

AGRICULTURAL RESOURCE MANAGEMENT SURVEY

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 Phase II



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RICE PRODUCTION PRACTICES AND COSTS REPORT FOR 2013

VERSION	ID	TRACT	SUBTRACT	C-TYPE
2	_____	01	_____	115

CONTACT RECORD		
DATE	TIME	NOTES

INTRODUCTION:
[Introduce yourself, and ask for the operator. Rephrase in your own words.]

We are collecting information on practices and costs to produce rice and need your help to make the information as accurate as possible. Authority for collection of information on the Rice Production Practices and Costs Report is Title 7, Section 2204 of the U.S. Code. This information will be used for economic analysis and to compile and publish estimates for your region and the United States. Under Title 7 of the U.S. Code and CIPSEA (Public Law 107-347), facts about your operation are kept **confidential** and used only for statistical purposes. Response is **voluntary**. You may skip any question(s) you prefer not to answer.

We encourage you to refer to your farm records during the interview.

BEGINNING TIME H H M M

[MILITARY] 0004

SCREENING BOX

0006

[Name, address and partners verified and updated if necessary]

POID _____	POID _____
PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER
POID _____	POID _____
PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER

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 65 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

A

RICE FIELD SELECTION

A

TOTAL PLANTED ACRES

0050 . ____

1. How many acres of rice did this operation plant for the 2013 crop year?

[If no acres planted, review Screening Survey Information Form, make notes, then go to item 4 on back page.]

2. I will follow a simple procedure to make a random selection from the rice fields planted for the 2013 crop.

TOTAL NUMBER OF FIELDS PLANTED

0020

What is the TOTAL number of rice fields that were planted on this operation?

[If only one field, enter "1" and go to item 5.]

3. Please list these fields according to identifying name/number or describe each field. Then I will tell you which field has been selected.

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

FIELD NAME, NUMBER OR DESCRIPTION

FIELD NAME, NUMBER OR DESCRIPTION

1 _____

10 _____

2 _____

11 _____

3 _____

12 _____

4 _____

13 _____

5 _____

14 _____

6 _____

15 _____

7 _____

16 _____

8 _____

17 _____

9 _____

18 _____

APPLY "RANDOM NUMBER" LABEL HERE

4. [ENUMERATOR ACTION: Circle the pair of numbers on the above label associated with the last numbered field in item 3. Select the field according to the number you circled on the label, and record the selected number. If only one field, enter 1.]

SELECTED FIELD
NUMBER

0021

5. The field selected is _____ (field name/number/description).

During this interview, the rice questions will be about this selected rice field.

[Be sure the operator can identify the selected field.]

OFFICE USE
OY Field Substituted

0022

B FIELD CHARACTERISTICS---SELECTED FIELD

B

1. How many acres of rice did this operation plant in this field for the 2013 crop? ACRES
1301

a. Are the acres in this field **CERTIFIED ORGANIC**? YES = 1 CODE
1300

[If YES, skip 1b and ask item 2.]

b. Was this field transitioning into organic rice production in 2013? YES = 1 CODE
1399

2. Were the acres in this field---
 1 owned by this operation?
 2 rented for CASH with the payment being a fixed cash amount?
 3 rented for CASH with the payment being a flexible cash amount?
 4 rented for a SHARE of the crop?
 5 rented for some combination of CASH and SHARE of the crop?
 6 used RENT FREE?
 CODE
1302

3. [If field is CASH RENTED (item 2 = 2, 3, or 5), ask item 3; else go to item 4.]
 What was the cash rent paid per acre for this 2013 rice field? DOLLARS & CENTS
PER ACRE
1303

4. [If field is SHARE RENTED (item 2 = 4 or 5), ask---]
 What was the landlord's share of the crop from this field? PERCENT
1304

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 2013 crop on the selected field? (Include the costs for all inputs, such as seed, fertilizer, chemicals, technical services, custom operations, drying, and irrigation. Exclude real estate tax expenses and lime costs paid by the landowner.) DOLLARS & CENTS
PER ACRE
1305 OR TOTAL DOLLARS
1306

6. **What was the total cost for all inputs provided by any contractor for the 2013 crop on the selected field?** (Include the costs for all inputs, such as seed, fertilizer, chemicals, technical services, custom operations, drying, and irrigation.) DOLLARS & CENTS
PER ACRE
1309 OR TOTAL DOLLARS
1310

7. What year did you (the operator listed on the label) start operating this field? YEARS
1312

8. On what date was this field planted? MM DD YY
1308

BUSHEL PER ACRE

a. What was your yield goal at planting for this field?

1311

CODE

9. What type of rice was planted in this field?

1	Long
2	Medium
3	Short

1324

CODE

10. Was the source of the rice seed---

1 Purchased?	1317
2 Homegrown or traded?	
3 Both?	

DOLLARS & CENTS PER BUSHEL

[If item 9 = 2 or 3, ask--]

a. What was the cost per bushel for cleaning and treating this seed?

1321	_____
------	-------

[If item 9 = 2 or 3, ask--]

b. How much of the rice seed planted in this field was grown (or received in trade) by this operation?

1318

PERCENT

UNIT CODE

- 1 = POUNDS
- 2 = CWT
- 3 = TONS
- 4 = BUSHEL
- 22 = ACRE
- 23 = 50 LB BAGS

DOLLARS & CENTS PER UNIT

11. [If any seed purchased (item 9 = 1 or 3), ask--]

What was the total cost per unit (including both your and the landlord's share) of purchased seed for this field? (Include cost of seed treatment.)

1319	_____	1320
------	-------	------

UNIT CODE for Seeding Rate

- 1 = Pounds/Acre
- 2 = CWT/Acre
- 4 = Bushels/Acre
- 25 = Seeds/Acre
- 38 = Seeds/Foot

UNITS

12. What was the seeding rate per acre the first time this field was planted?

1313	_____	1314
------	-------	------

a. What method of seeding did you use on this field?

1 Water seeded (airplane)?
2 Drilled (dry)?
3 Airplane (dry)?
4 Other, Broadcast (dry)?

CODE

1316

13. [If Drilled or Planted (item 9a = 1 or 2), ask--]

What was the average rice row width?

INCHES

1322

14. **How many acres in this field had to be replanted to rice?** 1315
(Acres replanted = Number of acres x Number of times replanted)

15. **Was a hybrid rice seed planted in this field?** **YES = 1** 1326

16. **Was a herbicide resistant rice seed (such as Clearfield) planted in this field?** **YES = 1** 1327

17. **If a genetically modified herbicide-resistant (such as glufosinate-tolerant) rice seed becomes available, how likely would you be to plant it in this field under the following conditions?**
[Assume total cost of seed includes technology fee.]

