

AGRICULTURAL RESOURCE MANAGEMENT SURVEY

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SurveyID: 1342 Phase 2



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OAT PRODUCTION PRACTICES AND COSTS REPORT FOR 2023

VERSION 12	ID _____	TRACT 01	SUBTRACT ____	C-TYPE 110
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CONTACT RECORD

DATE	TIME	NOTES

The information you provide will be used for statistical purposes only. Your response will be kept confidential and any person who willfully discloses ANY identifiable information about you or your operation is subject to a jail term, a fine, or both. This survey is conducted in accordance with the Confidential Information Protection and Statistical Efficiency Act of 2018, Title III of Pub. L. No. 115-435, codified in 44 U.S.C. Ch. 35 and other applicable Federal laws. For more information on how we protect your information please visit: <https://www.nass.usda.gov/confidentiality>. Response is voluntary.

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BEGINNING TIME

H	H	M	M
00	04		

[MILITARY] _____

SCREENING BOX

0006

☐ Check if verified	POID _____
Name: _____	
Address: _____	
City: _____	State: _____ Zip: _____
Phone: (____) _____	☐ check if cell phone

☐ Check if verified	POID _____
Name: _____	
Address: _____	
City: _____	State: _____ Zip: _____
Phone: (____) _____	☐ check if cell phone

☐ Check if verified	POID _____
Name: _____	
Address: _____	
City: _____	State: _____ Zip: _____
Phone: (____) _____	☐ check if cell phone

☐ Check if verified	POID _____
Name: _____	
Address: _____	
City: _____	State: _____ Zip: _____
Phone: (____) _____	☐ check if cell phone

Total Planted Acres

0050

1. How many total acres of oats did this operation plant for the 2023 crop year?.....

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

Code

Yes = 1
No = 3

4000

a. Did you produce any acres of certified organic oats?.....

b. Of the total (item 1) acres, how many were planted using/as —

Total Acres

Number of Fields

i. Conventional oats?.....

4001

.____

4002

ii. Certified organic oats?.....

4003

.____

4004

[I will follow a simple procedure to make a random selection from the oat fields planted for the 2023 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 4.].....

3. [Now, I need to identify an oat field to be used for this survey.] The oat field pre-selected for this interview is the:

1 ☐ Northern most field

2 ☐ Southern most field

3 ☐ Eastern most field

4 ☐ Western most field

5 ☐ Northeastern most field

6 ☐ Southeastern most field

7 ☐ Northwestern most field

8 ☐ Southwestern most field

Field description:

4. 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.]

5. For the randomly selected field above, please provide the following Farm Service Agency (FSA) identifiers:

[Having this information helps USDA make better use of other data you have provided to USDA and will improve the types of statistical analysis that can be done with the responses from this survey. If the physical field in this survey spans multiple FSA administrative fields, please include the farm, tract, and field number for the largest administrative field. These numbers are field identifiers that USDA uses to administer farm programs like crop insurance, commodity programs, and conservation programs.]

Number

1070

a. Farm Number (up to 8 digits).....

1071

b. Tract Number (up to 7 digits).....

1072

c. Field Number (up to 4 digits, exclude subfield letters).....

OFFICE USE
OY Field Substituted

0022

B

FIELD CHARACTERISTICS — SELECTED FIELD

B

		Acres	1301
1. How many acres of oats did this operation plant in the selected field for the 2023 crop?.....		Code	4068
a. Are the acres in the selected field certified organic or transitioning into certified organic oat production?.....		Yes, Certified Organic=1 Yes, Transitioning=2 No=3	4068
[If item 1a = 1 or 2, ask—]		Dollars & Cents per Acre	1891
b. What was the cost, per acre, for third party organic certification?.....		Code	1302
2. Were the acres in the selected 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?	
[If field is cash rented (item 2 = 2, 3, or 5), ask item 3, otherwise go to item 4.]		Dollars & Cents per Acre	1303
3. What was the cash rent paid per acre for this 2023 oat field?.....		Percent	1304
[If field is share rented (item 2 = 4 or 5), ask—]			
4. What was the landlord's share of the crop from the selected field?.....			
[If field is rented (item 2 = 2, 3, 4, 5, or 6) ask—]			
5. What was the total cost for all inputs provided by any landlord for the 2023 crop on the selected field? INCLUDE the costs for all inputs, such as seed, fertilizer, chemicals, technical services, custom operations, drying, and irrigation. EXCLUDE real estate tax expenses and lime costs paid by the landowner.....		Dollars & Cents per Acre	1305
		OR	Total Dollars
			1306
6. What year did you (the operator listed on the label) start operating the selected field?.....		Year	1312
		M M D D Y Y	1308
7. On what date was the selected field planted?.....			
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 Dual purpose: grazing and cover crop 5 Cover crop only 6 Other uses - Specify: _____	
		Code	3117
[If 7a = 1 or 2, ask—]			
b. What is the primary purpose of the oats that are planted in this field?.....		Code	3111
		Bushels per Acre	1311
c. What was your yield goal at planting for the selected field?.....			

8. What was the source of the oat seed?.....

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

Code

1317

[If item 8 = 2 or 3, ask—]

Dollars & Cents
per Pound

3321

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

Percent

1318

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

Unit Code

1=Pounds

2=Cwt

3=Tons

4=Bushels

22=Acres

23=50 lb. Bags

[If any seed purchased (item 8 = 1 or 3), ask—]

Dollars & Cents
per Unit

1319

1320

9. What was the total cost per unit of purchased seed for the selected field? INCLUDE operator, landlord, and contractor costs, cost of seed treatment, and technology fee....

Code

3062

10. For the 2023 oat crop, was the oat seed—.....

- | |
|---|
| 1 Treated with a pesticide prior to purchase? |
| 2 Treated with a pesticide after purchase? |
| 3 Not treated with a pesticide? |

[If item 10 = 1 or 2, continue, otherwise go to item 11.]

Seed Treatment Name

a. What was the name of the seed treatment? [Write seed treatment name in the box provided.].....

1289

b. What was the seed treatment code? [Enter the appropriate seed treatment code from the Respondent Booklet. Enter "999" if a seed treatment was applied but is not listed. Enter "-1" if the seed treatment is not known.].....

Code

2325

Code

2340

11. For the 2023 oat crop, did you plant a commercial seed product on the selected field?.....

Yes=1
No=3

[If item 11 = 1, ask—]

Commercial Seed Product Name

a. What was the name of the seed product? [Write seed product name in the box provided.].....

2342

b. What was the seed product code? [Enter the appropriate product code from the Respondent Booklet. Enter "999" if a seed product was purchased but is not listed. Enter "-1" if the product is not known.].....

Code

2343

Unit Code

1=Pounds/Acre

2=Cwt/Acre

3=Tons/Acre

4=Bushels/Acre

23=50 lb. Bags/Acre

Units

1313

2314

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

Acres

1315

13. How many acres in the selected field had to be replanted to oats?

(Acres replanted = Number of Acres x Number of times replanted.)

Code

1328

14. Has harvest of the selected field been completed?.....

Yes=1
No=3

[Now I need information about the acres harvested or to be harvested and the yields from the selected field.]

15. How many acres in this oat field were or will be—

- a. harvested for grain?.....
- b. harvested for hay, silage, or green chop?.....
- c. harvested for commercial seed contract?.....
- d. abandoned?.....
- e. used for some other purpose?.....

Acres	What yield per acre did you get or do you expect to get for oats—	Unit Code 1=Pounds 2=Cwt 3=Tons 4=Bushels Code
1346	1347	1348
1349	1350	TONS
1431	1432	1433
1351		
1439		

16. Was straw harvested from the selected field?

1520 ☐ Yes – Continue

3 ☐ No – Go to item 18

17. How many acres of this oat field were harvested for straw?.....

Acres

1521

Total Tons

1522

a. How many total tons of oat straw were harvested from these oat acres (item 17)?.....

