



# AGRICULTURAL RESOURCE MANAGEMENT SURVEY



OMB No. 0535-0218  
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 Phase II



NATIONAL  
 AGRICULTURAL  
 STATISTICS  
 SERVICE



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## RICE PRODUCTION PRACTICES AND COSTS REPORT FOR 2013

VERSION <b>9</b>	ID _____	TRACT <b>01</b>	SUBTRACT _____	C-TYPE <b>115</b>
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### 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.

H H M M

**BEGINNING TIME**  
 [MILITARY]

0004 _____
---------------

SCREENING BOX

0006
------

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

<b>POID</b> _____	<b>POID</b> _____
PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER
<b>POID</b> _____	<b>POID</b> _____
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 number 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

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].* .....

TOTAL PLANTED ACRES

0050	_____
------	-------

a. Of the total (item 1) acres, how many were planted with the intention of harvesting--

(i) Long grain? .....

(ii) Medium grain? .....

(iii) Short grain? .....

TOTAL ACRES

0051
0052
0053

NUMBER OF FIELDS

0056
+
0057
+
0058
+

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

2. **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].* .....

TOTAL NUMBER OF FIELDS PLANTED

0020
------

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.]





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 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** OR **TOTAL DOLLARS**  
1305  
                  . \_\_\_ 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** OR **TOTAL DOLLARS**  
1309  
                  . \_\_\_ 1310

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

**YEAR**  
1312  
\_\_\_\_

8. On what date was this field planted? .....

**MM DD YY**  
1308  
\_\_\_\_

a. What was your yield goal at planting for this field? (Include any ratoon crop). .....

**UNITS PER ACRE**  
0216  
                  . \_\_\_ 0217

- 1=POUNDS
- 2=CWT
- 3-TONS
- 4-BUSHELS
- 5-BARRELS



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

- 1 Long?
- 2 Medium?
- 3 Short?

CODE

1324

10. What was the source of the rice seed? . . . . .

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

CODE

1317

[If item 10 = 2 or 3, ask--]

DOLLARS & CENTS PER POUND

1321

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

[If item 10 = 2 or 3, ask--]

PERCENT

1318

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

11. [If any seed purchased (item 10 = 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.)

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

DOLLARS & CENTS PER UNIT

1319

1320

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

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

UNITS

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

ACRES

1315

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

CODE

1326

14. Was a hybrid rice seed planted in this field? YES = 1

1327

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

CODE

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

16. If a genetically modified, herbicide-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.]

1501
1502
1503
1504

- a. seed cost does not increase.
b. 10 percent seed cost increase.
c. 20 percent seed cost increase.
d. 30 percent seed cost increase.

CODE

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

17. 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.]

1505
1506
1507
1508

- a. seed cost does not increase.
b. 10 percent seed cost increase.
c. 20 percent seed cost increase.
d. 30 percent seed cost increase.

CODE

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

18. 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?

1421

CODE

1328

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

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

How many acres in this rice field were (or will be)---	1		2
	ACRES	UNITS PER ACRE	UNIT 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 .____		

Notes:

- 1 Pounds
- 2 CWT
- 3 Tons
- 4 Bushels

**CROP CODE LIST for item 21 – 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 <b>No crop planted</b> during this period
	20 Potatoes	31 Sweet Potatoes	

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

1			2
What crops were PLANTED on this field in---			Was this field no-tilled? 1/
SEASON AND YEAR	CROP NAME	CROP CODE	YES = 1
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

<sup>1/</sup> 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	_____	_____
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22. 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.e., grass buffers). ....	1428	1447 _ _ _ _ _	1457
h. Contour farming and strip cropping. ....	1434	1448 _ _ _ _ _	1458
i. Conservation tillage/no-till. ....	1437	1449 _ _ _ _ _	1459

OFFICE USE

1440
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23. **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**

<b>CODE</b>
1404

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

1405
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25. **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.)*

