AGRICULTURAL RESOURCE MANAGEMENT SURVEY

OMB No. 0535-0218 Approval Expires: 6/30/2026 Project Code: 906 SurveyID: 1342 Phase 2



USDA/NASS

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	VERSION 12	OAT PRODUC	ID			TRACT 01	1	RACT	C-TYPE 110	
				CONTACT	T RECORD					
DATE	TIME					NOTES				
		vill be used for sta								
discloses ANY accordance w U.S.C. Ch. 35 https://www.na According to ti collection of in complete this	/ identifiable infoith the Confider and other appliass.usda.gov/cohe Paperwork Formation unles information colling.	ormation about youtial Information P cable Federal law onfidentiality. Resp Reduction Act of 1 as it displays a val ection is estimate es, gathering and	ou or your or rotection a vs. For more conse is vo 995, an ag id OMB co d to average	operation is and Statistication re information obluntary. gency may reported number ge 65 minution	subject to al Efficience on on how not conducter. The vali es per resp	a jail term, a sy Act of 2016 we protect y t or sponsor, d OMB numb ponse, include	fine, or bo 8, Title III o our inform and a per ber is 053 ling the tin	oth. This of Pub. L ation ple son is no 5-0218. The for rev	survey is cond. No. 115-435 ase visit: of required to required to required to required to require ime requirewing instructions.	ducted in , codified in 44 respond to a red to ctions,
[MIL	NG TIME 0004 LITARY]	M M						SCREE 0006	NING BOX	
Check if ve	erified POID				□ Che	eck if verified	POID			
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		Total Planted Acres
	Harmon and the large of the little in the little in the large of the l	0050
	How many total acres of oats did this operation plant for the 2023 crop year?	
[lf	f no acres were planted, review Screening Survey Information Form, make notes, then go to back pag	e.]
		Code
	a. Did you produce any acres of certified organic oats?	1 XXXX 3
	b. Of the total (item 1) acres, how many were planted using/as —	
	Total Acres	Number of Fields
	i. Conventional oats?	xxxx
	ii. Certified organic oats?	xxxx
ĺν	will follow a simple procedure to make a random selection from the oat fields planted for the 2023 cro	
-		Total Number Of Fields Planted
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.]	0020
3.	. [Now, I need to identify an oat field to be used for this survey.] The oat field pre–selected for this in	terview is the:
	1 ☐ Northern most field	
	₂ Southern most field	
	Field description:	
	4 ☐ Western most field	
	₅ Northeastern most field	
	₆	
	₇ ☐ Northwestern most field	
	8 Southwestern most field	
4.	The field selected is (field name/number/description). During this interview, the data about this selected oat field. [Be sure the operator can identify the selected field.]	oat questions will be
5.	For the randomly selected field above, please provide the following Farm Service Agency (FSA) ide	ntifiers:
of FS nu	Having this information helps USDA make better use of other data you have provided to USDA and will statistical analysis that can be done with the responses from this survey. If the physical field in this s SA administrative fields, please include the farm, tract, and field number for the largest administrative umbers are field identifiers that USDA uses to administer farm programs like crop insurance, commod onservation programs.]	urvey spans multiple field. These
		Number
	a. Farm Number (up to 8 digits)	'0
	b. Tract Number (up to 7 digits)	'1
	c. Field Number (up to 4 digits, exclude subfield letters)	<u></u>
		OFFICE USE

		Acres
1.	How many acres of oats did this operation plant in the selected field for the 2023 crop?	1301
	•	Code
	a. Are the acres in the selected field certified organic or transitioning into certified organic oat production?	1890
[If	item 1a = 1 or 2, then ask—]	Dollars & Cents per Acre
	b. What was the cost, per acre, for third party organic certification?	1399
2.	Were the acres in the selected field—	Code 1302
[If	field is cash rented (item 2 = 2, 3, or 5), ask item 3, otherwise go to item 4.]	Dollars & Cents per Acre
3.	What was the cash rent paid per acre for this 2023 oat field?	1303
[lf	field is share rented (item 2 = 4 or 5), ask—]	Percent
4.	What was the landlord's share of the crop from the selected field?	1304
[lf	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.	Total Dollars
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: grain and grazing 5 Cover crop only 6 Other uses - Specify:	Code 3117
[lf	7a = 1 or 2, ask—]	Code
	b. What is the primary purpose of the oats that are planted in this field?	3111
	-	Bushels per Acre
	c. What was your yield goal at planting for the selected field?	1311
	_	

