AGRICULTURAL RESOURCE MANAGEMENT SURVEY

DRAFT COPY

ADDRESS

STATE

ZIP

CITY

OMB No. 0535-0218 Approval Expires: 7/31/2018 Project Code: 906 SMetaKey: 1312 Phase II



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

Phone: 1-888-424-7828 Fax: 1-855-415-3687 E-mail: nass@nass.usda.gov

	CORN P	RODUCT	ION PRACTICE	ES AND C	OSTS REPO	ORT F	OR 202	0	
VERSION	STATE		ID		TRACT	SUB	ΓRACT	C-TYPE	
8					01			105	
	<u>'</u>	!	CONTACT	Γ RECORD		<u> </u>		<u>-</u>]
DATE	TIME				NOTES				
We are collecting possible. The inf Protection provis and will not be dioath and is subje Response is volu According to the collection of infor 0535-0218. The for reviewing inst collection of infor	elf, and ask for the information on properties of Title V, Susclosed in identification a jail term, a intary. Paperwork Reduction unless it different to consider the control of the cont	ractices and covide will be us btitle A, Publicable form to a fine, or both incident of 19 isplays a validation and the complete this ing existing data	ephrase in your own costs used to product sed for statistical pur c Law 107-347 and nyone other than er if he or she willfully of 195, an agency may d OMB control numb information collection ta sources, gathering	ce corn and r rposes only. other applica mployees or a discloses AN not conduct per. The vali n is estimate g and mainta	In accordance able Federal la agents. By law Y identifiable in or sponsor, and OMB control at to average 6	with the ws, your w, every nformati ad a pers number 55 minute	e Confide response employee on about son is not for this it	ntial Information es will be kept e and agent hat you or your of required to re nformation coll sponse, includ	on t confidential as taken an peration espond to, a election is ling the time
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				PARTNER I					
PARTNER NAME				PARTNER	NAME				
ADDRESS				ADDRESS					
CITY	STATE	ZIP	PHONE NUMBER	CITY	:	STATE	ZIP	PHONE N	JUMBER
POID				POID _					
PARTNER NAME				PARTNER I	NAME				

ADDRESS

STATE ZIP

PHONE NUMBER

CITY

PHONE NUMBER

	Total Planted Acres
	0050
1. How many total acres of corn did this operation plant	for the 2020 crop year?
[If no acres were planted, review Screening Survey Inform	mation Form, make notes, then go to Conclusion on back page.]
a. Did you produce any acres of CERTIFIED ORGAN	NIC corn? YES = 1 1064
b. Of the total (item 1) acres, how many were planted	d using/as
	Total Acres Number Of Fields
(i) Conventional corn?	583
(ii) Certified organic corn?	730 + 1066
I will follow a simple procedure to make a random se	lection from the corn fields planted for the 2020 crop.
This follow a comple procedure to make a failuein co	Total Number Of Fiel
2. What is the TOTAL number of corn fields that we	ere planted on this operation?
Please list these fields according to identifying na been selected.	ame/number or describe each field, then I will tell you which field has
	total fields planted, and list only the 18 fields closest to the operator's tify or describe the fields, use the Field Selection Grid Supplement.]
FIELD NAME, NUMBER OR DESCRIPTION	FIELD NAME, NUMBER OR DESCRIPTION
1	10
2	11
3	12
4	13
5	14
6	15
7 8	16 17
9	18
<u> </u>	

APPLY "RANDOM NUMBER" LABEL HERE

[E	num	merator Action: Circle the pair of numbers on the above label as	sociated with	Selected Field Number
the	e las	ast numbered field in item 3. Select the field according to the nurabel, and record the selected number. If only one field, enter "1".	mber you circled on	0021
5.	Th	The field selected is (field name/number/description).		
		During this interview, the corn questions will be about this selected corn Be sure the operator can identify the selected field.]	ı field.	
6.	Fo	For the randomly selected field above, please provide the Farm S	ervice Agency (FSA):	
tra uso pro US	ct, a es to ogra	e physical field in this survey spans multiple FSA administrative fit and field number for the largest administrative field. These numbers to administer farm programs like crop insurance, commodity programs. Having this information helps USDA make better use of other A and will improve the types of statistical analysis that can be doney.]	pers are field identifiers that USDA grams, and conservation ner data you have provided to	Number
	a.	Farm Number (up to 8 digits)		1070
	b.	Tract Number (up to 7 digits)		1071
	C.	Field Number (up to 4 digits, exclude subfield letters)		1072
				OFFICE USE OY Field Substituted

					Acres
1.	How many acres of corn did this	operation plant in the selected field for the 2020	cron2	1301	
<u> </u>	Tiow many acres of com did this	operation plant in the selected field for the 2020	clop:		=_
				1300	Code
	a. Are the acres in the selected	field Certified Organic?	YES = 1	1300	
	[If item 1a = 1, go to item c.]			Dolla	ars & Cents
				1891	
	b. What was the cost, per acre,	for third party organic certification?			· <u> </u>
					Code
	a Was the colouted field transition	aning into organic corn production in 20202		1399	
	c. was the selected held transition	oning into organic corn production in 2020?			
	1	1 owned by this operation?			
2.	Were the acres in the selected	2 rented for cash with the payment being a fixed o		1302	Code
	field	3 rented for cash with the payment being a flexible 4 rented for a share of the crop?	e cash amount?		
		5 rented for some combination of cash and share	of the crop?		
		6 used rent free?		Doll	ars & Cents
3.	If field is cash rented (item $2 = 2$, 3, or 5), ask item 3; otherwise go to item 4.]		Р	Per Acre
٠.	-	acre for this 2020 corn field?		1303	
				ſ	Percent
4.	[If field is share rented (item $2 = 4$)	, -		1304	
	What was the landlord's share of	the crop from the selected field?			
5.	[If field is rented (item $2 = 2, 3, 4, 4$)	, 5, or 6), ask]			
		outs provided by any landlord for the 2020 crop			
		E the costs for all inputs, such as seed, rvices, custom operations, drying, and	Dollars & Cents Per Acre OR	Tot	tal Dollars
		tax expenses and lime costs paid by the	1305	1305	
	iandownerj				
			Dollars & Cents	Tot	tal Dollars
6.	What was the total cost for all inp for the 2020 crop on the selected		Per Acre Or	1310	lai Dollais
		ical services, custom operations, drying and irrigation.)	· <u> </u>		
					Year
7	What year did you (the operator	listed on the label) start operating the selected f	ield?	1312	

					MM DD
					1308
8. On what date was the selected field plante	ed?				2020
					Unit Codes
					1 Pounds 2 CWT
					3 Tons
				Units Per Acre	4 Bushels
				0216	0217
 a. What was your yield goal at planting for 	or the selected	field?		·	
			1 Grain		
9. Was the corn on the selected field planted			2 Silage		Code
with the intention of being harvested as			4 Seed		3327
			5 Other		
10.					
•					
For the continue for INOLLIDE country had been and controlled					
For the next question, INCLUDE operator, landlord, and contractor of EXCLUDE any Bt seed payment received for participating in the Pin			nology tee.		
		Unit Code			
What was the source and cost of	Dollars & Cents	1 Pounds 22 Acre	Percent of Seed		
	per Unit	23 Approx 50 Lb. Bag 40 250,000 Seed Bag	Planted		
Genetically modified organism/genetically engineered		1215	1216		
(GMO/GE) purchased seed?					
b. Non genetically modified organism/genetically engineered	1217	1218	1219		
(Non-GMO/GE) purchased seed?			1318		
c. Homegrown seed?					
			100%		
[If homegrown, ask]			Cents per Pound		
			3321	.7	
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	AND 38 = Kernels-Seeds/Foot
				1313	1314
11. What was the seeding rate per acre the first tim	ne the selected f	ield was plan	ited?	•	
		1 [Orilled?		
2 What mathed of cooding did you u	ico on the colo			ventional rows?	CODE
 a. What method of seeding did you u field? 	ise on the sele				1316
ileiu?		3 F	Rroadcast on t	the selected field?	
					Inches
What was the average corn row width for the	ne selected fie	ld?			1322
					ACRES
13. How many acres in this field had to be i	renlanted to o	orn?			1315
(Acres replanted = Number of acres x Number of t	imes replanted) .				
	,				

			Code
14. For the 2020 corn crop, was the corn seed	1 Treated with a pesticide prior to purchase? 2 Treated with a pesticide after purchase? 3 Not treated with a pesticide?		3062
[If item 14 = 1 or 2, ask]		Seed Treatment	Name
a. What was the name of the seed treatme Write seed treatment name in the box p			
			Code
 b. What was the seed treatment Code? En Respondent Booklet. Enter 999 if a seed Enter "-1" if the seed treatment is not kn 	d treatment was applied but is not listed		2325
[If item 21b is YES, ask]			CODE
15. For the 2020 corn crop, did you plant a comfield?	·	Yes = 1 No = 3	2340
[If item 15 = 1, ask]		Commercial Seed Prod	uct Name
What was the name of the seed product box provided			
			Code
b. What was the seed the product code? E Booklet (page 5). Enter 999 if a seed pro 1" if the product is not known	oduct was purchased but the product is	not listed. Enter "-	
1 if the product is not known		2020	2019 1 Yes
		1 Yes 3 No	3 No 4 N/A no corn in field
15. Did you plant genetically modified organism seeds for the 2020 or 2019 crop years?		2300	2301