- 1 = Very likely to plant
- 2 = Somewhat likely to plant
- 3 = Uncertain
- 4 = Somewhat unlikely to plant
- 5 = Very unlikely to plant

a. seed cost does not increase.

1401

b. 10 percent seed cost increase.

1402

c. 20 percent seed cost increase.

1403

d. 30 percent seed cost increase.

1404

CODES

18. **If a genetically modified insect-resistant (such as Bt) rice seed becomes available, how likely would you be to plant it in this field under the following conditions?**
[Assume total cost of seed includes technology fee.]

- 1 = Very likely to plant
- 2 = Somewhat likely to plant
- 3 = Uncertain
- 4 = Somewhat unlikely to plant
- 5 = Very unlikely to plant

a. seed cost does not increase.

1405

b. 10 percent seed cost increase.

1406

c. 20 percent seed cost increase.

1407

d. 30 percent seed cost increase.

1408

CODES

19. **If a genetically modified nutritionally-enhanced, such as golden rice with beta-carotene (pro vitamin A) rice seed becomes commercially available, how likely would you be to plant it in this field if seed costs and rice yields were the same as conventional rice?**

- 1 = Very likely to plant
- 2 = Somewhat likely to plant
- 3 = Uncertain
- 4 = Somewhat unlikely to plant
- 5 = Very unlikely to plant

CODE

1328

20. Has harvest of this field been completed? YES = 1

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

How many acres in the rice field were (or will be)---	1		2
	ACRES	UNITS PER ACRE	UNIT CODE
a. harvested for grain?	1346 _____	1347 _____	1348
b. harvested for hay, silage or green chop?	1349 _____	1350 _____	TONS
c. harvested for commercial seed contract?	1431 _____	1432 _____	1433
d. abandoned?	1351 _____		
e. used for some other purpose?	1439 _____		

CROP CODE LIST for item 19 – PREVIOUSLY PLANTED CROPS				
190 Barley	3 Dry Beans	21 Rice	193 Tobacco, burley	
85 Canola	17 Dry Peas	22 Rye	196 Tobacco, flue cured	
310 Clover	311 Grasses other than clover	98 Safflower	42 Vegetables	
6 Corn for grain	1 Hay, alfalfa	25 Sorghum for grain	163 Wheat, durum	
5 Corn for silage	11 Hay, all other	24 Sorghum for silage	164 Wheat, other spring	
282 Cotton, Pima	94 Mustard Seed	26 Soybeans	165 Wheat, winter	
281 Cotton, Upland	15 Oats	28 Sugarbeets		
302 CRP	16 Peanuts	30 Sunflowers	318 No crop planted	
	20 Potatoes	31 Sweet Potatoes	during this period	

22. Next, I need to know what crops were previously PLANTED on the majority of this field, including cover crops.

1 What crops were PLANTED on this field in---			2 Was this field no-tilled? 1/ YES = 1
SEASON AND YEAR	CROP NAME	CROP CODE	
a. FALL of 2012?		1343	1345
b. SPRING/SUMMER of 2012?		1369	1371
c. FALL of 2011?		1372	1374
d. SPRING/SUMMER of 2011?		1375	1377
e. FALL of 2010?		1378	1380
f. SPRING/SUMMER of 2010?		1381	1383
g. FALL of 2009?		1366	1368
h. SPRING/SUMMER of 2009?		1340	1342

1/ Soil and previous crop residue left undisturbed from harvest to planting.

i. [If a cover crop was planted in Spring/Summer/Fall 2012, ask--]

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

DOLLARS & CENTS
PER ACRE

1468	_____
------	-------

23. In 2013, did your land-use practices for this field include any of the following---

1 LAND-USE PRACTICE	2 Was this practice used? YES = 1	3 What year was this practice first used? YEAR	4 Was (or will there be) an incentive or cost-share received from: 1 Environmental Quality Incentives Program (EQIP)? 2 Conservation Security or Conservation Stewardship Programs (CSP)? 3 Conservation Reserve Program (CRP)? 4 Any other Federal, State, Local or non-government source? CODE
a. Terraces.	1420	1441 _ _ _ _ _	1451
b. Grade stabilization structures.	1422	1442 _ _ _ _ _	1452
c. Grassed waterways.	1438	1443 _ _ _ _ _	1453
d. Structures for water control basins.	1424	1444 _ _ _ _ _	1454
e. Filter strips.	1426	1445 _ _ _ _ _	1455
f. Field borders.	1427	1446 _ _ _ _ _	1456
g. Riparian buffers (<i>i.e., grass buffers</i>).	1428	1447 _ _ _ _ _	1457
h. Contour farming and strip cropping.	1434	1448 _ _ _ _ _	1458
i. Conservation tillage / no-till.	1437	1449 _ _ _ _ _	1459

OFFICE USE

1440

24. Has the Natural Resource Conservation Service (NRCS) classified any part of this field as “Highly Erodible”? (Cropland identified as highly erodible is subject to highly erodible land conservation (HELC) requirements. Producers who receive farm program payments are required to have (and apply) a written soil conservation plan.)

(A “written plan” is a plan prepared in accordance with Federal, State, or district standards.) **YES = 1**

CODE

1404

25. Have you been notified by NRCS that this field contains a wetland? **YES = 1**

1405

26. During 2013, did any written plan of the following types cover this field---

(Include HELC plans and other written plans prepared in compliance with Federal, State, or local regulation.)

<p style="text-align: center;">1</p> <p style="text-align: center;">WRITTEN PLAN TYPE</p>	<p style="text-align: center;">2</p> <p style="text-align: center;">Was this type of written plan used?</p> <p style="text-align: center;">YES = 1</p>	<p style="text-align: center;">3</p> <p style="text-align: center;">What year was this plan implemented?</p> <p style="text-align: center;">YEAR</p>	<p style="text-align: center;">4</p> <p style="text-align: center;">For any practice that is part of this plan, was (or will there be) an incentive or cost-share payment received from:</p> <p>1 Environmental Quality Incentives Program (EQIP)?</p> <p>2 Conservation Security or Conservation Stewardship Programs (CSP)?</p> <p>3 Conservation Reserve Program (CRP)?</p> <p>4 Any other Federal, State, Local or non-government source?</p> <p style="text-align: center;">CODE</p>
<p>a. Conservation plan specifying practices to reduce soil erosion?</p>	<p>1408</p>	<p>1409</p> <p style="text-align: center;">_ _ _ _ _</p>	<p>1461</p>
<p>b. Comprehensive nutrient management plan specifying practices for applying both fertilizer and manure?</p>	<p>1410</p>	<p>1411</p> <p style="text-align: center;">_ _ _ _ _</p>	<p>1462</p>
<p>c. Nutrient management plan specifying practices for land application of manure only?</p>	<p>1412</p>	<p>1413</p> <p style="text-align: center;">_ _ _ _ _</p>	<p>1463</p>
<p>d. Pest management plan to implement Integrated Pest Management (IPM) practices to control weeds, insects, and/or plant diseases?</p>	<p>1414</p>	<p>1415</p> <p style="text-align: center;">_ _ _ _ _</p>	<p>1464</p>
<p>e. Irrigation water management plan specifying practices for applying or conserving irrigation water?</p>	<p>1416</p>	<p>1417</p> <p style="text-align: center;">_ _ _ _ _</p>	<p>1465</p>

