest (weed or insect) control?	Code			
		 2 Decrease pesticide input costs? 3 Save management time or labor or improve ease of management? 4 Reduce refuge requirements? 	2327			
		5 For some other reason(s)? Specify				

			Code
b.	Was this a refuge-in-the-bag product?	Yes=1 No=3	хххх
			Percent
C.	What percentage of the bag was conventional seed?	Yes=1 No=3	хххх

	Code
25. Was a refuge for insect pests planted for the selected field? Refuge may be adjacent to the Yes=1 field or a separated block within 1/2 mile of the field	2328
[If item 25 = 1, continue. Otherwise, go to item 28.]	Percent
26. What percent of the selected field was used as refuge for insect pests in order to comply with Bt corn insect resistance management guidelines?	XXXX
	Acres
27. What is the size in acres of the refuge?	хххх
Units per Acre	Unit Codes 1 Pounds 2 CWT 3 Tons 4 Bushels
2670	2671
28. What was the difference in yield between the Bt crop and the non-Bt refuge crop?	
	Code
Yes=1 29. Did you use an "air-delivery" or "vacuum (pneumatic) planter"? No=3	2323
[If item 29 = 1, ask]	Code
A. Did you use a talc and/or graphite seed flow lubricant?	2324
 Did you use an alternative see flow lubricant (e.g. Bayer Fluency Agent) instead of talc and/or graphite?	2394
	Code
30. Has harvest of the selected field been completed?	1328
31. Please report the following information about the acres harvested (or to be harvested) and the yields fro field.	
1	2

How many acres in this corn field were (or will be)	Acres	What yield per acre did you (or do you expect to) get for corn Units per Acre	Unit Codes 1 Pounds 2 CWT 3 Tons 4 Bushels
a. harvested for grain, first crop?	1346	1347	1348
b. harvested for silage or green chop?	1349	1350	Tons
c. harvested for seed?	1431	1432	1433
d. abandoned?	1351		
e. used for some other purpose?	1439		

- 32. Were the stalks/stover harvested from the selected field?
 - ¹ Yes [Enter code 1 and go to item 33.]

₃ No - [Ask 32a, then go to item 34.]

Code

1754

a. [If the corn stalks/stover were not harvested, ask--]

2 What was the primary reason for not	No market/use for corn stalks/stover Harvesting was not profitable The corn stalks/stover were left as organic matter for the soil	Code 1398
4	The stalks/stover were left for livestock grazing Other, specify	
		Acres
33. How many acres of corn stalks/stover were ha	arvested from this corn field?	1755
······································		
		Total Tons
a. How many tons of corn stalks/stover were	harvested from these corn acres (item 33)?	1756
Tons per Acre Acres Total Tons	OR X ÷ 2000 = Bales X Lbs per Bale ÷ Lbs per Ton	Total Tons
		Code
24. Did any livestack groups this same field often be	muset of the 2021 come area?	1023
34. Did any livestock graze this corn field after ha	rvest of the 2021 corn crop?	
¹ Yes - [Enter Code 1 and continue]	No - [Go to item 38]	
	1 Cattle	Code
35. What type of livestock grazed this corn field	2 Sheep	1024
after harvest of the 2021 corn crop?	3 Other, specify:	
		Head
		1027
a. About how many head of livestock (item 3	5) grazed this corn field?	
		Days
		1028
b. How many days did this livestock graze of	ו this corn field?	
		Code
36. Was any of the residue from the prior crop (co		
post-harvest?		No=3
[If yes, ask]		Tons
		1328
a. How many tons per acre of residue were	emoved through harvest?	
		Code
37. Did any livestock graze this field following pla	nting of the previous crop? INCLUDE post-h	arvest xxxx
grazing of residue from the prior crop or grazi		
crop/previous crop during the Fall/Winter of 2)20/2021	No=3
[If yes, ask]		Head
[,]		1362
a. About how many head of livestock grazed	the residue?	
-		Days
		1363
b. How many days did livestock graze on the	e residue?	

Crop Code List for item 38 - 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, durum or spring	312 Cover crop mix	
302 CRP	21 Rice	165 Wheat, winter	34 Rye grass	

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

						1
	1			3	4	5
What crops were plante [For perennial crops, (1, 11, 292, 302, a when the cro		What type of crop was grown on the selected field?	Was this a cover crop?	If a cover crop was planted, how did you terminate this cover crop?	Was this field no- tilled or strip-tilled? ^{1/}	
	1 GMO/GE Herbicide Tolerant (HT) 2 GMO/GE Insect Resistant (Bt)		1 Tilled-in 2 Herbicide 3 Rolled 4 Grazed			
			3 Stacked (HT and Bt) 4 Not GMO/GE		5 Harvested for forage 6 Harvested for grain	
					7 Winter killed	
Season and Year	Crop Name	Crop Code	Code	Yes=1 No=3	Code	Yes=1 No=3
a. Spring/Summer of 2021?.	Corn		1486			1344
b. Fall of 2020?		1343	1487	1470	1471	1345
c. Spring/Summer of 2020?.		1369	1488	1472	1473	1371
d. Fall of 2019?		1372	1489	1474	1475	1374
e. Spring/Summer of 2019?.		1375	1490	1476	1477	1377
f. Fall of 2018?		1378	1491	1478	1479	1380
g. Spring/Summer of 2018?.		1381	1492	1480	1481	1383
h. Fall of 2017?		1366	1493	1482	1483	1368
i. Spring/Summer of 2017?.		1340	1494	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 2021, ask]				
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?	1495 •			
[Enter zero if no program payment was received.]				
39. Has any part of the selected field been classified as "Highly Erodible Land"?				
Cropland identified as highly erodible is subject to highly erodible land conservation (HELC) requirement. Producers who receive farm program payments are required to have and apply a	Code			
written soil conservation plan. A "written plan" is a plan prepared in accordance with Federal, Yes=1	1404			

No=3

written soil conservation plan. A "written plan" is a plan prepared in accordance with Federal, State, or district standards.....

					Code
40. Do you have a written conservation plan that s	pecifies practice	es to control soil	erosion?	Yes=1 No=3	
41. 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					1405
42. What is the slope of the selected field?	1 Nearly level (0 2 Even, modera 3 Variable, mode 4 Even, steep gr 5 Variable, steep	te grade (3 - 9%) erate grade rade (over 10%)			Code 2400
43. What is the primary soil type of the selected fie	eld?	1 Loam 2 Clay 3 Sandy 4 Mixed 5 Silty			Code 2401

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

1	2		3	
44. In the selected field, are any of the following currently or historically a	1 Currently a concern 2 A concern in the past but not anymore	 Have you received technical assistance from any of the following sources to evaluate this resource concern? Report up to 2 sources that you received assistance from: 1 USDA - NRCS 2 Cooperative Extension Service 		
concern?	3 Not a concern	 3 Other USDA staff, including 4 Other (e.g. Soil and Water C agency) 		
	Code	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. If the answer to all of the above was "Not a Concern", is it the case that there are no significant concerns on this field?	2414			