				1 Purchased			Code
8. WI	nat was the source of the oat seed?			2 Homegrowr3 Both	or traded		1317
[If item	n 8 = 2 or 3, ask—]		L			Į	Dollars & Cents per Pound
įn kon	10 20 0, 40 1						3321
a.	What was the cost per pound for cleaning	and treating	g this seed?				·
							Percent
						_	1318
b.	How much of the oat seed planted in this f	ield was gro	own (or received	in trade) by t	his operation	?nc	Linit Code
							Unit Code 1=Pounds
							2=Cwt 3=Tons
[If any	seed purchased (item 8 = 1 or 3), ask—]				Dollars & C	ents	4=Bushels 22=Acres
					per Uni	t	23=50 lb. Bags
	hat was the total cost per unit of purchased erator, landlord, and contractor costs, cost of				1319		1320
ОΡ	erator, faridiord, and contractor costs, cost (n seed trea	irrent, and teem	lology lee	•		Code
			1 Treated with a	pesticide prior	to purchase	?	3062
10. Fo	r the 2023 oat crop, was the oat seed—		2 Treated with a3 Not treated with	pesticide after			
[If item	n 10 = 1 or 2, continue, otherwise go to item	11.]					
			Seed Trea	atment Name			_
a.	What was the name of the seed	1289]
	treatment? [Write seed treatment name in the box provided.]						
b.	What was the seed treatment code? [Ente Respondent Booklet. Enter "999" if a seed seed treatment is not known.]	treatment	was applied but	is not listed.	Enter "-1"		Code 2325
	seed treatment is not known.j		•••••				Code
							2340
11. Fo	r the 2023 oat crop, did you plant a comme	cial seed p	roduct on the sel	ected field?		Yes=1 No=3	;
[If item	n 11 = 1, ask—]		Commercial Se	eed Product Nar	ne		
a.	What was the name of the seed product? [Write seed product name in the box provided.]	2342					
h	'	the engrees	riata product and	o from the D	anandant		Code
D.	What was the seed product code? [Enter Booklet. Enter "999" if a seed product was not known.]	s purchased	but is not listed	. Enter "–1"	if the produc	ct is	2343
	•						Unit Code
							1=Pounds/Acre 2=Cwt/Acre
							3=Tons/Acre 4=Bushels/Acre
					Units		23=50 lb. Bags/Acre
40 \\		41 1 .	.t. 16.11		1313		2314
12. VVI	hat was the seeding rate per acre the first til	ne the sele	cted field was pla	anted?		<u> </u>	
							Acres
13 🖺 -	ow many acres in the selected field had to be	a ranlantad	to oat?				1315
	·	•					<u> </u>
(A	cres replanted = Number of Acres x Numbe	r ot times re	epianted.)				Code
						Yes=1	1328
14. Ha	as harvest of the selected field been complete	ted?				No=3	ا

[Now I need information about the acres harvested or to be han	vested and the yields fro	m the selected fie	ld.]
15. How many acres in this oat field were or will be—	Acres	What yield per acre you get or do you expect to get for oa Units per Acre	3=Tons
the man to differ manife 0	1346	1347	1348
a. harvested for grain?	•	•	
b. harvested for hay, silage, or green chop?	1349	1350	TONS
c. harvested for commercial seed contract?	1431	1432	1433
d. abandoned?	1351		
e. used for some other purpose?	1439		
16. Was straw harvested from the selected field?			
1520 ₁ Yes – Continue ₃ No –	Go to item 18		Acres
17. How many acres of this oat field were harvested for straw?			1521 •—
			Total Tons
a. How many total tons of oat straw were harvested from th	nese oat acres (item 17)?	>	1522
•	, , ,		
Tons per Acre Acres Total Tons OR Bales	Lbs per Bale Lbs per	Ton Total Tons	
		Percent C	R Tons
b. Of the total oat straw harvested from this field (item 17a) landlord's share of the oat straw?		1523	1524
			Total Dollars
c. What was the total cost of baler twine/wire used to bale t	the oat straw from this fi	eld? INCLUDE	1525
[If any oat straw was sold, ask—]			Dollars & Cents Per Ton
	47 \ 116 (11.6)	10	1526
d. What was the price received per ton for all oat straw (iter	m 17a) sold from this fiel	<u> </u>	
	1 Cattle 2 Sheep		Code
18. What type of livestock grazed the selected oat field during the 2023 crop year?	3 Other, Specify:4 Not grazed		3147
[If item 18 is 4, go to item 19, otherwise, ask—]			
			Head
	45.110		Head 1362
a. About how many head of livestock (item 18) grazed this	oat field?		
a. About how many head of livestock (item 18) grazed this	oat field?		1362 Days
a. About how many head of livestock (item 18) grazed thisb. How many days did this livestock graze on this oat field			1362
, , , , , , , , , , , , , , , , , , ,			1362 Days
, , , , ,	?	Yes=1	Days 1363

	Crop Code List for item 1	19 – Previously Planted Cr	ops
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	1	,
1			2	3	4
What crops were planted on [For perennial crops, (1, 11, 292, 302, and 311) rethe crop was great the crop wa	eport the crop code in all		Was this a cover crop?	If a cover crop was planted, how did you terminate this cover crop?	Was the selected field no–till or strip–tilled? ^{1/}
			Yes=1	1 Tilled-in 2 Herbicide 3 Rolled 4 Grazed 5 Harvested for forage 6 Harvested for grain 7 Winter killed	Yes=1
Season and Year	Crop Name	Crop Code	No=3	Code	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.