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

b. Of the total oat straw harvested from this field (item 17a), what was the landlord's share of the oat straw?.....

Percent

1523

OR

Tons

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—]

Dollars & Cents
Per Ton

d. What was the price received per ton for all oat straw (item 17a) sold from this field?.....

1526

Code

18. What type of livestock grazed the selected oat field during the 2023 crop year?.....

- 1 Cattle
2 Sheep
3 Other, Specify: _____
4 Not grazed

3147

[If item 18 = 4, go to item 19. Otherwise, ask—]

Head

a. About how many head of livestock (item 18) grazed this oat field?.....

1362

Days

b. How many days did this livestock graze on this oat field?.....

1363

Code

c. Was this oat field "grazed-out" instead of harvested for grain?.....

Yes=1
No=3

3060

Crop Code List for item 19 – Previously Planted Crops

190 Barley	311 Grasses including clover	22 Rye (cereal)	34 Annual ryegrass
6 Corn for grain	1 Hay, alfalfa	240 Sorghum, all	318 No crop planted
5 Corn for silage	11 Hay, all other	26 Soybeans	291 Other field crop
283 Cotton, all	15 Oats	263 Wheat, spring	292 Other crop
302 CRP	21 Rice	165 Wheat, winter	312 Cover crop mix

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

1 What crops were planted on the selected field in— [For perennial crops, (1, 11, 292, 302, and 311) report the crop code in all seasons when the crop was growing.]			2 Was this a cover crop?	3 If a cover crop was planted, how did you terminate this cover crop?	4 Was the selected field no-till or strip-tilled? ^{1/}
Season and Year	Crop Name	Crop Code	Yes=1 No=3	Code	Yes=1 No=3
a. Spring/Summer of 2023?.....	OATS				1344
b. Fall of 2022?.....		1343	1470	1471	1345
c. Spring/Summer of 2022?.....		1369	1472	1473	1371
d. Fall of 2021?.....		1372	1474	1475	1374
e. Spring/Summer of 2021?.....		1375	1476	1477	1377
f. Fall of 2020?.....		1378	1478	1479	1380
g. Spring/Summer of 2020?.....		1381	1480	1481	1383
h. Fall of 2019?.....		1366	1482	1483	1368
i. Spring/Summer of 2019?.....		1340	1484	1485	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.

[If a cover crop was planted in Spring/Summer/Fall 2022, ask—]

- j. What was the seed cost per acre for the cover crop?.....
- k. What were the per-acre cost-share or financial assistance payments received for the cover crop? If no program payment was received, enter zero.....

Dollars & Cents
per Acre

1468	_____
1495	_____

20. Is this field managed under an NRCS-approved conservation plan for highly erodible land (HEL)? (All fields that have been designated as HEL by USDA, and that are being actively farmed, are required to have soil conservation plans under the conservation compliance program.).....

Code

Yes=1
No=3

0702

21. Does the selected field contain a wetland? Wetlands are subject to Wetland Conservation (WC) or "swampbuster" requirements. Producers who receive farm program payments must refrain from draining wetlands to make them ready for crop production.....

Yes=1
No=3

1405

22. What is the slope of the selected field?.....

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

Code

2400

23. What is the primary soil type of the selected field?.....

- | | |
|---|-------|
| 1 | Loam |
| 2 | Clay |
| 3 | Sandy |
| 4 | Mixed |
| 5 | Silty |

Code

2401

24. In the selected field, are any of the following currently or historically a concern?

Unit Codes

- 1 Currently a concern
- 2 A concern in the past but not anymore
- 3 Not a concern

Code

2407

a. Water-driven erosion.....

2408

b. Wind-driven erosion.....

2409

c. Soil compaction.....

2410

d. Poor drainage.....

2411

e. Low organic matter.....

2412

f. Water quality.....

2413

g. Other concerns.....

2415

h. Water availability.....

[If items 24a – 24h are all "Not a concern", ask—]

i. If the answer to all of the above was "Not a Concern", is it the case that there are no significant concerns on this field?.....

Yes=1
No=3

Code

2414

Code

2402

25. Did the land use practices for the selected field include subsurface drainage?.....

Yes=1
No=3

[If item 25 = 1, continue. Otherwise go to item 26.]

Year

2403

a. In what year was the current subsurface (tile) drainage installed?.....

Inches

2604

b. What is the average depth of your drainage system?.....

2605

c. What is the diameter of your tiles?.....

Hours

2606

d. On average, how many hours does it take your field to return to normal soil moisture levels following a heavy storm?.....

Code

2406

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

Yes=1
No=3

		Unit Code
		1 Current
		2 Past
		3 Never
26. Has the selected field ever been in any conservation contracts for which you or your landlord received (or expected to receive) cost-sharing payments, stewardship payments, or incentive payments?		
a. Environmental Quality Incentive Program (EQIP).....		2611
b. Conservation Security or Conservation Stewardship Programs (CSP).....		2612
c. Conservation Reserve Program (CRP).....		2613
d. Other Federal, State, Local or non-government source.....		2614
		Code
27. During the last four years, did you apply for conservation funding, either through any Federal, State, or local program, for the selected oat field?.....	Yes=1 No=3	4017

28. [Now I need information on soil, crop, and land management practices or activities used on the selected field and any financial assistance you may have received in conjunction with those practices.]

a. Please check any practices or activities that you used on the selected field this year or any time in the past.

On-field Soil and Crop Management 1 ☐ No-till/strip-till 2 ☐ Conservation tillage except no-till/strip-till 3 ☐ Cover crop – single species 4 ☐ Cover crop mix 5 ☐ Contour farming 6 ☐ Conservation crop rotation 7 ☐ Laser leveling	10 ☐ Terraces 12 ☐ Grass waterway 20 ☐ Implement a nutrient management plan – written plan. 21 ☐ Precision nutrient application 22 ☐ Subsurface phosphorous application 23 ☐ No fertilizer application more than 30 days before planting 24 ☐ Controlled release or enhanced efficiency fertilizer 26 ☐ Split nitrogen application with at least 50% applied after planting	30 ☐ Implement an integrated pest management plan – written plan 31 ☐ Drift reducing spray nozzles 32 ☐ Targeted sprayer – electrical control Adjacent to Field 33 ☐ Filter strip 34 ☐ Field border 35 ☐ Riparian buffer – grass or forest 50 ☐ Irrigation water management plan 99 ☐ None of the above
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b. For each practice or activity checked in 28a, please complete one line of this table.

[Enumerator Note: If "99: None of the above" was selected, report code "99" in the first row (item 1610).]