					Code	
45.	. Did	I the land use practices for the selected field inclu	Ide subsurface drainage?	Yes=1 No=3	2402	
[lf 4	[If 45 = 1, continue. Otherwise go to item 46.]					
					2403	
	a.	In what year was the current subsurface (tile) dra	ainage installed?			
					Inches	
	b.	What is the average width (space between tiles)	of your drainage system?		2604	
					2605	
	C.	What is the average or most common diameter of	of your tiles?			
					Code	
		Does this system include a mechanism for contro float mechanisms)?		103-1	2406	
	e.	Does this drainage system have surface inlets?		Yes=1 No=3	xxxx	
			1 an open, single stage ditch		Code	
	f.	Where does this system empty?	2 a natural waterbody3 a saturated buffer4 a retention pond		xxxx	
			5 another type of receiving system		<u> </u>	
46.		average, how many hours does it take your field avy rain?		vels following a	2606	
47. Has the selected field ever been in any conservation contracts for which you or your landlord received (or 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 of Conservation Stewards			2612	
		Conservation Reserve Program (CRP)			2613	
	C.	Conservation Reserve Program (CRP)			2614	
	d.	Other Federal, State, Local or non-government s	source			

- 48. [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. 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-field Soil and Crop Management	10 Terraces	³⁰ Implement an integrated pest management plan - written plan	
1 No-till/strip-till	12 Grass waterway	31 Drift reducing spray nozzles	
² Conservation tillage except no-till/strip-till	²⁰ 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	
6 Conservation crop rotation	24 Controlled release fertilizer	₃₅ Riparian buffer - grass or forest	
7 Laser leveling	²⁶ Split nitrogen application with at least 50% applied after planting	₉₉ None of the above	

b. For each practice or activity checked in 48a, please complete one line of this table.

1	2	3	4	5
	-	When was this practice		Does this practice or activity
Practice or Activity on the Selected Field		2 Not used in 2021 but used in earlier years	 Received a payment in 2021 from EQIP, CSP, or similar program Did not receive a payment in 2021 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
	2021, was the corn in the selected field covered b y. hail, replant, wind, freeze, etc.)?			Yes=1 No=3	1393	
[If item	49=1, continue. Otherwise, go to item 50.]					Code
	In 2021, was the corn in the selected field covere crop insurance policy (e.g. hail, replant, wind, fre			Yes=1 No=3	хххх	
				-		ars & Cents per Acre
	What was the dollar amount of coverage per acr field?	- ·		ted 	1395	·
C.	What was the premium cost per acre for the sing EXCLUDE any sign-up fee		-		хххх	·
						Percent
d.	What was the percent deductible for the single p deductible as 0%)		•	rd no	XXXX	
				ī		Code
e.	Did you (or will you) collect an indemnity paymer policy during 2021?			Yes=1 No=3	XXXX	
						Code
50. In 2	2021, was the corn in the selected field covered b	y a multi-peril cro	p insurance policy?	Yes=1 No=3	1385	
[If item	50 = 1 ask Otherwise go to Section C]	2 Yield Protection				Code
a.	Which coverage did you obtain?	3 Revenue Protec4 Other multi-peril			1386	
	50a = 2, ask]				1	Percent
-	, .				1387	
	i. What percent of yield coverage did you selec	ct for the selected	field?		4000	
	ii. What percent of price coverage did you selec	ct for the selected	l field?		1388	
[If item	50a = 3, ask]					Percent
	iii. What percent of revenue coverage did you s	alact for the color	stad field?		1389	
	in. What percent of revenue coverage did you's					Code
b.	Did you purchase a policy for Hurricane Insurance	ce Protection - Wi	nd Index in 2021?	Yes=1	1391	
]	No=3	2524	
	What type of unit coverage did you purchase for the multi peril policy on the selected field?	2 Optional			2024	
		3 Enterprise				Year
	In what year did you, the operator listed on the la the selected field?			on	2525	
					CW	/T per Acre
e.	What is the 2021 Approved APH (actual product	ion history) yield f	for the selected field?		2526	
						ars & Cents per Acre
f.	What was the premium paid for multi-peril crop in EXCLUDE any administrative fee				2527	
						• Code
g.	Did you or will you collect an indemnity payment	for the selected f	ield from multi-peril crop	Yes=1	2528	
5	insurance during 2021?			No=3		

NUTRIENT or FERTILIZER APPLICATIONS - SELECTED FIELD

С

С			NUTRIE	NT or	FE	RTILIZER	APPLICATION	S - SELECTED	FIELD	С	
									Code	Office Use Edit Table	
	1. Were commercial nutrients or fertilizers applied to the selected field for the Yes=1 0202 2021 corn crop? INCLUDE those from operators, landlords, and contractors No=3										
[If ite	em 1 = 1 c	ontinue, of	therwise g	o to item	n 6]					Number	
							were made to the s ustom applicators			0203	
3. 1	Now I nee	d to record	informatio	on for ea	ach a	application.				·	
			СН	IECKL	IST			1 			
		INCLU	DE			EX	CLUDE	 			
	Custom app	olied nutrients	s or fertilizers		М	icronutrients					
		fertilizers ap		all of	U	nprocessed mai	nure				
		ld was fallow				utrients or fertiliz	zers applied to previous ted field				
	Commercia compost	lly prepared r	manure or		Lii	me and gypsum	/landplaster	Office Use Lines in Table	Table 001	0299	
						2 3 4	Broadcast, ground witho Broadcast, ground with i Broadcast, by aircraft In seed furrow	incorporation 6 7 8	In irrigation wa Chisel/injected Banded in or o Foliar or direct	or knifed in ver row ed spray	
			2 als Lised			3 What quantity	4 [Enter material code]	5 When was this	6 How was this	7 How many acres in	
L I N E	plant nutrients applied per acre.]		I plant nutrients applied per acre.] I [Show Common Nutrients or Fertilizers		cre.]	of	was applied per acre? [Leave this column blank if actual nutrients	1 Pounds 12 Gallons 13 Quarts	applied? 1 In the fall before seeding 2 In the spring before seeding	applied?	the selected field were treated in this application?
	N Nitrogen	P₂O₅ Phosphate	K₂O Potash	S Sulfur		were reported]	actual nutrients	3 At seeding 4 After seeding		Acres	
01	31	32	33	34	;	36	37	38	39	40	
02	31	32	33	34	;	36	37	38	39	40	
03	31	32	33	34	;	36	37	38	39	40	
04	31	32	33	34	;	36	37	38	39	40	
05	31	32	33	34	;	36	37	38	39	40	
06	31	32	33	34	;	36	37	38	39	40	
07	31	32	33	34	;	36	37	38	39	40	
08	31	32	33	34	;	36	37	38	39	40 •	
09	31	32	33	34	;	36	37	38	39	40	
10	31	32	33	34	;	36	37	38	39	40	