Ilf a cover crop was planted in Spring/Summer/	/E-II 2022!: 1
III a cover crop was planted in Spring/Summer/	rali zuzz. ask—i

- 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......

	Code	
Yes=1 No=3	0702	
	1405	
Yes=1 No=3		

Dollars & Cents per Acre

			1 Nearly level (0 – 2%)	()	Code
22	\//h	at is the slope of the selected field?	2 Even, moderate grade (3 – 9% 3 Variable, moderate grade		2400
ZZ .	VVII	iat is the slope of the selected field?	4 Even, steep grade (over 10%)5 Variable, steep grade		
			1 Loam 2 Clay		Code
23.	Wh	eat is the primary soil type of the selected field?	3 Sandy		2401
_0.	••••		4 Mixed 5 Silty		
					Unit Codes 1 Currently a concern
24.	In t	he selected field, are any of the following currently or historical	ly a concern?		2 A concern in the past
					but not anymore 3 Not a concern
					Code
					2407
	a.	Water–driven erosion			
	b.	Wind-driven erosion			2408
	C.	Soil compaction			2409
		·			2410
	d.	Poor drainage			
	e.	Low organic matter			2411
	f.	Water quality			2412
	a	Other geneerns			2413
	g.	Other concerns			2415
	h.	Water availability			2410
[If i	tem	s 24a – 24h are all "Not a concern", ask—]			Code
	i.	If the answer to all of the above was "Not a Concern", is it the		Yes=1	2414
		significant concerns on this field?		No=3	
					Code
25	Did	I the land use practices for the selected field include subsurface	a drainage?	Yes=1 No=3	2402
		: 1, continue. Otherwise go to item 26.]	e drainage:	110-3	
ןוו ב	25 –	, continue. Otherwise go to item 26.]			Year 2403
	a.	In what year was the current subsurface (tile) drainage installe	ed?		2403
		, , , ,			Inches
					2604
	b.	What is the average depth of your draining system?			
					2605
	C.	What is the diameter of your tiles?			
00	~				Hours
26.		average, how many hours does it take your field to return to no owing a heavy storm?			2606
		-			Code
	a.	Does this system include a mechanism for controlled drainage	e (e.g. stop logs, risers,	Yes=1	2406
		or float mechanisms)?		No=3	

27.		s the selected field ever been in any conservation contracts for which you or your landlord received expected to receive) cost–sharing payments, stewardship payments, or incentive payments?	Uni 1 Curre 2 Past 3 Neve	
	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
28.		ring the last four years, did you apply for conservation funding, either through any Federal, Yes=1 te, or local program, for the selected oat field?	2402	

29. [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.]

 Please check any practices or activities that you used on the selected field this year or any time
--

On-field Soil and Crop Management	₁₀ Terraces	Implement an integrated pest management plan – written plan
1 No-till/strip-till	₁₂ Grass waterway	31 Drift reducing spray nozzles
Conservation tillage except no-till/strip-till	Implement a nutrient management plan – written plan.	Targeted sprayer – electrical control
3 Cover crop – single species	21 Precision nutrient application	Adjacent to Field
4 Cover crop mix	Subsurface phosphorous application	₃₃ Filter strip
5 Contour farming	No fertilizer application more than 30 days before planting	34 Field border
6 Conservation crop rotation	Controlled release or enhanced efficiency fertilizer	₃₅ Riparian buffer – grass or forest
7 Laser leveling	Split nitrogen application with at least 50% applied after planting	Irrigation water management plan
		99 None of the above
b For each practice or activity chec	cked in 29a, please complete one line of t	his table.

For each practice or activity checked in 29a, 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).]

e of the above	was selected, repor	it code 99 in the histrow	(item 1610).]
2	3	4	5
	Not used in 2023 but used in earlier years	from EQIP, CSP, or similar program 2 Did not receive a payment in 2023 but have in earlier years	A federal, state, or local regulatory requirement Highly erodible land conservation compliance Does not relate to any regulation or compliance requirement
Code	Code	Code	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
	2 Practice Code (see item 29a) Code 1610 1615 1620 1625 1630 1635 1640 1645 1650 1655	2 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 Code 1610 1614 1615 1619 1620 1624 1625 1629 1630 1634 1635 1639 1640 1644 1645 1649 1650 1654	Was this practice or plan used on this selected field in 2023? Practice Code (see item 29a) 1