27. **Is this field included in an existing conservation program contract for which you or the landlord have received (or expect to receive) cost sharing payments, stewardship payments, or incentive payments?** *[Be sure to consider grassed waterways and filter strips or riparian buffers, or drainage area, on or adjoining this field. Also, be sure to consider payments that are part of this contract but were made before 2013 or payments that are anticipated for future years].* **YES = 1**

CODE

1403

[If item 27 is YES, ask item 27a; else go to item 27b.]

a. Have you received (or will you receive) cost sharing or incentive payments from---

- | |
|--|
| 1 Environmental Quality Incentives Program (EQIP) |
| 2 Conservation Security or Conservation Stewardship Programs (CSP) |
| 3 Conservation Reserve Program (CRP) |
| 4 Other Federal, State, Local or non-government source |

CODE

1418

b. During the past four years, was this field included in an application that was rejected or has not yet been approved or funded under the---

- | |
|--|
| 1 Environmental Quality Incentives Program (EQIP) |
| 2 Conservation Security or Conservation Stewardship Programs (CSP) |
| 3 Conservation Reserve Program (CRP) |
| 4 Other Federal, State, Local or non-government source |

CODE

1419

28. **In applying for and participating in the conservation program you listed in item 27a or 27b, please indicate the approximate time you spent on the following activities:**

Hours

a. Learning about the program in general, on your own or at meetings?	1352
b. Planning or designing specific practices for your farm (on your own or in meetings with USDA staff, contractors, or others)?	1353
c. Collecting information (e.g. field characteristics, maps, soil test results) that was needed to fill out program application forms?	1354
d. Filling out the program application forms?	1355
e. If your offer was accepted, understanding and signing the contract? [Enter zero if offer was not accepted]	1356
f. If your offer was accepted, documenting compliance after the practices were installed or adopted? [Enter zero if offer was not accepted]	1357

29. If you did not apply for conservation program funding for this field in the past four years, what were your reasons?

	Agree	Neutral	Disagree	Code
a. I was not aware of USDA or other conservation programs.	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	1358
b. I am not aware of environmental problems (on this field.)	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	1359
c. Payments are not high enough	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	1360
d. Government standards make practices more expensive than they need to be to get the job done	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	1361
e. My offer would not have been accepted because the problems in this field are not national or state priorities	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	1362
f. The application process is too complicated and time -consuming	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	1363
g. Documenting compliance would be too complicated and time consuming).	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	1364

30. Were the rice in this field covered by Federal Crop Insurance in 2013?

YES – [Enter code 1 and continue] NO – [Go to item 31].

CODE

1385

a. Which coverage did you obtain?

- | |
|---|
| 1 Federal CAT (basic catastrophic insurance) |
| 2 Buy-up above Federal CAT yield and/or price level |
| 3 Revenue insurance |
| 4 Organic plan insurance |
| 5 Other Federal Crop insurance |

CODE

1386

(i) [If item a = 2, ask--]

What was your yield level of your buy-up coverage for this field?

What was your price level of your buy-up coverage for this field?

PERCENT

1387

1388

(ii) [If item a = 3, ask--]

What was the level of revenue coverage you obtained for this field? . .

1389

31. If you were to plant rice in this field again, would you choose a higher, lower, or equal level of coverage under the same Federal crop insurance plan type as you bought this year?

1 – Higher 2 – Lower 3 – Equal

CODE

1392

32. Were the rice in this field covered by private crop insurance in 2013 (hail, wind, freeze, etc.)?

YES – [Enter code 1 and continue] NO – [Go to Section C].

CODE

1393

a. What was the premium paid for private crop insurance for this field in 2013? (Exclude any sign-up fee).

DOLLARS & CENTS PER ACRE

OR

TOTAL DOLLARS

1395	_____
------	-------

1396

b. In what year did you (the operator listed on this label) first purchase private crop insurance for this field?

YEAR

1397	_____
------	-------

c. Did you (or will you) collect an indemnity payment for this field from private crop insurance during 2013? YES = 1

CODE

1394

C NUTRIENT or FERTILIZER APPLICATIONS---SELECTED FIELD

C

<p>1. Were commercial nutrients or fertilizers applied to this field for the 2013 rice crop?..... YES = 1</p> <p>2. <i>[If COMMERCIAL nutrient or fertilizer applied, continue; else go to item 7.]</i></p> <p>3. How many commercial nutrient or fertilizer applications were made to this field for the 2013 crop? <i>(Include applications made by airplanes and custom applicators.)</i>.....</p> <p>4. Now I need to record information for each application.</p>	<p>CODE</p> <p>0202</p>	<p>EDIT TABLE</p> <p>0200</p>
		<p>NUMBER</p> <p>0203</p>

CHECKLIST	
✓ INCLUDE	✓ EXCLUDE
<input type="checkbox"/> Custom applied nutrients or fertilizers <input type="checkbox"/> Nutrients or fertilizers applied in the fall of 2012 and those applied earlier if this field was fallow in 2012 <input type="checkbox"/> Commercially prepared manure or compost	<input type="checkbox"/> Micronutrients <input type="checkbox"/> Unprocessed manure <input type="checkbox"/> Nutrients or fertilizers applied to previous crops in this field <input type="checkbox"/> Lime and gypsum/landplaster

OFFICE USE	TABLE	0299
LINES IN	001	
TABLE		

APPLICATION CODES for COLUMN 6	
1 Broadcast, ground without incorporation	5 In irrigation water
2 Broadcast, ground with incorporation	6 Chisel/Injected or knifed in
3 Broadcast, by aircraft	7 Banded in or over row
4 In seed furrow	8 Foliar or directed spray

LINE	2 MATERIALS USED				3 What quantity was applied per acre?	4 [Enter material code.]	5 When was this applied?	6 How was this applied?	7 How many acres were treated in this application?
	[Enter percentage analysis or actual pounds of plant nutrients applied per acre.]								
	N Nitrogen	P ₂ O ₅ Phosphate	K ₂ O Potash	S Sulfur					
	[Show Common Nutrients or Fertilizers in Respondent Booklet.]					1 Pounds 12 Gallons 19 Pounds of actual nutrients	1 In the fall before seeding 2 In the spring before seeding 3 At seeding 4 After seeding	[Refer to code list above.]	ACRES
01	31	32	33	34	36	37	38	39	40
02	31	32	33	34	36	37	38	39	40
03	31	32	33	34	36	37	38	39	40
04	31	32	33	34	36	37	38	39	40
05	31	32	33	34	36	37	38	39	40
06	31	32	33	34	36	37	38	39	40
07	31	32	33	34	36	37	38	39	40
08	31	32	33	34	36	37	38	39	40

TABLE 000	LINE 00
---------------------	-------------------

5. Were any nutrients or fertilizers applied by custom applicators?

YES - [Continue] NO - [Go to item 6]

a. Are you able to report the cost of nutrient or fertilizer materials and custom application separately?

