

AGRICULTURAL RESOURCE MANAGEMENT SURVEY

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 Phase II



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OAT PRODUCTION PRACTICES AND COSTS REPORT FOR 2015

VERSION 12	ID _____	TRACT 01	SUBTRACT __	C-TYPE 110
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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 used to produce oats and need your help to make the information as accurate as possible. The information you provide will be used for statistical purposes only. In accordance with the Confidential Information Protection provisions of Title V, Subtitle A, Public Law 107-347 and other applicable Federal laws, your responses will be kept confidential and will not be disclosed in identifiable form to anyone other than employees or agents. By law, every employee and agent has taken an oath and is subject to a jail term, a fine, or both if he or she willfully discloses ANY identifiable information about you or your operation. Response is voluntary.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0535-0218. The time required to complete this information collection is estimated to average 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.

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

H H M M

BEGINNING TIME [MILITARY]

SCREENING BOX

[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

A

OAT FIELD SELECTION

A

TOTAL PLANTED
ACRES

0050

1. How many acres of oats for grain did this operation plant for the 2015 crop year?

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

I will follow a simple procedure to make a random selection from the oat fields planted for the 2015 crop.

TOTAL NUMBER OF
FIELDS PLANTED

0020

2. What is the TOTAL number of oat 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 _____
- 2 _____
- 3 _____
- 4 _____
- 5 _____
- 6 _____
- 7 _____
- 8 _____
- 9 _____

- 10 _____
- 11 _____
- 12 _____
- 13 _____
- 14 _____
- 15 _____
- 16 _____
- 17 _____
- 18 _____

‘Apply Random Operation Label’

**SELECTED FIELD
NUMBER**

0021

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.*]

5. **The field selected is _____** *(field name/number/description).*
During this interview, the oat questions will be about this selected oat field.
[Be sure the operator can identify the selected field.]

6. **For the randomly selected field above, please provide the Farm Service Agency (FSA):**

a. Farm Number.

b. Tract Number.

c. Field Number.

B

FIELD CHARACTERISTICS---SELECTED FIELD

B

1. How many acres of oats did this operation plant in this field for the 2015 crop?

ACRES
1301
CODE

a. Are the acres in this field CERTIFIED ORGANIC? YES=1
[If YES, skip 1b and ask item 2]

1300

b. Was this field transitioning into organic oat production in 2015? YES=1

1399

CODE

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?

1302

[If field is CASH RENTED (item 2 = 2, 3 or 5), ask item 3, else go to item 4.]

3. What was the cash rent paid per acre for this 2015 oat field?

DOLLARS & CENTS PER ACRE
1303

[If field is SHARE RENTED (item 2 = 4 or 5), ask--]

PERCENT

1304

4. What was the landlord's share of the crop from this field?

[If field is RENTED (item 2 = 2, 3, 4, or 5), ask--]

5. What was the total cost for all inputs provided by any landlord for the 2015 crop on the selected field? (Include the costs for all inputs, such as seed, fertilizer, chemicals, technical services, custom operations, 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 2015 crop on the selected field? (Include the costs for all inputs, such as seed, fertilizer, chemicals, technical services, custom operations, and irrigation.)

DOLLARS & CENTS PER ACRE OR TOTAL DOLLARS
1309 1310

YEAR

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

1312

MM DD YY

8. On what date was this field planted?

1308

a. When planted, was this oat field planted with the intention of -- (Include oats planted for commercial seed contract under other uses.)

- 1 Dual purpose (grain and grazing)?
2 Harvesting for grain only?
3 Grazing only?
4 Cover crop?
5 Seed?
6 Other uses --- specify _____

CODE
3117

[If 8a = 1 or 2 ask--]

CODE

b. Was this field planted primarily for---

- 1 Feed?
2 Milling?

3111

[If 8a = 1 or 2 ask--]

BUSHEL PER ACRE

c. What was your expected yield when planting this field?

