AGRICULTURAL RESOURCE MANAGEMENT SURVEY

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

PHONE NUMBER

STATE ZIP

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

RICE PRODUCTION PRACTICES AND COSTS REPORT FOR 2020

	INICLIIN	ODOCTIO	ONFINACTICES	ANDCC	JOIO INEL I		\ 20	20	•
VERSION	STATE		ID		TRACT	SUBTRA	CT	C-TYPE	
8					01			105	
			CONTACT	RECORD					
DATE	TIME		001117101	RECORD	NOTES				
27112					110120				
INTRODUCTION: [Introduce yourself, and ask for the operator. Rephrase in your own words.] We are collecting information on practices and costs used to produce rice and need your help to make the information as accurate as possible. The information you provide will be used for statistical purposes only. In accordance with the Confidential Information Protection provisions of Title V, Subtitle A, Public Law 107-347 and other applicable Federal laws, your responses will be kept confidential and will not be disclosed in identifiable form to anyone other than employees or agents. By law, every employee and agent has taken an oath and is subject to a jail term, a fine, or both if he or she willfully discloses ANY identifiable information about you or your operation. Response is voluntary. According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0535-0218. The time required to complete this information collection is estimated to average 75 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. We encourage you to refer to your farm records during the interview.									
BEGINNING T		M M					000	SCREENING BO	X
[Name, add	dress and partne	ers verified	and updated if nece	essarv1					
POID	·		·	POID					
PARTNER NAME				PARTNER I			· 		
ADDRESS				ADDRESS					
CITY	STATE	ZIP	PHONE NUMBER	CITY	:	STATE ZII)	PHONE N	
DOID				DOID					
POID				POID _					
PARTNER NAME				PARTNER N	NAME				
ADDRESS				ADDRESS					

CITY

PHONE NUMBER

CITY

STATE

ZIP

TOTAL	PL	ANTED
AC	CRI	ES

	How many acres of rice did this operation plant for blanted, review Screening Survey Information Form, mapage]	ake notes, then go to item 4 on back	0050
a	Of the total (item 1) acres, how many were planted w	vith the intention of harvesting	
		TOTAL ACRES	NUMBER OF FIELDS
	(i) Long grain?		+ 0056
	(ii) Medium grain?	0052	+ 0057
	(iii) Short grain?	0053	+ 0058
	I will follow a simple procedure to make a rando planted for the 2020 crop.	m selection from the rice fields	TOTAL NUMBER (FIELDS PLANTE
:	2. What is the TOTAL number of rice fields that we [If only one field enter "1" and go to item 5.]	ere planted on this operation?	0020
3	. Please list these fields according to identifying r	name/number or describe each field	
	then I will tell you which field has been selected. [If there are more than 18 fields make sure item and list only the 18 fields closest to the operator of the sepondent is unable to identify or describe the control of the second of the se	o 2 is TOTAL fields planted.	
	then I will tell you which field has been selected. [If there are more than 18 fields make sure item]	o 2 is TOTAL fields planted.	upplement.]
	then I will tell you which field has been selected. [If there are more than 18 fields make sure item and list only the 18 fields closest to the operator of the sepandent is unable to identify or describe the series.	n 2 is TOTAL fields planted, n's permanent residence. ne fields, use the Field Selection Grid Su	upplement.]
1	then I will tell you which field has been selected. [If there are more than 18 fields make sure item and list only the 18 fields closest to the operator of the sepandent is unable to identify or describe the series.	. 2 is TOTAL fields planted, r's permanent residence. ne fields, use the Field Selection Grid Su	upplement.]
1 2	then I will tell you which field has been selected. [If there are more than 18 fields make sure item and list only the 18 fields closest to the operator of the sepandent is unable to identify or describe the series.	FIELD NAME, NUMBER (upplement.]
1 2 3	then I will tell you which field has been selected. [If there are more than 18 fields make sure item and list only the 18 fields closest to the operator of the sepandent is unable to identify or describe the series.	FIELD NAME, NUMBER 0	upplement.]
1 2 3 4	then I will tell you which field has been selected. [If there are more than 18 fields make sure item and list only the 18 fields closest to the operator of the sepandent is unable to identify or describe the series.	FIELD NAME, NUMBER 0 10 11 12 13 14 15 16 16 16 17 18 18 18 18 18 18 18 18 18	upplement.]
1 2 3 4 5	then I will tell you which field has been selected. [If there are more than 18 fields make sure item and list only the 18 fields closest to the operator of the sepandent is unable to identify or describe the series.	FIELD NAME, NUMBER 0 10 11 12 13	upplement.]
1 2 3 4 5	then I will tell you which field has been selected. [If there are more than 18 fields make sure item and list only the 18 fields closest to the operator of the sepandent is unable to identify or describe the series.	FIELD NAME, NUMBER 0 10 11 12 13 14	upplement.]
	then I will tell you which field has been selected. [If there are more than 18 fields make sure item and list only the 18 fields closest to the operator of the sepandent is unable to identify or describe the series.	FIELD NAME, NUMBER 0 10 11 12 13 14 15	upplement.]

APPLY	"RANDOM	NUMBER" L	_ABEL	HERE
--------------	---------	-----------	-------	------

[En	um	nerator Action: Circle the pair of numbers on the above label associated with	Selected Field Number
			0021
5.	Th	ne field selected is (field name/number/description).	
		•	
6.	Fo	or the randomly selected field above, please provide the Farm Service Agency (FSA):	
trac use pro	t, a s to gra	and field number for the largest administrative field. These numbers are field identifiers that USDA of administer farm programs like crop insurance, commodity programs, and conservation ms. Having this information helps USDA make better use of other data you have provided to	
sur	the label, and record the selected number. If only one field, enter "1".] The field selected is	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

0022

В

		ACRES
1.	How many acres of rice did this operation plant in the selected field for the 2020 crop?	1301
		: :
		CODE
	a. Are the acres in the selected field CERTIFIED	1300
	OPCANIC2 YES = 1	
	[If item 1a = 1, go to item 2.]	Dollars & Cents
b.	What was the cost, per acre, for third party organic certification?	1891
	c. Was the selected field transitioning into organic rice production in	1399
	20202 YES = 1	
		CODE
2.	Were the acres in the selected 1 owned by this operation?	1302
	field 2 rented for cash with the payment being a fixed cash amount? 3 rented for cash with the payment being a flexible cash amount?	
	4 rented for a share of the crop?	
	5 rented for some combination of cash and share of the crop?	
	6 used rent free?	
3.	[If field is CASH RENTED (item 2 = 2, 3 or 5), ask item 3, else go to item 4.]	DOLLARS & CENTS PER ACRE
		1303
	What was the cash rent paid per acre for this 2020 rice field?	·
		PERCENT
4.	[If field is SHARE RENTED (item 2 = 4 or 5), ask]	1304
	What was the landlord's share of the crop from the selected field?	
	•••	
5.	[If field is RENTED (item 2 = 2, 3, 4,or 5), ask]	
	What was the total cost for all inputs provided by any landlord for the 2020 crop on the selected field? (Include the costs for all inputs, such as seed, PER ACRE OR	TOTAL DOLLARS
	fertilizer, chemicals, technical services, custom operations, drying and	1306
	irrigation. Exclude real estate tax expenses and lime costs paid by the	
	landowner.)	
ŝ.	What was the total cost for all inputs provided by any contractor for the DOLLARS & CENTS	TOTAL DOLLARS
	2020 crop on the selected field? (Include the costs for all inputs, such as	TOTAL DOLLARS
	seed, fertilizer, chemicals, technical services, custom operations, drying and irrigation.)	1310
	<u> </u>	
	Г	YEAR
7.	What year did you (the operator listed on the label) start operating the selected field?	1312
		MM DD YY
		1308
3.	On what date was the selected field planted?	
		1=POUNDS
		2=CWT 3-TONS
	UNITS PER ACRE	4-BUSHELS 5-BARRELS
	a. What was your yield goal at planting for the selected field?	0217
	(Include any ration crop.)	