YES - [Continue] NO - [Go to item 6]

OFFICE USE

0215

b. Excluding the cost of the nutrient or fertilizer materials, how much was spent for custom application of nutrients or fertilizers on this field? (Include operator, landlord, and contractor costs. Include costs for sulfur and micronutrients. Exclude custom application of lime, gypsum, purchased manure and purchased compost.) [If material and application costs can't be separated, exclude them here and record the total in item 6].

DOLLARS & CENTS PER ACRE

0219

OR TOTAL DOLLARS

0220

6. What was the TOTAL COST of all nutrient or fertilizer products applied to this field?

(Include operator, landlord, and contractor costs as well as the costs for sulfur and micronutrients. [If custom applied and the cost of materials can be separated from application costs, include the cost of materials ONLY; otherwise, include both the material and application costs.] Include materials applied to this field if it was fallow in 2012. Exclude lime, gypsum, purchased manure and purchased compost.)

DOLLARS & CENTS PER ACRE

0221

OR TOTAL DOLLARS

0222

CODE

0218

7. Was gypsum applied to this field for the 2013 rice crop? YES = 1

8. Was a soil or plant tissue test performed on this rice field in 2012 or 2013 for the 2013 crop?

YES [Continue] NO [Go to item 13]

CODE

0225

9. Was a soil test for phosphorus performed on this rice field in 2012 or 2013 for the 2013 crop? YES = 1

a. [If phosphorus test done, ask--]

How many pounds of phosphorus (per acre) were recommended (by the phosphorus test)?

POUNDS PER ACRE

0226

CODE

0227

10. Was a soil test for nitrogen performed on this rice field in 2012 or 2013 for the 2013 crop? YES = 1

a. [If nitrogen test done, ask--]

How many pounds of nitrogen (per acre) were recommended (by the nitrogen test)?

POUNDS PER ACRE

0228

CODE

0229

11. Was a plant tissue test or leaf analysis for nutrient deficiency performed on this field for the 2013 crop? YES = 1

DOLLARS & CENTS PER ACRE

0230

OR TOTAL DOLLARS

0231

12. How much was spent for these soil and plant tissue tests on this field? (Include operator, landlord, and contractor costs.)

a. If tests were done at no cost, explain---

- 1 Soil/plant tissue test provided free of charge by dealer, crop consultant, or extension service
- 2 Soil/plant tissue test costs were included in the total fertilizer costs reported in item 6
- 3 Some other reason

CODE

0232

13. [ENUMERATOR ACTION: Refer to the Fertilizer Table, column 2. If nitrogen (N) was applied, complete item 14. If NO nitrogen applied, go to item 15.]

14. Was the amount of nitrogen you decided to apply to this field based on---

- a. Results of a soil or plant tissue test? YES = 1
- b. Crop consultant recommendation? YES = 1
- c. Fertilizer dealer recommendation? YES = 1
- d. Extension Service recommendation? YES = 1
- e. Cost of nitrogen and/or expected commodity price? YES = 1
- f. Contractor recommendation? YES = 1
- g. Routine practice (operator's own determination based on past experience, yield goal, etc.)? YES = 1

CODE

0233
0234
0235
0236
0237
0238
0239

CODE

0242

15. Is lime ever applied to this field? YES = 1

[If no lime applied, go to item 16; else continue.]

YEARS

a. On average, how many years are there between applications of **lime** to this field?

0243

TONS PER ACRE

b. How many tons of **lime** were applied per acre the last time it was applied to this field?

0244

CODE

c. Was lime applied to this field in 2012 or 2013 for the 2013 crop? YES = 1

0240

d. [If field is rented (Section B, item 2 = 2, 3, 4, or 5), ask--]

Considering the last time it was applied, what percent of the total cost of lime and its application was paid by the landlord(s)?

PERCENT

0245

16. Was non-commercial manure (from own farm, from a neighbor's farm, etc.) or other organic material (excluding compost) applied to this field for the 2013 rice crop? (Exclude commercially prepared manure.)

YES - [Enter code 1 and continue] NO - [Go to item 18]

CODE

0246

ACRES

a. How many acres in this field was manure applied to?

0247

b. What was the amount of manure applied to this field?

1 TONS
2 GALLONS
3 BUSHELS

CODE

0248

AND

UNITS PER ACRE

0249

OR

TOTAL UNITS

0250

c. What is the distance between the manure storage/production location and this field?

MILES
0251

d. What was the capacity of the manure spreader (or other vehicle) used to haul manure to this field?

1 TONS 2 GALLONS 3 BUSHELS	CODE	0252	AND	TOTAL UNITS	0253
----------------------------------	------	------	-----	-------------	------

e. Of the total manure applied to this field for the 2013 crop, what was the percent of manure applied---

PERCENT
0254
0255
0256
100%

(i) in the fall before planting? +

(ii) in the spring before planting? +

(iii) after planting? +

f. Was the manure---

1 Lagoon liquid? 2 Slurry liquid? 3 Semi-dry or dry?	CODE	0257
--	------	------

g. Was the manure---

1 Broadcast or sprayed <i>without</i> incorporation? 2 Broadcast or sprayed <i>with</i> incorporation? 3 Injected/knifed in? 4 Sprayed using irrigation systems?	CODE	0258
---	------	------

h. Was the major source of the manure from---

1 Beef cattle? 2 Dairy cattle? 3 Hogs? 4 Sheep? 5 Poultry? 6 Equine? 7 Biosolids (<i>municipal sludge</i>)? 8 Food waste? 9 Other? [<i>Specify: _____</i>]	CODE	0259
--	------	------

i. Was the manure---

1 Produced on this operation? 2 Purchased? 3 Obtained at no cost off this operation? 4 Obtained with compensation? (<i>Operator received payment for accepting the manure.</i>)	CODE	0260
--	------	------

(i) [*If item 16i = 2, ask---*]

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
0284		0285

What was the total cost of the purchased manure applied to this field? (*Include any payment made for transportation costs.*)

(ii) Did you hire someone to custom apply the manure? YES = 1 CODE
0286

(1) [If YES, ask--]

What was the total cost paid to have manure custom applied to this field? [Do not report custom application cost if it was included with the purchased manure cost.]