1311

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

9. Was the source of the oat seed--

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

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

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

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

DOLLARS & CENTS PER BUSHEL

1321

PERCENT

1318

UNIT CODES

- 1 = POUND
- 2 = CWT
- 3 = TON
- 4 = BUSHEL
- 22 = ACRE
- 23 = 50 LB BAG

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

10. 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)

DOLLARS & CENTS PER UNIT

1319	1320
------	------

UNIT CODES

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

UNITS

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

1313	3131
------	------

ACRES

12. How many acres in this field had to be replanted to oats? (Number of acres times the number of times replanted)

1315

CODE

13. Has harvest of this field been completed?

1328

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

		1	2
		What yield per acre did you (or do you expect to get) for oats —	UNIT CODES 1= Pounds 2= CWT 3= Tons 4= Bushels
How many acres in the oat field were (will be)--	ACRES	UNITS PER ACRE	UNIT CODES
a. harvested for grain?	1346	1347	1348
b. harvested for hay, silage, or green chop?	1332	1333	TONS
c. harvested for commercial seed contract?	1431	1432	1433
d. abandoned?	1351		
e. used for some other purpose?	1439		

15. Was straw harvested from this field?

YES - [Enter code 1 and continue.]

NO - [Go to item 17.]

CODE

3140

ACRES

1521

16. How many acres of oat straw were harvested from this field?

a. How many tons of oat straw were harvested from these acres?

TOTAL TONS

1522

$\frac{\text{Total Tons}}{\text{Acres}} = \text{Tons per Acre}$
 OR
 $\frac{\text{Bales}}{\text{Acres}} \times \frac{\text{Lbs per Bale}}{2000} = \text{Tons per Acre}$

PERCENT OR

TONS

b. Of the total oat straw harvested from this field (item 16a), what was the landlord's share of the oat straw?

1523

1524

TOTAL DOLLARS

c. What was the total cost of baler twine/wire used to bale the oat straw from this field? (Include landlord's share.)

1525

[If any oat straw was sold, ask--]

d. What was the price received per ton for all oat straw (item 16a) sold from this field?

DOLLARS & CENTS PER TON

1526

17. What type of livestock grazed this oat field BEFORE harvest?

- 1 Cattle
- 2 Sheep
- 3 Other, specify _____
- 4 Livestock did NOT graze this oat field -Go to item 18.

CODE

3147

HEAD

3148

DAYS

3149

a. Regardless of ownership, about how many head of (livestock, item 17) grazed this 2015 oat crop?

b. How many days did these livestock graze on this 2015 oat crop?

[If livestock NOT owned by this operator grazed on this field, ask--]

DOLLARS & CENTS PER ACRE

OR

TOTAL DOLLARS

c. What is the total dollar amount received from others for livestock grazing on this field? (Include landlord's share.)

3150

3151

CROP CODE LIST for item 18 – 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 during this period
	20 Potatoes	31 Sweet Potatoes	

18. Please report 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 a cover crop?	3 How did you manage this crop?	4 Was this field irrigated?	5 Was this field no-tilled or strip-tilled? 1/
SEASON AND YEAR	CROP NAME	CROP CODE	YES = 1	CODE	YES = 1	YES = 1
a. FALL of 2014?		1343	1470	1471	2344	1345
b. SPRING/SUMMER of 2014?		1369	1472	1473	2370	1371
c. FALL of 2013?		1372	1474	1475	2373	1374
d. SPRING/SUMMER of 2013?		1375	1476	1477	2376	1377
e. FALL of 2012?		1378	1478	1479	2379	1380
f. SPRING/SUMMER of 2012?		1381	1480	1481	2382	1383
g. FALL of 2011?		1366	1482	1483	2367	1368
h. SPRING/SUMMER of 2011?		1340	1484	1485	2341	1342

^{1/} No-till means leaving soil and previous crop residue undisturbed from harvest to planting. Strip-till means tilling a narrow strip over the row, leaving soil and previous crop residue between the rows undisturbed.