9.	What type of rice was planted in the selected	1 Long? 2 Medium?			CODE
	field?	3 Short?			1324
	[If item 9 = 1, ask]				Code
	a. Did you plant an aromatic variety?			Yes = 1 No = 3	
	[If item 9 = 3, ask]				Code
	b. Did you plant a glutinous or sweet variety?			Yes = 1 No = 3	
10	NAME of the design of the discussion of the disc	1 Purchased?			CODE
10.	What was the source of the rice seed?	2 Homegrown or tr 3 Both?	aded?		1317
	[If item10 = 2 or 3, ask]				DOLLARS & CENTS PER POUND
	a. What was the cost per pound for cleaning and tre	eating this seed?			1321
	[If item 10 = 2 or 3, ask]	· ·			PERCENT
	b. How much of the rice seed planted in this field w by this operation?	•	,		1318
	by this operation?				
11.	[If any seed purchased (item 10 = 1 or 3), ask]			DOLLARS & CENTS PER UNIT	UNIT CODE 1 = POUNDS 2 = CWT 3 = TONS 4 = BUSHEL 22 = ACRE 23 = 50 LB BAGS
	What was the total cost per unit of purchased seed for operator, landlord, and contractor costs, cost of seed fee.			1319	1320
				UNITS	UNIT CODE 1 = Pounds/Acre 2 = CWT/Acre 4 = Bushels/Acre 25 = Seeds/Acre 38 = Seeds/Foot
12	. What was the seeding rate per acre the first time this field was planted?			1313	1314
		1 Water seeded (airpla	nne)?		CODE
	What method of seeding did you use on the selected field?	2 Drilled (dry)?3 Airplane (dry)?4 Other, Broadcast (dr	y)?		1316

			ACRES
13. How many acres in the selected field had to (Acres replanted = Number of acres x	be replanted to rice?		1315
(10.00.00)			
		٦	Code
14. For the 2020 rice crop, was the	1 Treated with a pesticide prior to purchase? 2 Treated with a pesticide after purchase?		3062
rice seed	3 Not treated with a pesticide?		
[If item 14 = 1 or 2, ask]	_	Seed Treatment	Name
 a. What was the name of the seed treatmen Write seed treatment name in the box pro 			
white cook trouble hame in the sox pr			Code
b. What was the seed treatment Code? Ent	er the appropriate seed treatment Code	from the	2325
Respondent Booklet. Enter 999 if a seed	treatment was applied but is not listed.		
Enter "-1" if the seed treatment is not kno	wn		2340
15. For the 2020 rice crop, did you plant a comm	ercial seed product on the selected field	Yes = 1 No = 3	2340
[If item 15 = 1, ask]	Co	ommercial Seed Prod	uct Name
a. What was the name of the seed product?			
box provided			0-4-
b. What was the seed the product code? En	ter the appropriate product code from th	e Desnondent	Code
Booklet (page 5). Enter 999 if a seed prod			
1" if the product is not known			
			CODE
16. Was a hybrid rice seed planted in the select	ed field?	YES = 1	1326
17 Did the vice planted on the colored field beau		2020	Last Year Rice was Planted
Did the rice planted on the selected field hav resistant traits in 2020? Did you use any of the		1 Yes	1 Yes
the last time rice was planted on the selected		3 No	3 No
a. Herbicide tolerance to imazethapyr and oth	` ,		
ClearField®) such as Clearfield® Rice or F	ullPage® Rice		
b. Herbicide tolerance to quizalofop (e.g. Pro	ovisia®) such as Provisia® Rice		
, , , ,	,		
c. Herbicide tolerance to oxyfluorfen (e.g. G	oalTender®) such as ROXY Rice		
d. Herbicide tolerance to glyphosate (e.g. Re	oundUp®)		
e. Herbicide tolerance to glufosinate (e.g. Li	berty Link®)		
f. Other herbicide tolerant trait			
17. Did you use an "air delivery" or "vacuum (pne	eumatic) planter"?	. YES = 1	2323
, ,	• •		

CODE

[If item 17 is YES, ask--]

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?	YES = 1	2394		
				CODE	
19. H	as harvest of the selected field been completed?	YES =	1328		

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

How many acres in this rice field were (or will be)		1 What yield per acre did you (or do you expect to) get for rice	2 UNIT CODE 1 Pounds 2 CWT 3 Tons 4 Bushels
	ACRES	UNITS PER ACRE	CODE
a. harvested for grain, first crop?	1346	1347	1348
b. harvested for grain, ratoon crop?	1332	1333	1334
c. harvested for commercial seed contract?	1431	1432	1433
d. abandoned?	1351		
e. used for some other purpose?	1439		

	CROP CODE LIST for item 21 – PREVIOUSLY PLANTED CROPS							
190 Barley 311 Grasses including clover 22 Rye 318 No crop planted						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	XX	Crawfish	

21. Next, I need to know 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 selected field in					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?
and	erennial crops (1, 11, 34, 292, 302, 311), report the crop code in all sons when the crop is growing.]					1 Tilled-In 2 Harhicide 3 Polled 4 Grazed 5 Harvested for forage		
						6 Harvested for Grain		
	SEASON AND YEAR	CROP NAME	CROP CODE		YES = 1	CODE	YES = 1	YES = 1
a.	SPRING/SUMMER of 2020?	Rice	21	Needs a p	Grey out	Grey out	Needs a p	Needs a p
a.	FALL of 2019?		1343		1470	1471	2344	1345
b.	SPRING/SUMMER of		1369		1472	1473	2370	1371
C.	FALL of 2018?		1372		1474	1475	2373	1374
d.	SPRING/SUMMER of 2018?		1375		1476	1477	2376	1377
e.	FALL of 2017?		1378		1478	1479	2379	1380
f.	SPRING/SUMMER of 2017?		1381		1480	1481	2382	1383
g.	FALL of 2016?		1366		1482	1483	2367	1368
h.	SPRING/SUMMER of 2016?		1340		1484	1485	2341	1342
1/	No-till means leaving soil	and previous crop r	esidue und	isturbed fror	n harvest to	planting. Strip-til	ll means tilli	ng a narrow

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

		DOLLARS & CENTS
	i. [If a cover crop was planted in Spring/Summer/Fall 2019, ask—] 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]

- 22. 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 Management								
No-Till/Strip-Till	Grass Waterway	Implement an integrated pest management plan - written plan						
Conservation Tillage except no-till/strip-till	lmplement a nutrient managem plan (written plan)	ent Drift reducing spray nozzles						
Cover crop - single species	Split nitrogen application with a least 50% applied after planting	Targeted sprayer - electrical control						
Cover crop mix	Precision nutrient application	Adjacent to Field						
Contour Farming	No fertilizer application more th 30 days before planting	an 33 Filter strip						
Conservation crop rotation	Controlled release fertilizer	34 Field border						
Laser Levelling	Subsurface phosphorous application	Riparian Buffer - grass or forest						

b. For each practice or activity checked in 22a, please complete one line of this table.

b. For each practice of activity checked in 22a, please complete one line of this table.						
1	2	3 Have you ever receiv	ed at any time 	Does this practice or activity help satisfy	5 Was this practice or	
		Technical or planning assistance?	Financial assistance? 		plan used on this selected field in 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,	 A Federal regulatory requirement Highly erodible land conservation compliance Does not relate to any regulation or compliance requirement 	Voc. = 1	
			and Local ProgramsNo Assistance Needed		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	