[If item 15 = 1 for either year, continue. Otherwise, go to item 16--]

15. Did the CORN planted on the selected field have any of the following genetically modified organism/genetically engineered (GMO/GE) traits in 2019 or 2020?	2020 1 Yes 3 No	2019 1 Yes 3 No 4 N/A no corn in field
a. Insect Resistance (Bt) to Corn Borer	2501	2502
(i) With multiple (pyramided) modes of action	2503	2504
b. Insect Resistance (Bt) to Rootworm	362	363
(i) With multiple (pyramided) modes of action	2507	2508
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 Gly Dicamba Tolerance, or Glufosinate Tolerance should be accounted for using the		
16. Did you plant non-genetically modified/genetically engineered (non-GMO/GE) seeds for the 2020 or 2019 crop years?	2316	2317
[If item 16=1 for either year, continue. Otherwise, go to 19]	2020 1 Yes 3 No	2019 1 Yes 3 No 4 N/A no corn in field
17. Did the corn planted on the selected field have non-GMO/GE herbicide tolerant (HT) traits in 2020 or 2019?	2318	2319
18. Was the corn from the selected field sold (or will it be sold) through a market specifically for non-GMO/GE corn?	2518	2519
		Dollars & Cents per Bushel
What was the price premium (or the expected premium if not yet sold) reconnected non-genetically modified corn?	eived for this	2384 . <u> </u>

Code

19. Was the corn planted on the selected field drought tolerant?	«хх
[If item 19=1, continue. Otherwise, go to 21]	Code
2 Were those GMO/GE drought-tolorant seeds (e.g. Genuity® DroughtGard®)? Yes = 1 XX	«хх
NU - 3	
b. Were these non-GMO/GE drought-tolerant seeds (e.g., Optimum® AQUAmax®, Yes = 1 No = 3	ΧXX
c. Since the time that drought-tolerant corn became available in your area, have you only planted drought-tolerant corn varieties?	XXX
20. Next we will ask about factors that influenced your decision to plant drought tolerant seeds on the se	elected field.
	Code
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]	
	Yes = 1 No = 3
Ability to bundle drought tolerant seed traits with one or more GMO/GE traits, such as insect resistance or herbicide tolerance?	xxxx
b. Price of drought tolerant seed compared to seeds without drought tolerance?	xxxx
c. Price of irrigation water and/or irrigation water applications?	xxxx
d. Low soil moisture from frequent droughts?	xxxx
e. Field conditions, other than soil moisture or seasonal forecasts, at planting time?	xxxx
f. Drought in the prior crop year that at least partially damaged the crop?	xxxx
g. Concerns about changing growing conditions?	xxxx
г	Code
21. Did you use a genetically engineered, insect resistant seed variety for the 2020 crop? $\frac{\text{Yes} = 1}{\text{No} = 3}$	2326
[If item 21 = 1 , ask]	
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
	2327
3 Save management time or labor or improve ease of management? 4 Reduce refuge requirements	
5 For some other reason(s)? [Specify]	
	Code
b. Was this a refuge-in-the-bag product? Yes = 1 No = 3	xxxx
г	Percent
c. What percentage of the bag was conventional seed?	XXXX
[If item 21 - VES continue. Else go to item 22.1	
[If item 21 = YES continue. Else go to item 23.]	Code

Yes 22. Was a refuge for insect pests planted on the selected field? No		
[If item 22 is yes, continue, otherwise go to item 26]		Percent
23. 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
24. What is the size in acres of the refuge? Refuge may be adjacent to the field or a separate block within $\frac{1}{2}$ mile of the field	XXXX	
	U	nit Codes
Units per Acr	1 2 3 e 4	Pounds CWT Tons Bushels
25. What was the difference in yields in the Bt crop with the yields in the non-bt refuge crop?	2671	
		CODE
26. Did you use an "air delivery" or "vacuum (pneumatic) planter"? YES =	1 2323	
[If item 23 is YES, ask]		CODE
a. Did you use a talc and/or graphite seed flow lubricant? YES =	1 2324	
b. Did you use an alternative seed flow lubricant (e.g. Bayer Fluency Agent) instead of talc and/or graphite?	2394	
	1 1000	Code
0. 07 11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	s = 1 1328 s = 3	

28. Please report the following information about the acres harvested (or to be harvested) and the yields from the selected field.

How many acres in this corn field were (or will be)	1 What yield per acre did you (or do you expect to) get for corn	2 Unit Code 1 Pounds 2 CWT 3 Tons 4 Bushels	
	Acres	Units per Acre	Codo
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		

29. W	Vere the	stalks/stover	harvested	from the	selected	field?
-------	----------	---------------	-----------	----------	----------	--------

						1754
		YES - [Enter Code 1 and go to item 30]	NO	O - [Ask 26a, then go to item 31]		
	,	[If the corn stalks/stover were not harvested, ask] What was the primary reason for not harvesting the corn stalks/stover?	1 No m 2 Harve 3 The c matt 4 The s 5 The s	arket/use for corn stalks/stover esting was not profitable forn stalks/stover were left as organic er for the soil etalks/stover were left for livestock grazing etalks/stover were used for animal bedding		Code 1398
			K 1 11777	· CAAAAAA		Acres
30.	Hov	v many acres of corn stalks/stover were har	vested fi	rom this corn field?		1755
					Γ	Total Tons 1756
	a.	How many tons of corn stalks/stover were h	narveste	d from these corn acres (item 30)?		1/50
		$\frac{\cdot}{\text{Tons per Acre}}$ X $\frac{\cdot}{\text{Acres}}$ = $\frac{\cdot}{\text{Total Tons}}$ OF	R — Bales	$\frac{1}{3}$ X $\frac{2000}{\text{Lbs per Bale}}$ \div $\frac{2000}{\text{Lbs per Ton}}$ = $\frac{1}{1}$	Total Tons	
31.		any livestock graze this corn field after harvest of YES - [Enter Code 1 and continue]	of the 202 - [<i>Go to</i>	_		Code 1023
				1 Cattle		Code
32.		at type of livestock grazed this corn field or harvest of the 2020 corn crop?		2 Sheep 3 Other [Specify:]		1024
			•		_	Head
	a.	About how many head of livestock (item 28	3) grazed	this corn field?		1027
					r	Days
	b.	How many days did this livestock graze on	this corr	n field?		1028
						Code
33.		s any of the residue from the prior crop (corvest?	n stover	, wheat straw, etc.) removed post-	Yes=1 No = 3	XXX
[If y	es, a	ask]				Tons
34.	Ho	w many tons per acre of residue were remov	ved throu	ugh harvest?	13	328
						Head
	a.	About how many head of cattle grazed the	residue?	·		1362

Days

b.	How many days did cattle graze on the residue?	1363
C.	How many days did any other livestock graze the residue?	XXXX

	CROP CODE LIST for item 35 – 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					

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

1			2	3	4	5	6
What crops were planted on the sel	ected field in-		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 the selected field irrigated?	Was this field no-tilled or strip- tilled? 1/
			1 GMO/GE Herbicide		1 Tilled-in		
			Tolerant (HT)		2 Herbicide		
[For perennial crops (1, 11, 34, 292, 302, and 33]			2 GMO/GE Insect		3 Rolled		
crop code in all seasons when the crop is g	rowing.j	-	Resistant (Bt)		4 Grazed 5 Harvested for		
			3 Stacked (HT and Bt)		Forage		
			4 Not GMO/GE		6 Harvested for Grain		
		Crop		Yes = 1		Yes = 1	Yes = 1
Season And Year	Crop Name	Code		No = 3	Code	No =3	No = 3
A. Spring/Summer Of 2020?	Corn		xxxx			xxxx	xxxx
B. Fall Of 2019?		1343		1470	1471	2344	1345
C. Spring/Summer Of 2019?		1369		1472	1473	2370	1371
D. Fall Of 2018?		1372		1474	1475	2373	1374
E. Spring/Summer Of 2018?		1375		1476	1477	2376	1377
F. Fall Of 2017?		1378		1478	1479	2379	1380
G. Spring/Summer Of 2017?		1381		1480	1481	2382	1383
H. Fall Of 2016?		1366		1482	1483	2367	1368
I. Spring/Summer Of 2016?		1340		1484	1485	2341	1342

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

[If a cover crop was planted in Spring/Summer/Fall 2020, ask]

i. What was the seed cost per acre for the cover crop?....

k. What was the per-acre cost-share or financial assistance payments received for the cover crop? \dots

[Enter zero if no program payment was received]