i. Did you use a cover crop in conjunction with the 2015 oat crop on this field?	YES = 1	<p style="text-align: center;">CODE</p> <div style="border: 1px solid black; padding: 2px; text-align: center;">1401</div>
<i>[If item 18a is YES, continue; else go to item 19]</i>		
(i) What year was the cover crop planted?		<p style="text-align: center;">YEAR</p> <div style="border: 1px solid black; padding: 2px; text-align: center;">1466</div>
(ii) In what season was the cover crop planted?	<div style="border: 1px solid black; padding: 2px;"> 1 Spring/Summer 2 Fall </div>	<p style="text-align: center;">CODE</p> <div style="border: 1px solid black; padding: 2px; text-align: center;">1467</div>
<i>[If a cover crop was planted in Spring/Summer/Fall 2014, ask--]</i>		
j. What was the seed cost per acre for the cover crop?		<p style="text-align: center;">DOLLARS & CENTS PER ACRE</p> <div style="border: 1px solid black; padding: 2px; text-align: center;">1468</div>

19. Which of the following conservation practices or plans are used on this field?

1 CONSERVATION PRACTICES or PLANS	2 Was this practice or plan used in 2015 YES = 1	3 For 2011- 2015, how many years was this practice or plan used? NUMBER	4 Have you ever received at any time--		5 Does this practice or plan help satisfy? CODE
			Technical or planning assistance? 1 USDA 2 Private technical service provider funded by USDA 3 Soil Conservation District or State Agency 4 Other Source 5 Self-funded (hired provider) 6 No technical assistance needed CODE	Financial assistance? 1 Environmental Quality Incentives Program (EQIP)? 2 Conservation Reserve Program (CRP)? 3 Conservation Stewardship Programs (CSP)? 4 Other Federal, State, local program CODE	
a. Conservation tillage [include no-till/direct seeding, mulch till, and ridge till].	706	716	726	736	746
b. Cover crops [include grasses, legumes, forbs, or other herbaceous plants for seasonal cover and conservation].	707	717	727	737	747
c. Structural practices to conserve soil? [include grass waterways, terraces, grade stabilization, contour buffer strips, etc.].	708	718	728	738	748
d. Nitrogen application practices? [include splitting nitrogen applications 50% after crop emergence, applying nutrients 30 days prior to planting precision application of nutrients, or using controlled release fertilizer].	709	719	729	739	749
e. Conservation plan specifying practices to reduce soil erosion?	702	712	722	732	742
f. Nutrient management plan specifying practices for fertilizer/manure application?	703	713	723	733	743
g. Pest management plan to implement Integrated Pest Management (IPM) to control weeds, insects, or disease?	704	714	724	734	744
h. Irrigation water management plan specifying irrigation practices?	705	715	725	735	745

20. Is this field included in an existing conservation program contract through any of the following programs for which you or the landlord have received (or expect to receive) cost sharing payments, stewardship payments, or incentive payments?

PROGRAM	1 1/ YES = 1	2 How many practices or practice enhancements are included in the contract? NUMBER	3 Does the contract include livestock related practices? YES = 1	4 During the past 4 years, was this field included in an application that was rejected or has not yet been funded? YES = 1
a. Environmental Quality Incentive Program (EQIP)	2236	2237	2238	2239
b. Conservation Security or Conservation Stewardship Programs (CSP)	2240	2241	2242	2243
c. Conservation Reserve Program (CRP)	2244	2245	2246	2247
d. Other Federal, State, Local or non-government source	2248	2249	2250	2251

^{1/} [Include conservation program contracts that provide assistance for grass waterways, filter strips, riparian buffers, or similar practices on or adjoining this field.]

[In item 20 if you answered yes = 1 in column 1 or column 4 for any program continue, else go to item 23.]

21. In applying for the Conservation Program you listed in item 20, did you:

	YES = 1	How much time was spent on your behalf? [Include the number of hours spent with your plus the number of hours spent on your behalf.] HOURS	What was the cost of the consultation? DOLLARS & CENTS
a. Hire a consultant to help prepare the application?	2252	2253	2254
b. Receive assistance free of charge? [Include assistance received from USDA, and extension agent, an environmental organization, or a farm organization.]	2255	2256	

22. In applying for and participating in the conservation program you listed in item 20, 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

23. **Did you apply for conservation funding (through any Federal, State, or local program) for this field in the last four years?**

YES = 1

[If item 23 = 1, go to item 25.]