1 Practice or Activity on the Selected Field	2 Practice Code (see item 28a) Code	3 Was this practice or plan used on this selected field in 2023? 1 Used in 2023 2 Not used in 2023 but used in earlier years Code	4 What financial assistance (cost share) has been received for this practice on this field? 1 Received a payment in 2023 from EQIP, CSP, or similar program 2 Did not receive a payment in 2023 but have in earlier years 3 Have never received a payment for this practice Code	5 Does this practice or activity help satisfy— 1 A federal, state, or local regulatory requirement 2 Highly erodible land conservation compliance 3 Does not relate to any regulation or compliance requirement Code
	1610	1614	1612	1613
	1615	1619	1617	1618
	1620	1624	1622	1623
	1625	1629	1627	1628
	1630	1634	1632	1633
	1635	1639	1637	1638
	1640	1644	1642	1643
	1645	1649	1647	1648
	1650	1654	1652	1653
	1655	1659	1657	1658
	1660	1664	1662	1663

		Code
29. In 2023, were the oats in the selected field covered by a single or named peril crop insurance policy (e.g. hail, replant, wind, freeze, etc.)?	Yes=1 No=3	1393
[If item 29 = 1, continue. Otherwise, go to item 30.]		
		Code
a. In 2023, were the oats in the selected field covered by more than one single or named peril crop insurance policy (e.g. hail, replant, wind, freeze)?	Yes=1 No=3	2721
		Dollars & Cents per Acre
b. What was the dollar amount of coverage per acre for the single peril policy covering the selected field?		1395
c. What was the premium cost per acre for the single peril policy covering the selected field in 2023? EXCLUDE any sign-up fee.		2722
		Percent
d. What was the percent deductible for the single peril policy covering the selected field? (Record no deductible as 0%)		2723
		Code
e. Did you (or will you) collect an indemnity payment for the selected field from the single peril policy during 2023?	Yes=1 No=3	2724
		Code
30. In 2023, were the oats in the selected field covered by a multi-peril federal program that provided protection against yield or revenue losses? These types of policies include crop insurance and crop disaster assistance programs.	Yes=1 No=3	1385
[If item 30 = 1, continue. Otherwise go to Section C.]		
1 Noninsured Crop Disaster Assistance Program (NAP CAT) 2 Federal CAT (basic catastrophic insurance) 3 Noninsured Crop Disaster Assistance Program buy-up 4 Actual Production History (APH) buy-up 5 Revenue Protection (RP) 6 Other Federal crop insurance		Code
a. What type of multi-peril coverage did you obtain?		4069
		Percent
i. What percent of yield coverage did you select for the selected field?		1387
ii. What percent of price coverage did you select for the selected field?		1388
		Percent
iii. What percent of revenue coverage did you select for the selected field?		1389
		Code
b. What type of unit coverage did you purchase for the multi-peril policy on the selected field?	1 Basic 2 Optional 3 Enterprise	2524
		Year
c. In what year did you, the operator listed on the label, first purchase multi-peril crop insurance on the selected field?		2525
		Bushels per Acre
d. What is the 2023 Approved APH (actual production history) yield for the selected field?		2526
		Dollars & Cents per Acre
e. What was the premium paid for multi-peril crop insurance for the selected field in 2023? EXCLUDE any administrative fee.		2527
		Code
f. Did you or will you collect an indemnity payment for the selected field from multi-peril crop insurance during 2023?	Yes=1 No=3	2528

1. Were commercial nutrients or fertilizers applied to the selected field for the 2023 oat crop? INCLUDE those from operators, landlords, and contractors.....	Yes=1 No=3	Code 0202	Office Use Edit Table 0200
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[If item 1 = 1 continue. Otherwise go to item 6]

2. How many commercial nutrient or fertilizer applications were made to the selected field for the 2023 crop? INCLUDE applications made by airplanes and custom applicators.....	Number 0203
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3. Now I need to record information for each application.

CHECKLIST			
INCLUDE	EXCLUDE		
☐ Custom applied nutrients or fertilizers ☐ Nutrients or fertilizers applied in the fall of 2022 and those applied earlier if the selected field was fallow in 2022. ☐ Commercially prepared manure or compost	☐ Micronutrients ☐ Unprocessed manure ☐ Nutrients or fertilizers applied to previous crops in the selected field ☐ Lime and gypsum/landplaster	Office Use Lines in Table	Table 001 0299

Nitrogen Codes for Column 2 Source/Form of N Used

- | | |
|---------------------------|-----------------------------|
| 1 Anhydrous ammonia | 6 Ammonia sulfate |
| 2 Nitrogen solution (UAN) | 7 Potassium nitrate, |
| 3 Urea | magnesium nitrate, and |
| 4 Ammonium nitrate | calcium nitrate |
| 5 Sodium nitrate | 8 Other nitrogen fertilizer |
| | material [specify: _____] |

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 [Enter percentage analysis or actual pounds of plant nutrients applied per acre.] [Show Common Nutrients or Fertilizers in Respondent Booklet] [Refer to nitrogen list above for type of nitrogen used.]					3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported]	4 [Enter material code] 1 Pounds 12 Gallons 13 Quarts 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 in the selected field were treated in this application? Acres
	N Nitrogen	P ₂ O ₅ Phosphate	K ₂ O Potash	S Sulfur	Source/Form of N Used [Refer to code list above]					
01	31	32	33	34	35	36	37	38	39	40
02	31	32	33	34	35	36	37	38	39	40
03	31	32	33	34	35	36	37	38	39	40
04	31	32	33	34	35	36	37	38	39	40
05	31	32	33	34	35	36	37	38	39	40
06	31	32	33	34	35	36	37	38	39	40
07	31	32	33	34	35	36	37	38	39	40
08	31	32	33	34	35	36	37	38	39	40
09	31	32	33	34	35	36	37	38	39	40
10	31	32	33	34	35	36	37	38	39	40

4. Were any nutrients or fertilizers applied by custom applicators?..... [If item 4=1 continue. Otherwise go to item 5.] a. Are you able to report the cost of nutrient or fertilizer materials and custom application separately?..... [If item 4a = 1 continue. Otherwise go to item 5.] b. Excluding the cost of the nutrient or fertilizer materials, how much was spent for custom application of nutrients or fertilizers on the selected field? INCLUDE • operator, landlord, and contractor costs • 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.] 5. What was the total cost of all nutrient or fertilizer products applied to the selected field? INCLUDE • operator, landlord, and contractor costs as well as the costs for sulfur and micronutrients • materials applied to the selected field if it was fallow in 2022 EXCLUDE lime, gypsum, purchased manure, and purchased compost..... [If custom applied and the cost of materials can be separated from application costs, include the cost of materials only, otherwise, include both the material and application costs.] 6. Was gypsum applied to the selected field for the 2023 oat crop?..... 7. Was a soil test for soil organic matter performed on the selected oat field at some point in the last 10 years?..... [If item 7 = 1, ask—] a. What was the percentage of soil organic matter on the selected field for the most recent test?..... b. How many times have you tested the selected field for soil organic matter in the last 10 years?..... [If item 7b is more than 1, ask—] c. Based on these tests, is your soil organic matter content... 1 Increasing? 2 Decreasing? 3 Staying roughly the same? 8. Was a soil or plant tissue test performed on the selected oat field in 2022 or 2023 for the 2023 crop?..... [If item 8 = 1, continue. Otherwise go to item 13.] 9. Was a soil test for phosphorus performed on the selected oat field in 2022 or 2023 for the 2023 crop?..... [If item 9 = 1 ask—] a. How many pounds of phosphorus per acre were recommended by the phosphorus test?.....	<table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">Code</td> <td style="border: 1px solid black; width: 100px; text-align: center;">0214</td> </tr> <tr> <td>Yes=1 No=3</td> <td></td> </tr> </table> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">Code</td> <td style="border: 1px solid black; width: 100px; text-align: center;">0216</td> </tr> <tr> <td>Yes=1 No=3</td> <td></td> </tr> </table> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">Office Use</td> <td style="border: 1px solid black; width: 100px; text-align: center;">0215</td> </tr> </table> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">Dollars & Cents per Acre</td> <td style="border: 1px solid black; width: 100px; text-align: center;">0219</td> <td style="text-align: center;">OR</td> <td style="text-align: center;">Total Dollars</td> <td style="border: 1px solid black; width: 100px; text-align: center;">0220</td> </tr> <tr> <td></td> <td style="text-align: right;">. ____</td> <td></td> <td></td> <td></td> </tr> </table> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">Dollars & Cents per Acre</td> <td style="border: 1px solid black; width: 100px; text-align: center;">0221</td> <td style="text-align: center;">OR</td> <td style="text-align: center;">Total Dollars</td> <td style="border: 1px solid black; width: 100px; text-align: center;">0222</td> </tr> <tr> <td></td> <td style="text-align: right;">. ____</td> <td></td> <td></td> <td></td> </tr> </table> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">Code</td> <td style="border: 1px solid black; width: 100px; text-align: center;">0218</td> </tr> <tr> <td>Yes=1 No=3</td> <td></td> </tr> </table> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">Code</td> <td style="border: 1px solid black; width: 100px; text-align: center;">3225</td> </tr> <tr> <td>Yes=1 No=3</td> <td></td> </tr> </table> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">Percent</td> <td style="border: 1px solid black; width: 100px; text-align: center;">3226</td> </tr> </table> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">Number</td> <td style="border: 1px solid black; width: 100px; text-align: center;">3227</td> </tr> </table> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">Code</td> <td style="border: 1px solid black; width: 100px; text-align: center;">3228</td> </tr> </table> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">Code</td> <td style="border: 1px solid black; width: 100px; text-align: center;">0224</td> </tr> <tr> <td>Yes=1 No=3</td> <td></td> </tr> </table> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">Code</td> <td style="border: 1px solid black; width: 100px; text-align: center;">0225</td> </tr> <tr> <td>Yes=1 No=3</td> <td></td> </tr> </table> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">Pounds per Acre</td> <td style="border: 1px solid black; width: 100px; text-align: center;">0226</td> </tr> </table>	Code	0214	Yes=1 No=3		Code	0216	Yes=1 No=3		Office Use	0215	Dollars & Cents per Acre	0219	OR	Total Dollars	0220		. ____				Dollars & Cents per Acre	0221	OR	Total Dollars	0222		. ____				Code	0218	Yes=1 No=3		Code	3225	Yes=1 No=3		Percent	3226	Number	3227	Code	3228	Code	0224	Yes=1 No=3		Code	0225	Yes=1 No=3		Pounds per Acre	0226
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10. Was a soil test for nitrogen performed on the selected oat field in 2022 or 2023 for the 2023 crop?..... Yes=1 Code 0227
No=3