				Code
4. Were any nutrients or fertilizers applied by custom applicators?	>		Yes=1 No=3	0214
[If item 4=1 continue. Otherwise go to item 5.]			110 0	Code
a. Are you able to report the cost of nutrient or fertilizer mater separately?			Yes=1 No=3	2216
[If item 4a = 1 continue. Otherwise go to item 5.]				Office Use 0215
b. Excluding the cost of the nutrient or fertilizer materials, how spent for custom application of nutrients or fertilizers on the INCLUDE operator, landlord, and contractor costs. INCLU sulfur and micronutrients. EXCLUDE custom application o purchased manure and purchased compost	e selected field? DE costs for f lime, gypsum,	Dollars & Cents per Acre 0219	OR	Total Dollars
[If material and application costs can't be separated, exclude them	here and record t	ne total in item 5.]	
 What was the total cost of all nutrient or fertilizer products appl selected field? INCLUDE operator, landlord, and contractor co costs for sulfur and micronutrients. INCLUDE materials applie field if it was fallow in 2020. EXCLUDE lime, gypsum, purchase purchased compost. 	osts as well as the d to the selected sed manure, and	Dollars & Cents per Acre	OR	Total Dollars
[If custom applied and the cost of materials can be separated from otherwise, include both the material and application costs.]		include the cost	of ma	terials only,
				Code
6. Was gypsum applied to the selected field for the 2021 corn cro	.n?		Yes=1 No=3	0218
 Was gypsum applied to the selected field for the 2021 connector Was a soil test for soil organic matter performed on this corn five years?	eld at some point i	n the last 10	Yes=1 No=3	3225
[If item 7 = 1, ask]				Percent
a. What was the percentage of soil organic matter on the field	I for the most rece	nt test?		3226
a. What was the percentage of soli organic matter on the neic			•••••	Number
b. How many times have you tested the selected field for soil	organic matter in t	he last 10 years?	·	3227
[If item 7b is more than 1, ask]				Code
c. Based on these tests, is your soil organic matter content	 1 Increasing? 2 Decreasing? 3 Staying roughly t 	he como?		3228
9 Mas a soil or plant tissue test performed on the selected earn t		1 for the 2021		Code 0224
 Was a soil or plant tissue test performed on the selected corn f crop? 			Yes=1 No=3	0224
[If item 8 = 1, continue, otherwise go to item 13.]				Code
 Was a soil test for phosphorus performed on the selected corn 2021 crop? 			Yes=1 No=3	0225
[If item 9 = 1 ask]				Pounds per Acre
a. How many pounds of phosphorus per acre were recomment	nded by the phosp	horus test?		0226
			V	Code
10. Was a soil test for nitrogen performed on this corn field in 2020) or 2021 for the 20)21 crop?	Yes=1 No=3	0227
[If item 10 = 1, ask]				Pounds per Acre
a. How many pounds of nitrogen per acre were recommende	d by the nitrogen to	est?		0228

0229 11. Was a plant tissue test or leaf analysis for nutrient deficiency performed on the selected field in Yes=' 2020 or 2021 for the 2021 crop?..... No=3 **Dollars & Cents** OR per Acre Total Dollars 0230 0231 12. How much was spent for these soil and plant tissue tests on the selected field? INCLUDE operator, landlord, and contractor costs..... [If tests were done at no cost, continue. Otherwise go to item 12b.] Soil/plant tissue test provided free of charge by 1 Code dealer, crop consultant, or extension service 0232 a. What is the reason why tests were 2 Soil/plant tissue test costs were included in the total done at no cost?..... fertilizer costs reported in item 5 3 Some other reason Code 3231 b. Did you receive a payment from the Conservation Stewardship Program for performing a Yes=' stalk or leaf tissue test for nitrogen application?..... No=3 [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. Was the amount of nitrogen you decided to apply to the selected field based on--Code 0233 Yes=1 a. Results of a soil or plant tissue test?..... No=3 Yes=1 0234 Crop consultant recommendation?..... b. No=3 0235 Yes=1 Fertilizer dealer recommendation?..... C. No=3 0236 Yes=1 Extension Service recommendation?..... d. No=3 0237 Yes=1 Cost of nitrogen and/or expected commodity price?..... e. No=3 Yes=1 0238 Contractor recommendation?..... f. No=3 0239 Yes=1 Routine practice - operator's own determination based on past experience, yield goal, etc.?... No=3 g. Nitrification in inhibitors (such as N-Serve) Code Urease inhibitors (such as Agrotain) 2 14. Which of the following products did you 0241 3 Chemical-coated fertilizers (such as sulfur-coated use to slow the breakdown of nitrogen on urea and polymer-coated urea) this field?..... 4 Other inhibitors 5 None [If nitrogen inhibitors were used, continue. Otherwise go to item 15.] OR Pounds per Acre Gallons per Acre 2561 2562 How much nitrogen inhibitor did you mix with the nitrogen applied to the selected field?..... **Dollars & Cents** Dollars & Cents per Pound per Gallon b. What was the cost of nitrogen inhibitors used on this field? INCLUDE |0297 0298 operator, landlord, and contractor costs.....

18

Code

				Code
15. Was time-released fertilizer applied to the selected f	ield?	Yes=1 No=3	2567	
16. Is lime ever applied to the selected field?		Yes=1 No=3	0242	
[If item 16 = 1 continue, otherwise go to item 17.]			,	Years
			0243	
a. On average, how many years are there between	applications of lime to the selected field	?		
			Tons	s per Acre
b. How many tons of lime were applied per acre the	e last time it was applied to the selected	field?	0244	
				Code
	0004 5 11 0004 0	Yes=1	0240	
c. Was lime applied to the selected field in 2020 or	2021 for the 2021 crop?	No=3		
17. Was non-commercial (unprocessed) manure from ov				Code
other organic material, including compost, applied to EXCLUDE commercially prepared manure			0246	
[If item 17 = 1 continue, otherwise go to Section D.]			L	Acres
, 3			0247	,
a. To how many acres in the selected field was man	nure or compost applied?			•
	U	nits per acre	Unit 1 Tons 2 Gallo 3 Bush 4 Cubio	ons iels
	0249)	0248	
b. What was the amount of manure or compost app		•		
 c. Of the total manure or compost applied to the se percent of manure or compost applied 	elected field for the 2021 corn crop, what	was the		Percent
			0254	ercent
i. in the fall before planting?			- 0204	
			0255	
ii. in the spring before planting?		н	-	
iii. after planting?			0256	
				100%
				100 %
	1 Lagoon liquid?			Code
	2 Slurry liquid? 3 Semi-dry or dry?		0257	
d. Was the manure or compost				
	1 Broadcast or sprayed without incorporation? 2 Broadcast or sprayed with incorporation?	on?		Code
e. Was the manure or compost	3 Injected/knifed in?		0258	
	4 Sprayed using irrigation systems?			
f. Was the major source of manure or compost	1 Beef cattle? 2 Dairy cattle? 3 Hogs? 4 Sheep? 5 Poultry? 6 Equine? 7 Biosolids - municipal sludge?		0250	Code
	7 Biosolids - municipal sludge? 8 Food waste?		0259	
	9 Other? Specify:	1	1	

			1 Produced on this operation?			Code
g.	Wa	s the manure or compost	2 Purchased? 3 Obtained at no cost off this operation?			0260
-		·	4 Obtained with compensation	(operator		
[If item	17ថ្	g = 2, continue, otherwise go to item 16h.]	received payment for accepting	ng the manure)?		
	i.	What was the total cost of the purchased ma	nure or compost applied to	Dollars & Cents per Acre	OR	Total Dollars
	1.	the selected field? INCLUDE operator, landle		0284		0285
		INCLUDE any payment made for transportation	ion costs	·		
					F	Code
	ii.	Did you have someone to custom apply the r	nanure or compost?		Yes=1 No=3	0286
		(a) If item 17gii = 1, ask]		Dollars & Cents per Acre	OR	Total Dollars
		W[hat was the total cost paid to have ma applied to the selected field? INCLUDE of contractor cost	operator, landlord, and	0287	_	0288
[Do no	t rep	port custom application cost if it was included	with the purchased manure o	r compost cost.]		
						Miles
h.		at is the distance in miles between the manur ected field?			the	0291
						Code
i.		the manure or compost applied to the selected or to application?			Yes=1 No=3	0261
j.		s the application rate of commercial nitrogen manure or compost application?			Yes=1 No=3	0262
[lf 17j =	= 1,	ask]				Percent
	i.	By what percent did you reduce the commerce selected field?				0263
						Code
	ii.	Did you adjust the corn harvest date for the s manure or compost?			Yes=1 No=3	0280