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

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	CODE
a. I was not aware of USDA or other conservation programs.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	2358
b. I am not aware of environmental problems (on this field).	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	2359
c. Payments are not high enough.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	2360
d. Government standards make practices more expensive than they need to be to get the job done.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	2361
e. My offer would not have been accepted because my farm is not eligible or my fields would not have ranked high enough.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	2362
f. The application process is too complicated and time consuming.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	2363
g. Documenting compliance would be too complicated and time consuming.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	2364

25. **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.)

CODE
1404
YES = 1

26. **Have you been notified by NRCS that this field contains a wetland?**

YES = 1

27. **What is the slope of this field?**

- 1 Nearly level (0 - 2%)
- 2 Even, moderate grade (3 - 9%)
- 3 Variable, moderate grade
- 4 Even, steep grade (over 10%)
- 5 Variable, steep grade

CODE
2400

28. **What is the primary soil type of this field?**

- 1 Loam
- 2 Clay
- 3 Sandy
- 4 Mixed

CODE
2401

29. **Did the land use practices for this field include subsurface drainage?**

CODE
2402
YES = 1

[If YES, ask--]

a. What year was the subsurface drainage installed?

YEAR
2403

CUBIC FEET PER SECOND

OR

INCHES OF WATER REMOVED PER DAY

2404

2405

b. What is the capacity of your system?

c. Does this system include a mechanism for controlled drainage (e.g. stop logs, risers, or float mechanisms)?

YES = 1

2406

30. Which of the following resource concerns do you have on this field?

RESOURCE CONCERNS	CODE YES = 1	Have you received technical assistance from any of the following sources to evaluate this resource concern? (Report up to 3 sources that you received assistance from.)		
		Source 1	Source 2	Source 3
a. Water-driven erosion.	2407	2417	2427	2437
b. Wind-driven erosion.	2408	2418	2428	2438
c. Soil compaction.	2409	2419	2429	2439
d. Poor drainage.	2410	2420	2430	2440
e. Low organic matter.	2411	2421	2431	2441
f. Water quality.	2412	2422	2432	2442
g. Other concerns.	2413	2423	2433	2443
h. No significant concerns.	2414	2424	2434	2444

31. Were the oats in this field covered by Federal Crop Insurance in 2015?

CODE

YES – [Enter code 1 and continue.] NO – [Enter code 3 and go to Section C.]

1385

a. Which coverage did you obtain?

- 1 Federal CAT (basic catastrophic insurance)
- 2 APH – buy up above federal CAT yield and/or
- 3 Other Federal Crop insurance

CODE

2386

C NUTRIENT or FERTILIZER APPLICATIONS---SELECTED FIELD

C

<p>1. Were commercial nutrients or fertilizers applied to this field for the 2015 oat crop? (Include those from operators, landlords, and contractors.) YES = 1 [If COMMERCIAL nutrient or fertilizer applied, continue; else go to item 6.]</p>	<p>CODE</p> <p>0202</p>	<p>EDIT TABLE</p> <p>0200</p>
<p>2. How many commercial nutrient or fertilizer applications were made to this field for the 2015 crop? (Include applications made by airplanes and custom applicators.)</p>	<p>NUMBER</p> <p>0203</p>	

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

CHECKLIST	
<p><input checked="" type="checkbox"/> INCLUDE</p> <p><input type="checkbox"/> Custom applied nutrients and fertilizers</p> <p><input type="checkbox"/> Nutrients or fertilizers applied in the fall of 2014 and those applied earlier if this field was fallow in 2014.</p> <p><input type="checkbox"/> Commercially prepared manure or compost</p>	<p><input checked="" type="checkbox"/> EXCLUDE</p> <p><input type="checkbox"/> Micronutrients</p> <p><input type="checkbox"/> Unprocessed manure</p> <p><input type="checkbox"/> Nutrients or fertilizers applied to previous crops in this field</p> <p><input type="checkbox"/> Lime and Gypsum/landplaster</p>

Office Use Lines in Table	TABLE 001	0299
----------------------------------	------------------	------

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

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

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 2014. 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 2015 oat crop? YES = 1

7. Was a soil or plant tissue test performed on this oat field in 2014 or 2015 for the 2015 crop?

YES [Continue.] NO [Go to item 13.]