23. Ha ide red a v Fe	Yes = No =					
24 Do	you have a written conservation pl	an that sne	ecifies practices to	o control soil erosion?	Yes = . No = :	_
25. Do (W	es the selected field contain a wetla (C) or "swampbuster" requirements rain from draining wetlands to make	and? Wetla . Producer	ands are subject to s who receive fari	o Wetland Conservation m program payments must	Yes =	1405
161	rain nom uraining wellands to mak	e mem rea	day for crop produ	CIIOI1	No =	3
	nat is the primary soil type of the lected field?	Loam Clay				Code
		Sandy Mixed				2401
	L					
28. Ne	xt we will ask about soil and water	concerns t	that you have on t	he selected field.		
				Have you were it and to also it all a con-	intonno fun	
				Have you received technical ass sources to evaluate this resou sources that you rece	ırce concer	n? (Report up to 2
			Code	1 USDA – NRCS	iveu assisio	ance nom.)
	elected field, are you concerned at	out any		2 Cooperative Extension 3 Other USDA staff, inclu		st Service
OT U	he following?			4 Other (e.g. Soil and Wagency)	ater Conse	rvation District, state
			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	
	ator Note: Enter Yes = 1 for item h s (items a-g)].	, no signific	cant concerns, on	ly if the respondent replies	No = 3 to	all other
red	s the selected field been in any conceived (or expected to receive) costyments?					Unit Code 1 = Current 2 = Past 3 = Never
a.	Environmental Quality Incentive F	Program (E	EQIP)		2	611
b.	Conservation Security or Conserv	ation Stev	vardship Program	s (CSP)	2	612
C.	Conservation Reserve Program (CRP)			2	613
d.	Other Federal, State, Local or nor	n-governm	ent source			614
					L	
					Yes = 1	Code
31. Dio	d you harvest both rice and crawfisl	h from the	selected field duri	ing 2020?	No = 3	

	[If Yes, ask]	Code
	a. Do you believe the crawfish harvest reduced the rice yield in the selected field during Yes = 1 No = 3	XXXX
	[If Yes, ask]	Percent
h	By what percentage do you believe the rice yield in the selected field was reduced as a result of the harvest of crawfish?	XXXX
32.	habitat for wildlife or	Code XXX
	waterfowl?	
	[If Yes, ask]	
	Inches per Acre Or	Total Acre-Feet
	How much water was left on the field as a winter flood?	1262
	Did you receive payment for maintaining a flood on the selected field? No = 3 $\begin{bmatrix} Yes = 1 \\ No = 3 \end{bmatrix}$	1260
	[If YES, ask]	
	Dollars & Cents Per Acre Or	Total Dollars
		1262
33.	In 2020, was the rice in the selected field covered by a single or named peril crop insurance (e.g hail,	
	replant, wind, freeze, etc.)?	CODE
	YES – [Enter code 1 and continue] NO – [Go to (multi peril crop insurance]]	1393
		CODE
	In 2020, was the rice in the selected field covered by more than one single or named peril crop insurance policies (e.g. hail, replant, wind freeze)?	YES = 1 NO = 3
	DOLLARS & CENTS PER ACRE	
	What was the dollar amount of coverage per acre for the single peril policy 1395	
	covering the selected field? ?	

				DOLLARS & CENTS PER ACRE				
	C.	What was the premium cost per acre for the si (Exclude any sign-up fee.)	ngle peril policy coveringthe selected field in 2020?					
				PERCENT				
	d.	What was the percent deductible for the single (Record no deductible as 0%)						
				CODE YES = 1				
	•	Did you (or will you) collect an indemnity payment for the selected field from the single peril policy during 2020?						
34.	In :	2020, was the rice in the selected field covered	by a multi-peril crop insurance policy?	CODE				
		VEC. [Enter code 1 and continue]	NO ICo to Costion C1	1385				
	a.	YES – [Enter code 1 and continue.] Which coverage did you obtain?	NO – [Go to Section C.]	CODE 1386				
		[If item a = 2 or 3, ask]		PERCENT				
		What percent of yield coverage did yo	ou selectfor the selected field?	1387				
		What percent of price coverage did yo	ou select for the selected field?	1388				
		[If item a = 4 or 5, ask]		PERCENT				
		. What percent of revenue coverage di	d you select for the selected field?	1389				
	b.	,	for the selected field? (Basic = 1, Optional = 2,	CODE				
		In what year did you (the operator listed on the lab selected field? ?	el) first purchase multi-peril crop insurance on the	YEAR				
		What is the 2020 Approved APH (actual producti	on history) yield for the selected field?	CWT PER ACRE				
		What was the premium paid for multi-peril crop on the selected field in 2020? (Exclude any sign-u)	insurance	DOLLARS AND CENTS PER ACRE				
		Did you (or will you) collect an indemnity payme From multi-peril crop insurance during 2020?.		CODE				

EDIT TABLE

CODE

NUTRIENT or FERTILIZER APPLICATIONS---SELECTED FIELD

1.	Were commercial nutrients or fertilizers applied to the selected field for the 2020 rice crop?						0202		0200	
	[If COMMERCIAL nutrient or fe	ertiliz	zer applied, continue; else go to	item	6.]				N	UMBER
2. How many commercial nutrient or fertilizer applications were made to the selected field for the 2020 crop? (<i>Include</i> applications made by airplanes and custom applicators.)						0203				
3. Now I need to record information for each application.										
	CHEC									
√	 INCLUDE	√	EXCLUDE							
	Custom applied nutrients and fertilizers		Micronutrients							
	Nutrients or fertilizers applied in the fall of 2019 and		Unprocessed manure							
sele	those applied earlier if the ected field was fallow in 2019.	sele	Nutrients or fertilizers applied to previous crops in the ected field							
	Commercially prepared manure or compost		Lime and Gypsum/landplaster		ice Use s in Table	•	TABLE 001	0299		

			APPLICATION CODES for COLUMN 6				
				5 In irrigation water6 Chisel/Injected or knifed in7 Banded in or over row8 Foliar or directed spray			
	2	3	4	5	6	7	
ı	MATERIALS USED	What quantity was applied	[Enter material	When was this applied?	How was	How many acres were	

I N E	pound	nter percentage ds of plant nutrie ow Common Nu	ents applied per	r acre.]	What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.]	[Enter material code.] 1 Pounds 12 Gallons 19 Pounds	When was this applied? 1 In the fall before seeding 2 In the spring before seeding	How was this applied? [Refer to code list above.]	How many acres were treated in this application?
	N	P2O5	K2O Potash	S Sulfur		of actual nutrients	3 At seeding 4 After seeding		ACRES
01	Nitrogen 31	Phosphate 32	33	34	36	37	38	39	40
01									•
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