0264 18. Were the manure or compost application rates to the selected field influenced by Federal, Yes=1 State, or local restrictions?..... No=3 [If item 18 = 1, ask--] a. What basis was used to determine these manure application rate restrictions--Code 0265 Yes=1 i. Nitrogen requirement of the crop?..... No=3 0266 Yes=1 ii. Phosphorus requirement of the crop?..... No=3 19. Compared to the last time you planted corn, did you make any of the following changes to your cropping practices with the intent of reducing commercial fertilizer use? Code 1226 a. Change the type of commercial fertilizer products applied on the selected field, (e.g. less Yes=1 anhydrous ammonia and more urea)..... No=3 Manage fertilizer use more closely, with such practices as soil testing, split applications, 1228 b. Yes= variable rate applications, or soil incorporation on the selected field..... No=3 1227 Change your crop rotation, e.g. plant corn on the selected field rather than usual crop C. Yes=1 rotation..... No=3 1224 Yes=1 d. Reduce the application of commercial nitrogen fertilizer..... No=3 [If item 19d = 1, ask--] Percent 1225

i. By what percent did you reduce the amount of commercial nitrogen fertilizer applied for 2021?..

21

Code

BIOCONTROL or PESTICIDE APPLICATIONS - SELECTED FIELD

Now I have some questions about all the biocontrols or pesticides used on the selected field for the 2021 corn						
crop, including both custom applications and applications made by this operation.		Code	Office Use Edit Table			
 Were any herbicides, insecticides, fungicides or other biocontrols or pesticides used on this corn field for the 2021 crop? 	Yes=1 No=3		0300			

[Probe for applications made in the fall of 2020 and those made earlier if the selected field was fallow.]

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

D

INCLUDE defoliants, fungicides, herbicides, insecticides, and other pesticides. INCLUDE biological and botanical pesticides.		EXCLUDE adjuvants, nutrients or fertilizers reported earlier and seed treatments.			Office Use Line in Table	Table 001	0399	
							001	
		2	3	4	5	6 OI	२ 7	8
Chemical Product Name	L I N E	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?	[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 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) D

Applications Codes for Column 9

- 6 Chiseled/injected or knifed in 7 Banded in or over row
- 1 Broadcast, ground without incorporation 2 Broadcast, ground with incorporation
- 3 Broadcast, by aircraft
- 4 In seed furrow
- 5 In irrigation water

- 8 Foliar or directed spray
- 9 Spot treatments

	9	10	11	12	13	14
	How was this product applied? [Enter code from	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?	Unit Code
L I N E	above.]	Acres	Number	 Operator, partner, or family member? Custom applicator? Employee/Other? 	Dollars & Cents per Unit	1Pounds15Liquid Ounces12Gallons28Dry Ounces13Quarts30Grams14Pints
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. Were any chemicals, biocontrols, or pesticides applied by custom applicators?	Yes=1 No=3	
[If item 3 = 1 ask Otherwise go to item 4.]		Code
a. Are you able to report the cost of chemical, biocontrol, and pesticide products and custo application separately?		0324
[If item 3a = 1, ask]		
Dollars & C per Acre	00	Total Dollars
 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 		0332
4. What was the total cost of all chemical, biocontrol, or pesticide products applied to the selected field? INCLUDE operator, landlord, and contractor costs, defoliants, herbicides, insecticides, fungicides, surfactants, wetting agents, growth regulators, and materials applied before planting and during	~ ~ ~	Total Dollars
2020 fallow period. EXCLUDE seed treatments	•	
Dollars & C per Acre	00	Total Dollars
a. How much was spent for herbicide products applied to the selected field? ³⁰³⁴ INCLUDE operator, landlord, and contractor costs		3035
Dollars & C per Acre		Total Dollars
b. How much was spent for insecticide products applied to the selected field? INCLUDE operator, landlord, and contractor costs	·	3037
Note 1: If respondent cannot report total cost, itemize cost for each product in optional columns in Biocor Note 2: If custom applied and the costs for materials can be separated from application costs, include the		1
Otherwise, report both the material and application costs in item 4.		-

PEST MANAGEMENT PRACTICES - SELECTED FIELD

Now I have some questions about your pest management decisions and practices used on the selected field for the 2021 corn crop. By pests, we mean weeds, insects, and diseases.

Ε

[Er	umerator Action: Were pesticide applications reported in Section D?]			Code
1.	Were weather data used to assist in determining either the need or when to make pesticide applications?	Yes=1 No=3	0800	
2.	Were any biological pesticides such as Bt (<i>Bacillus thuringiensis</i>), insect growth regulators, neem or other natural/biological based products sprayed or applied to manage pests in the	Yes=1	0801	Code
3.	selected field? Were pesticides with different mechanisms of action rotated or tank mixed for the primary purpose of keeping pests from becoming resistant to pesticides?	No=3 Yes=1 No=3	0802	
	umerator Action: Were herbicide (pesticide product codes 10000-99000) applications reported Section D, item 1, column 2?]	110-5		
	□ Yes - Continue □ No - Go to item 6	Г		Code
4.	Were herbicides applied to the selected corn field before weeds emerged?	Yes=1 No=3	0803	
5.	Were herbicides applied to the selected corn field after weeds emerged?	Yes=1 No=3	0805	
6.	Were records kept for the selected field to track the activity or numbers of weeds, insects, or diseases?	Yes=1 No=3	0823	
7.	Did you use published information on infestation thresholds to determine when to take measures to manage pests in the selected field?	Yes=1 No=3	1824	
	1 By deliberately going to the field specifically for			
8.	In 2021 how was the selected field primarily	1	0000	Code
	scouted for insects, weeds, diseases, and/or beneficial organisms?		0808	
	3 The selected field was not scouted. [Enter code 3 and go to item 14.]			Code
9.	Was an established scouting process such as systematic sampling, recording counts, etc. used 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?	Yes=1 No=3	0810	
	b. a pest development model?	Yes=1 No=3	0811	
				Code
11.	Do you believe that rootworms damaged corn grown on the selected field?	Yes=1 No=3	1923	
[lf i	tem 11 = 1, continue. Otherwise, go to item 12.]			Code
	a. If you believe that rootworm damage lead to lodging, approximately how many stalks were lodged?	Yes=1 No=3	1924	
	 b. If you believe that rootworm damage stunted plant growth, approximately how 1 One node eaten back to 1.5 inches of the stalk. 2 Two complete nodes eaten. 		1925	Code
	many stalks were affected?			