CODE

8. Was a soil test for phosphorus performed on this oat field in 2014 or 2015 for the 2015 crop? YES = 1

0225

[If item 8 = 1, ask--]

POUNDS PER ACRE

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

0226

CODE

9. Was a soil test for nitrogen performed on this oat field in 2014 or 2015 for the 2015 crop? YES = 1

0227

[If item 9 = 1, ask--]

POUNDS PER ACRE

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

0228

CODE

10. Was a soil test for soil organic matter performed on this oat field at some point in the last 10 years? YES = 1

3225

[If item 10 = 1, ask--]

PERCENT

a. What was the percentage of soil organic matter on the field for the most recent test?

3226

NUMBER

b. How many times have you tested this field for soil organic matter in the last ten years?

3227

[If item 10b is more than 1 ask--]

CODE

c. Based on these tests, is your soil organic matter content:

- 1 Increasing
- 2 Decreasing
- 3 Staying roughly the same

3228

11. Was a plant tissue test or leaf analysis for nutrient deficiency performed on this field in 2014 or 2015 for the 2015 crop? YES = 1

12. How much was spent for these soil and plant tissue tests on this field? [*Include landlord and contractor costs.*]

	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
	0230		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

b. Did you receive a payment from the Conservation Stewardship Program for performing a stalk or leaf tissue test for Nitrogen application? YES = 1

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

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

		CODE
a. Results of a soil or plant tissue test? YES = 1		0233
b. Crop consultant recommendation? YES = 1		0234
c. Fertilizer dealer recommendation? YES = 1		0235
d. Extension Service recommendation? YES = 1		0236
e. Cost of nitrogen and/or expected commodity price? YES = 1		0237
f. Contractor recommendation? YES = 1		0238
g. Routine practice (<i>operator's own determination based on past experience, yield goal, etc.</i>)? YES = 1		0239

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

[If no lime applied, go to item 15; else continue.]

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

	CODE
	0243

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

	TONS PER ACRE
	0244

c. Was **lime** applied to this field in 2014 or 2015 for the 2015 crop? YES = 1

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

d. 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

15. 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 2015 oat crop? (Exclude commercially prepared manure.)

YES - [Enter code 1 and continue] NO - [Go to item 17].

CODE
0246

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

ACRES
0247

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

1 Tons
2 Gallons
3 Bushels

CODE
0248

AND

UNITS PER ACRE OR
0249

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 2015 crop, what was the percent of manure applied---

(i) in the fall before planting?

+

PERCENT
0254

(ii) in the spring before planting?

+

0255

(iii) after planting?

+

0256

100%

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 without incorporation?
2 Broadcast or sprayed with 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 (municipal sludge)?
8 Food waste?
9 Other? [Specify: _____]

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? (*Operator received payment for accepting the manure.*)

CODE

0260

[If item 15i = 2, ask---]

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

DOLLARS & CENTS PER ACRE

0284

OR TOTAL DOLLARS

0285

CODE

0286

(ii) Did you hire someone to custom apply the manure?

YES = 1

[If YES, ask---]

(a) 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

0287

OR TOTAL DOLLARS

0288

CODE

0261

j. Was any manure that was applied to this field tested for nutrient content prior to application?

YES = 1

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

YES = 1

0262

[If YES, ask---]

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

PERCENT

0263

CODE

0280

l. Did you adjust the oat harvest date for this field due to the application of manure?

YES = 1

CODE

0264

16. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?

YES = 1

[If item 16 is YES, ask---]

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

CODE

(i) Nitrogen requirement of the crop?

YES = 1

0265

(ii) Phosphorus requirement of the crop?

YES = 1

0266

CODE

0267

17. Was compost applied to this field for the 2015 oat crop?

YES - [Enter code 1 and continue]

NO - [Go to item 18].

a. 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
0270 OR TOTAL UNITS
0271

c. Were the major sources of the compost from--- [Enter up to 3 source codes]

1 Beef cattle? 2 Dairy cattle? 3 Hogs? 4 Sheep? 5 Poultry? 6 Equine? 7 Biosolids (<i>municipal sludge</i>)? 8 Food waste? 9 Crop? [<i>Specify: _____</i>] 10 Other? [<i>Specify: _____</i>]	FIRST 0281
	SECOND 0282
	THIRD 0283

d. Was the compost--- CODE
0272

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
---	--------------

[If item 16d = 2, ask---]