CENTS PER ACRE

1468
----1495

DOLLARS &

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

	Couc
	1404
Yes = 1 No = 3	
Yes = 1	xxxx

\sim	7 Dayları bayla	~i++ ~ ~ ~ ~ .	nservation plan	that anaaifiaa	mraatiaaa ta	acostrol acil a	~ " ~ ~ ` ~ ~ ~ ~
< /	TIM WALL DAVE	a willian col	ngarvalion nian	mai charinac	machicae in	COMBON SON 6	71UCIUU /

No = 3

38. Does the selected field contain a wetl (WC) or "swampbuster" requirements refrain from draining wetlands to make	s. Producer	s who receive farr	n prog	ram payments must	Yes No	
39. What is the slope of the selected field?.	Even, mo	evel (0 - 2%) oderate grade (3 – 9%) moderate grade				Code 2400
•	Even, ste	ep grade (over 10%) steep grade				
40. What is the primary soil type of the selected field?	Loam Clay Sandy					Code 2401
l	Mixed					
41. Next we will ask about soil and water	concerns ti	nat you nave on tr		ou received technical ass	eistance f	from any of the following
				ces to evaluate this resources that you rece	irce conc	cern? (Report up to 2
In the selected field, are you concerned a of the following?	bout any	Code	1 2 3 4	USDA – NRCS Cooperative Extension Other USDA staff, incli Other (e.g. Soil and W agency)	n Service uding For	rest Service
		Yes = 1 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	2424		2434	
[Enumerator Note: Enter Yes = 1 for item h concerns (items a-g)].	ı, no signific	cant concerns, onl	y if the	e respondent replies	No = 3	to all other
46. Did the land use practices for the selected	d field inclu	de subsurface draina	age?		YES =	2402
[If YES, ask]	a freta fireta	ac subsurface arame	.gc.		110	Year
						2403
a. In what year was the subsurface drain	nage installe	d?				
						T 1
					[Inches 2604
b. What is the average depth of your dra	inage systen	n?				
c. What is the diameter of your tiles?						2605
						Hours
d. On average, how many hours does it the heavy storm?					ing a	2606
					ı	Code

		Does this system include a mechanism for controlled drainage (e.g. stop logs, risers, or float mechanisms)? $_{No = 3}$	
47.		enpected to receive) cost sharing payments, stemataship payments, or meentive payments	Unit Code 1 = Current 2 = Past 3 = Never
	a.	Environmental Quality Incentive Program (EQIP)	2611
	b.	Conservation Security or Conservation Stewardship Programs (CSP)	2612
	c.	Conservation Reserve Program (CRP)	2613
	d.	Other Federal, State, Local or non-government source	2614

- 48. 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-field Soil and Crop Manageme	nt	
No-Till/Strip-Till	Grass Waterway	☐ 30 Implement an integrated pest management plan - written plan
Conservation Tillage except no-till/strip-till	Implement a nutrient management plan (written plan)	Drift reducing spray nozzles
Cover crop - single species	Split nitrogen application with at least 50% applied after planting	Targeted sprayer - electrical control
Cover crop mix	Precision nutrient application	Adjacent to Field
Contour Farming	No fertilizer application more than 30 days before planting	33 Filter strip
Conservation crop rotation	Controlled release fertilizer	34 Field border
Terraces	Subsurface phosphorous application	Riparian Buffer - grass or forest

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

1	2	3		4	5
		Have you ever recei Technical or planning assistance?	ved at any time Financial assistance? 	Does this practice or activity help satisfy	Was this practice or plan used on this selected field in 2020?
Practice or Activity on the selected field	Practice Code (see item 48a)	 USDA NRCS field staff, cooperative extension, or technical service providers Other sources of assistance No Assistance Needed 	 Environmental Qualify Incentives Program (EQIP) Conservation Stewardship Program (CSP) Conservation Reserve Program (CRP) Other Federal, State, and Local Programs No Assistance Needed 	 A Federal regulatory requirement Highly erodible land conservation compliance Does not relate to any regulation or compliance requirement 	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

		1645	1646	1647		1648		1649
	2020, was the , wind, freeze		ne selected field cover	red by a single or nar	ned peril c	crop insurance (e.g ha	il,	CODE
	YES – [Enter	r code 1 a	nd continue]	NO – [Go to (multi pe	eril crop ins	surance]]	. 139	3
								CODE
a.			n the selected field co g. hail, replant, wind fr			or named peril crop	1	S = 1 = 3
						DOLLARS & CENTS PER ACRE	ı	
b.			ount of coverage per acr		olicy	1395	I	
								DOLLARS & CENTS PER ACRE
с.		_	cost per acre for the sing	gle peril policy coverin	gthe selecte	ed field in 2020? (Exclude	² any	
								PERCENT
d.			eductible for the single p	1 0	e selected f	ield? (Record no		
								CODE
e.	,		llect an indemnity paym		ld from the	single peril policy		YES = 1
50. In :	2020, was the	rice in the	e selected field covere	ed by a multi-peril cro	p insuran	ce policy?	_	CODE
	YES – [<i>E</i>	Enter code	1 and continue.]	NO – [Go to Se	ection C.]		13	885
a.	Which cover	age did yo	ı obtain?	1 Federal CAT (ba 2 Yield protection 3 Yield plus SCO (S	(individual) Supplemental	l Coverage Option)		CODE
	Willelf COVE		1 Obtuin:	4 Revenue protecti5 Revenue plus SC6 Other multi-peril	O (Suppleme	ental Coverage Option)	13	886
	[If item a =	2 or 3, asi	k]					PERCENT
	i. Wh	at percen	t of yield coverage dic	I you selectfor the se	lected field	d?	138	7
	ii. Wh	at percen	t of price coverage did	d you select for the s	elected fie	ld?	138	.8
	[If item a =	4 or 5, asi	k]					PERCENT

Enterprise = 3). b. In what year did you (<i>the operator listed on the label</i>) first purchase multi-peril crop insurance on the selected field? ?	WT PER ACRE OLLARS AND ENTS PER ACRE ODE C Office Use Edit Table
 b. In what year did you (the operator listed on the label) first purchase multi-peril crop insurance on the selected field? ? c. What is the 2020 Approved APH (actual production history) yield for the selected field? d. What was the premium paid for multi-peril crop insurance on the selected field in 2020? (Exclude any sign-up fee.). e. Did you (or will you) collect an indemnity payment for the selected field 	WT PER ACRE OLLARS AND ENTS PER ACRE ODE C Office Use Friit Table
c. What is the 2020 Approved APH (actual production history) yield for the selected field? d. What was the premium paid for multi-peril crop insurance on the selected field in 2020? (Exclude any sign-up fee.)	OLLARS AND ENTS PER ACRE ODE C Office Use Edit Table
d. What was the premium paid for multi-peril crop insurance on the selected field in 2020? (<i>Exclude</i> any sign-up fee.)	ODE Office Use Fdit Table
e. Did you (or will you) collect an indemnity payment for the selected field	ODE C Office Use
	C Office Use Edit Table
	Office Use Edit Table
	Office Use Edit Table
	Office Use Edit Table
C NUTRIENT or FERTILIZER APPLICATIONSSELECTED FIELD	Fdit Table
Code	
1. Were commercial nutrients or fertilizers applied to the selected field for the	200
2020 corn crop? INCLUDE those from operators, landlords, and Ves = 1 contractors.)	
[If item 1 = 1 continue, otherwise go to item 6.]	NUMBER
2. How many commercial nutrient or fertilizer applications were made to the selected field for the 2020 crop? INCLUDE applications made by airplanes and custom applicators	203
3. Now I need to record information for each application.	
CHECKLIST	
INCLUDE EXCLUDE	
Custom applied nutrients and	
fertilizers	
Nutrients or fertilizers applied in the fall of 2019 and those	
applied earlier if the selected field was fallow in 2019. Nutrients or fertilizers applied to previous crops in the selected field Nutrients or fertilizers applied to previous crops in the selected field	
Commercially prepared manure or compost Lime and Gypsum/landplaster Office Use Lines in Table O299 0299	
APPLICATION CODES for COLUMN 6	
1 Broadcast, ground without incorporation 5 In irrigation w	water
2 Broadcast, ground with incorporation 6 Chisel/Injecte 3 Broadcast, by aircraft 7 Banded in or	cted or knifed in or over row
4 In seed furrow 8 Foliar or direct	rected spray
. 3 4 5 6	7
MATERIALS USED What quantity [Enter When was How was	How many
Was applied material this applied? this per acre? Code.]	acres were treated
E pounds of plant nutrients applied per acre.] [Leave this 1 Pounds before seeding [Refer to 2 Pounds of plant nutrients applied per acre.]	in this application?
[Show Common Nutrients or Fertilizers in Respondent Booklet.] Column blank if actual pounds of nutrients 12 Gallons 2 In the spring before seeding 2 In the spring before seeding above.]	
were reported.] of actual nutrients and nutrients	
N P ₂ O ₅ K ₂ O S 4 After seeding Phosphate Potash Sulfur	