					Code
		d covered by a single or named peril crop)?		-	
[If item	30 = 1, continue. Otherwise, go to iten	n 31.]			Code
a.		field covered by more than one single or it, wind, freeze)?			
					rs & Cents er Acre
		ge per acre for the single peril policy cove		1395	·
C.		for the single peril policy covering the sele		2722	·
				Р	ercent
d.		ne single peril policy covering the selected		2723	
					Code
e.		ity payment for the selected field from the		- 1	
					Code
pro	vided protection against yield or reven	d covered by a multi–peril federal programue losses? These types of policies include	e crop Yes=		
	·	rograms	No=	3	
lit item	31 = 1, continue. Otherwise go to Sec		(NAD CAT)		
		 Noninsured Crop Disaster Assistance Progra Federal CAT (basic catastrophic insurance) Noninsured Crop Disaster Assistance Progra Actual Production History (APH) buy–up 	, ,	1386	Code
a.	What type of multi–peril coverage did you obtain?	5 Revenue Protection (RP) 6 Other Federal crop insurance			
[If item	31a = 2, ask—]	'		F	Percent
•	, <u>.</u>			1387	
	i. What percent of yield coverage di	d you select for the selected field?			
	ii. What percent of revenue coverage	e did you select for the selected field?		1388	
[If item	31a = 3, ask—]			F	Percent
	iii. What percent of revenue coverage	e did you select for the selected field?		1389	
			1 Basic		Code
b.		rchase for the multi–peril policy on the	2 Optional 3 Enterprise	2524 	
					Year
C.		ed on the label, first purchase multi–peril c	•	. 2525	
				CW	Γ per Acre
d.	What is the 2023 Approved APH (actu	ual production history) yield for the selecte	ed field?	2526	
				Dolla	rs & Cents er Acre
e.		peril crop insurance for the selected field		2527	• <u> </u>
					Code
f.		y payment for the selected field from mult			

											Code	Office Use Edit Table	
1.								d field for the nd contractors.	Yes=1	202		0200	
[If	item 1 = 1	1 continue	e. Otherw	ise go to	item 6]							Number	
2.								made to the se				0203	
3.	Now I ne	eed to rec	ord inform	mation fo	r each app	lication.							
				CHEC	KLIST								
		INC	LUDE			EX	CLUD)E					
	Custom	applied nutri	ients or fert	ilizers	☐ Micror	nutrients							
	Nutrients	or fertilizer	s applied in	the fall of	☐ Unpro	cessed man	ure						
		d those appl field was fa				nts or fertiliz in the select		plied to previous					
	Commer compost	cially prepar	red manure	or	Lime a	and gypsum/	landpla	aster	Office Use Lines in Table	Э	Table 001	0299	
	Nitrog	en Codes	for Colum	n 2 Source	e/Form of N	Used] [A	pplication Co	des	for Column 6		
	1 Anhydrous 2 Nitrogen s 3 Urea 4 Ammoniur 5 Sodium ni	olution (UAI m nitrate	N) 7 Potas magn calciu 8 Other	onia sulfate ssium nitrate esium nitra im nitrate nitrogen fe rial [specify	e, ate, and ertilizer	1	2 B 3 B	roadcast, ground roadcast, ground roadcast, by aircra seed furrow	with incorporat		6 Chisel/inj 7 Banded i	on water ected or knifed i n or over row directed spray	n
			2			3		4	5		6	7	
	[Enter p	percentage a		actual pour	nds of plant	What qua	ed per	[Enter material code]	When was t applied?		How was this applied?	How many acr the selected field	d were
	[Enter percentage analysis or actual pound nutrients applied per acre.] L [Show Common Nutrients or Fertilizers in R Booklet] N [Refer to nitrogen list above for type of nitrogen list abov		Respondent	[Leave t column bla actual nuti	his ank if rients	1 Pounds 12 Gallons 13 Quarts 19 Pounds of	1 In the fall be seeding 2 In the spring before seed	g	[Refer to code list above]	treated in the application			
E	N	P ₂ O ₅ Phosphate	K₂O Potash	S Sulfur	Source/Form of N Used [Refer to code list above]	were repo	nteaj	actual nutrients	3 At seeding 4 After seedin			Acres	
0	31	32	33	34	35	36		37	38		39	40	
02	31	32	33	34	35	36		37	38		39	40	<u>'</u>
	31	32	33	34	35	36		37	38		39	40	
0;	31	32	33	34	35	36		37	38		39	40	•
04	31	32	33	34	35	36		37	38		39	40	<u>•</u>
0	5												•
0	31	32	33	34	35	36		37	38		39	40	•
0	7 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	<u> </u>