[If item 10 = 1, ask—]

a. How many pounds of nitrogen per acre were recommended by the nitrogen test?..... Pounds per Acre 0228

11. Was a plant tissue test or leaf analysis for nutrient deficiency performed on the selected field in 2022 or 2023 for the 2023 crop?..... Yes=1 Code 0229
No=3

12. How much was spent for these soil and plant tissue tests on the selected field? INCLUDE operator, landlord, and contractor costs..... Dollars & Cents per Acre 0230 OR Total Dollars 0231

[If tests were done at no cost, continue. Otherwise go to item 12b.]

a. What is the reason why tests were done at no cost?..... Code 0232

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

b. Did you receive a payment from a conservation program (CSP, EQIP, or other) for performing a soil or plant tissue test?..... Yes=1 Code 3231
No=3

[Enumerator Action: Refer to the Fertilizer Table, column 2. If nitrogen (N) was applied, complete item 13. If no nitrogen applied, go to item 15.]

13. Was the amount of nitrogen you decided to apply to the selected field based on— Code

Yes=1	0233
No=3	
Yes=1	0234
No=3	
Yes=1	0235
No=3	
Yes=1	0236
No=3	
Yes=1	0237
No=3	
Yes=1	0238
No=3	
Yes=1	0239
No=3	

a. Results of a soil or plant tissue test?.....

b. Crop consultant recommendation?.....

c. Fertilizer dealer recommendation?.....

d. Extension Service recommendation?.....

e. Cost of nitrogen and/or expected commodity price?.....

f. Contractor recommendation?.....

g. Routine practice – operator's own determination based on past experience, yield goal, etc.?..

14. Which of the following products did you use to slow the breakdown of nitrogen on this field?..... Code 0241

1	Nitrification inhibitors (such as N-Serve)
2	Urease inhibitors (such as Agrotain)
3	Chemical-coated fertilizers (such as sulfur-coated urea and polymer-coated urea)
4	Other inhibitors
5	None

[If nitrogen inhibitors were used, continue. Otherwise go to item 15.]

a. How much nitrogen inhibitor did you mix with the nitrogen applied to the selected field?..... Pounds per Acre 2561 OR Gallons per Acre 2562

b. What was the cost of nitrogen inhibitors used on this field? INCLUDE operator, landlord, and contractor costs..... Dollars & Cents per Pound 0297 OR Dollars & Cents per Gallon 0298

15. Is lime ever applied to the selected field?.....	Yes=1 No=3	Code 0242
[If item 15 = 1 continue. Otherwise go to item 16.]		
a. On average, how many years are there between applications of lime to the selected field?.....		Years 0243
b. How many tons of lime were applied per acre the last time it was applied to the selected field?.....		Tons per Acre 0244
c. Was lime applied to the selected field in 2022 or 2023 for the 2023 crop?.....	Yes=1 No=3	Code 0240
16. Was non-commercial (unprocessed) manure from own farm, from a neighbor's farm, etc., or other organic material, including compost, applied to the selected field for the 2023 oat crop? EXCLUDE commercially prepared manure.....		
[If item 16 = 1 continue. Otherwise go to Section D.]		
a. To how many acres in the selected field was manure or compost applied?.....		Acres 0247
		Unit Codes 1 Tons 2 Gallons 3 Bushels 4 Cubic yards
b. What was the amount of manure or compost applied per acre to the selected field?.....	0249	0248
c. Of the total manure or compost applied to the selected field for the 2023 oat crop, what was the percent of manure or compost applied—		Percent
i. in the fall before planting?.....	+	0254
ii. in the spring before planting?.....	+	0255
iii. after planting?.....	+	0256
		= 100%
d. Was the manure or compost—.....	1 Lagoon liquid? 2 Slurry liquid? 3 Semi-dry or dry?	Code 0257
e. Was the manure or compost—.....	1 Broadcast or sprayed without incorporation? 2 Broadcast or sprayed with incorporation? 3 Injected/knifed in? 4 Sprayed using irrigation systems?	Code 0258
f. Was the major source of manure or compost—.....	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

g. Was the manure or compost—.....	1 Produced on this operation?	Code 0260
	2 Purchased?	
	3 Obtained at no cost off this operation?	
	4 Obtained with compensation (operator received payment for accepting the manure)?	

[If item 16g = 2, continue. Otherwise go to item 16h.]

	Dollars & Cents per Acre	OR	Total Dollars
i. What was the total cost of the purchased manure or compost applied to the selected field?.....	0284 _____		0285

INCLUDE

- operator, landlord, and contractor costs
- any payment made for transportation costs

		Code
ii. Did you hire someone to custom apply the manure or compost?.....	Yes=1 No=3	0286

[If item 16gii = 1, ask—]

	Dollars & Cents per Acre	OR	Total Dollars
(a) What was the total cost paid to have manure or compost custom applied to the selected field? INCLUDE operator, landlord, and contractor cost.....	0287 _____		0288

[Do not report custom application cost if it was included with the purchased manure or compost cost.]