TABLE	LINE
000	00

					Code
4.	Were any nutrients or fertilizers applied by custom app	licators?		Yes = 1 No = 3	0214
	[If item 4 = 1 continue, otherwise go to item 5.]			_	Code
	 a. Are you able to report the cost of nutrient or fertilize separately? 	er materials and custom a	application	Yes = 1 No = 3	0216
	,			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 fer	tilizers on the selected	DOLLARS & CENT PER ACRE	OR	TOTAL DOLLARS
	field? INCLUDE operator, landlord, and contractor for sulfur and micronutrients. EXCLUDE custom a	pplication of lime,	0219		0220
	[If material and application costs can't be separated, e	exclude them here and red	ord the total in i	tem 5.]	
5.	What was the total cost of all nutrient or fertilizer produced selected field? INCLUDE operator, landlord, and contains		DOLLARS & CEN	rs 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	ed from application costs.	include the cos	==□ t of mate	rials ONLY:
	nerwise, include both the material and application costs.				
					Code
6.	Was gypsum applied to the selected field for the 2020	rice crop?		Yes = : No = 3	
7.	Was a soil test for soil organic matter performed on th years?			Yes = : No = 3	
[if	item 7 = 1, ask]				Percent
-	a. What was the percentage of soil organic matter or	a the colooted field for the	most recent to	+2	3226
	What was the percentage of soil organic matter of	Title Selected field for the	illost recent tes	ot :	Number
	b. How many times have you tested the selected fiel	d for soil organic matter i	n the nast 10 ve	ars?	3227
rı c		a for som organio matter i	Title past 10 ye	a10.	
[IT	item 7b is more than 1, ask]	Ingrapaing			Code
	d. Based on these tests, is your soil organic matter	Increasing? Decreasing?			3228
	content	Staving roughly the same	?		Code
8.	Was a soil or plant tissue test performed on the select crop?			Yes = : No = 3	
[lf	item 8 = 1, continue, otherwise go to item 13.]				Code
-				Yes = :	0225
	Was a soil test for phosphorus performed on the selectory?			No = 3	3
Γlf	item 9 = 1 ask 1				Pounds per Acre
	a. How many pounds of phosphorus per acre wer	re recommended by the p	hosphorus test?		0226
					Code
10	. Was a soil test for nitrogen performed on this rice field	I in 2019 or 2020 for the 2	2020 crop?	Yes = 1 No = 3	
					Pounds per Acre
	a. How many pounds of nitrogen per acre were reco	mmended by the nitroger	ı test?		0228
11	Mos a plant tipous test on less and being for motificity of	inings, peufeure de les d	oolootaal £ - L-L '		Code
11	. Was a plant tissue test or leaf analysis for nutrient def	iciency performed on the	selected field in	Yes = 1 No = 3	

Dollars & Cents per Acre	OR	Total Dollars
12. How much was spent for these soil and plant tissue tests on the selected field? INCLUDE operator, landlord, and contractor costs		0231
Ilf tests were done at no cost, continue, otherwise go to item 12h.1	_	
Soil/plant tissue test provided free of charge by dealer, crop consultant, or extension service	_	Code
	es = 1 lo = 3	0232
3 Some other reason	-	Code
	es = 1 lo = 3	3231
[Enumerator Action: Refer to 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	Г	Code
	es = 1 lo = 3	0233
	es = 1 lo = 3	0234
· ·	es = 1 lo = 3	0235
	es = 1 lo = 3	0236
v. Cost of nitrogen and/or expected commodity price?	es = 1 lo = 3	0237
	es = 1 lo = 3	0238
	es = 1 lo = 3	0239
[If nitrogen inhibitors were used, continue, otherwise go to item 14.] None Pounds Per Acre	OR	Gallons per Acre
viii. How much nitrogen inhibitor did you mix with the nitrogen applied to the selected field?		2562
	_	Code
13. Was time-released fertilizer applied to the selected field?		ΚXX
	Г	Code
	es = 1 lo = 3	0242
[If item 14 = 1 continue, otherwise go to item 15.]	L	Years
a. On average, how many years are there between applications of lime to the selected field?		0243
	-	Tons ner Acre
b. How many tons of lime were applied per acre the last time it was applied to the selected field?	1	0244
	Г	Code
	es = 1 lo = 3	0240
other organic material, including compost, applied to the selected held for the 2020 nee crop.	s = 1 ₀₂	Code 246
[If item 15 = 1 continue, otherwise go to Section D.]	= 3	Acres
a. To how many acres in the selected field was manure or compost applied?	02	247

	b.	what was the amo manure applied to		1 Tons 2 Gallons	Code		Units F	er Acre	OR	Total Units
		selected field?		3 Bushels	0248		AND 0249	·		0250
				4 Cubic Yards						
C.		otal manure or comp		d to the selecte	d field for the 20	020 crop	o, what was t	ne		
	percent	of manure applied-							0254	Percent
	(i) in th	he fall before plantin	ıg?					+	0254	
	(ii) in th	he spring before pla	ntina?					. +	0255	
	(,	no opinig sololo pia	g					•	0256	
	(iii) afte	er planting?						. +		
										100%
d		e manure or	1 Lagoon 2 Slurry li							Code
	compos	st	1						0257	
			1 Broadca	st or sprayed witho	out incorporation?					Code
е		e manure or	2 Broadca	st or sprayed with knifed in?					0258	Code
	compos	st		using irrigation sy	stems?				0200	
			1 Beef cattle	22						
			2 Dairy cattl							Code
f.		e major source	3 Hogs? 4 Sheep?						0259	
		nanure or compost	5 Poultry? 6 Equine?							
				(municipal sludge)	?					
				Specify:	1					
			1 Produce	d on this operation	12		7			
g.	Was the	e manure or	5 Pt	ırchased?						Code
g.		st		otained at no cost	off this operation? ensation? - operato	r			0260	
			1		epting the manure.	•				
f iten	n 15g = 2,	continue, otherwise	go to item	15h.]						
W	nat was th	ne total cost of the p	urchaead m	nanure or comr	nost applied to	Do	llars & Cents	OR	т.	atal Dallara
		field? INCLUDE of				0284	Per Acre		0285	otal Dollars
IN	CLUDE a	ny payment made fo	or transport	ation costs		0204	·		0203	
										Code
) Die	d vou hire	someone to custom	annly the	manure or com	nnost?			Yes = 3 No = 3		
•	15gii = 1,		тарріу інс	manare or con	ipost					
iteii	1 13gii – 1,	, askj				D	ollars & Cents	OR		
		ne total cost paid to I					Per Acre			otal Dollars
		ed field? INCLUDE	•			0287	·		0288	
		ustom application co				anure o	r compost co	st l		
		лотот арриосион ос			pa			o _]		Miles
h.	What is	the distance in mile	s between	the manure or	compost storage	e/produc	ction location	and the	0291	
		I field?				•				
										Code
i.		nanure or compost a							10261	
	content	prior to application?						No =		
j.		application rate of			zer on the selec	ted field	l reduced	Yes = No =	. ₁ 0262	
: 4 F:		nanure or compost a	application?	•				INO =	· 3	
T2] :	= 1, ask	J								Percent

	-14-	•		
(i)	By when percent did you reduce the commercial nitrogen fertilizer application rate on the selected field?		0263	
				Code
xvii.	··	es = 1 o = 3	0280	
				Code
	ere the manure or compost application rates to the selected field influenced by Federal, ate, or local restrictions?	Yes = 1 No = 3	0264	
[If item	n 16 is YES, ask]			
a.	What basis was used to determine these manure application rate restrictions			Code
	(i) Nitrogen requirement of the crop?	Yes = 1 No = 3	0265	
	(ii) Phosphorus requirement of the crop?	Yes = 1 No = 3	0266	
	mpared to the last time you planted rice, did you make any of the following changes to your or intent of reducing commercial fertilizer use?	cropping	praction	ces with
		_	С	ode
a.	Change the type of commercial fertilizer products applied on the selected field [e.g. less anhydrous ammonia and more urea]	Yes = 1 No = 3	1226	
b.	Manage fertilizer use more closely, with such practices as soil testing, split applications, variable rate applications, or soil incorporation on the selected field?	Yes = 1 No = 3	1228	
C.	Change your crop rotation [e.g. plant rice on the selected field rather than usual crop rotation]?	Yes = 1 No = 3	1227	
d.	Reduce the application of commercial nitrogen fertilizer?	Yes = 1 No = 3	1224	
	(i) [If YES, ask]		P	ercent
	By what percent did you reduce the amount of commercial nitrogen fertilizer applied for 2020?		1225	

Now I have some questions about all the biocontrols or pesticides used on the selected field for the 2020 rice crop, including both custom applications and applications made by this operation.