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
0287		0288

j. Of the manure applied to this field, was any tested for nutrient content prior to application? YES = 1 CODE
0261

k. Was the application rate of commercial nitrogen fertilizer on this field reduced due to manure application? YES = 1 0262

(i) [If YES, ask--]

By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?

PERCENT
0263

l. Did you adjust the rice harvest date for this field due to the application of manure? YES = 1 CODE
0280

17. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions? YES = 1 CODE
0264

a. [If item 17 is YES, ask--]

What basis was used to determine these manure application rate restrictions--

(i) Nitrogen requirement of the crop? YES = 1 CODE
0265

(ii) Phosphorus requirement of the crop? YES = 1 0266

18. Was compost applied to this field for the 2013 rice crop?
 YES - [Enter code 1 and continue] NO - [Go to item 19]. CODE
0267

a. To how many acres in this field was the compost applied? ACRES
0268

b. What was the amount of compost applied to this field? CODE
0269 AND UNITS PER ACRE OR
0270 TOTAL UNITS
0271

- 1 Tons
- 2 Cubic Yards

c. Were the major sources of the compost from---

- 1 Beef cattle?
- 2 Dairy cattle?
- 3 Hogs?
- 4 Sheep?
- 5 Poultry?
- 6 Equine?
- 7 Biosolids (municipal sludge)?
- 8 Food waste?
- 9 Crop? [Specify: _____]
- 10 Other? [Specify: _____]

[Enter up to 3 source codes]

FIRST
0281
SECOND
0282
THIRD
0283

d. Was the compost---

- | |
|---|
| 1 Produced on this operation? |
| 2 Purchased? |
| 3 Obtained at no cost off this operation? |
| 4 Obtained with compensation? (<i>Operator received payment for accepting the compost.</i>) |

CODE

0272

(i) [If item 18d = 2, ask--]

What was the total cost of the purchased compost applied to this field? (**Include** operator, landlord, and contractor costs and any payment made for transportation costs.)

DOLLARS & CENTS
PER ACRE

0273

OR TOTAL DOLLARS

0274

CODE

0275

(ii) Did you hire someone to custom apply the compost? YES = 1

(1) [If YES, ask--]

What was the total cost paid to have compost custom applied to this field? (**Include** operator, landlord, and contractor costs.) [Do not report custom application cost if it was included with the compost cost].

DOLLARS & CENTS
PER ACRE

0276

OR TOTAL DOLLARS

0277

MILES

0291

(iii) [If item 18d = 1, ask--]

What is the distance between the compost storage/production location and this field?

19. Compared to the last time you planted rice, did you make any of the following changes to your cropping practices with the intent of reducing commercial fertilizer use?

a change the type of commercial fertilizer products applied on this field [e.g. less anhydrous ammonia and more UAN] ? YES = 1

CODE

1226

b. manage fertilizer use more closely, with such practices as soil testing, split applications, variable rate applications, or soil incorporation on this field ? YES = 1

1228

c. change your crop rotation [e.g. plant rice on this field rather than usual crop rotation]? . YES = 1

1227

d. reduce the application of commercial nitrogen fertilizer ? YES = 1

1224

i. [If YES, ask--]

By what percent did you reduce the amount of commercial nitrogen fertilizer applied for 2013?

PERCENT

1225

D BIOCONTROL or PESTICIDE APPLICATIONS---SELECTED FIELD

D

Now I have some questions about all the biocontrols or pesticides used on this field for the 2013 rice crop, including both custom applications and applications made by this operation.

1. Were any herbicides, insecticides, fungicides or other biocontrols or pesticides used on this rice field for the 2013 crop?

	CODE	EDIT TABLE
YES = 1	0302	0300

[Probe for applications made in the fall of 2012 (and those made earlier if this field was fallow).]

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

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

CHEMICAL PRODUCT NAME	LINE	2	3	4	5	6 OR	7	8
		What products were applied to this field? <small>[Show product codes from Respondent Booklet.]</small>	Was this product bought in liquid or dry form? <small>[Enter L or D]</small>	Was this part of a tank mix? <small>[If tank mix, enter line number of first product in mix.]</small>	When was this applied? 1 BEFORE planting 3 AT planting 4 AFTER planting	How much was applied per acre per application?	What was the total amount applied per application in this field?	<small>[Enter unit code.]</small> 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 biocontrols or pesticides not listed in Respondent Booklet, specify---]

LINE	Pesticide Type <small>(Herbicide, Insecticide Fungicide, etc.)</small>	EPA No. or Trade name and Formulation	Form Purchased <small>(Liquid or Dry)</small>	Where Purchased <small>[Ask ONLY if EPA No. cannot be reported.]</small>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

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

- YES – [Continue]
- NO – [Go to item 4]

OFFICE USE

a. Are you able to report the cost of chemical, biocontrol, and pesticide products and custom application separately?

0324

- YES – [Continue]
- NO – [Go to item 4]

b. Excluding the cost of the chemical, biocontrol, and pesticide products, how much was spent for custom application of such materials on this field? (Include operator, landlord, and contractor costs).

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
0331		0332

4. What was the TOTAL COST of all chemical, biocontrol, or pesticide products applied to this field? (Include operator, landlord, and contractor costs, defoliant, herbicides, insecticides, fungicides, surfactants, wetting agents, growth regulators, and materials applied before planting and during 2012 fallow period. Exclude seed treatments).

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
0334		0335

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.

E PEST MANAGEMENT PRACTICES---SELECTED FIELD

E

Now I have some questions about your pest management decisions and practices used on this field for the 2013 rice crop. By pests, we mean WEEDS, INSECTS, and DISEASES.

1. [ENUMERATOR ACTION: Were PESTICIDE applications reported in Section D?]

- YES – [Continue]
- NO – [Go to item 8]

CODE

2. Was weather data used to assist in determining either the need or when to make pesticide applications? YES = 1

0800

3. Were any biological pesticides such as Bt (*Bacillus thuringiensis*), insect growth regulators, neem or other natural/biological based products sprayed or applied to manage pests in this field? YES = 1

0801

4. Were pesticides with different mechanisms of action rotated or tank mixed for the primary purpose of keeping pests from becoming resistant to pesticides? YES = 1

0802

5. [ENUMERATOR ACTION: Were HERBICIDE (pesticide product codes 40000-49999) applications reported in Section D, item 1, column 2?]