			Code
4. W	ere any nutrients or fertilizers applied by custom applicators?	Yes=1 No=3	
[If iten	n 4=1 continue. Otherwise go to item 5.]		Code
•	Are you able to report the cost of nutrient or fertilizer materials and custom application separately?	Yes=1 No=3	2216
[If iten	n 4a = 1 continue. Otherwise go to item 5.]		Office Use
			0215
b.	Excluding the cost of the nutrient or fertilizer materials, how much was spent for custom fertilizers on the selected field?	application	of nutrients or
	 INCLUDE operator, landlord, and contractor costs costs for sulfur and micronutrients EXCLUDE custom application of lime, gypsum, purchased manure, and 	~ ~ ~	Total Dollars
	EXCLUDE custom application of lime, gypsum, purchased manure, and purchased compost		0220
[If ma	terial and application costs can't be separated, exclude them here and record the total in it	em 5.]	
5. W	hat 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		0222
	tom applied and the cost of materials can be separated from application costs, include the vise, include both the material and application costs.]	cost of ma	Code
6. W	as gypsum applied to the selected field for the 2023 oat crop?	No=3	
	as a soil test for soil organic matter performed on the selected oat field at some point in the st 10 years?	e _{Yes=1} No=3	3225
[If iten	n 7 = 1, ask—]		Percent
a.	What was the percentage of soil organic matter on the selected field for the most recent	test?	3226
			Number
b.	How many times have you tested the selected field for soil organic matter in the last 10 y	ears?	3227
[If iten	n 7b 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
	as a soil or plant tissue test performed on the selected oat field in 2022 or 2023 for the 202 op?	100 1	0224
	n 8 = 1, continue. Otherwise go to item 13.]	No=3	Codo
9. W	as a soil test for phosphorus performed on the selected oat field in 2022 or 2023 for the 20	103-1	0225
	op?	No=3	_
[If Iten	n 9 = 1 ask—]		Pounds per Acre
a.	How many pounds of phosphorus per acre were recommended by the phosphorus test?		0226

					Code
	as a soil test for nitrogen performed on the			Yes=1 No=3	0227
[If iten	n 10 = 1, ask—]				Pounds per Acre
2	How many pounds of nitrogen per acre	wore recommended by the nitrage	n tost?		0228
a.	Tiow many pounds of filliogen per acre	were recommended by the hitroge	11 (65) ?		Code
	as a plant tissue test or leaf analysis for n			Yes=1 No=3	0229
			Dollars & Cents per Acre	OR	Total Dollars
	ow much was spent for these soil and plar ld? INCLUDE operator, landlord, and cor		0230	_	0231
[If test	s were done at no cost, continue. Otherw	rise go to item 12b.]		_	
		Soil/plant tissue test provided free dealer, crop consultant, or extensi			Code 0232
a.	What is the reason why tests were done at no cost?	Soil/plant tissue test costs were in total fertilizer costs reported in iter			0232
		3 Some other reason			Code
b.	Did you receive a payment from a conseperforming a soil or plant tissue test?			Yes=1 . No=3	3231
	nerator Action: Refer to the Fertilizer Table hitrogen applied, go to item 15.]	e, column 2. If nitrogen (N) was ap	plied, complete ite	em 13.	
	as the amount of nitrogen you decided to	apply to the selected field based o	n—		Code
				Yes=1	0233
a.	Results of a soil or plant tissue test?			. No=3	
b.	Crop consultant recommendation?			Yes=1 . No=3	0234
C.	Fertilizer dealer recommendation?			Yes=1 No=3	0235
d.	Extension Service recommendation?			Yes=1 . No=3	0236
e.	Cost of nitrogen and/or expected comm	odity price?		Yes=1 No=3	0237
f.	Contractor recommendation?			Yes=1 . No=3	0238
g.	Routine practice – operator's own deter	mination based on past experience	e, yield goal, etc.?.	Yes=1 No=3	0239
	,	1 Nitrification inhibitors (such as N–S	Serve)		Code
us	hich of the following products did you e to slow the breakdown of nitrogen on s field?	 Urease inhibitors (such as Agrotain Chemical-coated fertilizers (such a urea and polymer-coated urea) Other inhibitors None 	n)		0241
[If nitro	ا ogen inhibitors were used, continue. Othe	pruise de te item 151	Pounds per Acre	OR	Gallons per Acre
a.	How much nitrogen inhibitor did you mix the selected field?	with the nitrogen applied to 256	-	25	-
	and deficient field:		Dollars & Cents per Pound	∟ OR	Dollars & Cents per Gallon
b.	What was the cost of nitrogen inhibitors operator, landlord, and contractor costs.			02	-