(i) 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

(ii) Did you hire someone to custom apply the compost? YES = 1 CODE
0275

[If YES, ask---]

(a) 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

[If item 16d = 1, ask--]

(iii) What is the distance between the compost storage/production location and this field? MILES
0291

18. Compared to the last time you planted oats, 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	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 oats on this field rather than usual crop rotation]?	YES=1	1227
d. Reduce the application of commercial nitrogen fertilizer?	YES=1	1224

[If YES, ask--]

PERCENT

(i) By what percent did you reduce the amount of commercial nitrogen fertilizer applied for 2015?	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 2015 oat 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 oat field for the 2015 crop? YES = 1

[Probe for applications in the fall of 2014 (and those made earlier if this field was fallow).]

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

<p>Include defoliant, fungicides, herbicides, insecticides, and other pesticides.</p> <p>Include biological and botanical pesticides.</p>	<p>Exclude 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 5 DEFOLIATION prior to harvest	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>

NOTES:

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 2014 fallow period. Exclude seed treatments.)

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
0334 _____		0335

a. How much was spent for herbicide products applied to this field? (Include operator, landlord, and contractor costs.)

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
3034 _____		3035

b. How much was spent for insecticide products applied to this field? (Include operator, landlord, and contractor costs.)

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
3036 _____		3037

NOTE 1: If respondent cannot report TOTAL COST, itemize cost for each product in optional columns in Biocontrol or Pesticide Table.

NOTE 2: If custom applied and the costs for materials can be separated from application costs, include the cost for materials only. Otherwise, report both the material and application costs in item 4.

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 2015 oat 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 oat field BEFORE weeds emerged? | YES = 1 | 0803 |
| 5. Were herbicides applied to this oat field AFTER weeds emerged? | YES = 1 | 0805 |

6. In 2015, 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? [Exclude traps checked as part of either BWEP or PBWP].

YES = 1

0809

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

- | | | |
|------------------------------------|---------|--|
| a. a pest advisory warning? | YES = 1 | |
| b. a pest development model? | YES = 1 | |

CODE

0810
0811

1	2	3
	[If YES, ask---] What was the infestation level for [column 1]?— 1 Worse than normal 2 Normal 3 Less than normal	[If column 1 = YES, ask---] Who did the majority of the scouting for [column 1]? 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 oat field scouted for--	YES = 1	CODE
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 10; else go to item 11.]

	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
10. How much was charged for the scouting services for this field? [Include operator, landlord and contractor cost.].....	0821		0822
a. [If scouting performed at no cost, explain:_____]			OFFICE USE 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 oats 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.	Were any beneficial organisms (insects, nematodes, fungi) applied or released in this field to manage pests?	0853
	YES = 1	
16.	Were floral lures, attractants, repellants, pheromone traps or other biological pest controls used on this field?	0858
	YES = 1	

[If item 15 or item 16 is YES, ask--]

a. **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

17. **Was a trap crop (*excluding fallow*) grown to help manage insects in this field?** YES = 1

0863

CODE

18. **Was this field left in fallow in 2014 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

CODE

0861

Completion Code for
Pest Management Data

1 – Incomplete/Refusal	500
------------------------	-----

F FIELD OPERATIONS--SELECTED FIELD

F

1. Including custom operations, I need to list field work performed by machines on this field for the 2015 oat 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 2014, list operations starting with fall 2013];
- ▶ 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	
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 oats & oats straw to storage or first point of sale
Exclude	
<input type="checkbox"/>	Lime & Gypsum/landplaster applications
<input type="checkbox"/>	Non-Commercial Manure applications & Compost

LINE No.	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.] 1 Feet 2 Row 3 Moldboard (bottoms) Hauling 4 Pounds 5 Bushels 6 Tons 7 Bales 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 or hauling? [Example: backhoes, disk border maker, ditcher, rear mounted blade, trucks, wagons, forklifts, etc.] HOURS	10 Which Power Source was used? ^{1/} Tractors: 1= (<40 HP) 2= (40-99 HP) 3= (100-149 HP) 4= (150-199 HP) 5= (>=200 HP) Other: 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 2015 oat crop.
 (**Exclude** labor that was reported for field work performed by machines.)