	1	2	3		
			[If column 2] Do you believe that the infestation than the economic three	on/popul	ation level was higher
	you believe that the selected field was infested with y of the following insects or mites?		1 Much higher (over 1.5 times t 2 Higher (between 1 and 1.5 tim 3 Lower (between 1 and .5 time 4 Much lower (between .5 and 0 99 Don't know	nes the t es the thr	hreshold) reshold)
		Yes=1 No=3	Cod	le	
-	Corn Rootworms?	xxxx	хххх		
a.		xxxx	xxxx		
b.	Corn Borers?				
C.	Mites?	XXXX	XXXX		
d.	Corn Earworms?	XXXX	хххх		
e.	Grubs, Wireworms, or Seed Maggots, or other soil dwelling pests?	xxxx	xxxx		
[lf sco	uted by crop consultant or commercial scout, ask iten	n 13, otherwise	e go to item 14.]		
			Dollars & Cents per Acre	OR	Total Dollars
	w much was charged for the scouting services for the CLUDE operator, landlord, and contractor costs		0821		0822
				-	Office Use
a.	If scouting performed at no cost, explain:				0333
					Code
	ere scouting data compared to published information then to take measures to manage pests in the selected			Yes=1 No=3	
	d you use field mapping of previous weed problems to anagement decisions?			Yes=1 No=3	
	d you do any of the following other types of pest man anaging or reducing the spread of pests in the selecte		e specific purpose of		Code
a.			r soil plant tissue pest	Yes=1	0841
	analysis for the selected field?			No=3	
b.	Plow down crop residue using conventional tillage?			Yes=1 No=3	0842
C.	Remove/burn down crop residue?			Yes=1 No=3	0843
d.	Rotate crops in the selected field during the past thr	ee years?		Yes=1 No=3	0844
e.	Maintain ground covers, mulches, or other physical	barriers?		Yes=1 No=3	0845
f.	Choose crop variety because of specific resistance	to a certain pe	st?	Yes=1 No=3	0846
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	0849
j.	Chop, spray, mow, plow, or burn field edges, lanes,	ditches, roadw	ays, or fence lines?	Yes=1 No=3	0850

		Yes=1	0852
I.	Adjust row spacing, plant density, or row directions?	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	0855
0.	Use a flamer to kill weeds?	Yes=1 No=3	0857
p.	Maintain buffer strips or border rows to isolate rice 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 lected field to manage pests?	Yes=1 No=3	0853
			Code
	ere floral lures, attractants, repellants, pheromone traps, or other biological pest controls used the selected field?	Yes=1 No=3	0858
[If iten	n 17 or item 18 = 1, ask]		
a.	What were the total materials and application costs for all biological pest controls for the selected field? INCLUDE operator, landlord, and contractor costs. INCLUDE cost for beneficial organisms, insects, nematodes, and fungi. EXCLUDE biological pesticides previously reported	OR	Total Dollars 0860
			Code
19. W	as a trap crop, excluding fallow, grown to help manage insects in the selected field?	Yes=1 No=3	0863
20. W	as the selected field left fallow in 2020 to help manage insects on the selected field?	Yes=1 No=3	0864
	ere water management practices such as irrigation scheduling, controlled drainage, or	-	Code
	eatment of retention water used on the selected field to manage pests or toxin-producing ngi and bacteria?	Yes=1 No=3	0861

22. Was protection of beneficial organisms a factor in your pest control decisions for the selected field? Yes=1 1765 [If item 22 = 1, continue. Otherwise, go to item 23.] Cod a. Did you change timing of, reduce application rate of, or eliminate a pesticide application? Yes=1 1766 b. Did you change to an alternative pesticide, biocontrol, or non-pesticide practice? Yes=1 1767	le
a. Did you change timing of, reduce application rate of, or eliminate a pesticide application? $\frac{\text{Yes}=1}{\text{No}=3}$	le
a. Did you change timing of, reduce application rate of, or eliminate a pesticide application? No=3 Yes=1	
163-1	
23. Did you cultivate the selected field for weed control?	
[If item 23 = 1, ask]	ber
2454	
a. How many times?	
Cod	le
24. Did you use a soil-insecticide or insecticidal seed treatment in the refuge in 2021?	
Unit Co 1 Pounds 2 CWT 3 Tons 4 Puebele	odes
Units per Acre 4 Bushels	
25. If untreated (either with insecticide or Bt seed), how much yield loss (e.g. bushels per acre) do you think corn borers would most likely cause on the selected field? 2670 2671	
26. If untreated (either with insecticides or Bt seed), how much yield loss (e.g. bushels per acre) do you think corn root worms would most likely cause on the selected field?	
27. If untreated (either with herbicides, tillage, or cultivation), how much yield loss (e.g. bushels per acre) do you think weed would most likely cause on the selected field?	
Cod	le
28. Did pests, (weeds, insects, pathogens, animals) cause any yield loss on the selected field in Yes=1 spite of your pest control efforts?	
[If item 28 = 1, ask]	
Unit Codes 1 Pounds 2 CWT 3 Tons 4 Pounds	Inito
a. How much yield loss do you think was caused by all pests on Units per Acre 4 Bushels OR Total U	Jhils
the selected field in spite of the management practices you used to reduce those losses?	
Number o	of Years
29. If you used genetically engineered, glyphosate resistant seeds on the selected field in 2021, indicate the number of consecutive years you have planted genetically engineered, glyphosate-resistant seeds.	
[Note: A producer who used HT corn in 2021 and 2020, but conventional corn in 2019 has used genetically engineered, glyphosate resistant seeds for "2" consecutive years.]	ar
[Note: A producer who used HT corn in 2021 and 2020, but conventional corn in 2019 has used genetically engineered, glyphosate resistant seeds for "2" consecutive years.] Yea	ar
genetically engineered, glyphosate resistant seeds for "2" consecutive years.]	ar
genetically engineered, glyphosate resistant seeds for "2" consecutive years.] Yea	
genetically engineered, glyphosate resistant seeds for "2" consecutive years.] Yea	
genetically engineered, glyphosate resistant seeds for "2" consecutive years.] Yea a. What year did you first plant any glyphosate resistant seeds on the selected field? 30. Have you noticed a decline in the effectiveness of glyphosate (e.g. Roundup) in controlling Yes=1 0834	 le

- 31. After noticing the decline in the effectiveness of glyphosate in controlling weeds on the selected field, did you--
 - 0837 Yes=1 a. stop planting glyphosate resistant crops?..... No=3
 - Yes=1 b. change tillage practices?..... No=3

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

1 Active Ingredients	2 2021 Yes=1 No=3	3 2020 Yes=1 No=3	4 2019 Yes=1 No=3	5 2018 Yes=1 No=3	6 2017 Yes=1 No=3
a. Glyphosate (e.g. Roundup®)	2001	2002	2003	2004	2005
	2006	2007	2008	2009	2010
b. Glufosinate (e.g. Liberty®)					
c. Dicamba (e.g. Xtend®, Xtendimax®, Engenia®)	2011	2012	2013	2014	2015
	XXXX	хххх	хххх	хххх	XXXX
d. 2,4-D (e.g. Enlist®)					

33. Have herbicide tolerant seeds been planted on the selected field any time since 2021?.....

Code

[If item 33 = 1 continue, otherwise go to item 34.]