- YES – [Continue]
- NO – [Go to item 8]

6. Were herbicides applied to this rice field BEFORE weeds emerged? YES = 1

0803

7. Were herbicides applied to this rice field AFTER weeds emerged? YES = 1

0805

8. In 2013, how was this field primarily scouted for insects, weeds, diseases, and/or beneficial organisms?

- 1 By deliberately going to the field specifically for scouting activities [Enter code 1 and go to item 9.]
- 2 By conducting general observations while performing routine tasks [Enter code 2 and go to item 11.]
- 3 This field was not scouted. [Enter code 3 and go to item 16.]

CODE

0808

9. Was an established scouting process (systematic sampling, recording counts, etc.) used or were insect traps used in this field? YES = 1

0809

10. Was scouting for pests done in this field due to---

a. a pest advisory warning? YES = 1

0810

b. a pest development model? YES = 1

0811

1	2	3
	[If YES, ask---] What was the infestation level for [column 1] ?	[If column 1 is YES, ask---] Who did the majority of the scouting for [column 1] ?
	1 Worse than normal 2 Normal 3 Less than normal	1 Operator, partner or family member 2 An employee 3 Farm supply or chemical dealer 4 Independent crop consultant or commercial scout
YES = 1	CODE	CODE
11. Was this rice field scouted for---		
a. weeds?	0812	0813
b. insects or mites?	0815	0816
c. diseases?	0818	0819
		0814
		0817
		0820

[If scouted by crop consultant or commercial scout, ask item 12; else go to item 13.]

	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
12. How much was charged for the scouting services for this field? (Include operator, landlord, and contractor costs.)	0821		0822
a. [If scouting performed at no cost, explain: _____]			OFFICE USE 0333
			CODE
13. Were written or electronic records kept for this field to track the activity or numbers of weeds, insects or diseases? YES = 1			0823
14. Were scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests in this field? YES = 1			0824
15. Did you use field mapping of previous weed problems to assist you in making weed management decisions? YES = 1			0825

16. **Did you do any of the following other types of pest management for the specific purpose of managing or reducing the spread of pests in this field?** [Enter code "1" for all that apply.]

		CODE
a.	Use the services of a diagnostic laboratory for pest identification or soil plant tissue pest analysis for this field?	0841
	YES = 1	
b.	Plow down crop residue (<i>using conventional tillage</i>)?.	0842
	YES = 1	
c.	Remove / burn down crop residue?.	0843
	YES = 1	
d.	Rotate crops in this field during the past three years?.	0844
	YES = 1	
e.	Maintain ground covers, mulches, or other physical barriers?.	0845
	YES = 1	
f.	Choose crop variety because of specific resistance to a certain pest?.	0846
	YES = 1	
g.	Use no-till or minimum till?.	0847
	YES = 1	
h.	Plan planting locations to avoid cross infestation of pests?.	0848
	YES = 1	
i.	Adjust planting or harvesting dates?.	0849
	YES = 1	
j.	Chop, spray, mow, plow, or burn field edges, lanes, ditches, roadways, or fence lines?.	0850
	YES = 1	
k.	Clean equipment and field implements after completing field work to reduce the spread of pests?.	0851
	YES = 1	
l.	Adjust row spacing, plant density or row directions?.	0852
	YES = 1	
m.	Have the seed treated for insect or disease control after you purchased the seed for this field?.	0854
	YES = 1	
n.	Maintain a beneficial insect or vertebrate habitat?.	0855
	YES = 1	
o.	Maintain buffer strips or border rows to isolate organic rice from non-organic crops or land, or did you take a buffer harvest?.	0856
	YES = 1	
p.	Use a flamer to kill weeds?.	0857
	YES = 1	
q.	Plant earlier or later to avoid weeds?.	0865
	YES = 1	

17. **Were any beneficial organisms (*insects, nematodes, fungi*) applied or released in this field to manage pests?** YES = 1

CODE
0853

18. **Were floral lures, attractants, repellants, pheromone traps or other biological pest controls used on this field?** YES = 1

CODE
0858

a. [If item 17 or item 18 is YES, ask--]

What were the TOTAL materials and application costs for all biological pest controls for this field? (*Include operator, landlord, and contractor costs. Include cost for beneficial organisms (insects, nematodes, and fungi). Exclude biological pesticides previously reported.*)

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
0859 _____		0860

- | | | CODE |
|---|---------|-------------|
| 19. Was a trap crop (excluding fallow) grown to help manage insects in this field? | YES = 1 | 0863 |
| 20. Was this field left fallow in 2012 to help manage insects on this field? | YES = 1 | 0864 |
| 21. Were water management practices such as irrigation scheduling, controlled drainage, or treatment of retention water used on this field to manage pests or toxin-producing fungi and bacteria? | YES = 1 | 0861 |

PEST MANAGEMENT INFORMATION

22. [Show Pest Management Information Sources Code List from Respondent Booklet.]

Which outside sources of information on pest management practices and products were used for the 2013 rice crop?

PEST MANAGEMENT INFORMATION SOURCES CODE LIST

- 1 County, Cooperative, or University Extension Advisor, Publications or Demonstrations
- 2 Farm Supply or Chemical Dealer
- 3 Commercial Scouting Service
- 4 Independent Crop Consultant or Pest Control Advisor/Custom Applicator
- 5 Other Growers or Producers
- 6 Producer Associations, Newsletters or Trade Magazines
- 7 Electronic Information Services
(DTN, Internet, World Wide Web, etc.)
- 8 Employee Pest Advisor
- 9 Other – [Specify: _____]
- 10 None – Operator used no **outside** information source

		CODE
		0826

Completion Code for Pest Management Data	
1 Incomplete/Refusal	0500

F FIELD OPERATIONS---SELECTED FIELD

F

1. Including custom operations, I need to list field work performed by machines on this field for the 2013 rice crop. Please...

- ▶ begin with the first field operation after harvest of previous crop, including operations for a cover crop established since the previous crop harvested [if fallow during 2012, list operations starting with fall 2010];
- ▶ list the operations in order through harvest and hauling of this crop to storage or first point of sale; and
- ▶ maintain the order of tandem hook-ups.