1  <b>WRITTEN PLAN TYPE</b>	2  <b>Was this type of written plan used?</b>  <b>YES = 1</b>	3  <b>What year was this plan implemented?</b>  <b>YEAR</b>	4  <b>For any practice that is part of this plan, was (or will there be) an incentive or cost-share payment received from:</b>  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?  <b>CODE</b>
a. Conservation plan specifying practices to reduce soil erosion? . . . . .	1408	1409 ____ _	1461
b. Comprehensive nutrient management plan specifying practices for applying both fertilizer and manure? . . . . .	1410	1411 ____ _	1462
c. Nutrient management plan specifying practices for land application of manure only? . . . . .	1412	1413 ____ _	1463
d. Pest management plan to implement Integrated Pest Management (IPM) practices to control weeds, insects, and/or plant diseases? . . . . .	1414	1415 ____ _	1464
e. Irrigation water management plan specifying practices for applying or conserving irrigation water? . . . . .	1416	1417 ____ _	1465

26. **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 26 is YES, ask item 26a; else go to item 26b.]*

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 4 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             |

1419
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27. **In applying for and participating in the conservation program you listed in item 26a or 26b, please indicate the approximate time you spent on the following activities:**

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

HOURS
1352
1353
1354
1355
1356
1357

28. 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

29. Was 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

b. [If item a = 2, ask--]

PERCENT

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

1387

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

1388

c. [If item a = 3, ask--]

PERCENT

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

1389

30. 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 time?

CODE

1 - Higher

2 – Lower

3 - Equal.....

1392

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

CODE

1393

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

DOLLARS & CENTS  
PER ACRE

OR TOTAL DOLLARS

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

1395 .\_\_ \_\_

1396

YEAR

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

1397

CODE

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

1394

1. Were commercial nutrients or fertilizers applied to this field for the 2013 rice crop? ..... YES = 1 [If COMMERCIAL nutrient or fertilizer applied, continue; else go to item 6.]	CODE	EDIT TABLE
	0202	0200

2. How many commercial nutrient or fertilizer applications were made to this field for the 2013 crop? (Include applications made by airplanes and custom applicators.) .....	NUMBER
	0203

3. Now I need to record information for each application.

CHECKLIST	
INCLUDE	EXCLUDE
<input type="checkbox"/> Custom applied nutrients and 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 Lines in Table	TABLE 001	0299
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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 <sub>2</sub> O <sub>5</sub> Phosphate	K <sub>2</sub> O Potash	S Sulfur					
	[Show Common Nutrients or Fertilizers in Respondent Booklet.]								
									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
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4. Were any nutrients or fertilizers applied by custom applicators?

- YES - [Continue]                       NO - [Go to item 5]

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

- YES - [Continue]                       NO - [Go to item 5]

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

5. 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 material 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

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

7. 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 12.]

CODE

0225

8. 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

9. 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

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

0229

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

DOLLARS & CENTS PER ACRE

0230

OR TOTAL DOLLARS

0231

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 5.
- 3 Some other reason

CODE

0232

[ENUMERATOR ACTION: Refer to the Fertilizer Table, column 2. If nitrogen (N) was applied, complete item 12. If NO nitrogen applied, go to item 13.]

12. 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

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

[If no lime applied, go to item 14; else continue.]

- a. On average, how many years are there between applications of **lime** to this field? .....
- b. How many tons of **lime** were applied per acre the last time it was applied to this field? .....
- c. Was lime applied to this field in 2012 or 2013 for the 2013 crop? ..... YES = 1
- d. [If field is rented (Section B, item 2 = 2, 3, 4, or 5), ask---

CODE
0242

YEARS
0243

TONS PER ACRE
0244

CODE
0240

PERCENT
0245

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

14. 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 16]. .....