TYPE OF WORKERS	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

[If YES, ask ---]

a. **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 2015 oat crop.

1 CUSTOM SERVICE	2 Including operator, landlord, and contractor costs, how much was spent for [column 1] on this field for the 2015 oat crop? DOLLARS & CENTS PER ACRE
✓ ← [Check box for each service performed; refer to item 1 if necessary.]	
<input type="checkbox"/> a. Custom land preparation, shaping and/or leveling? $\frac{\text{---.---}}{\text{(Cost per hour)}} \times \frac{\text{---}}{\text{x Total hours}} \div \frac{\text{---}}{\text{Total acres in field}} = \frac{\text{---.---}}{\text{Dollars \& cents per acre}} \dots$	1121 .---
<input type="checkbox"/> b. Custom cultivating.	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? $\frac{\text{---.---}}{\text{(Dollars \& cents per unit)}} \times \frac{\text{---}}{\text{x Total units hauled from field}} \div \frac{\text{---}}{\text{Acres harvested in field}} = \frac{\text{---.---}}{\text{Dollars \& cents per acre}} \dots$	1126 .---
<input type="checkbox"/> f. Custom harvesting and hauling from field to storage or point of first sale? $\frac{\text{---.---}}{\text{(Dollars \& cents per unit)}} \times \frac{\text{---}}{\text{x Total units hauled from field}} \div \frac{\text{---}}{\text{Acres harvested in field}} = \frac{\text{---.---}}{\text{Dollars \& cents per acre}} \dots$	1127 .---
<input type="checkbox"/> g. Custom raking, baling, and hauling the straw from this field? $\frac{\text{---.---}}{\text{(Dollars \& cents per unit)}} \times \frac{\text{---}}{\text{x Total units hauled from field}} \div \frac{\text{---}}{\text{Acres harvested in field}} = \frac{\text{---.---}}{\text{Dollars \& cents per acre}} \dots$	1128 .---

8. 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?	1129
b. Soil or tissue sample collection?	1130
c. Pest control recommendations/management service?	1131
d. Pest scouting?	1132
e. Irrigation management service (i.e. irrigation scheduling)?	1133
f. Yield map or remote sensing map development/interpretation?	1134
g. Other custom or technical service? [Specify: _____]	1135

9. 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 ---

CODE

10. **Were there (or will there be) any data collection tools (yield monitors, GPS mapping, etc.) used during field operations on this oat field?** YES = 1

2460

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

Please report the data collection technologies you used on this field to produce this crop. Also indicate if the data is collected with Global Positioning System (GPS) coordinates and if the data will be used to create a map.

Data Collection Tool	1 Tool Used YES = 1	2 Collected with GPS YES = 1	3 Data was/will be mapped to create a map Yes = 1
a. Yield monitor.	2461	2462	2463
b. Soil tests on core sample (performed on-farm or sent out to a laboratory).	2464	2465	2466
c. Soil sensor tests.	2467	2468	2469
d. Hard-wired crop condition sensors.	2470	2471	2472
e. Wireless crop condition sensors.	2473	2474	2475
f. Drones, aircraft or satellites.	2476	2477	2478
g. Custom service applications (data from completed work on your field).	2479	2480	2481
h. Public data downloaded from online sources.	2482	2483	2484

11. **Please report how your farm data will be stored and accessed.** [Enter code "1" for all that apply.]

a. Did you access the data collected from this field on a--

CODE

(i) Paper hard copy? YES = 1

2485

(ii) Personal computer? YES = 1

2486

(iii) Mobile device? YES = 1

2487

b. Did you access the data collected from this field through an agricultural technology provider website? YES = 1

2488

[If item 11b = 1 continue, otherwise go to item 12]

c. Did you opt-out of your agricultural technology provider website sharing data collected from this field with any third party? YES = 1

2489

d. Did you share any of the data collected from this field with a third party through an agricultural technology provider website? YES = 1

2490

12. **Did you obtain crop management recommendations (data interpretation) based on that data you collected from** [Enter code "1" for all that apply.]