CODES FOR COLUMN 5	OFFICE USE LINES IN TABLE
1 You (the Operator)	0499
2 Partner	
3 Unpaid Worker	
4 Paid Part-time or Seasonal Worker	
5 Paid Full-time Worker	
6 Custom Applicator	

CHECK LIST	
Include all field work using machines for---	
<input type="checkbox"/>	Land Forming/Levee Building
<input type="checkbox"/>	Tillage
<input type="checkbox"/>	Preparing for Irrigation
<input type="checkbox"/>	Planting
<input type="checkbox"/>	Fertilizer & Pesticide applications
<input type="checkbox"/>	Harvesting & Hauling to storage or first point of sale
Exclude	
<input type="checkbox"/>	Lime & Gypsum/landplaster applications
<input type="checkbox"/>	Non-Commercial Manure applications & Compost

LINE	SEQUENCE	2 No.	3 What operation or equipment was used?	4 [Record machine code from Respondent Booklet.] CODE	5 Who was the machine operator? [Enter code from above.] CODE	[IF CUSTOM (column 5 = code 6), skip columns 6-10]					
						6 What was the size or swath of the [machine] used?	7 [Record size unit code.] 1 Feet 2 Row 3 Moldboard (bottoms) Hauling 4 Pounds 5 Bushels 6 Tons CODE	8 How many acres were covered? [Exclude land forming and hauling operations] ACRES	OR 9 How many TOTAL HOURS were spent on land forming and hauling? [Example: backhoes, disk border maker, ditcher, rear mounted blade, trucks, wagons, forklifts, etc.] HOURS	10 Which Power Source was used? Tractors: 1=<40 HP 2=(40-99 HP) 3=(100-149 HP) 4=(150-199 HP) 5>(>=200 HP) Other: 66 Animal Drawn 77 Pick up 99 Self-Propelled 1/ CODE	11 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 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.

OFFICE USE

0400

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

Please report the paid and unpaid labor that worked on this field to produce the 2013 rice crop.

(**Exclude** labor that was reported for field work performed by machines.)

TYPE OF WORKERS	1 How many hours did (type of worker) spend on this field---		
	a.	b.	c.
	scouting for weeds, insects and diseases? HOURS	irrigating? HOURS	performing other work by hand? 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?**
 (**Exclude** custom and contract workers, payroll taxes and benefits.)

DOLLARS & CENTS PER HOUR

1119
. __ __

4. **What was the average hourly wage rate paid to full-time hired workers?**
 (**Exclude** custom and contract workers, payroll taxes and benefits.)

DOLLARS & CENTS PER HOUR

1118
. __ __

5. **Was any contract labor used on this field?** YES = 1

CODE

1116

a. [If YES, ask ---]
 What was the average cost per acre for this contract labor?
 (**Include** operator, landlord, and contractor costs.)

DOLLARS & CENTS PER ACRE

1117
. __ __

6. **What percent of the total number of unpaid hours worked on this 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.)

PERCENT

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 2013 rice crop.

1 CUSTOM SERVICE	2 Including operator, landlord, and contractor costs, how much was spent for [column 1] on this field for the 2013 rice crop?
Which of the following services were performed for the 2013 rice crop on this field?	DOLLARS & CENTS PER ACRE
✓ ← [Check box for each service performed; refer to item 3 if necessary.]	
<input type="checkbox"/> a. Custom laser leveling of land $\frac{\text{---}.\text{---}.\text{---}}{\text{(Cost per hour)}} \times \frac{\text{---}}{\text{Total hours}} = \frac{\text{---}}{\text{Total dollars}} \div \frac{\text{---}}{\text{Total acres in the field}} = \frac{\text{---}.\text{---}}{\text{Dollars \& cents per acre}} \dots$	1121 _____
<input type="checkbox"/> b. Other custom land preparation and/or shaping	1122 _____
<input type="checkbox"/> c. Custom planting and/or reseeding	1123 _____
<input type="checkbox"/> d. Custom harvesting	1124 _____
<input type="checkbox"/> e. Custom hauling to storage or point of first sale $\frac{\text{---}.\text{---}}{\text{(Dollars \& cents per unit)}} \times \frac{\text{---}}{\text{Total units hauled from field}} \div \frac{\text{---}}{\text{Acres harvested in field}} = \frac{\text{---}.\text{---}}{\text{Dollars \& cents per acre}} \dots$	1126 _____
<input type="checkbox"/> f. Custom harvesting and hauling from field to storage or point of first sale $\frac{\text{---}.\text{---}}{\text{(Dollars \& cents per unit)}} \times \frac{\text{---}}{\text{Total units hauled from field}} \div \frac{\text{---}}{\text{Acres harvested in field}} = \frac{\text{---}.\text{---}}{\text{Dollars \& cents per acre}} \dots$	1127 _____
<input type="checkbox"/> g. Custom raking, baling, and hauling the hay from this field $\frac{\text{---}.\text{---}}{\text{(Dollars \& cents per unit)}} \times \frac{\text{---}}{\text{Total units hauled from field}} \div \frac{\text{---}}{\text{Acres harvested in field}} = \frac{\text{---}.\text{---}}{\text{Dollars \& cents per acre}} \dots$	1128 _____

8. Is laser leveling ever performed on this field ?

- YES – [Continue] NO – [Go to item 10]

YEARS

a. On average, how many years are there between laser leveling operations performed on this field?.

9. **Did you hire any technical or consultant services to make recommendations (such as for nutrient, pest control, irrigation, or precision farming) for this field?**

YES – [Continue] **NO** – [Go to item 10]

Which of the following services did you obtain?

		CODE
a.	Nutrient recommendations/management service? YES = 1	1129
b.	Soil or tissue sample collection? YES = 1	1130
c.	Pest control recommendations/management service? YES = 1	1131
d.	Pest scouting? YES = 1	1132
e.	Irrigation management service (i.e. irrigation scheduling)? YES = 1	1133
f.	Yield map or remote sensing map development/interpretation? YES = 1	1134
g.	Other custom or technical service? [Specify: _____] YES = 1	1135

10. **If YES to any of these services, what was the cost for all of these services?** (Include operator, landlord, and contractor costs. Exclude cost of soil/tissue tests or scouting cost reported earlier. Do not report costs for any of these services if they were previously reported as part of the costs of materials and/or application.)

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
1136 _____		1137 _____

11. **Was there (or will there be) a yield monitor on the equipment used to harvest this rice field?** **YES = 1**

[If YES, continue; else go to item 11]

		CODE
a.	Was there (or will there be) a yield map produced from this harvest using information from the yield monitor? YES = 1	1138
b.	Did you use the yield monitor information to---	
(i)	monitor crop moisture content to determine need for crop drying? YES = 1	1139
(ii)	add/improve tile drainage? YES = 1	1140
(iii)	negotiate new crop leases? YES = 1	1141
(iv)	other uses [specify: _____] YES = 1	1144
		1147

12. **During 2012 or 2013, was a GPS (Global Positioning System) device used to produce a map of the soil properties (such as nitrate levels, PH, soil type, etc.) of this field? YES = 1** 1148

a. [If YES, ask---]

Was the information collected above based on---

- 1 soil tests from this field?
- 2 a machine that measured electrical conductivity of the soil in this field (e.g. Veris machine)?
- 3 other? [Specify: _____]

. 1149

13. **Did you have an airplane or satellite provide an image or photograph of this field either at the start or during the 2013 growing season? YES = 1** 1151

14. **Was a variable rate applicator used on this field for---** 1152

a. fertilization or lime application? YES = 1

b. seeding? YES = 1

c. pesticide applications? YES = 1

1158

1159

15. **Was a guidance or parallel swathing system (connected to GPS) used with any machine operation on this field (e.g. light bar)? YES = 1** 1150

1. How many acres in this field were irrigated for the 2013 rice crop?

[If none, go to Section 10].