D

							COD	ÞΕ	EDIT TABLE
Were any h or pesticide	erbi s us	cides, insecticionsed on this rice	des, fungicide field for the 2	es or other b 020 crop?	piocontrols	YES = 1	0302		0300
		ons in the fall of or pesticides a			earlier if the select	ed field was f	allow.]		
INCLUDE defolia	— – nts, f	ungicides, herbicid	es, fe	JDE adjuvants	, nutrients or ed earlier and seed				
INCLUDE biological and botanical pesticides. OFFICE USE TABLE 0399 LINES IN TABLE 001									
		2	3	4	5	6	OR 7		8
CHEMICAL PRODUCT NAME	L 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?	I the am applio appli in the s	t was total ount ed per cation selected	[Enter unit Code.] 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Ounces 28 Dry Ounces 30 Grams
	01	61		63	64	65	73	·	74
	02	61		63	64	65	73	·	74
	03	61		63	64	65	73		74
	04	61		63	64	65	73		74
	05	61		63	64	65	73		74
	06	61		63	64	65	73		74
	07	61		63	64	65	73	·	74
	08	61		63	64	65	73		74
	09	61		63	64	65	73		74
	10	61		63	64	65 	73		74
	11	61		63	64	65	73		74
	12	61		63	64	65	73		74
	13	61		63	64	65	73		74
	14	61		63	64	65	73		74
2. For biocontro	ols o	r pesticides not li	sted in Respor	ndent Bookle	t, specify				1
LINE	(H	Pesticide Type erbicide, Insecticid Fungicide, etc.)		No. or Trade r nd Formulation		rm Purchased Liquid or Dry)		(Ask O	re Purchased NLY if EPA No. ot 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	I I	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		79	80	81	82
03	76	77	79	80	81	82
04	76	77	79	80	81 	82
05	76		79	80	l ₈₁	82
06	76	77	79	80	 81 ·	82
07	76	77	79	80	81 •	82
08	76		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

Yes = 1 0323

3.	we	re any chemicals, biocontrols, or pesticides applied by custom applicators?	No =	3					
[If i	tem	3 =1 ask, otherwise go to item 4.]							
				_	OFFICE USE				
	 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.		at was the TOTAL COST of all chemical, biocontrol, or pesticide ducts applied to the selected field? INCLUDE operator, landlord, and	Dollars & Cents Per Acre	Or	Total Dollars				
	con wet	ntractor costs, defoliants, herbicides, insecticides, fungicides, surfactants, etting agents, growth regulators, and materials applied before planting and ing 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 $4. \,$

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us	w I have some questions about your pest mana ed on the selected field for the 2020 rice crop. E eases.			and						
[Er	numerator Action: Were pesticide applications r	eported in Se	ction D?]							
	☐ YES – [Continue]	□ NO – [Go	o to item 6]				Code			
1.	Were weather data used to assist in determining applications?	-		pesticide	Yes = 1 No = 3	0800				
2.	Were any biological pesticides such as Bt (<i>Bac</i> neem or other natural/biological based products selected field?	s sprayed or a	applied to manage pe		Yes = 1 No = 3	0801				
3.	Were pesticides with different mechanisms of action rotated or tank mixed for the primary purpose of keeping pests from becoming resistant to pesticides? $_{No = 3}^{0802}$									
[Er	numerator Action: Were herbicide (pesticide pro applications repor		10000-49999) n D, item 1, column 2?)]						
	☐ YES – [Continue]	□ NO – [Go	o to item 6]							
							Code			
4.	4. Were herbicides applied to this rice field before weeds emerged?									
5.	Were herbicides applied to this rice field after v	weeds emera	ed2		Yes = 1 No = 3					
6.	Were records kept for the selected field to trac	k the activity	or numbers of weeds,	insects, or	Yes = 1	0823				
_	diseases?									
7.	Did you use published information on infestation measures to manage pests in the selected field				Yes = 1 No = 3					
					1					
8.	In 2020, how was the selected field		ly going to the field specific Enter Code 1 and go to iter				Code			
	primarily scouted for insects,		g general observations whil			0808				
	weeds, diseases, and/or beneficial organisms?		ks [Enter Code 2 and go to field was not scouted.	item 10.j						
	o.ga		le 3 and go to item 14.]				Code			
	Was an established scouting process such as s used or were insect traps used in the selected fi				Yes = 1 No = 3	0809				
	Was scouting for pests done in the selected field				ļ		Code			
	a. a pest advisory warning?				Yes = 1	0810				
					Nn = 3 Yes = 1	0811				
	b. a pest development model?				No = 3					
	1		2		3					
			[If YES, ask]	[If colu	mn 1 – \	/EC o	ock 1			
	What was the infestation level for [column 1]? [If column 1 = YES, ask] Who did the majority of the scoutir for [column 1]?									
			1 Worse than normal 2 Normal 3 Less than normal	2 An er 3 Farm 4 Indep	mployee supply or pendent cr	chemic op cons				
9.	Was this rice field scouted for	YES = 1	CODE	comn	nercial sco)	out				
	a Weeds?	0812	0813	0814						

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		-23-							
b	o. Insects or mites?	0815	0816	0817					
		0818	0819	0820					
C	Diseases?								
-	[If scouted by crop consultant or commercial scout, ask item 10; else go to item 11.]								
,	eise go to tiem 11.] DOLLARS & CENTS								
10	Llow much was sharped for the accuting convic	oo for the col		PER ACRE	OR	TOTAL DOLLARS			
	How much was charged for the scouting service [Include operator, landlord and contractor cost		1.0	0821 · <u> </u>		0822			
						OFFICE USE			
	a. [If scouting performed at no cost, explain:_]		0333			
	Were scouting data compared to published info			d field? yr	FS = 1	0824			
	Did you use field mapping of previous weed prweed management decisions?			YI	ES = 1	0825			

15.	pur	I you do any of the following other type(s) of pest management practices for typose of managing or reducing the spread of pests in the selected field? Inter Code "1" for all that apply.	the specific			CODE
	•	77.5.1			0841	OODL
	a.	Use the services of a diagnostic laboratory for pest identification or soil plant tissue pest analysis for the selected field?		Yes = 1 No = 3	0041	
	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 three	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 fe	ence lines?	Yes = 1 No = 3	0850	
	k.	Clean equipment and field implements after completing field work to reduce the spread of pests?		Yes = 1 No = 3	0851	
	l.	Adjust row spacing, plant density or row directions?		Yes = 1 No = 3	0852	
	m.	Have the seed treated for insect or disease control after you purchased the selected field?		Yes = 1 No = 3	0854	
				Yes = 1	0855	
	n.	Maintain a beneficial insect or vertebrate habitat?		No = 3		
	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 did you take a huffer harvest?	or land,	Yes = 1 No = 3	0856	
	q.	Plant earlier or later to avoid weeds?		Yes = 1 No = 3	0865	
						Code
16.		ere any beneficial organisms, such as insects, nematodes, fungi applied released in the selected field to manage		Yes = 1 No = 3	0853	
17.		ere floral lures, attractants, repellants, pheromone traps or other biological peed on the selected field?		Yes = 1 No = 3	0858	
[If it	tem	16 or item 17 is YES, ask]				
-	a.	What were the total materials and application costs for all biological pest	Dollars & Cents	۰	Tota	l Dollara
		controls for the selected field? INCLUDE operator, landlord, and	Per Acre 0859	Or	0860	ll Dollars
		contractor costs. INCLUDE cost for beneficial organisms (insects, nematodes, and fungi). EXCLUDE biological pesticides previously reported	9039		0800	
		Teporteu	· <u> </u>			
				V 1	0000	Code
18.	Wa	is a trap crop (excluding fallow) grown to help manage insects in the selected	d field?	Yes = 1 No = 3	0863	
				V	000:	Code
19.	Wa	as the selected field left in fallow in 2019 to help manage insects on the selec	ted field?	Yes = 1 No = 3	0864	
				Yes = 1 No = 3		Code

20. Were water management practices such as irrigation scheduling, controlled drainage, or treatment of retention water used on the selected field to manage pests or toxin-producing									0861
								Code	
28. Did pests (weeds, insects, pathogens, animals) cause any yield loss on the selected field in spite of your pest control efforts?								0827	
[If YES, ask]									
a. How much yield loss do you think was caused by all pests			Code Units Per Acre			Total Units			
on the selected field in spite of the management practices you used to reduce those losses?		BUSHELS TONS		828	AND	829		OR	830
									UNIT CODES
1 POUNDS 2 CWT 3 TONS UNITS PER ACRE 4 BUSHELS									
23. If untreated (either with herbicides bushels per acre) do you think we field?	eds	would most likely c	ause	on the sel	ected `	e.g.			