a. Input dealers? YES = 1

2491

b. Integrated input providers? YES = 1

2492

c. Custom service providers? YES = 1

2493

d. USDA/University extension services? YES = 1

2494

13. Did you use the yield monitor information to---

(i) monitor crop moisture content to determine need for crop drying?	YES = 1	1140
(ii) add/improve tile drainage?	YES = 1	1141
(iii) negotiate new crop leases?	YES = 1	1144
(iv) other uses [specify:] _____	YES = 1	1147

14. Was any of the following GPS-enabled (Global Positioning System) equipment used to produce crops on this field? [Enter code "1" for all that apply.]

		CODE
a. Guidance auto-steering (excluding Light Bar)?	YES = 1	1148
b. Light Bar?	YES = 1	1149
c. Variable rate application for seeding?	YES = 1	1158
d. Variable rate application for fertilizer/lime?	YES = 1	1152
e. Variable rate application for pesticide applications?	YES = 1	1159
f. "Smart" technologies like Google Glass or other head-up cab control displays?	YES = 1	1150
g. Other GPS-enabled equipment?	YES = 1	1151

ACRES

1. How many acres in this field were irrigated for the 2015 oat crop?

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

1160

2. Now, I have some questions about irrigation systems and water used on this field for the 2015 oat 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.) [If operator cannot provide item 2b, ask (i) & (ii), else go to 2c]	INCHES PER ACRE	1162	1176
	OR TOTAL ACRE-FEET	1163	1177
(i) What is the total number of hours this system was used to apply water to this field during the oat 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 oat 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.]	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?	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 2015 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 was the total cost for the water purchased for this field during the 2015 growing season? (Include operator, landlord, and contractor costs and ditch maintenance costs for this field.)

DOLLARS & CENTS PER ACRE

1193

OR TOTAL DOLLARS

1194

[If SIPHON TUBES were used (item 2a = 10 or 11), ask--]

TOTAL DOLLARS

1201

5. What would be the total cost to replace all the siphon tubes used on this field?

[If POLY PIPE system was used (item 2a = 14) ask--]

TOTAL DOLLARS

1202

6. What was the total amount spent for poly pipe used on this field during the 2015 growing season? (Include operator, landlord, and contractor costs.)

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

INCHES

1203

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

FEET

1204

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

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

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

CODE

1205

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

c. What was the average pumping depth of these wells during the irrigation season? [Pumping depth is the depth to water at the start of the irrigation season, plus an average decline in the water level caused by pumping during the irrigation season.]

1208

d. 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

ACRES

e. Excluding this field, how many other acres on this operation were irrigated using the same wells during the 2015 growing season?

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 Conclusion]

INCHES

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

1212

FEET

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

1213

NOTES:

CONCLUSION

LOCATION OF SELECTED FIELD

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

2. What county is the selected oat field in?

COUNTY NAME

OFFICE USE
COUNTY FIPS CODE

0010

Field description

FOR STATES WITH GPS UNITS ONLY

Field location

N

LATITUDE

0054

d d m m s s

W

LONGITUDE

0055

d d d m m s s

3. [ENUMERATOR ACTION: *Mark map to indicate where the selected oat 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 2016 to collect it. I'll call you then to set up a time that is good for you.

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

YES = 1

CODE

9990

HH MM

0005

6. ENDING TIME [MILITARY]

RECORDS USE

7. [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

0042

PESTICIDE APPLICATIONS

0043

FIELD OPERATIONS

SUPPLEMENTS USED

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

Reported by: _____

9910

 15

9911

Telephone: (____) _____

OFFICE USE

R. Unit	Ptr 1 Str	Ptr 2 Str	Ptr 3 Str	Ptr 4 Str	OPS	SSO 1	ADJ	Optional Use		
9921	9922	9923	9927	9928	923	9907	922	9906	9916	
Response		Respondent		Mode		Enum.	POID			
1-Comp 2-R 3-Inac 4-Office Hold		9901 1-Op/Mgr 2-Sp 3-Acct/Bkpr 4-Partner 9-Other		9902 2-Tel 3-Face-to-Face		9903 9998		9989		

								Eval.	Change	
								9900	9985	