					Code	
15 ls	lime ever applied to the selected fie	eld?		es=1	0242	
	n 15 = 1 continue. Otherwise go to		IN	10-5	Years	
•	· ·	•			0243	
a.	On average, how many years are	there between applications of lime to the se	elected field?		Tons per A	cre
					0244	OI C
b.	How many tons of lime were appl	ied per acre the last time it was applied to the	ne selected field?			•
			V	00-1	0240	
C.	Was lime applied to the selected to	field in 2022 or 2023 for the 2023 crop?		No=3	0240	
		manure from own farm, from a neighbor's fa			Code	
		post, applied to the selected field for the 202 anure		′es=1 No=3	0246	
[If iten	n 16 = 1 continue. Otherwise go to	Section D.]			Acres	
	To how many cares in the colocto	d field was manure or compact applied?			0247	
a.	TO HOW THATTY ACTES ITT THE SELECTE	d field was manure or compost applied?	Units per acr		Unit Codes 1 Tons 2 Gallons 3 Bushels 4 Cubic yards	•
b.		or compost applied per acre to the selected			0248	
C.		oplied to the selected field for the 2023 oat	crop, what was			
	the percent of manure or compos	t applied—			Percent	
	i. in the fall before planting?			+	0254	
	ii. in the spring before planting?.			+	0255	
	iii. after planting?			+	0256	
	, ,			=	100%	
			1 Lagoon liquid?		Code	
d.	Was the manure or compost—		2 Slurry liquid? 3 Semi–dry or dry?	<u></u>	0257	
		1 Broadcast or sprayed without incorporation?			Code	
e.	Was the manure or compost—	2 Broadcast or sprayed with incorporation? 3 Injected/knifed in? 4 Sprayed using irrigation systems?			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? 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	16g = 2, continue. Otherwise		.,,.		
in Kom	r rog - E, contantac. Canol wice	ge to item rom,	Dollars & Cents per Acre	OR	Total Dollars
		of the purchased manure or compost applied	0284		0285
	INCLUDE			1	
		and contractor costs e for transportation costs			Code
				Yes=1	0286
	ii. Did you hire someone to	custom apply the manure or compost?		No=3	
[If item	16gii = 1, ask—]				
			Dollars & Cents per Acre	OR	Total Dollars
	applied to the selecte	ost paid to have manure or compost custom and field? INCLUDE operator, landlord, and	0287		0288
[Do no		st if it was included with the purchased manur]	
טוז טען	it report custom application cos	stillit was included with the purchased manuf	e or compost cost.	.]	
					Miles
h.		between the manure or compost storage/prod		id the	0291
					Code
i.		oplied to the selected field, was any tested for		Yes=1 No=3	0261
j.	Was the application rate of co to manure or compost applica	ommercial nitrogen fertilizer on the selected fie ation?	eld reduced due	Yes=1 No=3	0262
[If 16i =	= 1, ask—]				Percent
. ,	i. By what percent did you i	reduce the commercial nitrogen fertilizer appli			0263
	ociocioa noia :			• • • • • • • • • • • • • • • • • • • •	Code
		rvest date for the selected field due to the app		Yes=1 No=3	0280
	manare or compose:			110-3	
47 \\	41		b F a d a a a l		Code
		plication rates to the selected field influenced		Yes=1 No=3	0264
[If item	17 = 1, ask—]				
a.	What basis was used to dete	rmine these manure application rate restriction	ns—		Code
	i. Nitrogen requirement of t	he crop?		Yes=1 No=3	0265
	•			Yes=1	0266
	ii. Phosphorus requirement	of the crop?		No=3	

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.

Office Use Edit Table

Were any herbicides, insecticides, fungicides or other biocontrols or pesticides used on this oat field for the 2023 crop?	Yes=1 No=3		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 defoliants, fungicides, herbicides,		ts, nutrients or fertilizers			
insecticides, and other pesticides.		d earlier and seed	Office Use	Table	0399
INCLUDE biological and botanical pesticides.	treatme	nts.	Line in Table	001	

		2	3	4	5	6 OI	 7	8
Chemical Product Name	L I N E	What products were applied to the selected field? [Show product codes from Respondent Booklet.]	Was this product bought in liquid or dry form? [Enter L or D]	If this was part of a tank mix, enter line number of first product in mix.	When was this applied? 1 Before planting 3 At planting 4 After planting 5 Defoliation prior to harvest	How much was applied per acre per application?	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
- 2 Broadcast, ground with incorporation
- 3 Broadcast, by aircraft
- 4 In seed furrow
- 5 In irrigation water

- 6 Chiseled/injected or knifed in7 Banded in or over row
- 8 Foliar or directed spray
- 9 Spot treatments

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

					Code
3.	We	re any chemicals, biocontrols, or pesticides applied by custom applicators?		Yes=1 No=3	0323
[lf i	tem	3 = 1 ask—. Otherwise go to item 4.]			Code
	a.	Are you able to report the cost of chemical, biocontrol, and pesticide produ application separately?		Yes=1 No=3	0324
[lf i	tem	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
4.	app	at was the total cost of all chemical, biocontrol, or pesticide products blied to the selected field? INCLUDE operator, landlord, and contractor sts, defoliants, herbicides, insecticides, fungicides, surfactants, wetting	Dollars & Cents per Acre	OR	Total Dollars
ag		ents, growth regulators, and materials applied before planting and during 22 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? NCLUDE 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
Not	:e:	If custom applied and the costs for materials can be separated from application cost Otherwise, report both the material and application costs in item 4.	sts, include the cost f	or mate	erials only.

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.