	If column 2 = 1, ask questions in columns 3 - 6					
1	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			
For 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®) (Soybeans)	2037	2038	2039	2040	2041	
e. 2,4-D (e.g. Enlist®)	2037	2038	2039	2040	2041	

2021 Yes=1 No=3

Code

34. Considering each year you planted a glyphosate resistant crop on the selected field, have you ever used the following practices in order to reduce the rate that glyphosate resistance develops in weeds on the selected field?

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

[If item 34, column 2 contains at least one "1", ask--; otherwise go to item 36

35. Considering the above practices (a-g), do you believe resistance management practices are or would be more effective in reducing the rate that herbicide resistance develops in weeds on the selected field if operators of nearby farms also use them?	 Yes Don't know No The nearest farm is too far away to affect the selected field 		Code 0088
		Yes=1	2926

36. Did you plant genetically-engineered rootworm-resistant seed on the selected field in 2021?..... No=3

			Years
		2927	
a.	How many consecutive years have you used root worm resistant seeds on the selected field?		
[If item	36a is greater than 1, continue. Otherwise go to Section F.]		Code
	Have you ever switched from a root worm resistant seed with one mode of action (MOA) to $_{\text{Yes=1}}$ a pyramided rootworm resistant seed? Note: Pyramided seeds have multiple MOAs No=3	2928	
[If item	36b = 1, ask]		Year
C.	What year did you switch from a rootworm resistant seed with one MOA to a pyramided root worm resistant seed?	2929	

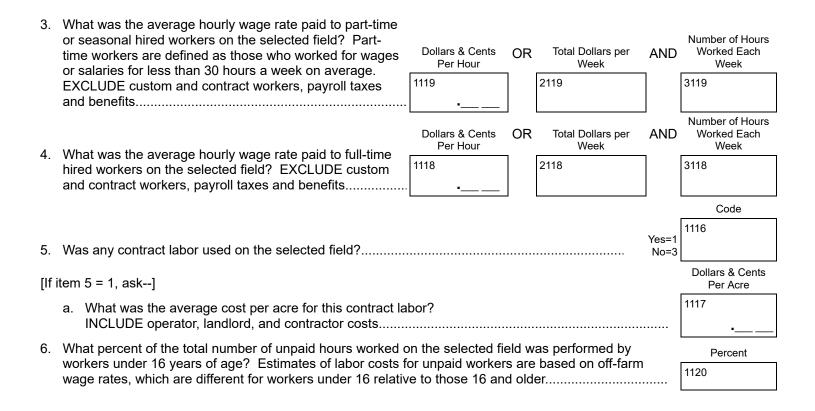
	r Pest Management ata
1 Incomplete/Refusal	0500

F					FIELD OPE	RATIONS	- S	ELECTE	D FIE	LD		F		
					to list field wo		d by	[,] machine	s	Check List INCLUDE all field work using machines for				
	•				after harvest of pro		ludin	a operation						
		for a cover	crop esta	ablished since	the previous crop						☐ Tillage			
	•			ng with fall 201 order through	9. harvest and haul	ing of this crop	to sta	orage or firs	t t	1	aring for Irrigation			
	•	point of sal		order unough	nalvest and nau		10 51	Jage of Ins	L	☐ Plan	ting			
	•	maintain th	e order o	f tandem hook	-ups.					🗆 Ferti	lizer & Pesticide app	lications		
					Codes for Colum	n 5					vesting & Hauling to s	storage or		
				1 You (the Op 2 Partner	perator)			Office l	100	EXCLUDE	rst point of sale			
				3 Unpaid Wo	rker me or Seasonal V	Maultau		Lines in			& Gypsum/land plas	ster applications		
				5 Paid Full-ti		vorker		0499		□ Com	post & Non-commer	cial manure		
	r – –	1		6 Custom Ap	plicator						plications			
1	2	3	4	5			[If Co			skip columns	-	1		
	s	What	[Recor	rd Who wa	6	7)R I	9	10	11		
	Е	operation or	machir code fro	ne the	the size or	[Record size unit code.]		ow many cres were		many total were spent	What power source was used?	What was the fuel type of the		
L	Q U	equipment was used?	Respond	dent operato	e swath of the	1 Feet		overed?	on la	and forming	Tractors	tractor?		
N	E		Bookle	i.j ·	[machine]	2 Row 3 Moldboard	Е	XCLUDE	[E	l hauling? Example:	1 <40 HP 2 40-99 HP	[Record fuel type only if		
E	N C			[Enter co from abov		bottoms		nd forming Id hauling		khoes, disk der maker,	3 100-149 HP 4 150-199 HP	Power code equals 1-5]		
	Е					Hauling		perations.		cher, rear inted blade.	5 >=200 HP	1 diesel		
						4 Pounds 5 Bushels			truc	ks, wagons,	OR 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	e Code		Code		Acres		Hours	Code	Code		
01	87		88	89	90	91	92	•	93		94	95		
02	87		88	89	90	91	92	•	93		94	95		
03	87		88	89	90	91	92	•	93		94	95		
04	87		88	89	90	91	92	•	93		94	95		
05	87		88	89	90	91	92	•	93		94	95		
06	87		88	89	90	91	92	•	93		94	95		
07	87		88	89	90	91	92	•	93		94	95		
08	87		88	89	90	91	92	•	93		94	95		
09	87		88	89	90	91	92	•	93		94	95		
10	87		88	89	90	91	92	•	93		94	95		
11	87		88	89	90	91	92	·	93		94	95		
12	87		88	89	90	91	92	•	93		94	95		
13	87		88	89	90	91	92	•	93		94	95		
14	87		88	89	90	91	92	•	93		94	95		
15	87		88	89	90	91	92	•	93		94	95		
16	87		88	89	90	91	92	•	93		94	95		
17	87		88	89	90	91	92	•	93		94	95		
18	87		88	89	90	91	92		93		94	95		

Office Use

 [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 2021 corn crop. EXCLUDE labor that was reported for field work performed by machines.

	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 EXCLUDE custom and contract labor	1110	1111	1112					
Paid full-time workers EXCLUDE custom and contract labor	1113	1114	1115					



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 2021 corn crop.]

1	2
Custom Service	Including operator, landlord, and contractor costs, how much was spent for
Which of the following services were performed for the 2021 corn crop on the selected field?	[column1] on the selected field for the 2021 corn 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? (Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre)	1126 •
f. Custom harvesting and hauling from field to storage or point of first sale? (Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre)	1127 •
g. Custom raking, baling, and hauling the straw from the selected field? 	1128 •

			Code
8.	Was the corn harvested and hauled from the selected field dried (or will be dried) before it was sold or stored?	Yes=1 No=3	XXXX
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?	Yes=1 No=3	1196
[lf	item 9 = 1, continue. Otherwise, go to item 12]		

	/hich of the following technical or consultant services did you obtain to make commendations for the selected field?		Code
		1	ecae
а	Nutrient recommendations/management service?	Yes=1 No=3	1129
b	Soil or tissue sample collection?	Yes=1 No=3	1130
с	Pest control recommendations/management service?	Yes=1 No=3	1131
d	Pest scouting?	Yes=1 No=3	1132
е	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 10a-g = 1, continue, otherwise go to item 12.]