ACRES

1160

2. Now, I have some questions about irrigation systems and water used on this field for the 2013 rice crop.

		UNIT	SYSTEM 1	SYSTEM 2
a. What type(s) of irrigation system(s) was (or were) used to irrigate this field? [Show System Type Codes in the Respondent Booklet. Enter System Type Code for up to two systems covering the most field acres].		SYSTEM TYPE CODE	1161	1175
b. What was the total quantity of water applied to this field during the entire growing season? (Include ALL water used from both on-farm and off-farm sources.)		INCHES PER ACRE	1162	1176
		OR TOTAL ACRE-FEET	1163	1177
[If operator cannot provide item 2b, ask (i) & (ii), else go to 2c]				
(i) What is the total number of hours this system was used to apply water to this field during the rice growing season?		TOTAL HOURS	1164	1178
(ii) How many gallons per minute were applied?		GALLONS PER MINUTE	1165	1179
c. What percent of the water used to irrigate this field through this system came from surface water sources?		PERCENT	1166	1180
d. What was the number of times this field was irrigated during the rice growing season using this system? (Include any pre-plant irrigation.)		NUMBER OF IRRIGATIONS	1167	1181
e. Was the pump type--- [If more than one pump in the system, enter type 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	1182
f. What was the average pumping rate?		GALLONS PER MINUTE	1169	1183
g. [If item 2a = code 1-9 (PRESSURE SYSTEM), ask---] What was the system operating pressure?		POUNDS PER SQUARE INCH	1170	1184
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	1185
i. What was the average motor size?		HORSEPOWER	1172	1186
j. [If NO PUMP was used (item 2e = 99), ask---] What was the average flow rate?		GALLONS PER MINUTE	1173	1187
k. How many other acres on this operation were irrigated using this field's irrigation system during the 2013 growing season? (Exclude this field.)		ACRES	1174	1188

3. What was the cost of the fuel or electricity used to irrigate this field?

(Include operator, landlord, and contractor costs.)

DOLLARS & CENTS PER ACRE

OR TOTAL DOLLARS

1189

1190

4. **Was any water purchased to irrigate this field?** *(Include landlord's share and purchases from all sources.)*
 YES – [Enter code 1 and continue.] **NO** – [Go to item 5].

CODE
1191

a. What percent of the water used on this field was purchased?

PERCENT
1192

b. What was the total cost for the water purchased for this field during the 2013 growing season? *(Include operator, landlord, and contractor costs and ditch maintenance costs for this field.)*

DOLLARS & CENTS PER ACRE **OR** **TOTAL DOLLARS**
1193 1194

5. *[If SIPHON TUBES were used (item 2a = 10 or 11), ask--]*
What would be the total cost to replace all the siphon tubes used on this field?

TOTAL DOLLARS
1201

6. *[If POLY PIPE system was used (item 2a = 14) ask--]*
What was the total amount spent for poly pipe used on this field during the 2013 growing season? *(Include operator, landlord, and contractor costs.)*

TOTAL DOLLARS
1202

7. *[If GATED PIPE system was used (item 2a = 15 or 16), ask--]*

a. What was the average diameter of gated pipe used to irrigate this field?

INCHES
1203

b. What was the total length of gated pipe used?

FEET
1204

8. **Were wells used to supply irrigation water for this field?**
 YES – [Enter code 1 and continue] **NO** – [Go to item 9].

CODE
1205

a. How many wells were used to irrigate this field?

NUMBER
1206

b. What was the average diameter of the outer well casing?

INCHES
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.]

FEET
1208

d. Did the well(s) have a water meter or other flow measurement device? **YES = 1**

CODE
1209

e. Were other fields irrigated using water pumped from wells that supplied water to the selected field?
 YES – [Enter code 1 and continue] **NO** – [Go to item 9].

CODE
1210

f. Excluding this field, how many other acres on this operation were irrigated using the same wells during the 2013 growing season?

ACRES
1211

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

- YES – [Continue]
- NO – [Go to Section H]

a. What was the average diameter (in inches) of the most common type of this additional pipe used?

INCHES

1212

b. How many feet of this additional pipe were used to bring water to this field?

FEET

1213

10. Did you reduce the water applied to this field in 2013 due to reduced availability of water supplies?

YES = 1

CODE

1215

13. If this field was flood irrigated using a gravity system, which water-management approach was used?

WATER MANAGEMENT CODES

- 1 Permanent flooding?
- 2 Pinpoint flooding?
- 3 Delayed flooding?
- 4 Intermittent, controlled, or alternate wetting and drying (AWD) irrigation?
- 5 Furrow, or raised bed irrigation?

CODE

1215

NOTES

CONCLUSION

LOCATION OF SELECTED FIELD

1. I need to locate the selected field of rice on this map.

COUNTY NAME

OFFICE USE
COUNTY FIPS CODE

What county is the selected rice field in?

0010

Field description

FOR STATES WITH GPS UNITS ONLY

Field location

N

LATITUDE

0054
____ . ____ . ____ <small>d d m m s s</small>

W

LONGITUDE

0055
____ . ____ . ____ <small>d d d m m s s</small>

2. [ENUMERATOR ACTION: *Mark map to indicate where the selected rice field is located. Be sure the "X" marked on map is in the county identified above.*]

3. We will need additional information to complete this study. We will contact you in February or March 2014 to collect it. I'll call you then to set up a time that is good for you.

4. 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?

YES = 1

CODE

0099

HH MM

0005

5. ENDING TIME [MILITARY]

RECORDS USE

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

a. [fertilizer data?]

b. [pesticide data?]

c. [majority of this expense data?]

CODE

0011

0012

0013

NUMBER

0041

FERTILIZER
APPLICATIONS

PESTICIDE
APPLICATIONS

FIELD
OPERATIONS

0042

0043

SUPPLEMENTS USED

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

Reported by: _____ Telephone: (____) _____

Office Use												
Response		Respondent		Mode		Enum	Eval.	R. Unit	Date	Optional		
1-Comp	9901	1- Op/Mgr	9902	2-Tel 3-Face-to-Face	9903	0098	0100	0921	9910	0002	0003	
2-R		2-Sp										
3-Inac		3-Acct/Bkpr 4-Partner 9-Other								13		
M M D D												
S/E Name												