[Er	numerator Action: Were pesticide applications rep	ported in Section D?]		
	☐ Yes – Continue ☐ No – Go to item 6		Ī	Code
1.	Were weather data used to assist in determining applications?		Yes=1 No=3	0800
2.	Were any biological pesticides such as Bt (<i>Bacill</i> neem or other natural/biological based products selected field?	sprayed or applied to manage pests in the	Yes=1 No=3	0801
3.	Were pesticides with different mechanisms of ac purpose of keeping pests from becoming resista		Yes=1 No=3	0802
	numerator Action: Were herbicide (pesticide prod Section D, item 1, column 2?]	uct codes 40000–49999) applications reported	·	
	☐ Yes – Continue ☐ No – Go to item 6		ĺ	Code
4.	Were herbicides applied to the selected oat field	before weeds emerged?	Yes=1 No=3	0803
5.	Were herbicides applied to the selected oat field	Yes=1 No=3	0805	
6.	Were records kept for the selected field to track diseases?	Yes=1 No=3	0823	
7.	Did you use published information on infestation measures to manage pests in the selected field?	Yes=1 No=3	1824	
		1 By deliberately going to the field specifically for scouting activities [Enter code 1 and go to item 9.]		Code
8.	In 2023, how was the selected field primarily scouted for insects, weeds, diseases, and/or beneficial organisms?	2 By conducting general observations while performing routine tasks [Enter code 2 and go to item 10.]		0808
	beneficial organisms?	3 The selected field was not scouted. [Enter code 3 and go to item 14.]		Code
9.	Was an established scouting process such as sy or were insect traps used in the selected field?		Yes=1 No=3	0809
10.	Was scouting for pests done in the selected field	d due to—		Code
	a. a pest advisory warning?		Yes=1 No=3	0810
	b. a pest development model?		Yes=1 No=3	0811
[lf s	scouted by crop consultant or commercial scout, a	ask item 11. Otherwise go to item 12.] Dollars & Cents per Acre	OR	Total Dollars
11.	How much was charged for the scouting services INCLUDE operator, landlord, and contractor cost	s for the selected field?		0822
				Office Use
	If scouting performed at no cost, explain:			0333
				Code
12.	Were scouting data compared to published information when to take measures to manage pests in the state of th		Yes=1 No=3	

1	2	3
13. Do you believe that the selected field was infested with any of the following pests or diseases?	Yes=1 No=3	[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 1 and .5 times the threshold) 4 Much lower (between .5 and 0 times the threshold) 99 Don't Know Code
a. Crown rust	xxxx	xxxx
b. Stem rust	xxxx	xxxx
c. Barley dwarf virus	xxxx	xxxx

	C.	Barley dwarf virus		
				Code
		you use field mapping of previous weed problems to assist you in making weed nagement decisions?	Yes=1 No=3	0825
		you do any of the following other types of pest management for the specific purpose of naging or reducing the spread of pests in the selected field?		Code
i	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	
	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	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
	0.	Use a flamer to kill weeds?	Yes=1 No=3	0857
	p.	Maintain buffer strips or border rows to isolate oat 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

Code

16. Were any beneficial organisms, such as insects, nematodes, or fungi applied or released in the selected field to manage pests?					
				Code	
17. Were floral lures, attractants, repellants, pheromone traps, on the selected field?			Yes=1 No=3	0858	
[If item 16 or item 17 = 1, ask—]					
a. What were the total materials and application costs for a	ıll biological pest con	trols for the selec	ted fie	eld?	
INCLUDE		Dollars & Cents			
 operator, landlord, and contractor costs 		per Acre	OR	Total Dollars	
 cost for beneficial organisms, insects, ne EXCLUDE biological pesticides previously repor 		0859		0860	
			<u> </u>		
			Γ	Code	
18. Was a trap crop, excluding fallow, grown to help manage ins	sects in the selected		Yes=1 No=3	0863	
			-	0864	
19. Was the selected field left fallow in 2022 to help manage ins	ects on the selected		No=3		
20. Were water management practices such as irrigation schedu		F	Code		
treatment of retention water used on the selected field to ma fungi and bacteria?	0 1		Yes=1 No=3	0861	
21. Was protection of beneficial organisms a factor in your pest			Yes=1	1765	
field?			No=3		
[If item 21=1, continue. Otherwise go to item 22.]			Γ	Code	
a. Did you change timing of, reduce application rate of, or	oliminata a nosticida		Yes=1	1766	
a. Did you change timing of, reduce application rate of, or e	eliminate a pesticide	• •	No=3	1767	
b. Did you change to an alternative pesticide, biocontrol, or	non–pesticide pract		Yes=1 No=3	1707	
			L	Unit Codes	
				1 Pounds 2 CWT	
		Units per A	re.	3 Tons 4 Bushels	
		2735		2736	
22. If untreated (either with herbicides, tillage, or cultivation), ho bushels per acre) do you think weeds would most likely cause	•	g.		2.00	
business per acre, do you trillik weeds would most likely cad-	se on the selected he	siu :			
			ſ	Code	
23. Did pests, such as weeds, insects, pathogens, or animals, or field in spite of your pest control efforts?			Yes=1 No=3	0827	
[If item 23 = 1, ask]			_		
		Unit Codes			
		1 Pounds 2 CWT			
a. How much yield loss per acre do you think was caused	Units per Acre	3 Tons 4 Bushels	OR	Total Units	
by all pests on the selected field in spite of the management practices you used to reduce those	· · ·)828	т г	0830	
losses?					
			_ L		
				n Code for ement Data	
		1 Incomplete/R	efusal	0500	