Completion Code for Pest Management Data					
1 Incomplete/Refusal	0500				

1.	Including custom operations, I need to list field work perforby machines on the selected field for the 2020 rice crop.	CHECK LIST				
	 begin with the first field operation after harvest of previous including operations for a cover crop established since the harvested [if fallow during 2019, list operations starting with fall 2018]; list the operations in order through harvest and hauling of t 	Include all field work using machines for Land Forming/Levee Building Tillage Preparing for Irrigation				
	to storage or first point of sale; and maintain the order of tandem hook-ups.	6. 66	Planting Fertilizer & Pesticide applications			
	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	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			

	[IF CUSTOM (column 5 = Code 6), skip columns 6-11]									
	2	3	4	5	6	7		OR 9	10	11
L I N E	S E Q U E N C E	What operation or equipment was used?	[Record machine Code from Respondent Booklet.]	Who was the machine operator- [Enter Code from above.]	What was the size or swath of the [machine] used?	[Record size unit Code.] 1 Feet 2 Row 3 Moldboard (bottoms) Hauling 4 Pounds 5 Bushels 6 Tons	How many acres were covered? [Exclude land forming and hauling operations]	How many TOTAL HOURS were spent on land forming, or hauling? [Example: backhoes, disk border maker, ditcher, rear mounted blade, trucks, wagons, forklifts, etc.]	Which Power Source was used? ^{1/} 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
08	87		88	89	90	91	92	93	94	95
09	87		88	89	90	91	92	93	94	95
10	87		88	89	90	91	92	93	94	95
11	87		88	89	90	91	92	93	94	95
12	87		88	89	90	91	92	93	94	95
13	87		88	89	90	91	92	93	94	95
14	87		88	89	90	91	92	93	94	95
15	87		88	89	90	91	92	93	94	95
16	87		88	89	90	91	92	93	94	95
17	87		88	89	90	91	92	93	94	95
18	87		88	89	90	91	92	93	94	95

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

0400

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 rice 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	1 2					
	scouting for weeds, insects and diseases?	irrigating?	performing other work by hand?				
TYPE OF WORKERS	HOURS	HOURS	HOURS				
You (the operator)	1101	1102	1103				
Partner(s)	1104	1105	1106				
Unpaid workers	1107	1108	1109				
Paid part-time or seasonal workers (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 part-time or seasonal hired workers on the selected field? Part-time	Dollars & Cents Per Hour	OR	Total Dollars per Week	AND	Number of Hours Worked Each Week
	workers are defined as those who worked for ages or salaries for less than 30 hours a week on average. EXCLUDE custom and contract workers, payroll taxes and benefits	1119		2119		3119
		Dollars & Cents Per Hour	OR	Total Dollars per Week	AND	Number of Hours Worked Each Week
3.	What was the average hourly wage rate paid to full-time hired workers on the selected field? EXCLUDE custom and contract workers, payroll taxes and benefits	1119 · <u> </u>		2119		3119
						Code
5.	Was any contract labor used on the selected field?			Yes No =	_ +	1116
[If `	YES, ask					Dollars & Cents Per Acre
	a. What was the average cost per acre for this contract labor? (Include operator, landlord, and contractor costs.)					
						Percent
6.	What percent of the total number of unpaid hours worked on the workers under 16 years of age? (Estimates of labor costs for u off-farm wage rates, which are different for workers under 16 re	npaid workers a	are b	ased on		1120

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

	CUSTOM SERVICE Which of the following services were performed for the 2020 rice crop on the selected field?	and how fo	Including perator, landlord, contractor costs, much was spent or [column 1] on elected field for the 2020 rice crop?
✓	← [Check box for each service performed; refer to item 1 if necessary.]	DC	DLLARS & CENTS PER ACRE
	a. Custom laser leveling of land + = + =+	1121	
	(Cost per hour X Total hours = Total dollars ÷ Total acres in the field = Dollars & cents per acre)		•
	b. Other custom land preparation and/or shaping	1122	
		1123	
	c. Custom planting and/or reseeding	1124	<u> </u>
	d. Custom harvesting		·
	e. Custom hauling to storage or point of first sale	1126	
	(Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre)	1127	·
	Custom harvesting and hauling from field to storage or point of first sale	1127	
	(Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre)		•
			Codo
	Y	es = 1	Code
8.		lo = 3	
	[If Yes, ask]	Г	Years
	a. On average, how many years are there between laser leveling operations performed on the selected field?		1142
		L	Code
	Was the rice harvested and hauled from the selected field dried (or will be dried) before it was sold or stored?	Yes = 1 No = 3	xxxx
	bia you time any teenimed or contentant convices to make recommendations each do for	Yes = 1 No = 3	1196
[If i	tem 9 = 1 continue, otherwise go to item 12]		
10.	Which of the following technical or consultant services did you obtain to make recommendations for the selected field?		Code
	a Nutrient recommendations/management service?	Yes = 1	1129
	h Soil or tissue comple collection?	Yes = 1	1130
	,	No = 3 Yes = 1	1131
	a Doct control recommendations/management convice?	Nn = 3	

	d.	Pest scouting?	Yes = 1 No = 3	1132
	e.	Irrigation management service (i.e. irrigation scheduling)?	Yes = 1 No = 3	1133
	f.	Yield map or remote sensing map development/interpretation?	Yes = 1 No = 3	1134
	g.	Other custom or technical service? [Specify:]	Yes = 1 No = 3	1135
	servof s	ES to any of these services in item 10a-g, what was the cost for all of these vices? INCLUDE operator, landlord, and contractor costs. EXCLUDE cost oil/tissue tests or scouting cost reported earlier. Do not report costs for any nese services if they were previously reported as part of the costs of erials and/or application.).	Or	Total Dollars
		use report how any data from the selected field in 2018 will be stored and accessed. er 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
		(ii) Personal computer?	YES = 1 YES = 1	2486 2487
	b.			2487 2488
[<i>If i</i>		(iii) Mobile device?	YES = 1	2487 2488
[<i>If i</i>	item	(iii) Mobile device?	YES = 1	2488
[If I	item c.	(iii) Mobile device?	YES = 1 YES = 1	2487 2488 2489 2490
[If I	item c.	(iii) Mobile device?	YES = 1 YES = 1 YES = 1	2487 2488 2489 2490