CODE
0246

ACRES
0247

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

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

1 Tons
2 Gallons
3 Bushels

CODE	UNITS PER ACRE	OR	TOTAL UNITS
0248	AND	0249	0250



		<b>MILES</b>	
c. What is the distance between the manure storage/production location and this field? . . . . .		0251	. ____
	1 Tons 2 Gallons 3 Bushels	<b>CODE</b>	<b>TOTAL UNITS</b>
d. What was the capacity of the manure spreader (or other vehicle) used to haul manure to this field? . . . . .		0252	AND 0253 ____
e. Of the total manure applied to this field for the 2013 crop, what was the percent of manure applied---			<b>PERCENT</b>
(i) in the fall before planting? . . . . .			0254
(ii) in the spring before planting? . . . . .			0255
(iii) after planting? . . . . .			0256
			<b>100%</b>
		<b>CODE</b>	
f. Was the manure---	1 Lagoon liquid? 2 Slurry liquid? 3 Semi-dry or dry?		0257
	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?	<b>CODE</b>	
g. Was the manure---			0258
	1 Beef cattle? 2 Dairy cattle? 3 Hogs? 4 Sheep? 5 Poultry? 6 Equine? 7 Biosolids ( <i>municipal sludge</i> )? 8 Food waste? 9 Other? [ <i>Specify: _____</i> ]	<b>CODE</b>	
h. Was the major source of the manure from---			0259
	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> )	<b>CODE</b>	
i. Was the manure---			0260
(i) [ <i>If item 14i = 2, ask---</i> ]		<b>DOLLARS &amp; CENTS PER ACRE</b>	<b>OR TOTAL DOLLARS</b>
What was the total cost of the purchased manure applied to this field? ( <i>Include any payment made for transportation costs.</i> ) . . . . .		0284	0285
			<b>CODE</b>
(ii) Did you hire someone to custom apply the manure? . . . . .			0286
			<b>YES = 1</b>
(a) [ <i>If YES, ask---</i> ]		<b>DOLLARS &amp; CENTS PER ACRE</b>	<b>OR TOTAL DOLLARS</b>
What was the total cost paid to have manure custom applied to this field? [ <i>Do not report custom application cost if it was included with the purchased manure cost.</i> ] . . . . .		0287	0288
			<b>CODE</b>
j. Of the manure applied to this field, was any tested for nutrient content prior to application? . . . . .			0261
			<b>YES = 1</b>

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

(i) [If YES, ask--]  
By what percent did you reduce the commercial nitrogen fertilizer application rate on this field? .....

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

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

a. [If item 14 is YES, ask--]  
What basis was used to determine these manure application rate restrictions--

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

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

16. Was compost applied to this field for the 2013 rice crop?  
 YES - [Enter code 1 and continue]       NO - [Go to item 17]. .....

a. How many acres in this field was the compost applied? .....

b. What was the amount of compost applied to this field? .....  Tons OR  Cubic Yards AND  UNITS PER ACRE OR TOTAL UNITS

[Enter up to 3 source codes]

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

1 Beef cattle?	<input type="text" value="0281"/>
2 Dairy cattle?	
3 Hogs?	
4 Sheep?	
5 Poultry?	
6 Equine?	<input type="text" value="0282"/>
7 Biosolids (municipal sludge)?	
8 Food waste?	
9 Crop? [Specify: _____]	<input type="text" value="0283"/>
10 Other? [Specify: _____]	

d. Was the compost---

1 Produced on this operation?	
2 Purchased?	
3 Obtained at no cost off this operation?	
4 Obtained with compensation? (Operator received payment for accepting the compost.)	<input type="text" value="0272"/>

(i) [If item 16d = 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

(a) [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

(iii) [If item 16d = 1, ask--]

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

0291

17. 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?

CODE

- a. Change the type of commercial fertilizer products applied on this field [e.g. less anhydrous ammonia and more urea]. YES=1
- 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
- c. Change your crop rotation [e.g. plant rice on this field rather than usual crop rotation]? YES=1
- d. Reduce the application of commercial nitrogen fertilizer? YES=1

1226

1228

1227

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.

CODE EDIT TABLE

0302	0300
------	------

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

[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.**

<p><b>Include</b> defoliant, fungicides, herbicides, insecticides, and other pesticides.</p> <p><b>Include</b> biological and botanical pesticides.</p>	<p><b>Exclude</b> nutrients or fertilizers reported earlier and seed treatments.</p>
---	--

OFFICE USE LINES IN TABLE	TABLE 001	0399
------------------------------	--------------	------

CHEMICAL PRODUCT NAME	L I N E	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, defoliants, 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.



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.

ENUMERATOR ACTION: Were PESTICIDE applications reported in Section D?