01 31

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

				_	Code	
4.	Were any nutrients or fertilizers applied by custom app	plicators?		Yes = 1 No = 3	0214	
	[If item 4 = 1 continue, otherwise go to item 5.]			L	Code	
	a. Are you able to report the cost of nutrient or fertiliz separately?	er materials and custom a		Yes = 1 No = 3	0216	
	coparatory.			L	OFFICE USE	
	[If item 4a = 1 continue, otherwise go to item 5.]				0215	
	b. Excluding the cost of the nutrient or fertilizer mater was spent for custom application of nutrients or fe		DOLLARS & CENT PER ACRE	s OR	TOTAL DOLLARS	
	field? INCLUDE operator, landlord, and contractor for sulfur and micronutrients. EXCLUDE custom a gypsum, purchased company and purchased company.	costs. INCLUDE costs application of lime,	0219	_	0220	
	[If material $% \left(1\right) =\left(1\right) \left(1\right) =\left(1\right) \left(1$	exclude them here and red	cord the total in it	tem 5.]		
5.	What was the total cost of all nutrient or fertilizer produselected field? INCLUDE operator, landlord, and contains		DOLLARS & CENT PER ACRE	S OR _	TOTAL DOLLARS	
	the costs for sulfur and micronutrients. INCLUDE may selected field if it was fallow in 2019. EXCLUDE lime, manure and purchased compost	terials applied to the	0221		0222	
	custom applied and the cost of material can be separate erwise, include both the material and application costs.		include the cost	of mater	ials ONLY;	
Otti	erwise, include both the material and application costs.	.]			Codo	
				Yes = 1	Code 0218	
6.	Was gypsum applied to the selected field for the 2020	corn crop?		No = 3		
7. Was a soil test for soil organic matter performed on this corn field at some point in the last 10 years?						
[if item 7 = 1, ask]						
a. What was the percentage of soil organic matter on the selected field for the most recent test?						
					Number	
	b. How many times have you tested the selected fiel	d for soil organic matter ir	the past 10 yea	rs?	3227	
[If i	tem 7b is more than 1, ask]				Code	
	d. Decedes these tests is your sail arganic matter.	Increasing?			3228	
	d. Based on these tests, is your soil organic matter content	Decreasina?				
		Staving roughly the same	?		Code	
8.	Was a soil or plant tissue test performed on the select crop?			Yes = 1 No = 3		
[If i	tem 8 = 1, continue, otherwise go to item 13.]				Code	
9.	Was a soil test for phosphorus performed on the select 2020 crop?			Yes = 1 No = 3		
ΓIf i	tem 9 = 1 ask 1		-		Pounds per Acre	
	a. How many pounds of phosphorus per acre wer	re recommended by the n	nosnhorus test?		0226	
	a. Trow many pounds of phosphorus per dote wer	c recommended by the pi	Toophorus test:		Code	
10.	Was a soil test for nitrogen performed on this corn fiel	d in 2019 or 2020 for the 2	2020 crop?	Yes = 1 No = 3	0227	
					Pounds per Acre	
					0228	
	a. How many pounds of nitrogen per acre were reco	mmended by the nitrogen	test?		Code	
11.	Was a plant tissue test or leaf analysis for nutrient def 2019 or 2020 for the 2020 crop?			Yes = 1 No = 3	0229	

			Dollars & Cents per Acre	OR	Total Dollars
12. Ho IN	w much was spent for these soil and pla CLUDE operator, landlord, and contracto	ant tissue tests on the selected field? or costs	0230		0231
[If tests	s were done at no cost, continue, otherw	ise go to item 12b.]			
		Soil/plant tissue test provided free of c crop consultant, or extension service	charge by dealer,		Code
a.	What is the reason why tests were done at no cost?	2 Soil/plant tissue test costs were includ fertilizer costs reported in item 5	led in the total	Yes = 1 No = 3	0232
		3 Some other reason			Code
b.	Did you receive a payment from the Co stalk or leaf tissue test for nitrogen app			Yes = 1 No = 3	3231
Enum 13. If n	erator Action: Refer to Fertilizer Table, c o nitrogen applied, go to item 14.]	olumn 2. If nitrogen (N) was applied, o	complete item		
13. Wa	as the amount of nitrogen you decided to	apply to the selected field based on			Code
i.	Results of a soil or plant tissue test?			Yes = 1 No = 3	0233
ii.	Crop consultant recommendation?			Yes = 1 No = 3	0234
iii.	Fertilizer dealer recommendation?			Yes = 1 No = 3	0235
iv.	Extension service recommendation?			Yes = 1 No = 3	0236
V.	Cost of nitrogen and/or expected comr	nodity price?		Yes = 1 No = 3	0237
vi.	Contractor recommendation?			Yes = 1 No = 3	0238
vii.	Routine practice – operator's own dete			Yes = 1 No = 3	0239
If nitro	gen inhibitors were used, continue, othe	erwise go to item 14.] None	Pounds Per Acre	OR	Gallons per Acre
viii.	How much nitrogen inhibitor did you m to the selected field?	ix with the nitrogen applied	2561		2562
					Code
14. Is	lime ever applied to the selected field?			Yes = 1 No = 3	0242
If item	14 = 1 continue, otherwise go to item 1	5.]			Years
a.	On average, how many years are there	e between applications of lime to the s	selected field?		0243
					Tons per Acre
b.	How many tons of lime were applied p	er acre the last time it was applied to t	the selected field	?	0244
					Code
C.	Was lime applied to the selected field i	n 2019 or 2020 for the 2020 crop?		Yes = 1 No = 3	0240

	oth			hbor's farm, etc., or r the 2020 corn crop? Yes = No =	Code - 1 0246
[IT I	Acres				
	a.	. 0247			
		b. What was the amomanure applied to selected field?	the 2 Gallons	Units Per Acre AND 0249	OR Total Units O250
	c.	Of the total manure or com percent of manure applied-	post applied to the selected field for the 20	020 crop, what was the	Percent
		(i) in the fall before planting	ng?	+	0254
		(ii) in the spring before pla	nting?	+	0255
		(iii) after planting?		+	0256
					100%
	d.	Was the manure or	1 Lagoon liquid?		Code
	۵.	compost	2 Slurry liquid? 3 Semi-dry or dry'		0257
			1 Broadcast or sprayed without incorporation?		Code
	e.	Was the manure or compost	2 Broadcast or sprayed <i>with</i> incorporation? 3 Injected/knifed in?		0258
		compost	4 Sprayed using irrigation systems?		
	f.	Was the major source of the manure or compost	1 Beef cattle? 2 Dairy cattle? 3 Hogs? 4 Sheep? 5 Poultry?		Code 0259
		from	6 Equine? 7 Biosolids (municipal sludge)? 8 Food waste? 9 Other? [Specify:]		
	g.	Was the manure or compost	 1 Produced on this operation? 5 Purchased? 6 Obtained at no cost off this operation? 7 Obtained with compensation? - operato received payment for accepting the manure. 	r	Code 0260
Γlf i	tem	15g = 2, continue, otherwise			
- (i)	Wh the	at was the total cost of the p	urchased manure or compost applied to perator, landlord, and contractor costs.	Dollars & Cents OR Per Acre	Total Dollars
					Code
(ii)	Did	you hire someone to custor	n apply the manure or compost?	Yes = 1 No = 3	I I
[If it	em	15gii = 1, ask]			
	to t		have manure or compost custom applied operator, landlord, and contractor	Dollars & Cents OR Per Acre	Total Dollars
[Do	not	report custom application co	ost if it was included with the purchased m	anure or compost cost.]	
					Miles

h.	What is the distance in miles between the manure or compost storage/production location and the selected field?	0291	
			Code
i.	Of the manure or compost applied to the selected field, was any tested for nutrient content prior to application?		
j.	Was the application rate of commercial nitrogen fertilizer on the selected field reduced due to manure or compost application? $No = 3$		
[If 15j =	= 1, ask]	F	Percent
(i)	By when percent did you reduce the commercial nitrogen fertilizer application rate on the selected field?	0263	
			Code
ix.	Did you adjust the corn harvest date for the selected field due to the application of manure or compost?	0280	
			Code
	ere the manure or compost application rates to the selected field influenced by Federal, $Yes = 1$ ate, or local restrictions?	0264	
[If iten	n 16 is YES, ask]		
a.	What basis was used to determine these manure application rate restrictions		Code
u.	Yes = 1	0265	
	(i) Nitrogen requirement of the crop?		
	(ii) Phosphorus requirement of the crop?	0266	
	ompared to the last time you planted corn, did you make any of the following changes to your cropping intent of reducing commercial fertilizer use?	g prac	tices with
			Code
a.	Change the type of commercial fertilizer products applied on the selected field, such as less anhydrous ammonia and more urea	1226	
b.	Manage fertilizer use more closely, with such practices as soil testing, split applications, $Yes = 1$ variable rate applications, or soil incorporation on the selected field?	1228	
C.	Change your crop rotation, such as plant corn on the selected field rather than usual crop rotation?	1227	
d.	Reduce the application of commercial nitrogen fertilizer? Yes = 1 No = 3	1224	
[If 17d	= 1, ask]	PE	ERCENT
-	(i) By what percent did you reduce the amount of commercial nitrogen fertilizer	1225	
	applied for 2020?		