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

[If YES, continue; else go to Item 14]

annual fee does not apply to a particular data collection tool, leave that row blank.) 6 Collected Data was/will **GPS** be used to Replacement **Data Collection Tool** Tool Used Annual Fee coordinates Cost create a map Yes = 1 Yes = 1 Yes = 1No = 3No = 3No = 3Total dollars Total dollars 2461 2462 2463 2570 2571 2464 2465 2466 2572 2573 Soil tests on core sample (performed on-farm or 2467 2468 2469 2574 2575 2470 2471 2472 2576 2577 d. Hard-wired crop condition sensors. 2473 2475 2578 2474 2579 e. 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 3	16.]					
14. Di	d 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 input use for management zo	ones?			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 commendations, such as data interpretation, in 20				owing		Code
a.	Input dealers without other fee-for-services?				Yes = 1 No = 3	- 1	
b.	Input dealers with other fee-for-services?				Yes = 1 No = 3	1	
C.	Custom service providers?				Yes = 1 No = 3	2493	
d.	USDA/University extension services?				Yes = 1 No = 3		
[If cro	p management recommendations were obtained,	ask]	Doll	ars & Cents Per Acre	Or	To	tal Dollars
e.	What was the cost for all of these services? INC	LUDE operato	r. 3150] [:	3151	
	landlord, and contractor costs. Do not report cos services if they were previously reported as part materials and/or application	sts for any of th of the costs of	iese f				
	landlord, and contractor costs. Do not report cos services if they were previously reported as part	sts for any of th of the costs of	iese f	·			Code
"Di	landlord, and contractor costs. Do not report cos services if they were previously reported as part	sts for any of the of the costs ofwn as a drone)	to produce ric		Yes = 1 No = 3	xxxx	Code
Di	landlord, and contractor costs. Do not report cos services if they were previously reported as part materials and/or application	ets for any of the of the costs of the costs of what we are a drone)	to produce ric		Yes = 1		Code
Di	landlord, and contractor costs. Do not report cost services if they were previously reported as part materials and/or application	ets for any of the of the costs of	to produce rice	d? Answer	Yes = 1 No = 3 Yes = 1		
Di	landlord, and contractor costs. Do not report cos services if they were previously reported as part materials and/or application	ets for any of the of the costs	to produce rice	d? Answer	Yes = 1 No = 3	XXXX	
Di	landlord, and contractor costs. Do not report cost services if they were previously reported as part materials and/or application	wn as a drone) the UAV on th	to produce rice	d? Answer	Yes = 1 No = 3 Yes = 1 No = 3 Yes = 1	xxxx	
Di	landlord, and contractor costs. Do not report cos services if they were previously reported as part materials and/or application	ets for any of the of the costs of the UAV on the costs of the costs o	to produce rice	d? Answer	Yes = 1 No = 3 Yes = 1 No = 3 Yes = 1 No = 3 Yes = 1	xxxx xxxx	
Di	landlord, and contractor costs. Do not report cos services if they were previously reported as part materials and/or application	ets for any of the of the costs of the UAV on the costs of the costs o	to produce rices	d? Answer	Yes = 1 No = 3 Yes = 1 No = 3 Yes = 1 No = 3 Yes = 1	xxxx xxxx xxxx	
Di	landlord, and contractor costs. Do not report cos services if they were previously reported as part materials and/or application. id you use an unmanned aerial vehicle (UAV, knowlected field in 2020? in 16 = Yes, then ask] For which of the following purposes did you use all that apply. Weed analysis? Spraying herbicide or fungicide? Insect analysis?	wn as a drone) the UAV on th	to produce rice	d? Answer	Yes = 1 No = 3 Yes = 1 No = 3 Yes = 1 No = 3 Yes = 1 No = 3 Yes = 1	xxxx xxxx xxxx xxxx	
Di	landlord, and contractor costs. Do not report cos services if they were previously reported as part materials and/or application	wn as a drone) the UAV on th	to produce ric	d? Answer	Yes = 1 No = 3 Yes = 1	xxxx xxxx xxxx xxxx	
Di	landlord, and contractor costs. Do not report cos services if they were previously reported as part materials and/or application	wn as a drone) the UAV on th	to produce ric	d? Answer	Yes = 1 No = 3 Yes = 1 No = 3	xxxx xxxx xxxx xxxx xxxx	
Di	landlord, and contractor costs. Do not report cos services if they were previously reported as part materials and/or application	ets for any of the of the costs of the UAV on the costs of the UAV on the costs of	to produce rices	d? Answer	Yes = 1 No = 3 Yes = 1	XXXX XXXX XXXX XXXX XXXX	Code
Di Se [If iten	landlord, and contractor costs. Do not report cos services if they were previously reported as part materials and/or application. id you use an unmanned aerial vehicle (UAV, know elected field in 2020? in 16 = Yes, then ask] For which of the following purposes did you use all that apply. Weed analysis? Spraying herbicide or fungicide? Insect analysis? Insect control? Yield analysis? Moisture analysis? Equipment check?	ets for any of the of the costs of the UAV on the costs of the UAV on the costs of	to produce rices	d? Answer	Yes = 1 No = 3 Yes = 1 No = 3	XXXX XXXX XXXX XXXX XXXX	Code

Code

Do you pay an annual fee for	use of UAV	/?				Yes = 1 No = 3	xxxx
If 16c = Yes, then ask							Total Dollars
i. What is the annual fee for use	of the UAV	?					xxxx
15. Was any of the following GPS-e				ipment us	ed to		
produce crops on the selected	field? [En	ter code "1" for all that	apply.]				CODE
a Mauntad in oak kaada uu dian	love?						2149
a. Mounted in-cab heads-up disp	iays?	• • •				YES = 1	
b. Smartphones or computer tab	loto?					VEO 4	1152
c. Automatic section control, such as			omotic c	action chur	t offc2	YES = 1	
c. Automatic section control, such as a	auto spraye	r boom controls or auto	Jillalic S	ection shu	l OliS?		
If any GPS-enabled equipment wa and install all GPS-enabled equipment			nase	Dollars & 0	Cents Per		
steering equipment? INCLUDE cos	st for GPS r	eceiver and annual GF		Acı	re	OR	Total Dollars
subscription fee, and operator, land report costs for any of this equipme	alora, and c ent if they w	contractor costs. Do no vere previously reporte	t d as				
part of the costs of materials and/o	r applicatio	n.)			·		
							Code
19. Was guidance auto-steering (exc	luding Light	Bar) used on the sele	cted fiel	d?		Yes = 1 No = 3	XXXX
[If 18=1, ask]	0 0	,					Code
-		1	New, o				xxxx
a Was the guidance auto-steeri	ng equipme	ent:	Lease				
							Year
b. What year was guidance auto	-steering fi	rst purchased?					
				Dollars & Per A		Or	Total Dollars
c. What is the replacement cost	for guidan	ce auto-steering		2160	1010	216	
equipment?	garaan.				·		
				Do	llars & Cen Per Acre	ts Or	Total Dollars
d. What is the annual fee fo	or quidance	auto-steering?			Pel Acie		Total Dollars
· ·	n galaanee	auto steering					
							Code
20. Was a variable rate applicator us	ed on the s	elected field?				Yes = 1 No = 3	
[If YES, continue; else go to Section							
Please report the variable rate applic	-	vou used on the sele	cted fiel	d to produ	ce this c	rop. If a	particular row's
variable rate applicator was not used,							
2	_	_					
1	2	3 Was this applicator—	Was th	4 is		5 rear was	6 Premium paid
Was a variable rate applicator used on the selected field for	Tool Used	1 Sensor-based 2 GPS-based 3 Both	applica 1 New	_	the ap	plicator used?	for the applicator