	Miles
h. What is the distance in miles between the manure or compost storage/production location and the selected field?.....	0291

	Code
i. Of the manure or compost applied to the selected field, was any tested for nutrient content prior to application?.....	Yes=1 No=3 0261
j. Was the application rate of commercial nitrogen fertilizer on the selected field reduced due to manure or compost application?.....	Yes=1 No=3 0262

[If 16j = 1, ask—]

	Percent
i. By what percent did you reduce the commercial nitrogen fertilizer application rate on the selected field?.....	0263

	Code
ii. Did you adjust the oat harvest date for the selected field due to the application of manure or compost?.....	Yes=1 No=3 0280

	Code
17. Were the manure or compost application rates to the selected field influenced by Federal, State, or local restrictions?.....	Yes=1 No=3 0264

[If item 17 = 1, ask—]

a. What basis was used to determine these manure application rate restrictions—	Code
i. Nitrogen requirement of the crop?.....	Yes=1 No=3 0265
ii. Phosphorus requirement of the crop?.....	Yes=1 No=3 0266

D**BIOCONTROL or PESTICIDE APPLICATIONS — SELECTED FIELD****D**

Now I have some questions about all the biocontrols or pesticides used on the selected field for the 2023 oat crop, including both custom applications and applications made by this operation.

1. Were any herbicides, insecticides, fungicides or other biocontrols or pesticides used on this oat field for the 2023 crop?.....

Yes=1
No=3

Code

Office Use
Edit Table

0302

0300

[Probe for applications made in the fall of 2022 and those made earlier if the selected field was fallow.]

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

INCLUDE defoliant, fungicides, herbicides, insecticides, and other pesticides.	EXCLUDE adjuvants, nutrients or fertilizers reported earlier and seed treatments.	Office Use Line in Table	Table 001	0399
INCLUDE biological and botanical pesticides.				

Chemical Product Name	L I N E	2	3	4	5	6	OR	7	8
		What products were applied to the selected field? [Show product codes from Respondent Booklet.]	Was this product bought in liquid or dry form? [Enter L or D]	If this was part of a tank mix, enter line number of first product in mix.	When was this applied? 1 Before planting 3 At planting 4 After planting 5 Defoliation prior to harvest	How much was applied per acre per application?		What was the total amount applied per application in the selected field?	[Enter unit code] 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Ounces 28 Dry Ounces 30 Grams
	01	61	62	63	64	65		73	74
	02	61	62	63	64	65		73	74
	03	61	62	63	64	65		73	74
	04	61	62	63	64	65		73	74
	05	61	62	63	64	65		73	74
	06	61	62	63	64	65		73	74
	07	61	62	63	64	65		73	74
	08	61	62	63	64	65		73	74
	09	61	62	63	64	65		73	74
	10	61	62	63	64	65		73	74
	11	61	62	63	64	65		73	74
	12	61	62	63	64	65		73	74
	13	61	62	63	64	65		73	74
	14	61	62	63	64	65		73	74

2. For biocontrols or pesticides not listed in the Respondent Booklet, specify—

Line	Pesticide Type (Herbicide, Insecticide, Fungicide, etc.)	EPA No. or Trade Name and Formulation	Form Purchased (Liquid or Dry)	Where Purchased (Ask only if EPA No. cannot be reported)

Applications Codes for Column 9

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

L I N E	9 How was this product applied? [Enter code from above.]	10 How many acres in the selected field were treated with this product?	11 How many times was it applied?	12 Were these applications made by— 1 Operator, partner, or family member? 2 Custom applicator? 3 Employee/Other?	13 What was the cost per unit of the product?	14 [Enter unit code] 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Ounces 28 Dry Ounces 30 Grams
		Acres	Number		Dollars & Cents per Unit	
01	76	77	79	80	81	82
02	76	77	79	80	81	82
03	76	77	79	80	81	82
04	76	77	79	80	81	82
05	76	77	79	80	81	82
06	76	77	79	80	81	82
07	76	77	79	80	81	82
08	76	77	79	80	81	82
09	76	77	79	80	81	82
10	76	77	79	80	81	82
11	76	77	79	80	81	82
12	76	77	79	80	81	82
13	76	77	79	80	81	82
14	76	77	79	80	81	82

3. Were any chemicals, biocontrols, or pesticides applied by custom applicators?..... Yes=1 No=3 Code
0323

[If item 3 = 1, ask—. Otherwise go to item 4.]

a. Are you able to report the cost of chemical, biocontrol, and pesticide products and custom application separately?..... Yes=1 No=3 Code
0324

[If item 3a = 1, ask—]

	Dollars & Cents per Acre	OR	Total Dollars
b. Excluding the cost of the chemical, biocontrol, and pesticide products, how much was spent for custom application of such materials on the selected field? INCLUDE operator, landlord, and contractor costs.....	0331 _____		0332

	Dollars & Cents per Acre	OR	Total Dollars
4. What was the total cost of all chemical, biocontrol, or pesticide products applied to the selected field? INCLUDE operator, landlord, and contractor costs, defoliants, herbicides, insecticides, fungicides, surfactants, wetting agents, growth regulators, and materials applied before planting and during 2022 fallow period. EXCLUDE seed treatments.....	0334 _____		0335

	Dollars & Cents per Acre	OR	Total Dollars
a. How much was spent for herbicide products applied to the selected field? INCLUDE operator, landlord, and contractor costs.....	3034 _____		3035

	Dollars & Cents per Acre	OR	Total Dollars
b. How much was spent for insecticide products applied to the selected field? INCLUDE operator, landlord, and contractor costs.....	3036 _____		3037

	Dollars & Cents per Acre	OR	Total Dollars
c. How much was spent for fungicide products applied to the selected field? INCLUDE operator, landlord, and contractor costs.....	3038 _____		3039

Note: 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 the selected field for the 2023 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

1. Were weather data used to assist in determining either the need or when to make pesticide applications?.....
2. Were any biological pesticides such as Bt (*Bacillus thuringiensis*), insect growth regulators, neem or other natural/biological based products sprayed or applied to manage pests in the selected field?.....
3. Were pesticides with different mechanisms of action rotated or tank mixed for the primary purpose of keeping pests from becoming resistant to pesticides?.....

		Code
Yes=1	No=3	0800
Yes=1	No=3	0801
Yes=1	No=3	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 the selected oat field before weeds emerged?.....
5. Were herbicides applied to the selected oat field after weeds emerged?.....
6. Were records kept for the selected field to track the activity or numbers of weeds, insects, or diseases?.....
7. Did you use published information on infestation thresholds to determine when to take measures to manage pests in the selected field?.....

		Code
Yes=1	No=3	0803
Yes=1	No=3	0805
Yes=1	No=3	0823
Yes=1	No=3	1824

8. In 2023, how was the selected field primarily scouted for insects, weeds, diseases, and/or beneficial organisms?.....

1 By deliberately going to the field specifically for scouting activities [Enter code 1 and go to item 9.]
 2 By conducting general observations while performing routine tasks [Enter code 2 and go to item 10.]
 3 The selected field was not scouted. [Enter code 3 and go to item 14.]

		Code
Yes=1	No=3	0808

9. Was an established scouting process such as systematic sampling, recording counts, etc. used or were insect traps used in the selected field?.....

		Code
Yes=1	No=3	0809

10. Was scouting for pests done in the selected field due to—

- a. a pest advisory warning?.....
- b. a pest development model?.....

		Code
Yes=1	No=3	0810
Yes=1	No=3	0811

[If scouted by crop consultant or commercial scout, ask item 11. Otherwise go to item 12.]

11. How much was charged for the scouting services for the selected field?
 INCLUDE operator, landlord, and contractor costs.....