NOTES

D

Now	I have	e some	question	s about	all the b	oiocontro	ls or	pesticides	used	on the	selected	field 1	or the	2020
corn	crop,	includir	ng both ci	ustom a	pplication	ons and a	applic	cations ma	de by	this of	peration.			

1.	Were any herbicides, insecticides, fungicides or other biocontrols		C
	or pesticides used on this corn field for the 2020 crop?	YES = 1	

	CODE	EDII TABLE
	0302	0300
YES = 1		

[Probe for applications in the fall of 2019 and those made earlier if the selected field was fallow.] If no biocontrols or pesticides applied, go to Section E. EXCLUDE adjuvants, nutrients or INCLUDE defoliants, fungicides, herbicides, fertilizers reported earlier and seed insecticides, and other pesticides. treatments. OFFICE USE TABLE 0399 INCLUDE biological and botanical pesticides. LINES IN TABLE 001 3 5 7 4 6 OR 8 If this was What products Was this When How much What was [Enter unit Code.] part of a 1 Pounds were applied product was this applied? was applied the total tank mix, to the selected bought in per acre amount 12 Gallons enter line 1 Before planting liquid or dry field? applied per 13 Quarts per number of ı 3 At planting application? 14 Pints form? first application Ν product in 4 After planting 15 Liquid Ounces [Show product in the selected Ε mix Codes from [Enter L or D] 28 Dry Ounces **CHEMICAL** field? 5 Defoliation Respondent 30 Grams **PRODUCT** prior to harvest Booklet.] NAME 73 63 64 65 74 61 01 61 63 64 65 73 74 02 74 63 64 65 73 61 03 63 64 73 74 61 65 04 61 63 64 65 73 74 05 63 64 73 74 65 61 06 63 64 73 61 65 07 63 64 65 73 74 61 80 63 64 73 61 65 74 09 63 64 73 74 61 65 10 63 64 65 73 74 61 11 74 61 63 64 65 73 12 63 74 61 64 65 73 13 63 65 73 74 14 For biocontrols or pesticides not listed in Respondent Booklet, specify---LINE Pesticide Type Where Purchased EPA No. or Trade name Form Purchased (Herbicide, Insecticide and Formulation (Liquid or Dry) (Ask ONLY if EPA No. Fungicide, etc.) cannot be reported.)

APPLICATIONS CODES for column 9 1 Broadcast, ground without incorporation 6 Chisel/injected or knifed in 2 Broadcast, ground with incorporation 7 Banded in or over row 3 Broadcast, by aircraft 8 Foliar or directed spray 4 In seed furrow 9 Spot treatments 5 In irrigation water

	9	10	11	12	13				
					What was the co	ost per unit of the product?			
L N E	How was this product applied? [Enter Code from above.]	How many acres in the selected field were treated with this product?	How many times was it applied?	Were these applications made by 1 Operator, partner or family member? 2 Custom applicator? 3 Employee/Other?	DOLLARS & CENTS PER UNIT	UNIT CODE 1 Pounds 15 Liquid Ounces 12 Gallons 28 Dry Ounces 13 Quarts 30 Grams 14 Pints			
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 . <u> </u>	82			
12	76	77	79	80	81 . <u> </u>	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 $N_0 = 3$								
[lf i	fitem 3 =1 ask, otherwise go to item 4.]								
	a. Are you able to report the cost of chemical, biocontrol, and pesticide products and custom application separately?								
[If i	tem	3a = 1, ask]							
	b.	Excluding the cost of the chemical, biocontrol, and pesticide products,	Dollars & Cents Per Acre	or	Total Dollars				
		how much was spent for custom application of such materials on the selected field? INCLUDE operator, landlord, and contractor costs	0331		0332				
4.		nat was the TOTAL COST of all chemical, biocontrol, or pesticide oducts applied to the selected field? INCLUDE operator, landlord, and	Dollars & Cents Per Acre	or	Total Dollars				
	cor we	ntractor costs, defoliants, herbicides, insecticides, fungicides, surfactants, tting agents, growth regulators, and materials applied before planting and ring 2019 fallow period. EXCLUDE seed treatments	0334		0335				
			Dollars & Cents Per Acre	Or	Total Dollars				
	a.	How much was spent for herbicide products applied to the selected field? INCLUDE operator, landlord, and contractor costs	3034	_	3035				
			Dollars & Cents Per Acre	Or	Total Dollars				
	b.	How much was spent for insecticide products applied to the selected field? INCLUDE operator, landlord, and contractor costs	3036		3037				

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.

us	ed o	on the selected field for the 2020 corn crop. ses.	•	•			
[E	num	nerator Action: Were pesticide applications r	eported in Se	ection D?]			
		YES – [Continue]	□ NO – [Go	o to item 6]			Code
1.		ere weather data used to assist in determining oplications?	-	· · · · · · · · · · · · · · · · · · ·	Yes = 1 No = 3	0800	
2.	ne	ere any biological pesticides such as Bt (<i>Bac</i> em or other natural/biological based products lected field?	s sprayed or a	applied to manage pests in the	Yes = 1 No = 3	0801	
3.		ere pesticides with different mechanisms of a rpose of keeping pests from becoming resist			Yes = 1 No = 3	0802	
[E	num	nerator Action: Were herbicide (pesticide pro applications repor		40000-49999) n D, item 1, column 2?]			
		YES – [Continue]	☐ NO - [Go	o to item 6]			
							Code
4.	W	ere herbicides applied to this corn field befor	e weeds eme	erged?	Yes = 1 No = 3	0803	
5.		ere herbicides applied to this corn field after	7	-	Yes = 1 No = 3	3	
6.		ere records kept for the selected field to trac seases?			Yes = 1 No = 3		
7.		id you use published information on infestation easures to manage pests in the selected field			Yes = 1 No = 3		
8.	In 2	2020, how was the selected field		ely going to the field specifically for scouting [Enter Code 1 and go to item 9.]			Code
	we	imarily scouted for insects, eeds, diseases, and/or beneficial	routine tas	g general observations while performing ks [Enter Code 2 and go to item 10.]		8080	
	or	ganisms?		field was not scouted. de 3 and go to item 14.]] '		Code
		s an established scouting process such as sed or were insect traps used in the selected fi			Yes = 1 No = 3	0809	
10.	Wa	s scouting for pests done in the selected field	d due to				Code
	a.	a pest advisory warning?			Yes = 1 No = 3	0810	
	b.	a pest development model?			Yes = 1 No = 3	0811	
						1923	C.nde
11.	Do	you believe that rootworms damaged corn g	rown on the s	selected field?	Yes = 1 No = 3	1923	
[If It	em	11 =1, Continue. Else go to Item 12.]					Count
	a.	If you believe that rootworm damage lead to lodged?	lodging, app	proximately how many stalks were		1924	
	b.	If you believe that rootworm damage stunte growth, approximately how many stalks wer		1 One node eaten back to 1.5 inches of the stalk 2 Two complete nodes eaten 3 Three or more nodes eaten		1925	Code

1		2	3
		[If Yes, ask] What was the infestation level for [column 1]?—	[If column 1 = Yes, ask] Who did the majority of the scouting for [column 1]?
12. Was this corn field scouted for	Yes = 1 No = 3	1 Higher than normal 2 Normal 3 Lower than normal CODE	1 Operator, partner or family member 2 An employee 3 Farm supply or chemical dealer 4 Independent crop consultant or commercial scout
TEL VIGO UNO COM MOIO COCALCA IOI			
a. Weeds?	0812	0813	0814
b. Insects or mites?	0815	0816	0817
(i) Corre house	1731	1732	1733
(i) Corn borer			
(ii) Corn rootworm	1734	1735	1736
	1708	1738	1712
c. Other insects			
	0818	0819	0820
d. Diseases?			