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

- |   |         | CODE |
|---|---------|------|
| 1. Was weather data used to assist in determining either the need or when to make pesticide applications? .....   | YES = 1 | 0800 |
| 2. Were any biological pesticides such as Bt ( <i>Bacillus thuringiensis</i> ), insect growth regulators, neem or other natural/biological based products sprayed or applied to manage pests in this field? ..... | YES = 1 | 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? .....  | YES = 1 | 0802 |

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

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

- |   |         |      |
|---|---------|------|
| 4. Were herbicides applied to this rice field BEFORE weeds emerged? ..... | YES = 1 | 0803 |
| 5. Were herbicides applied to this rice field AFTER weeds emerged? .....  | YES = 1 | 0805 |

6. 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 7.]
- 2 By conducting general observations while performing routine tasks [Enter code 2 and go to item 9.]
- 3 This field was not scouted. [Enter code 3 and go to item 14.]

CODE

0808
------

7. Was an established scouting process (systematic sampling, recording counts, etc.) used or were insect traps used in this field? .....	YES = 1	0809
--	---------	------

8. 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 = 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
9. Was this rice field scouted for--		CODE	CODE
	YES = 1		
a. Weeds?.....	0812	0813	0814
b. Insects or mites?.....	0815	0816	0817
c. Diseases?.....	0818	0819	0820

[If scouted by crop consultant or commercial scout, ask item 10; else go to item 11.]

10. How much was charged for the scouting services for this field? [Include operator, landlord and contractor cost.].....

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
0821		0822
		OFFICE USE
a. [If scouting performed at no cost, explain:.....]		0333

	CODE
11. Were written or electronic records kept for this field to track the activity or numbers of weeds, insects or diseases?.....	0823
12. Were scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests in this field?.....	0824
13. Did you use field mapping of previous weed problems to assist you in making weed management decisions?.....	0825



14. **Did you do any of the following other type(s) of pest management practices 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	
15.	<b>Were any beneficial organisms (insects, nematodes, fungi) applied or released in this field to manage pests? . . . . .</b>	0853
	YES = 1	
16.	<b>Were floral lures, attractants, repellants, pheromone traps or other biological pest controls used on this field? . . . . .</b>	0858
	YES = 1	

a. [If item 15 or item 16 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
------

17. Was a trap crop (excluding fallow) grown to help manage insects in this field? . . . . . YES = 1 CODE  
0863
18. Was this field left in fallow in 2012 to help manage insects on this field? . . . . . YES = 1 0864
19. 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
20. Did you use any non-chemical controls for blackbirds on this rice field? . . . . . YES = 1 1260
- a. [If YES, ask--]

**What was the cost of all non-chemical blackbird control used on this field in 2013? Include guns, shotgun shells, propane, etc. . . . .**

	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
	1261		1262

**PEST MANAGEMENT INFORMATION**

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

**Which is the most important outside source of information on pest management practices and products 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

22. Did pests (weeds, insects, diseases, animals) cause any yield loss on this field in spite of your pest control efforts? . . . . . YES = 1 CODE  
0827

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 2011];
- ▶ 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	
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

CHECK LIST	
<b>Include</b> 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
<b>Exclude</b>	
<input type="checkbox"/>	Lime & Gypsum/landplaster applications
<input type="checkbox"/>	Non-Commercial Manure applications & Compost

LINE No.	2 SEQUENCE 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 6-11]					
					6 What was the size or swath of the [machine] used? CODE	7 [Record size unit code.] CODE	8 How many acres were covered? [Exclude land forming and hauling operations] ACRES	9 OR 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? <sup>1/</sup> 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

<sup>1/</sup> 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. scouting for weeds, insects and diseases?  HOURS	b. irrigating?  HOURS	c. 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 ( <b>Exclude</b> custom and contract labor)	1110	1111	1112
Paid full-time workers ( <b>Exclude</b> 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	2
CUSTOM SERVICE	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 1 if necessary.]	
<input type="checkbox"/> a. Custom laser leveling of land $\frac{\text{---} \cdot \text{---}}{\text{---}} \times \text{---} = \text{---} \div \text{---} = \text{---} \cdot \text{---}$ (Cost per hour X Total hours = Total dollars ÷ Total acres in the field = Dollars & cents per acre) . . .	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 $\frac{\text{---} \cdot \text{---}}{\text{---}} \times \text{---} \div \text{---} = \text{---} \cdot \text{---}$ (Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre) . .	1126 _____
<input type="checkbox"/> f. Custom harvesting and hauling from field to storage or point of first sale $\frac{\text{---} \cdot \text{---}}{\text{---}} \times \text{---} \div \text{---} = \text{---} \cdot \text{---}$ (Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre) . .	1127 _____

8. Is laser leveling ever performed on this field?

- YES – [Continue]       NO – [Go to item 9]

YEARS

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

1142
------

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 11]

Which of the following services did you obtain?