Dollars & Cents per Acre
0821

OR

Total Dollars
0822

- a. If scouting performed at no cost, explain: _____

Office Use
0333

12. Were scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests in the selected field?.....

		Code
Yes=1	No=3	0824

1	2	3
13. Do you believe that the selected field was infested with any of the following oat pests or diseases?		[If column 2 = 1, ask—] Do you believe that the infestation/population level was higher than the economic threshold for treatment? 1 Much higher (over 1.5 times the threshold) 2 Higher (between 1 and 1.5 times threshold) 3 Lower (between .5 and 1 times the threshold) 4 Much lower (between 0 and .5 times the threshold) 99 Don't Know Code
	Yes=1 No=3	
a. Crown rust.....	4060	4061
b. Stem rust.....	4062	4063
c. Barley dwarf virus.....	4064	4065

14. Did you use field mapping of previous weed problems to assist you in making weed management decisions?.....	Yes=1 No=3	Code 0825
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15. Did you do any of the following other types of pest management for the specific purpose of managing or reducing the spread of pests in the selected field?		Code
a. Use the services of a diagnostic laboratory for pest identification or soil plant tissue pest analysis for the selected field?.....	Yes=1 No=3	0841
b. Plow down crop residue using conventional tillage?.....	Yes=1 No=3	0842
c. Remove/burn down crop residue?.....	Yes=1 No=3	0843
d. Rotate crops in the selected field during the past three years?.....	Yes=1 No=3	0844
e. Maintain ground covers, mulches, or other physical barriers?.....	Yes=1 No=3	0845
f. Choose crop variety because of specific resistance to a certain pest?.....	Yes=1 No=3	0846
g. Use no-till or minimum till?.....	Yes=1 No=3	0847
h. Plan planting locations to avoid cross infestation of pests?.....	Yes=1 No=3	0848
i. Adjust planting or harvesting dates?.....	Yes=1 No=3	0849
j. Chop, spray, mow, plow, or burn field edges, lanes, ditches, roadways, or fence lines?.....	Yes=1 No=3	0850
k. Clean equipment and field implements after completing field work to reduce the spread of pests?.....	Yes=1 No=3	0851
l. Adjust row spacing, plant density, or row directions?.....	Yes=1 No=3	0852
m. Have the seed treated for insect or disease control after you purchased the seed for the selected field?.....	Yes=1 No=3	0854
n. Maintain a beneficial insect or vertebrate habitat?.....	Yes=1 No=3	0855
o. Use a flamer to kill weeds?.....	Yes=1 No=3	0857
p. Maintain buffer strips or border rows to isolate oats from non-organic crops or land, or did you take a buffer harvest?.....	Yes=1 No=3	0856
q. Plant earlier or later to avoid weeds?.....	Yes=1 No=3	0865

16. Were any beneficial organisms, such as insects, nematodes, or fungi applied or released in the selected field to manage pests?.....

Yes=1
No=3

Code
0853

17. Were floral lures, attractants, repellants, pheromone traps, or other biological pest controls used on the selected field?.....

Yes=1
No=3

Code
0858

[If item 16 or item 17 = 1, ask—]

a. What were the total materials and application costs for all biological pest controls for the selected field?

INCLUDE

- operator, landlord, and contractor costs
- cost for beneficial organisms, insects, nematodes, and fungi

EXCLUDE biological pesticides previously reported.....

Dollars & Cents
per Acre

OR

Total Dollars

0859

0860

18. Was a trap crop, excluding fallow, grown to help manage insects in the selected field?.....

Yes=1
No=3

Code
0863

19. Was the selected field left fallow in 2022 to help manage insects on the selected field?.....

Yes=1
No=3

Code
0864

20. Were water management practices such as irrigation scheduling, controlled drainage, or treatment of retention water used on the selected field to manage pests or toxin-producing fungi and bacteria?.....

Yes=1
No=3

Code
0861

21. Was protection of beneficial organisms a factor in your pest control decisions for the selected field?.....

Yes=1
No=3

Code
1765

[If item 21=1, continue. Otherwise go to item 22.]

a. Did you change timing of, reduce application rate of, or eliminate a pesticide application?.....

Yes=1
No=3

Code
1766

b. Did you change to an alternative pesticide, biocontrol, or non-pesticide practice?.....

Yes=1
No=3

Code
1767

Unit Codes

1 Pounds

2 CWT

3 Tons

4 Bushels

Units per Acre

22. If untreated (either with herbicides, tillage, or cultivation), how much yield loss (e.g. bushels per acre) do you think weeds would most likely cause on the selected field?

2735

2736

23. Did pests, such as weeds, insects, pathogens, or animals, cause any yield loss on the selected field in spite of your pest control efforts?.....

Yes=1
No=3

Code
0827

[If item 23 = 1, ask—]

a. How much yield loss per acre do you think was caused by all pests on the selected field in spite of the management practices you used to reduce those losses?.....

Units per Acre

Unit Codes

1 Pounds

2 CWT

3 Tons

4 Bushels

OR

Total Units

0829

0828

0830

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 the selected field for the 2023 oat crop. Please...

- begin with the first field operation after harvest of the previous crop, including operations for a cover crop established since the previous crop was harvested. If fallow during 2022, list operations starting with fall 2021.
- 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—

- ☐ Land forming/Levee Building
- ☐ Tillage
- ☐ Preparing for Irrigation
- ☐ Planting
- ☐ Fertilizer & Pesticide applications
- ☐ Harvesting & Hauling to storage or first point of sale

EXCLUDE

- ☐ Lime & Gypsum/land plaster applications
- ☐ Compost & Non-commercial manure applications

1 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 Column 5 = code 6, skip columns 6 thru 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? Acres	9 How many total hours were spent on land forming and hauling? [Example: backhoes, disk border maker, ditcher, rear mounted blade, trucks, wagons, forklift etc.] Hours	10 What power source was used? Tractors 1 <40 HP 2 40-99 HP 3 100-149 HP 4 150-199 HP 5 >=200 HP OR 66 Animal Drawn 77 Pick up ^{1/} 99 Self-Propelled Code	11 What was the fuel type of the tractor? [Record fuel type only if Column 10 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

[Enumerator Action: Were machine or equipment codes reported in item 1?]

4029 ₁ ☐ Yes – Continue

₃ ☐ No – Go to item 3

2. Were any of the machines or equipment reported in Columns 2 or 3 of item 1 purchased new during 2023?.....

Yes = 1
No = 3

Code

4030

[If item 2 = 1, continue. Otherwise go to item 3.]

1 Machine purchased new in 2023	2 [Record machine code from respondent booklet.] Code	3 Dealer's list price of the machine. (This should be the "sticker price", not including discounts or trade-in values for used machinery.) Dollars
4031	4032	4033
4034	4035	4036
4037	4038	4039
4040	4041	4042
4043	4044	4045

3. Now I need some additional information about your labor.

Please report the paid and unpaid labor that worked on the selected field to produce the 2023 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 the selected field—		
	1 scouting for weeds, insects and diseases? Hours	2 irrigating? Hours	3 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

4. What was the average hourly wage rate paid to part-time or seasonal hired workers on the selected field? Part-time workers are defined as those who worked for wages or salaries for less than 30 hours a week on average. EXCLUDE custom and contract workers, payroll taxes and benefits.....
- | Dollars & Cents Per Hour | OR | Total Dollars per Week | AND | Number of Hours Worked Each Week |
|--------------------------|----|------------------------|-----|----------------------------------|
| 1119 | | 2119 | | 3119 |
5. What was the average hourly wage rate paid to full-time hired workers on the selected field? EXCLUDE custom and contract workers, payroll taxes and benefits.....
- | Dollars & Cents Per Hour | OR | Total Dollars per Week | AND | Number of Hours Worked Each Week |
|--------------------------|----|------------------------|-----|----------------------------------|
| 1118 | | 2118 | | 3118 |
6. Was any contract labor used on the selected field?.....
- Yes=1
No=3
- | Code |
|------|
| 1116 |
- [If item 6 = 1, continue. Otherwise go to item 7.]
- a. What was the average cost per acre for this contract labor? INCLUDE operator, landlord, and contractor costs.....
- | Dollars & Cents Per Acre |
|--------------------------|
| 1117 |
7. What percent of the total number of unpaid hours worked on the selected field was performed by workers under 16 years of age? Estimates of labor costs for unpaid workers are based on off-farm wage rates, which are different for workers under 16 relative to those 16 and older.....
- | Percent |
|---------|
| 1120 |
8. Now I need some information on how much was spent or will be spent for custom services used on the selected field for the 2023 oat crop.