13. How much was charged for the scouting services for the selected field? INCLUDE operator, landlord and contractor cost	scouted by crop consultant or commercial scout, ask item 13; else go to item 14.]						
a. [If scouting performed at no cost, explain:]							
14. Did you use field mapping of previous weed problems to assist you in making weed management decisions?							
[Enter Code "1" for all that apply.]							
a. Use the services of a diagnostic laboratory for pest identification or soil plant tissue pest analysis for the selected field?							
b. Plow down crop residue (using conventional tillage)?							
c. Remove/burn down crop residue? $ Yes = 1 No = 3 $ 0843							

	d.	Rotate crops in the selected field during the past three 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 pest?		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, roadways, or fence lim	ies?	Yes = 1 No = 3	0850
	k.	Clean equipment and field implements after completing field work to reduce		Yes = 1	0851
		the spread of pests?	•••	No = 3 Yes = 1	0852
	l.	Adjust row spacing, plant density or row directions?		$N_0 = 3$	
	m.	Have the seed treated for insect or disease control after you purchased the seed for field?	the selected	Yes = 1 No = 3	0854
		neid:		110 5	
	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 corn from non-organic crops or lan or did you take a buffer harvest?	d,	Yes = 1 No = 3	0856
	q.	Plant earlier or later to avoid weeds?		Yes = 1 No = 3	0865
	•				Code
16.	Wei	re any beneficial organisms, such as insects, nematodes, fungi applied		Yes = 1	0853
		eleased in the selected field to manage pests?		No = 3	
17.		re floral lures, attractants, repellants, pheromone traps or other biological pest contracted field?	ols used on the	Yes = 1 No = 3	0858
[If it	tem	16 or item 17 is YES, ask]			
		What were the total materials and application costs for all biological pest controls for the selected field? INCLUDE operator, landlord, and	Dollars & Cents Per Acre	Or	Total Dollars
		contractor costs. INCLUDE cost for beneficial organisms (insects,	0859		0860
		nematodes, and fungi). EXCLUDE biological pesticides previously reported	· <u> </u>		
					Code
18.	Wa	s a trap crop (excluding fallow) grown to help manage insects in the selecte	d field?	Yes = 1 No = 3	0863
					Code
19.	Wa	s the selected field left in fallow in 2015 to help manage insects on the selec	cted field?	Yes = 1 No = 3	0864
		, , , ,		!	Code
20.		re water management practices such as irrigation scheduling, controlled drainage, o ntion water used on the selected field to manage pests or toxin-producing fungi and		Yes = 1	0861
				$N_0 = 3$	0001
					Code
21.		s protection of beneficial organisms a factor in your pest control decisions the selected field?		Yes = 1 No = 3	1765
		tem 21 is YES, continue. Else go to Item 22.]		-	Code
				Voc = 1	1766
	a.	Did you change timing of, reduce application rate of, or eliminate a pesticide application?		Yes = 1 $No = 3$	
				Yes = 1	1767
	b.	Did you change to an alternative pesticide, biocontrol, or non-pesticide practice?		No = 3	

22.	Die	d you cultivate the selected field for weed control?	Yes = 1 No = 3	2453	
		VES ask1			Number
	2	How many times?		2454	
	a.	110w many times:			
					Code
24	Dic	l you use a soil-insecticide or insecticidal seed treatment in the refuge in 2020?	Yes = 1 No = 3	1812	
4.	וטונ	r you use a son-insecticide of insecticidal seed treatment in the refuge in 2020:	110 – 3		
				Ţ	Jnit Codes
				1 2	Pounds Cwt
			Units Per Acre	3 4	Tons Bushels
25.	If	untreated (either with insecticide or Bt seed), how much yield loss (e.g. bushels per acre)	2670	2671	RICIBIC
	do	you think corn borers would most likely cause on the selected field?	•		
26.		untreated (either with insecticides or Bt seed), how much yield loss (e.g. bushels per re) do you think corn rootworms would most likely cause on the selected field?	2672	2673	
		do you tillik com rootworms would most likely cause on the selected field:		_	
27.	If	untreated (either with herbicides, tillage, or cultivation), how much yield loss (e.g.	xxxx	xxxxx	
	bu	shels per acre) do you think weeds would most likely cause on the selected field?			
	• •		· <u> </u>		
					Code
		pests (weeds, insects, pathogens, animals) cause any yield loss on the selected fi te of your pest control efforts?		0827	
[If Y	ES,	ask]			
á			Inits Per		
		think was caused by all pests on the selected field in spite of BUSHELS Code 828 AND 829	Acre	830	tal Units
		the management practices TONS AND AND OZZ AND	ФR	030	
		you used to reduce those losses?			
00		• •	0000 :		
29.	-	ou used genetically engineered, glyphosate resistant seeds on the selected field in number of consecutive years you have planted genetically engineered, glyphosate		Numh	er Of Years
	see	eds. [Note: A producer who used HT corn in 2020 and 2019, but conventional corn		1970	oci Oi Teais
	use	ed genetically engineered, glyphosate resistant seeds for "2" consecutive years.]			
			١		YEAR
	a.	What year did you first plant any glyphosate resistant seeds on the selected field?	,	1971	
	٠.,	The second secon			
			-	(CODE
		ve you noticed a decline in the effectiveness of glyphosate (e.g. Roundup) in contro	,,,,,,	0834	
,	wee	eds in the selected field?	YES = 1		
If ite	em .	27= YES, continue. If item 27 = NO, go to item 30.]	_	`	/EAR
	a.	What was the first year you noticed a decline in effectiveness of glyphosate in controlling weeds on the selected field?		0835 	
		er noticing the decline in the effectiveness of glyphosate in controlling weeds on			
	ine	selected field, did you	Γ.		CODE
	a.	stop planting glyphosate resistant crops?	YES = 1	0837	
	b.	change tillage practices?	YES = 1	0839	

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

1 Active Ingredients	1 2020 Yes = 1 No = 3	3 2019 Yes = 1 No = 3	4 2018 Yes = 1 No = 3	5 2017 Yes = 1 No = 3	6 2016 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. 2, 4-D (e.g. Enlist®)	xxxx	xxxx	xxxx	xxxx	xxxx

	CODE
28. Have herbicide-tolerant seeds been planted on the selected field any time since 2016? YES = 1	2021
[If item 28 is YES, continue, else skip.]	

			If column 2 = 1, ask questions in columns 3 - 6			
	1 For herbicide tolerant seeds that are	2 Have you noticed a decline in the	3 What was the first year you noticed a decline in		decline in the effectiveness of ontrolling weeds on the you	
'	tolerant of	effectiveness of herbicides in	the effectiveness of herbicides in controlling	4	5	6
		controlling weeds in the selected field?	weeds in the selected field?	Stop planting herbicide resistant crops with this trait?	Change tillage practices?	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	2034	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
₽f.	2, 4-D (e.g. Enlist®)	xxxx	xxxx	xxxx	xxxx	xxxx

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
RESISTANCE	- MANAGEMENT PRACTICE	_	How often did you use this practice on the selected field?	Did the cost of managing weeds on the selected field increase as a result of your use of the practice?
			1 Every Year2 Every Other Year3 Multiple Years4 One Year	1 Yes 3 No 4 Don't Know
		Yes = 1 No =3	CODE	CODE
a. Control w	veeds early	0886	2871	0878
b. Control w	veed escapes	0887	2872	0879
	uipment between moving from to the next	0888	2873	0880
d. Use herb	icides other than glyphosate	0889	2874	0881
e. Use tillag	e	0890	2875	0882
f. Use the happlication	nerbicide label recommended on rate	0891	2876	0883
g. Rotate cr	ops	0892	2877	0884

[If item 34 column 2 contains at least one "1", ask: otherwise go to item 32.]

35.	Considering the above practices (i.e. a-g) do you believe resistance management practices are or would be more effective in reducing the rate that herbicide resistance develops in weeds on the selected field if operators of
	nearby farms also use them?

1 - Yes
2 - No
3 - Don't Know
4 - The nearest farm is too far away to affect the selected field

	CODE	
0088		

Code

Yes = 1 36. Did you plant genetically-engineered rootworm-resistant seed on the selected field in 2020? No = 3

a. How many consecutive years have you used rootworm resistant seeds on the selected field?....

	Years	
2927		

Year

[If Item 32a is greater than 1, continue. Otherwise go to Section F.]

b. Have you ever switched from a rootworm resistant seed with one mode of action (MOA) to a pyramided rootworm resistant seed? *Note: Pyramided seeds have multiple MOAs*.



2929

2926

[If Item 32b is YES, ask--]

c. What year did you switch from a rootworm resistant seed with one MOA to a pyramided rootworm resistant seed?....