11. What was the cost for any technical or consultant services reported in item 10,	
on previous page. INCLUDE operator, landlord, and contractor costs.	Dollars
EXCLUDE cost of soil or tissue tests or scouting costs previously reported.	per
Do not report costs for any of these services reported above if they were	1136

& Cents OR Total Dollars Acre 1137 1136 previously reported as part of the cost of materials and/or application.....

12. Please report how any data from the selected field in 2021 will be stored and accessed.

i	a.	Did you access the data collected from the selected field on a		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
		Did you access the data collected from the selected field through an agricultural technology provider website?	Yes=1 No=3	2488
[If it	em	12b = 1, ask]		Code
		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
		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
		re there or will there be any data collection tools such as yield monitors, GPS mapping, etc. ed during field operations on this corn field?	Yes=1 No=3	2460

[If item 13 = 1, continue, otherwise go to item 17.]

Please report the data collection technologies you used on the selected field in 2021 to produce this crop. In the fifth column, report how much it would cost you to replace the data collection tool. In the sixth column, report the annual costs of using the data collection tool. INCLUDE custom service fees, data subscriptions, and online tool subscriptions. If the replacement cost or annual fee does not apply to a particular data collection tool, leave the cell in that column blank.

1	2	3	4	5	6
Data Collection Tool	Tool Used Yes = 1 No = 3	Collected GPS coordinates Yes = 1 No = 3	Data was/will be used to create a map Yes = 1 No = 3	Replacement Cost Total Dollars	Annual Fee 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. 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		

[If item 13a column 2 = 1, continue, otherwise go to item 16.]

14. Dic	l you use the yield monitor information to			Code
a.	add/improve tile drainage?		Yes=1 No=3	1141
b.	negotiate new crop leases?		Yes=1 No=3	1144
C.	help determine chemical input use?		Yes=1 No=3	1143
[If any	item 13 column 2 = 1, continue, otherwise go to item 17]			
rec	ing data collected from the previous tools table in item 13, did you obtain crop ommendations, such as data interpretation, in 2021 for the selected field from			
1011	owing		Yes=1	Code
a.	input dealers without other fee-for-services?		No=3	
b.	input dealers with other fee-for-services?			
C.	custom service providers?		Yes=1 No=3	
d.	USDA/university extension services?		Yes=1 No=3	2494
[If any	item 15a-d = 1, ask]			
e.	What was the cost for all of these services? INCLUDE operator, landlord and contractor costs. EXCLUDE costs for any of these services if they	Dollars & Cents per Acre	OR	Total Dollars
	were previously reported as part of the costs of materials and/or application.	3150 •	_	3151
				Code
	l you use an unmanned aerial vehicle (UAV), known as a drone, to help produ production of corn in the selected field in 2021?		Yes=1 No=3	3160
[If item	16 = 1, ask]			
- а.	In the selected field, did you use the UAV for any of the following purposes?			Code
	i. Weed analysis?		Yes=1	3161
			No=3 Yes=1	3162
	ii. Spraying herbicide or fungicide?		No=3	
	iii. Insect analysis?		Yes=1 No=3	3163
	iv. Insect control?		Yes=1 No=3	
	v. Yield analysis?		Yes=1 No=3	3165
	vi. Moisture analysis?		Yes=1 No=3	
	vii. Equipment check?		Yes=1 No=3	
b.	Did you purchase the UAV?		Yes=1 No=3	3168
[If item	16b = 1, ask]			Total Dollars
	i. What is the replacement cost of the UAV?			3169
				Code
C.	Do you pay an annual fee for use of UAV?		Yes=1 No=3	3170
[If item	16c = 1, ask]			Total Dollars
	i. What is the annual fee for use of the UAV?			3171
			•••••	

17.	17. Was any of the following GPS-enabled (Global Positioning System) equipment used to produce corn on the selected field in 2021?						
	UII					a	Code
	a.	Mounted in-cab heads-up displays?			Yes=1 No=3	2155	
	b.	Smart phones or computer tablets?			Yes=1 No=3	2156	
	C.	Automatic section control, such as auto sprayer boom offs?	controls or automatic	section shut	Yes=1	2165	
		015 {			No=3		
18.	ins equ	ny GPS-enabled equipment was used, what was the co tall all GPS-enabled equipment, not including guidance uipment? INCLUDE cost for GPS receiver and annual C d operator, landlord, and contractor costs. EXCLUDE co	auto-steering GPS subscription fee,	Dollars & Cents per Acre	OR	Tot	al Dollars
	equ	uipment if they were previously reported as part of the c d/or application	osts of materials	2166 •	_	2167	
							Code
						2148	
19.	Wa	is any guidance auto-steering equipment, excluding Ligh	nt Bar, used on the se	lected field?	Yes=1 No=3		
[If i	tem	19 = 1 continue, otherwise go to item 20.]					
			1 New, owned?				Code
	a.	Was the guidance auto-steering equipment	2 Used, owned?			2158	
							Year
	b.	What year was guidance auto-steering equipment first	purchased?			2159	
				Dollars & Cents per Acre	OR	Tot	al Dollars
	C.	What is the replacement cost for guidance auto-steerin	a equipment?	2160		2161	
	0.		9 9401211011111111	 Dollars & Cents per Acre	OR	Tot	al Dollars
	d.	What is the annual fee for guidance auto-steering?		2162		2163	
		<u></u>				L	Codo
						2164	Code
20.	Wa	is a variable rate applicator used on the selected field?			Yes=1 No=3	2164	
[If i	tem	20 = 1 continue, otherwise go to Section G]					

Please report the variable rate applicator types you used on the selected field to produce the rice in 2021.

1	2	3	4	5	6
Was a variable rate applicator used on the selected field for:	Tool Used Yes=1	Was this applicator 1 Sensor-based 2 GPS-based 3 Both 4 Neither	Was this applicator 1 New, owned 2 Used, owned 3 Leased	What year was the applicator first used?	Premium paid for the applicator
	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

2. Now I have some questions about the irrigation system and water that covers the most acres on the selected field for the 2021 corn crop. Unit System 1161 a. What type of irrigation system was used to irrigate the selected field? [Show System Type Codes in the Respondent Booklet. Enter System Type Code for System Type Code system that applied the most water.]..... 1162 Inches per Acre b. What was the total quantity of water applied to the selected field during the entire OR growing season? INCLUDE all water used from both on-farm and off-farm sources and 1163 **Total Acre Feet** applied by any irrigation system..... [If operator cannot provide item 2b, ask (i) and (ii), otherwise go to 2c] 1164 What is the total number of hours this system was used to apply water to the i. **Total Hours** selected field during the corn growing season?..... 1165 Gallons per Minute ii. How many gallons per minute were applied?..... 1166 c. What percent of the water used to irrigate the selected field through this system came Percent from surface water sources?..... 1167 Number of d. What was the number of times the selected field was irrigated during the corn growing Irrigations season using any system? INCLUDE any pre-plant irrigation..... e. What was the pump type? [If more 1 Turbine than one pump in the system, enter 2 Submersible 1168 type for pump closest to water 3 Centrifugal Code source.]..... [If code 99, go to item j.]..... 4 Booster 5 Siphon 99 No Pump 1169 Gallons per Minute f. What was the average pumping rate?..... [If item 2a = code 1-9 (Pressure System), ask-] 1170 Pounds per g. What was the system operating pressure?..... Square Inch 1 Diesel 2 Gasoline h. What was the primary motor type used to 3 LP Gas 1171 pump the water?..... Code 4 Natural Gas 5 Electricity 6 Solar Power 1172 Horsepower What was the average motor size?..... i. [If item 2e = 99, ask--] 1173 Gallons per Minute What was the average flow rate?..... j. 1174 k. How many other acres on this operation were irrigated using the selected field's Acres irrigation system during the 2021 growing season? EXCLUDE the selected field.....