1 Custom Service	2 Including operator, landlord, and contractor costs, how much was spent for [column1] on the selected field for the 2023 oat crop? Dollars & Cents per Acre
Which of the following services were performed for the 2023 oat crop on the selected field? [Check box for each service performed; refer to item 1 if necessary.]	
☐ a. Custom land preparation, shaping and/or leveling?.....	1121
☐ b. Custom cultivating?.....	1122
☐ c. Custom planting and/or reseeding?.....	1123
☐ d. Custom harvesting?.....	1124
☐ e. Custom hauling to storage or point of first sale? (Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre)	1126
☐ f. Custom harvesting and hauling from field to storage or point of first sale? (Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre)	1127
☐ g. Custom raking, baling, and hauling the straw from the selected field? (Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre)	1128

		Code
9. Were the oats harvested and hauled from the selected field dried (or will be dried) before they were sold or stored?.....	Yes=1 No=3	2748
10. Did you hire or receive any technical or consultant services to make recommendations such as for nutrient, pest control, irrigation, or precision farming for the selected field?.....	Yes=1 No=3	1196

[If item 10 = 1, continue. Otherwise, go to item 14.]

11. Which of the following technical or consultant services did you obtain to make recommendations for the selected field?

		Code
a. Nutrient recommendations/management service?.....	Yes=1 No=3	1129
b. Soil or tissue sample collection?.....	Yes=1 No=3	1130
c. Pest control recommendations/management service?.....	Yes=1 No=3	1131
d. Pest scouting?.....	Yes=1 No=3	1132
e. Irrigation management service (i.e. irrigation scheduling)?.....	Yes=1 No=3	1133
f. Yield map or remote sensing map development/interpretation?.....	Yes=1 No=3	1134
g. Other custom or technical service? [Specify: _____].....	Yes=1 No=3	1135

[If any item in 11a–g = 1, continue. Otherwise go to item 14.]

		Code
12. Were any of the technical or consultant services listed in item 11a–g provided to you at no cost or were partially reimbursed by the Natural Resources Conservation Service (NRCS)?.....	Yes=1 No=3	4046

13. If Yes to any of the services in items 11a–g, what was the cost for all of these services? INCLUDE operator, landlord, and contractor costs. EXCLUDE cost of soil or tissue tests or scouting costs previously reported. Do not report costs for any of these services reported above if they were previously reported as part of the cost of materials and/or application.....

Dollars & Cents per Acre	OR	Total Dollars
1136		1137

14. Please report how any data from the selected field in 2023 will be stored and accessed.

		Code
a. Did you access the data collected from the selected field on a—		
i. Paper hard copy?.....	Yes=1 No=3	2485
ii. Personal computer?.....	Yes=1 No=3	2486
iii. Mobile device?.....	Yes=1 No=3	2487
b. Did you access the data collected from the selected field through an agricultural technology provider website?.....	Yes=1 No=3	2488

[If item 14b = 1, continue. Otherwise, go to item 15.]

		Code
c. Did you opt out of allowing your agricultural technology provider website to share data collected from the selected field with any third party?.....	Yes=1 No=3	2489
d. Did you share any of the data collected from the selected field with a third party through an agricultural technology provider website?.....	Yes=1 No=3	2490

15. Please report the data collection technologies you used on the selected field to produce this crop.

1 Data Collection Tool	2 Was this tool used on the selected field? Yes=1 No=3	3	4	5	6
		If the tool was used—			
		Did this tool collect GPS coordinates?	Are data from this tool used to create a map?	What is the replacement cost of this tool?	What is the annual fee for using this tool? 1/
		Yes=1 No=3	Yes=1 No=3	Total Dollars	Total dollars
a. Yield monitor.....	2461	2462	2463	2570	2571
b. Soil tests on core sample performed on-farm or sent out to a laboratory.....	2464	2465	2466	2572	2573
c. Soil sensor tests.....	2467	2468	2469	2574	2575
d. Hard-wired crop condition sensors.....	2470	2471	2472	2576	2577
e. Wireless crop condition sensors.....	2473	2474	2475	2578	2579
f. Aircraft or satellites.....	2445	2446	2447	2448	2449
g. Drones or Unmanned Aerial Vehicles (UAV).....	2455	2456	2457	2458	2459
h. Custom service applications – data from completed work on your field.....	2479	2480	2481	2582	2583
i. Public data downloaded from online sources.....	2482	2483	2484		

1/ INCLUDE custom service fees, data subscriptions, and online tool subscriptions.

[If item 15a column 2 = 1, continue to item 16. Otherwise go to item 17.]

16. Did you use the yield monitor information to—

		Code
a. add/improve tile drainage?.....	Yes=1 No=3	1141
b. negotiate new crop leases?.....	Yes=1 No=3	1144
c. help determine chemical input use?.....	Yes=1 No=3	1143

[If any item 15 column 2 = 1, continue. Otherwise go to item 19.]

17. Using data collected from the previous tools table in item 15, did you obtain crop management recommendations, such as data interpretation, in 2023 for the selected field from any of the following—

		Code
a. input dealers without other fee-for-services?.....	Yes=1 No=3	2491
b. input dealers with other fee-for-services?.....	Yes=1 No=3	2492
c. custom service providers?.....	Yes=1 No=3	2493
d. USDA/university extension services?.....	Yes=1 No=3	2494

[If any item 17a–d = 1, ask—]

e. What was the cost for all of these services? INCLUDE operator, landlord and contractor costs. EXCLUDE 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
	3150		3151

[If item 15g column 2 = 1, continue. Otherwise go to item 19.]

18. In the selected field, did you use the UAV for any of the following purposes?

	Code
a. Weed analysis?.....	Yes=1 3161 No=3
b. Yield analysis?.....	Yes=1 3165 No=3
c. Moisture analysis?.....	Yes=1 3166 No=3

19. Was any of the following GPS-enabled (Global Positioning System) equipment used to produce oats on the selected field in 2023?

	Code
a. Mounted in-cab heads-up displays?.....	Yes=1 2155 No=3
b. Smart phones or computer tablets?.....	Yes=1 2156 No=3
c. Automatic section control, such as auto sprayer boom controls or automatic section shut offs?.....	Yes=1 2165 No=3

20. If any GPS-enabled equipment was used, what was the cost to purchase and install all GPS-enabled equipment, not including guidance auto-steering equipment? INCLUDE cost for GPS receiver and annual GPS subscription fee, and operator, landlord, and contractor costs. EXCLUDE costs for any of this equipment if they were previously reported as part of the costs of materials and/or application.....

Dollars & Cents
per Acre

OR

Total Dollars

2166

2167

21. Were any automated guidance systems (i.e. auto-steer), excluding Light Bar, used on the selected field?.....

Yes=1
No=3

Code

2148

[If item 21 = 1 continue, otherwise go to item 21f.]

a. Was the automated guidance system.....

1 New, owned?
2 Used, owned?
3 Leased?

Code

2158

b. What year was the automated guidance system first purchased?.....

Year

2159

c. What is the replacement cost for the automated guidance system?.....

Dollars & Cents
per Acre

OR

Total Dollars

2160

2161

d. What is the annual fee for the automated guidance system?.....

2162

2163

e. For what reasons did you choose to use an automated guidance system? (Select all that apply.)