Completion (Pest Manager	
1 Incomplete/Refusal	0500

FIELD OPERATIONS--SELECTED FIELD

F

1.	Including custom operations, I need to list field by machines on the selected field for the 2020	work performed	CHECK LIST
	begin with the first field operation after harvest including operations for a cover crop established harvested [if fallow during 2019, list operations with fall 2018];	Include all field work using machines for Land Forming/Levee Building Tillage	
	► list the operations in order through harvest and to storage or first point of sale; and	hauling of this crop	Preparing for Irrigation Planting Fertilizer & Pesticide applications
	 ▶ maintain the order of tandem hook-ups. CODES FOR COLUMN 5 1 You (the Operator) 2 Partner 3 Unpaid Worker 4 Paid Part-time or Seasonal Worker 5 Paid Full-time Worker 6 Custom Applicator 	ker OFFICE USE LINES IN TABLE 0499	Harvesting & Hauling to storage or first point of sale Exclude Lime & Gypsum/landplaster applications Compost & Non-Commercial Manure applications

		<u> </u>					I			
						[IF CUSTO	M (column 5 = C	ode 6), skip co		
	2	3	4	5	6	7		DR 9	10	11
L I N E	SEQUEZCE	What operation or equipment was used?	[Record machine Code from Respondent Booklet.]	Who was the machine operator- [Enter Code from above.]	What was the size or swath of the [machine] used?	[Record size unit Code.] 1 Feet 2 Row 3 Moldboard (bottoms) Hauling 4 Pounds 5 Bushels 6 Tons	How many acres were covered? [Exclude land forming and hauling operations]	How many TOTAL HOURS were spent on land forming, or hauling? [Example: backhoes, disk border maker, ditcher, rear mounted blade, trucks, wagons, forklifts, etc.]	Which Power Source was used? ^{1/} Tractors: 1= (<40 HP) 2= (40-99 HP) 3= (100-149 HP) 4= (150-199 HP) 5= (>=200 HP) Other: 6=Animal Drawn 77=Pick-up 99=Self Propelled 1/	What was the fuel type of the tractor? [Record fuel type only if Power Code equals 1-5] 1=diesel 2=gasoline 3=LP gas 4=other
No.	No.		CODE	CODE		CODE	ACRES	HOURS	CODE	CODE
01	87		88	89	90	91	92	93	94	95
02	87		88	89	90	91	92	93	94	95
03	87		88	89	90	91	92	93	94	95
04	87		88	89	90	91	92	93	94	95
05	87		88	89	90	91	92	93	94	95
06	87		88	89	90	91	92	93	94	95
07	87		88	89	90	91	92	93	94	95
80	87		88	89	90	91	92	93	94	95
09	87		88	89	90	91	92	93	94	95
10	87		88	89	90	91	92	93	94	95
11	87		88	89	90	91	92	93	94	95
12	87		88	89	90	91	92	93	94	95
13	87		88	89	90	91	92	93	94	95
14	87		88	89	90	91	92	93	94	95
15	87		88	89	90	91	92	93	94	95
16	87		88	89	90	91	92	93	94	95
17	87		88	89	90	91	92	93	94	95
18	87		88	89	90	91	92	93	94	95

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

OFFICE USF

0400

How many hours did (type of worker) spend on the selected field---

1120

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 2020 corn crop. (Exclude labor that was reported for field work performed by machines.)

		110W IIIaii	y nours are	ijpc	OI VVOI	rker) spend of	1 1110 30	cicolou iiciu
		1				2		3
		scouting weeds, ins and disea:	sects	irrigating?			performing other work by hand?	
	TYPE OF WORKERS	HOURS	3		НО	URS		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	
3.	What was the average hourly wage rate paid to seasonal hired workers on the selected field? Paworkers are defined as those who worked for ag for less than 30 hours a week on average. EXCL and contract workers, payroll taxes and benefits	art-time es or salaries LUDE custom	Dollars & 0 Per Ho 1119		4	Total Dollars pe Week 2119		Number of Hours Worked Each Week 3119
3.	What was the average hourly wage rate paid to workers on the selected field? EXCLUDE custor workers, payroll taxes and benefits	n and contract	Dollars & 0 Per Ho 1119		г	Total Dollars pe Week 2119	AND	Number of Hours Worked Each Week 3119
							г	Code
5.	Was any contract labor used on the selected fiel	d?				Ye		1116
[If \	YES, ask						_	Dollars & Cents Per Acre
_	a. What was the average cost per acre for this (Include operator, landlord, and contractor co						[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? (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.)

7. Now I need some information on how much was spent (or will be spent) for custom services used on this field for the 2020 corn crop.

		1			2
		CUSTOM SERVICE	Including operator, landlord, and contractor costs, how much was spent		
		Which of the following services were performed for the 2020 corn crop on the selected field?		the se	[column 1] on lected field for the 2020 corn crop?
✓	·	- [Check box for each service performed; refer to item 1 if necessary.]		D	oollars & Cents Per Acre
	a.	Custom land preparation, shaping and/or leveling?		1121	
	b.	Custom cultivating?		1122	· <u> </u>
	C.	Custom planting and/or reseeding?		1123	<u> </u>
	d.	Custom harvesting?		1124	
	e.	Custom hauling from field to storage or point of first sale?		1126	
		(Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & ce	· nts per acre) .		·
	[If c	custom harvesting, module building, and hauling from field to storage or point of	sale cannot be	e separ	ated, ask
	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 & ce	· nts per acre) .		·
				_	Code
		s the corn harvested and hauled from the selected field dried (or will be dried) be I or stored?	efore it was	'es = 1 lo = 3	xxx
		you hire any technical or consultant services to make recommendations such as ient, pest control, irrigation, or precision farming for the selected field?		'es = 1 lo = 3	1196
[If i	tem	9 = 1 continue, otherwise go to item 12]		_	
10		hich of the following technical or consultant services did you obtain to make commendations for the selected field?			Code
	a.	Nutrient recommendations/management service?		es = 1	1129
	b.	Soil or tissue sample collection?		es = 1 o = 3	1130
	c.	Pest control recommendations/management service?	Υ	es = 1 o = 3	1131
	d.	Pest scouting?		es = 1 o = 3	1132
	e.	Irrigation management service (i.e. irrigation scheduling)?		es = 1 o = 3	1133
	f.	Yield map or remote sensing map development/interpretation?		es = 1 o = 3	1134
	g.	Other custom or technical service? [Specify:]	Y	es = 1 o = 3	1135
11.	ser soil the	/tissue tests or scouting cost reported earlier. Do not report costs for any of	Dollars & Cents Per Acre 86	Or	Total Dollars

12.	Please report how any data from the selected field in 2020 will be stored a	and accessed.
	[Enter code "1" for all that apply.]	

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 technology provider website?	YES = 1	2488
[If item 12b = 1, 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?	YES = 1	2489
d. Did you share any of the data collected from the selected field with a third party through an agricultural technology provider website?	YES = 1	2490
		Code
13. Were there (<i>or will there be</i>) any data collection tools (yield monitors, GPS mapping, etc.) used during field operations on this corn field?	Yes = 1 No = 3	2460
[If YES, continue; else go to Item 14]		

Please report the data collection technologies you used on the selected field to produce this crop. Also indicate if the data is collected with Global Positioning System (GPS) coordinates and if the data will be used to create a map. (In the fifth column, report how much it would cost you to replace the data collection tool. In the sixth column, report the annual costs of using the data collection tool. Include custom service fees, data subscriptions, and online tool subscriptions. If the replacement cost or annual fee does not apply to a particular data collection tool, leave that row blank.)

	Tee does not apply to a particular data conceitor to					
	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
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. Did you	4. Did you use the yield monitor information to				
a.	add/improve tile drainage?	Yes = 1 No = 3	1141		
b.	negotiate new crop leases?	Yes = 1 No = 3	1144		
C.	Help determine input use for management zones?	Yes = 1 No = 3	xxxx		

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

	sing data collected from the previous tools table in item 13, did you obtain crocommendations, such as data interpretation, in 2020 for the selected field fro		owing	Code
a.	Input dealers without other fee-for-services?		Yes = 1 No = 3	2491
b.	Input dealers with other fee-for-services?		Yes = 1 No = 3	2492
C.	Custom service providers?		Yes = 1 No = 3	2493
d.	USDA/University extension services?		Yes = 1 No = 3	
		Dollars & Cents Per		
	p management recommendations were obtained, ask]	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	· <u> </u>	3	151
				Code
	d you use an unmanned aerial vehicle (UAV, known as a drone) to produce elected field in 2020?		Yes = 1 No = 3	XXXX
	n 16 = Yes, then ask] For which of the following purposes did you use the UAV on the selected if all that apply			Code
	i. Weed analysis?		Yes = 1 No = 3	xxxx
	i. Spraying herbicide or fungicide?		Yes = 1 No = 3	XXXX
	ii. Insect analysis?		Yes = 1 No = 3	XXXX
	iii. Insect control?		Yes = 1 No = 3	XXXX
	iv. Yield analysis?		Yes = 1 No = 3	XXXX
	v. Moisture analysis?		Yes = 1 No = 3	xxxx
	vi.Equipment check?		Yes = 1 No = 3	xxxx
			ſ	Code
b.	Did you purchase the UAV?		Yes = 1 No = 3	XXXX
If 16b	= Yes, then ask –		,	Total Dollars
	i. What is the replacement cost of the UAV?			
			·	Code
	Do you now an annual fee fee you of LIAN/A		Yes = 1	xxxx
C.	.,,		No = 3	
If 16c	= Yes, then ask		1	Total Dollars
i.	What is the annual fee for use of the UAV?			XXXX
	as any of the following GPS-enabled (Global Positioning System) equipmeduce crops on the selected field? [Enter code "1" for all that apply.]	nent used to		CODE
a.	Mounted in-cab heads-up displays?		YES =	2149

YES = 1

No = 3

c. Automatic section control, such as auto sprayer boom controls or automatic s	section shut offs?		
18. If any GPS-enabled equipment was used, what was the cost to purchase and install all GPS-enabled equipment, not including guidance auto steering equipment? INCLUDE cost for GPS receiver and annual GPS subscription fee,	Dollars & Cents Per Acre	OR	Total Dollars
and operator, landlord, and contractor costs. Do not report costs for any of this equipment if they were previously reported as part of the costs of materials and/or application.)	·		
			Code
19. Was guidance auto-steering (excluding Light Bar) used on the selected field?		Yes = 1 No = 3	xxxx
[If 18=1, ask]			Code
a Was the guidance auto-steering equipment:			xxxx
			Year
b. What year was guidance auto-steering first purchased?			
c. What is the replacement cost for guidance auto-steering equipment?	Dollars & Cents Per Acre 2160	Or	Total Dollars
	Dollars & Cen Per Acre	ts Or	Total Dollars
d. What is the annual fee for guidance auto-steering?			
			Code
		Yes = 1	2164

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

b. Smartphones or computer tablets?.....