IRRIGATION

		1160
1.	How many acres in the selected field were irrigated for the 2021 corn crop?	

[If none, go to Conclusion]

37

G

G

4400

Acres

		Dollars & Cents per Acre	OR	Total Dollars	
	What was the cost of the fuel or electricity used to irrigate the selected field? INCLUDE operator, landlord, and contractor costs	1189 •		1190	
				Code	
	Was any water purchased to irrigate the selected field ? INCLUDE landlord's sha purchases from all sources		Yes=1 No=3	1191	
[If it	[If item 4 = 1 ask Otherwise go to item 5.]				
		Dollars & Cents	OR	Total Dollars	
	a. What was the total cost for the water purchased for the selected field during the 2021 growing season? INCLUDE operator, landlord, and contractor costs and ditch maintenance costs for the selected field	per Acre 1193 •		1194	
[If s	iphon tubes were used, item 2a = 10 or 11, ask]			Total Dollars	
				1201	
	What would be the total cost to replace all the siphon tubes used on the selected	field?			
	oly pipe system was used, item 2a = 14, ask]			Total Dollars	
	What was the total amount spent for poly pipe used on the selected field during to season? INCLUDE operator, landlord, and contractor costs			1202	
[lf g	ated pipe system was used, item 2a = 15 or 16, ask]			Inches	
7.	What was the average diameter of gated pipe used to irrigate the selected field?.			1203	
				Feet	
	a. What was the total length of gated pipe used?			1204	
				Code	
8.	Were wells used to supply irrigation water for the selected field?		Yes=1 No=3	1205	
	em 8 = 1 continue. Otherwise go to item 9.]			Number	
•				1206	
	a. How many wells were used to irrigate the selected field?				
				Inches	
				1207	
	b. What was the average diameter of the outer well casing?			_	
	c. What was the average pumping depth of these wells during the irrigation sea is the depth to water at the start of the irrigation season, plus an average dec caused by pumping during the irrigation season	line in the water le	evel	Feet 1208	
				Code	
	d. Were other fields irrigated using water pumped from wells that supplied water	r to the		1210	
	selected field?		Yes=1 No=3		
[If it	em 8d = 1 continue. Otherwise go to item 9.]			Acres	
	e. Excluding the selected field, how many other acres on this operation were irri wells during the 2021 growing season?			1211	
	Was any additional mainline or lateral pipe used to carry water from the source to			Code	
	the selected field? INCLUDE underground pipe. EXCLUDE any system pipe wit selected field		Yes=1 No=3	2211	
[If it	em 9 = 1 continue. Otherwise go to Conclusion.]			Inches	
	a. What was the average diameter in inches of the most common type of this ac	ditional pipe use	d?	1212	
				Feet	
				1213	
	b. How many feet of this additional pipe were used to bring water to the selected	d field?			

CONCLUSION

Location of Selected Field					
I need to locate the selected field of corn on this map.	County Name	Office Use State County FIPS Code			
1. What county is the selected corn field in?		0010			

		LATITUDE	LONGITUDE
a.	Field location	9854	9855
		decimal	decimal

[Enumerator Action: Use the iPad app to find the coordinates for the center of the selected field. Confirm with the operator using the aerial imagery that this is the correct field.]

We will need additional information to complete this study. We will contact you in February or March 2022 to collect it. I'll call you then to set up a time that is good for you.

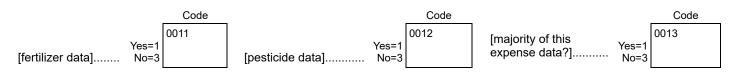
To receive the complete results of this survey on the release date, go to nass.usda.gov/results

2.	To have a summary emailed to you at a later date, please enter your email address.	1095

			н	н	М	М
		0005				
3.	Ending time [Military]	-				

Record Use

4. [Did respondent use farm/ranch records to report--]



Supplements Used

5. [Record the total number of each type of supplement used to complete this interview.]

	Number		Number		
	0041		0042		0043
Fertilizer Supplement		Pesticide Supplement		Field Operations	

Operation Email: (if different from above)	Operation Phone:	
9937	9936	check if cell phone
	()	

Respondent Name: Respondent Phone (if different from above)

9912	9911	check if	9910	MM	DD	ΥY
		cell phone				
	()		Date:			

This completes the survey. Thank you for your help.

			OFFICE US	SE				
Ptr 1 Str	Ptr 2 Str	Ptr 3 Str	Ptr 4 Str	OPS	SSO 1	ADJ	Optional Use	
9922	922 9923		9928	923	9907	922	9906 991	
ponse	Respo	ondent	Mod	e	Enum.		POID	
9901	1-Op/Mgr 2-Spouse 3-Acct/Bkpr	9902			9998	9989		
	4-Partner 9-Other		,			Eval. 9900	9985	Change
	9922 ponse	9922 9923 ponse Response 9901 1-Op/Mgr 2-Spouse 3-Acct/Bkpr 4-Partner	9922 9923 9927 ponse Respondent 9901 1-Op/Mgr 2-Spouse 3-Acct/Bkpr 4-Partner 9902	Ptr 1 StrPtr 2 StrPtr 3 StrPtr 4 Str9922992399279928ponseRespondentMod99011-Op/Mgr 2-Spouse 3-Acct/Bkpr 4-Partner99022-PATI (tel) 3-PAPI (Face-to-Face)	9922 9923 9927 9928 923 ponse Respondent Mode 9901 1-Op/Mgr 2-Spouse 3-Acct/Bkpr 4-Partner 9902 2-PATI (tel) 3-PAPI (Face-to- Face) 9903	Ptr 1 StrPtr 2 StrPtr 3 StrPtr 4 StrOPSSSO 1 9922 9923 9927 9928 923 9907 ponseRespondentModeEnum.99011-Op/Mgr 2-Spouse 3-Acct/Bkpr 4-Partner99022-PATI (tel) 3-PAPI (Face-to- Face)99039998	Ptr 1 StrPtr 2 StrPtr 3 StrPtr 4 StrOPSSSO 1ADJ 9922 9923 9927 9928 923 9907 922 ponseRespondentModeEnum. 9901 $1-Op/Mgr$ 2-Spouse 3-Acct/Bkpr 4-Partner 9902 $2-PATI (tel)$ 3-PAPI (Face-to- Face) 9903 9998 9989 $2-Op/Mgr$ $2-PATI (tel)3-PAPI (Face-to-Face)9903999899892-DATI (tel)Eval.9-Other$	Ptr 1 StrPtr 2 StrPtr 3 StrPtr 4 StrOPSSSO 1ADJOption992299239927992892399079229906ponseRespondentModeEnum.POID99011-Op/Mgr 2-Spouse 3-Acct/Bkpr 4-Partner99022-PATI (tel) 3-PAPI (Face-to- Face)99039998998999011-Op/Mgr 2-Spouse