2 Used, owned

Code

3 Leased

2171

Year

2172

Total Dollars

2173

Yes = 1 No = 3

1158

a. Seeding

Code

3 Both

2170

4 Neither

-28-

-				_	
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

G IRRIGATION G

							ACRES
1.	1. How many acres in the selected field were irrigated for the 2020 rice crop? [If none, go to Conclusion]						1160
2.	Now, I have some questions about irrigation systems and water used on the selected find for the 2020 rice crop.						
		\downarrow			Unit		System 1
	a.	What type(s) of irrigation system(s) was (or were the selected field? [Show System Type Codes Enter System Type Code for system covering to	in the Respondent Booklet.		System Type Code	า	1161
					Inches Per Aci	-	1162
	b.	What was the total quantity of water applied to the entire growing season? (<i>Include ALL water farm sources</i> .)	r used from both on-farm and	off-	Or Total Acre-Fe	eet	1163
		[If operator cannot provide item 2b. ask (i) & (ii)	. else ao to 2c1				
		(i) What is the total number of hours this syste apply water to the selected field during the			Total Hours		1164
		(ii) How many gallons per minute were applied	l?		Gallons Per Minu		1165
	C.	What percent of the water used to irrigate the s	elected field through this		Percen	t	1166
	d.	d. What was the number of times the selected field was irrigated during the rice growing season using this system? (<i>Include any pre-plant irrigation</i> .)				Of ns	1167
		Was the pump type [If more than one pump in the system, enter the for pump closest to water source.]	1 TURBINE? 2 SUBMERSIBLE? 3 CENTRIFUGAL? 4 BOOSTER? 5 SIPHON? 99 NO PUMP? [If Code 99, go to item j.]		Code		1168
	f.	What was the average pumping rate?			Gallons Per Minu		1169
	g.	[If item 2a = Code 1-9 (PRESSURE SYSTEM), What was the system operating pressure?			Pounds Per Square Ir		1170
	h.	What was the primary motor type used to pump the water?	1 DIESEL 2 GASOLINE 3 LP GAS 4 NATURAL GAS 5 ELECTRICITY 6 SOLAR POWER		Code		1171
	i.	What was the average motor size?			Horsepov	ver	1172
	j.	[If NO PUMP was used (item 2e = 99), ask] What was the average flow rate?			Gallons Per Minu	-	1173
	k.	How many other acres on this operation were in irrigation system during the 2020 growing season	rrigated using the selected fie on? (Exclude the selected fie	ld's eld.).	Acres		1174
3.	Wh	nat was the cost of the fuel or electricity used to i	rrigate the selected field?		RS & CENTS R ACRE	OR	TOTAL DOLLARS
	(In	clude operator. landlord. and contractor costs.)	- 		·		

4.	Was any water purchased to irrigate the selected field? (<i>Include landlord's share and purchases from all sources</i> .)	1191	CODE
	☐ 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.)		OTAL DOLLARS
[<i>If</i> 5		 IATOT	_ DOLLARS
-		1201	
5.	What would be the total cost to replace all the siphon tubes used on the selected field?		
[If F	POLY PIPE system was used (item 2a = 14) ask]	TOTAL	DOLLARS
6.	What was the total amount spent for poly pipe used on the selected field during the 2020 growing season? (Include operator, landlord, and contractor costs.)	1202	
[If (GATED PIPE system was used (item 2a = 15 or 16), ask]	1	NCHES
7	What was the average diameter of gated pipe used to irrigate the selected field?	1203	
7.	what was the average diameter of gated pipe used to imgate the selected held?		FEET
	a. What was the total length of gated pipe used?	1204	
[If Pi	pe systems were used (item 2a = 10, 11, 14, 15, or 16), ask]		Days
			CODE
9.		1205	
	☐ YES – [Enter Code 1 and continue] ☐ NO – [Go to item 9]		IUMBER
	a. How many wells were used to irrigate the selected field?	1206	IOMBER
		- 1	NCHES
	b. What was the average diameter of the outer well casing?	1207	
	c. What was the average pumping depth of these wells during the irrigation season? [Pumping depth is the depth to water at the start of the irrigation season, plus an average decline in the water level caused by pumping during the irrigation season.]	1208	FEET
	d. Were other fields irrigated using water pumped from wells that supplied	(CODE
		1210	
	☐ YES – [Enter Code 1 and continue] NO – [Go to item 9]		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	·
10.	Was any additional mainline or lateral pipe used to carry water from the source to the system in the selected field? (Include underground pipe. Exclude any system pipe within the selected figure of the system of the selected field of the system of the selected field.) We have a system of the source to the system of the system of the selected field. The selected field of the selected field of the system o	ïeld.)	
	_	I	NCHES
	a. What was the average diameter (in inches) of the most common type of this additional pipe used?	1212	
			FEET
	b. How many feet of this additional pipe were used to bring water to the selected field?	1213	
1	1. Is the run-off from this field 1 Retained at the end of the field?		Code

50		
2 Reused to irrigate on the farm? 3 Collected in evaporation ponds on the farm? 4 Drained from the farm 5 There is no run-off	[1214
Did you reduce the water applied to the selected field in 2020 due to reduced availability of water supplies?	Yes = 1 No = 3	Code 1215
13. If the selected field was flood irrigated using a gravity system, which water management approach was used?	[Code 1214
Which of the following approaches are used to manage drainage of this field? Answer all that apply.		Code
Natural drying of the field (when weather allows)	Yes = 1 No = 3	xxxx
Opening of levee gates or intentional breech of levee?	Yes = 1 No = 3	xxxx
Controlled drainage outlet?	Yes = 1 No = 3	xxxx
Treatment of drainage water with saturated buffers, filter strips, or constructed wetlands?	Yes = 1 No = 3	xxxx
Treatment of drainage water with a bioreactor?	Yes = 1 No = 3	xxxx

CONCLUSION

LO	CATION OF SELECTED FIELD											
1.	need to locate the selected field of rice on this map. COUNTY NAME							С	OFFICE USE COUNTY FIPS CODE			
								00	010			
2.	What county is the selected rice field in $?\dots\dots$											
	Field description											
FOR STATES WITH GPS UNITS ONLY				LATITUDE			LONGITUDE					
	Field location N	0054		·	·	w	0055		·			
3.	[ENUMERATOR ACTION: Mark map to indicate we Be sure the "X" marked			lected ric								
4.	We will need additional information to complete this study. We will contact you in February or March 2017 to collect it. I'll call you then to set up a time that is good for you.											
5.	To receive the complete results of this survey on the release date, go to www.nass.usda.gov/results/. Would you rather have a brief summary mailed to you at a later date?							S = 1	9990	CODE		
								г	Н	н мм		
6.	ENDING TIME [MILITARY]								0005			
	· ·							[
RE 7.	CORDS USE [Did respondent use farm/ranch records to report	1							(CODE		
•		_							0011			
	a. [fertilizer data?]											
									0012			
									0013			
	c. [majority of this expense data?] YES = 1									NUMBER		
SLIPPI EMENTS LISED FERTILIZER									0041			
APPLICATIONS APPLICATIONS												
8.	[Record the total number of each type of supplement used to complete this interview.]	าt 					PESTICIE APPLICATION	DE DNS	0042			
							FIELD OPERATIO		0043			
		99	910			9911						
Re	ported by:	-			16	Teleph	ono: (`				
		OFFICE	M F USF	M D	D	reiebii	one. t	<u>'</u>				
F	R. Unit Ptr 1 Str Ptr 2 Str Ptr 3 Str	Ptr 4 Str		OPS	SS	01	ADJ		Option	nal Use		
9921	. 9922 9923 9927 99	28	92	:3	9907		922	990	6	9916		
Response Respondent Mode Enum.								PC	POID			
1-Co 2-R 3-Ina	2-Sp 3-Fac ac 3-Acct/Bkpr	el ce-to-Fa	ce	9903	9998		9989					
4-Off	fice Hold 4-Partner 9-Other					•			Change			
							9900		9985			