4047 ☐ Increase yields

4048 ☐ Reduce input costs

4049 ☐ Reduce operator fatigue

4050 ☐ Improve soil conditions
(i.e. soil compaction)

4051 ☐ Technology came "standard"
on my equipment

4052 ☐ Reduce environmental impacts
(i.e. emissions)

4053 ☐ Other

[If item 21 = 3, ask—]

f. For what reasons did you choose not to use an automated guidance system? (Select all that apply.)

4054 ☐ Costs are too high relative to benefits

4055 ☐ Benefits are uncertain

4056 ☐ Too complicated to use

4057 ☐ Not sufficiently accurate

4058 ☐ Not suitable for my operation

4059 ☐ Other

22. Was a variable rate applicator used on the selected field?.....

Yes=1
No=3

2164

[If item 22 = 1 continue, otherwise go to Section G]

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

1	2	3	4	5	6
Was a variable rate applicator used on the selected field for—	Tool Used Yes=1 No=3	Was this applicator?— 1 Sensor-based 2 GPS-based 3 Both 4 Neither Code	Was this applicator?— 1 New, owned 2 Used, owned 3 Leased Code	What year was the applicator first used? Year	Premium paid for the applicator Total Dollars
a. seeding.....	1158	2170	2171	2172 _ _ _ _	2173
b. fertilizer/lime applications.....	1152	2174	2175	2176 _ _ _ _	2177
c. pesticide applications.....	1159	2178	2179	2180 _ _ _ _	2181
d. irrigation applications.....	1197	2182	2183	2184 _ _ _ _	2185

Acres

1. How many acres in the selected field were irrigated for the 2023 oat crop?.....

1160

[If none, go to Conclusion]

2. Now I have some questions about the irrigation systems and water used on the selected field for the 2023 oat crop.

	Unit	System
a. What type(s) of irrigation system(s) was (or were) used to irrigate the selected field? [Show System Type Codes in the Respondent Booklet. Enter System Type Code for the system covering the most field acres.].....	System Type Code	1161
b. What was the total quantity of water applied to the selected field during the entire growing season? INCLUDE all water used from both on-farm and off-farm sources...	Inches per Acre OR Total Acre Feet	1162 1163

[If operator cannot provide item 2b, ask (i) and (ii). Otherwise go to 2c]

i. What is the total number of hours this system was used to apply water to the selected field during the oat growing season?.....	Total Hours	1164
ii. How many gallons per minute were applied?.....	Gallons per Minute	1165
c. What percent of the water used to irrigate the selected field through this system came from surface water sources?.....	Percent	1166
d. What was the number of times the selected field was irrigated during the oat growing season using this system? INCLUDE any pre-plant irrigation.....	Number of Irrigations	1167

e. What 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
------	------

f. What was the average pumping rate?.....

Gallons per Minute	1169
--------------------	------

[If item 2a = code 1–9 (Pressure System), ask—]

g. What was the system operating pressure?.....

Pounds per Square Inch	1170
------------------------	------

h. What was the primary motor type used to pump the water?.....

1 Diesel
2 Gasoline
3 LP Gas
4 Natural Gas
5 Electricity
6 Solar Power

Code	1171
------	------

i. What was the average motor size?.....

Horsepower	1172
------------	------

[If No Pump was used, item 2e = 99, ask—]

j. What was the average flow rate?.....

Gallons per Minute	1173
--------------------	------

k. How many other acres on this operation were irrigated using the selected field's irrigation system during the 2023 growing season? EXCLUDE the selected field.....

Acres	1174
-------	------

	Dollars & Cents per Acre	OR	Total Dollars
3. What was the cost of the fuel or electricity used to irrigate the selected field? INCLUDE operator, landlord, and contractor costs.....	1189		1190
	. ____		Code
4. Was any water purchased to irrigate the selected field? INCLUDE landlord's share and purchases from all sources.....		Yes=1 No=3	1191
[If item 4 = 1 continue. Otherwise go to item 5.]			
	Dollars & Cents per Acre	OR	Total Dollars
a. What was the total cost for the water purchased for the selected field during the 2023 growing season? INCLUDE operator, landlord, and contractor costs and ditch maintenance costs for the selected field.....	1193		1194
	. ____		Total Dollars
[If siphon tubes were used, item 2a = 10 or 11, ask—]			
			1201
5. What would be the total cost to replace all the siphon tubes used on the selected field?.....			1202
[If poly pipe system was used, item 2a = 14, ask—]			
6. What was the total amount spent for poly pipe used on the selected field during the 2023 growing season? INCLUDE operator, landlord, and contractor costs.....			1203
[If gated pipe system was used, item 2a = 15 or 16, ask—]			
7. What was the average diameter of gated pipe used to irrigate the selected field?.....			1204
			Inches
			1205
			Feet
a. What was the total length of gated pipe used?.....			1206
[If Pipe systems were used, item 2a 10, 11, 14, 15 or 16, ask—]			
			1207
			Code
8. Were wells used to supply irrigation water for the selected field?.....		Yes=1 No=3	1208
[If item 8 = 1 continue. Otherwise go to item 9.]			
			1209
			Number
a. How many wells were used to irrigate the selected field?.....			1210
			Inches
b. What was the average diameter of the outer well casing?.....			1211
			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.....			1212
			Code
d. Were other fields irrigated using water pumped from wells that supplied water to the selected field?.....		Yes=1 No=3	1213
[If item 8d = 1 continue. Otherwise go to item 9.]			
			1214
			Acres
e. Excluding the selected field, how many other acres on this operation were irrigated using the same wells during the 2023 growing season?.....			1215
			. ____
			Code
9. Was any additional mainline or lateral pipe used to carry water from the source to the system in the same wells during the 2023 growing season?.....		Yes=1 No=3	1216
[If item 9 = 1 continue. Otherwise go to Conclusion.]			
			1217
			Inches
a. What was the average diameter in inches of the most common type of this additional pipe used?....			1218
			Feet
b. How many feet of this additional pipe were used to bring water to the selected field?.....			1219

Skip to next page

OR

Space for Notes and Comments

CONCLUSION

Location of Selected Field

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

Office Use
State County FIPS Code

1. What county is the selected oat field in?.....

County Name

0010

LATITUDE

LONGITUDE

a. Field location.....

9854

9855

-

decimal

decimal

[Enumerator Action: Use the iPad app to find the coordinates for the center of the selected field. Confirm with the operator using the aerial imagery that this is the correct field.]

We will need additional information to complete this study. We will contact you in February or March 2024 to collect it. I'll call you then to set up a time that is good for you.

Office Use Only

0005

0008

2. Ending time.....

3. Records Use – [Did respondent use farm/ranch records to report—]

Code

Yes=1
No=3

0011

[fertilizer data].....

Code

Yes=1
No=3

0012

[pesticide data].....

Code

Yes=1
No=3

0013

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

4. Supplements Used – [Record the total number of each type of supplement used to complete this interview.]

Number

0041

Fertilizer Supplement.....

Number

0042

Pesticide Supplement.....

Number

0043

Field Operations.....

Contact Information

Operator Email:

Operator Phone:

9929

9917

Check to
receive results
by email

☐

9918

() _____

check if
cell phone

☐

Operation Email: (if different from above)

Operation Phone: (if different from above)

9937

9920

Check to
receive results
by email

☐

9936

() _____

check if
cell phone

☐

Respondent Name:

Respondent Phone (if different from above)

9912

9911

() _____

check if
cell phone

☐

9910 MM DD YY

Date: ____

This completes the survey. The results will be available on the release date at nass.usda.gov/results

Thank you for your help.

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-Spouse 3-Acct/Bkpr 4-Partner 9-Other	9902	2-PATI (tel) 3-PAPI (Face-to-Face)	9903	9998	9989		
							Eval.		Change
							9900		9985