Table with 3 columns: Service description, YES = 1, and CODE. Rows include Nutrient recommendations, Soil or tissue sample collection, Pest control, Pest scouting, Irrigation management, Yield map, and Other custom or technical service.

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.)

Table with 2 columns: DOLLARS & CENTS PER ACRE and TOTAL DOLLARS. Includes input boxes for values 1136 and 1137.

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

[If YES, continue; else go to item 12]

Table with 3 columns: Question description, YES = 1, and CODE. Rows include yield map produced, and various uses of yield monitor information.

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---

a. fertilization or lime application? . . . . . YES = 1

1152

b. seeding? . . . . . YES = 1

1158

c. pesticide applications? . . . . . YES = 1

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

# IRRIGATION

G

G

ACRES

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

[If none, go to **Conclusion**]. . . . .

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 <b>System Type Codes</b> in the Respondent Booklet. Enter <b>System Type Code</b> 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? ( <b>Include ALL</b> 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 <b>total</b> number of <b>hours</b> 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? ( <b>Include any pre-plant irrigation</b> .) . . . . .		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? ( <b>Exclude this field</b> .) . . . . .		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

PERCENT

1192

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

DOLLARS & CENTS PER ACRE

1193

OR TOTAL DOLLARS

1194

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.)

TOTAL DOLLARS

1201

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

1202

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.)

INCHES

1203

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

FEET

1204

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

CODE

1205

8. Were wells used to supply irrigation water for this field?

YES - [Enter code 1 and continue]  NO - [Go to item 9].

NUMBER

1206

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

INCHES

1207

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

FEET

1208

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.]

CODE

1209

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

CODE

1210

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].

ACRES

1211

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

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 item 10]

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. Is the run-off from this field-- .....

**RUN-OFF CODES**

- 1 retained at the end of the field?
- 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.

**CODE**

1214

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

YES = 1

**CODE**

1215

12. 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**

1216



---

**Notes:**



# CONCLUSION

H

H

## LOCATION OF SELECTED FIELD

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

COUNTY NAME

OFFICE USE  
COUNTY FIPS CODE

2. What county is the selected rice field in? .....

Field description .....

## FOR STATES WITH GPS UNITS ONLY

LATITUDE

LONGITUDE

Field location .....

N

  
d d m m s s

W

  
d d d m m s s

3. [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.*]

4. 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.

5. To receive the complete results of this survey on the release date, go to [www.nass.usda.gov/results/](http://www.nass.usda.gov/results/). Would you rather have a brief summary mailed to you at a later date? .....

YES = 1

CODE

HH MM

6. ENDING TIME [MILITARY] .....

## RECORDS USE

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

a. [fertilizer data?] .....

YES = 1

b. [pesticide data?] .....

YES = 1

c. [majority of this expense data?] .....

YES = 1

CODE

  
  

## SUPPLEMENTS USED

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

FERTILIZER APPLICATIONS

PESTICIDE APPLICATIONS

FIELD OPERATIONS

Reported by: \_\_\_\_\_

  
  
M M D D

9911 Telephone: (\_\_\_\_) \_\_\_\_\_

### Office Use

Response	Respondent	Mode	Enum	Eval	R. Unit	Change	Optional Use						
1 - Comp	9901	1 - Op/Mgr	9902	2 - Tel	9903	0098	0100	0921	0785	0002	0003	9906	9916
2 - R		2 - Sp		3 - Face-to-Face									
3 - Inac		3 - Acct/Bkpr											
4 - Office Hold		4 - Partner											
		9 - Other											

S/E Name