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

1	2	3	4	5	6
Was a variable rate applicator used on the selected field for	Tool Used	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
	Yes = 1 No = 3	Code	Code	Year	Total Dollars
a. Seeding	1158	2170	2171	2172	2173
b. Fertilizer/lime applications	1152	2174	2175	2176	2177
c. Pesticide applications	1159	2178	2179	2180	2181
d. Irrigation Applications	xxxx	xxxx	xxxx	xxxx	xxxx

IDDICATION

ave some questions about irrigation system 020 corn crop. at type(s) of irrigation system (s) was (or welested field? [Show System Type Codes or System Type Code for system covering to the total quantity of water applied to entire growing season? (Include ALL water is sources.).	re) used to irrigate in the Respondent Booklet. the most field acres.]	Unit System Type Code Inches Per Acre	ACRES 1160 System 1 1161
go to Conclusion]	re) used to irrigate in the Respondent Booklet. the most field acres.]	Unit System Type Code Inches Per Acre	System 1
ave some questions about irrigation system 020 corn crop. at type(s) of irrigation system(s) was (or well selected field? [Show System Type Codes for System Type Code for system covering to the twas the total quantity of water applied to the entire growing season? (Include ALL water in sources.)	re) used to irrigate in the Respondent Booklet. the most field acres.]	Unit System Type Code Inches Per Acre	
at type(s) of irrigation system(s) was (or well selected field? [Show System Type Codes for System Type Code for system covering to the tweether system total quantity of water applied to the entire growing season? (Include ALL water in sources.)	re) used to irrigate in the Respondent Booklet. he most field acres.]	Unit System Type Code Inches Per Acre	
selected field? [Show System Type Codes er System Type Code for system covering to at was the total quantity of water applied to entire growing season? (Include ALL water a sources.)	in the Respondent Booklet. he most field acres.] the selected field during	System Type Code Inches Per Acre	
selected field? [Show System Type Codes er System Type Code for system covering to at was the total quantity of water applied to entire growing season? (Include ALL water a sources.)	in the Respondent Booklet. he most field acres.] the selected field during	Type Code Inches Per Acre	1161
entire growing season? (<i>Include ALL water</i> n sources.)	the selected field during	Per Acre	
entire growing season? (<i>Include ALL water</i> n sources.)	the selected field during		1162
		Or Total Acre-Feet	1163
perator cannot provide item 2b. ask (i) & (ii)). else ao to 2c1		
What is the total number of hours this syste apply water to the selected field during the		Total Hours	1164
How many gallons per minute were applied	l?	Gallons Per Minute	1165
c. What percent of the water used to irrigate the selected field through this			1166
d. What was the number of times the selected field was irrigated during the corn growing season using this system? (Include any pre-plant irrigation.)		Number Of Irrigations	1167
s the pump type nore than one pump in the system, enter pump closest to water source.]	1 TURBINE? 2 SUBMERSIBLE? 3 CENTRIFUGAL? 4 BOOSTER? 5 SIPHON? 99 NO PUMP? [If Code 99, go to item j.]	Code	1168
at 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
at was the primary motor type d to pump the water?	1 DIESEL 2 GASOLINE 3 LP GAS 4 NATURAL GAS 5 ELECTRICITY 6 SOLAR POWER	Code	1171
at was the average motor size?		Horsepower	1172
 i. What was the average motor size?		Gallons Per Minute	1173
		Acres	1174
	t was the primary motor type to pump the water? t was the average motor size? t was the primary motor type to pump the water? t was the average motor size? t was the average motor size? t was the average flow rate? many other acres on this operation were i	the pump type pore than one pump in the system, enter pump closest to water source.] It was the average pumping rate?	the pump type ore than one pump in the system, enter oump closest to water source.] It was the average pumping rate?

3.	What was the cost of the fuel or electricity used to irrigate the selected field?
	(Include operator, landlord, and contractor costs.)

OLLARS & CENTS		
PER ACRE	OR	TOTAL DOLL

1189		
l	_	l

•	TOTTLE BOLLTING
	1190

4.		CODE			
	from all sources.)				
		YES – [Enter Code 1 and continue.] NO – [Go to item 5.]			
		a. What was the total cost for the water purchased for the selected field during the 2020 growing season? (Include operator, landlord, and contractor costs and ditch maintenance costs for the selected field.)	OR	TOTAL DOLLARS	
Γ <i>IF</i>		ON TUBES were used (item 2a = 10 or 11), ask]	TO:		
[11 、	ירו	ON TOBES were used (item 2a - 10 or 11), askj		TAL DOLLARS	
5.	Wh	at would be the total cost to replace all the siphon tubes used on the selected field?	120:	L	
[If I	POLY	Y PIPE system was used (item 2a = 14) ask]		TAL DOLLARS	
6.		at was the total amount spent for poly pipe used on the selected field during the 20 growing season? (<i>Include operator, landlord, and contractor costs.</i>)	1202	2	
[If (GATE	ED PIPE system was used (item 2a = 15 or 16), ask]		INCHES	
7.	Wh	at was the average diameter of gated pipe used to irrigate the selected field?	1203	3	
	-			FEET	
	a.	What was the total length of gated pipe used?	1204	4	
0				CODE	
8.		re wells used to supply irrigation water for the selected field? YES – [Enter Code 1 and continue]	120	5	
				NUMBER	
		How many wells were used to irrigate the selected field?	1200	6	
				INCHES	
			120	7	
		What was the average diameter of the outer well casing?			
		What was the average pumping depth of these wells during the irrigation season? [Pumping depth is the depth to water at the start of the irrigation season, plus an average decline		FEET 8	
		in the water level caused by pumping during the irrigation season.]			
	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 using the same wells during the 2020 growing season?		1211	
9.	 9. Was any additional mainline or lateral pipe used to carry water from the source to the system in the selected field? (<i>Include underground pipe. Exclude any system pipe within the selected</i>			<i>l</i> .)	
		What was the average diameter (<i>in inches</i>) of the most common type of this additional pipe used?	1212	2	
				FEET	
	h	How many feet of this additional nine were used to bring water to the selected field?	1213	3	

CONCLUSION

LO	CATION OF SELECTED FIELD			
1.	I need to locate the selected field of corn on this map.	COUNTY N	NAME	OFFICE USE COUNTY FIPS CODE
			t	0010
2.	What county is the selected corn field in?			
	Field description			
FO	R STATES WITH GPS UNITS ONLY	LATITUDE	LON	GITUDE
	Field location. N 0054	,	_ W 0055	<u> </u>
3.	[ENUMERATOR ACTION: Mark map to indicate where a Be sure the "X" marked on m	d d m m s s the selected corn field is nap is in the county iden	d d d is located. ntified above.]	mm ss
	We will need additional information to complete this study or March 2017 to collect it. I'll call you then to set up a tin	me that is good for you.	ı February	
5.	To receive the complete results of this survey on the release			9990
	www.nass.usda.gov/results/. Would you rather have a br mailed to you at a later date?		YES = 1	
_				нн мм
6.	ENDING TIME [MILITARY]			0005
	<u> </u>			
RE 7.	CORDS USE [Did respondent use farm/ranch records to report]			CODE
١.				0011
	a. [fertilizer data?]		YES = 1	
	b. [pesticide data?]		YES = 1	
	c. [majority of this expense data?]		YES = 1	0013
				NUMBER
SU	PPLEMENTS USED		FERTILIZER APPLICATIONS	
8.	[Record the total number of each type of supplement used to complete this interview.]		PESTICIDE APPLICATIONS	0042
			FIELD OPERATIONS	0043
		9910	9911	
Rep	ported by:	16	Telephone: ()	
	OFFIC	CE USE		
F	R. Unit Ptr 1 Str Ptr 2 Str Ptr 3 Str Ptr 4 St	Str OPS SSO	SO 1 ADJ	Optional Use
9921	9922 9923 9927 9928	923 9907	922 990	9916
		Mode Enu		POID
1-Cor 2-R 3-Ina	2-Sp 3-Face-to-Fac	9903 9998 ace	9989	
4-Off	fice Hold 4-Partner 9-Other			
			9900	9985