				FIE	LD OPER	AHONS -	— ა⊏	LECTEL	ו דודו	LD		Г		
					list field wo	rk performed	d by r	machine	s	INCLUDE	Check List all field work using ma	achines for—		
	•	begin with t operations	he first field o	peration afte op establishe	r harvest of the	previous crop, vious crop was				☐ Land forming/Levee Building ☐ Tillage				
	•	list the oper point of sale	rations in orde e; and	er through ha	rvest and hauli	ng of this crop t	to stora	age or first	t	☐ Preparing for Irrigation☐ Planting				
	maintain the order of tandem hook–ups. Codes You (the Operator) Partner					n 5				☐ Harv	lizer & Pesticide app vesting & Hauling to s rst point of sale			
			3 U 4 P 5 P	Inpaid Worke	er e or Seasonal Worker Worker 0499			EXCLUDE ☐ Lime & Gypsum/land plaster applications ☐ Compost & Non–commercial manure						
1	2	3	4	5	Jaioi		If Colu	umn 5 = cc	ode 6. s	مه kip columns	oplications 6 thru 11]			
					6	7	_)R	9	10	11		
L N E	SEQUENCE	What operation or equipment was used?	[Record machine code from Respondent Booklet.]	Who was the machine operator? [Enter code from above.]	What was the size or swath of the [machine] used?	[Record size unit code.] 1 Feet 2 Row 3 Moldboard bottoms Hauling 4 Pounds 5 Bushels 6 Tons	Hovacro	w many es were vered? CLUDE I forming I hauling erations.	How hours on la and la back bordit mou	many total were spent nd forming I hauling? Example: khoes, disk der maker, cher, rear nted blade, ks, wagons, rklift etc.]	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	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		
No.	No.		Code	Code		Code	,	Acres		Hours	Code	Code		
01	87		88	89	90	91	92	•	93		94	95		
02	87		88	89	90	91	92	•	93		94	95		
03	87		88	89	90	91	92	•	93		94	95		
04	87		88	89	90	91	92	•	93		94	95		
05	87		88	89	90	91	92	•	93		94	95		
06	87		88	89	90	91	92	•	93		94	95		
07	87		88	89	90	91	92	•	93		94	95		
08			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		

^{1/}If trucks other than pick–ups are used as the power source, use truck codes in Respondent Booklet

13 87

14 87

15 87

17 87

Office Use

[Er	[Enumerator Action: Were machine or equipment codes reported in Question 1?]					
	xxxx ₁ Yes – Continue	No – Go to item 3	_	Code		
2.	Were any of the machines or equipment repor new during 2023?		Yes = 1 No = 3	xxxx		

1	2	3
Machine purchased new in 2023	[Record machine code from respondent booklet.]	Dealer's list price of the machine. (This should be the "sticker price", not including discounts or trade–in values for used machinery.)
	Code	Dollars
xxxx	xxxx	xxxx

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.

	How many hours did (type of worker) spend on the selected field—							
	1	1 2						
	scouting for weeds, insects and diseases?	irrigating?	performing other work by hand?					
Type of Workers	Hours	Hours	Hours					
You (the operator)	1101	1102	1103					
Partner(s)	1104	1105	1106					
Unpaid workers	1107	1108	1109					
Paid part–time or seasonal workers EXCLUDE custom and contract labor	1110	1111	1112					
Paid full–time workers EXCLUDE custom and contract labor	1113	1114	1115					

	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.	Dollars & Cents Per Hour	OR	Total Dollars per Week	AND	Number of Hours Worked Each Week
	EXCLUDE custom and contract workers, payroll taxes and benefits	1119 •		2119		3119
5.	What was the average hourly wage rate paid to full–time	Dollars & Cents Per Hour	OR	Total Dollars per Week	AND	Number of Hours Worked Each Week
J.	hired workers on the selected field? EXCLUDE custom and contract workers, payroll taxes and benefits	1118		2118		3118
					_	Code
6.	Was any contract labor used on the selected field?				Yes=1 No=3	1116
[If it	em 5 = 1, continue. Otherwise go to item 6.]					Dollars & Cents Per Acre
	 a. What was the average cost per acre for this contract la INCLUDE operator, landlord, and contractor costs 					1117 •
7	What percent of the total number of unpaid hours worked	on the selected fi	eld w	as performed by		Percent
•	workers under 16 years of age? Estimates of labor costs to	or unpaid worker	s are	based on off-far		1120
	wage rates, which are different for workers under 16 relative	e to those 16 an	d old	ər		
	Now I need some information on how much was spent or withe 2023 oat crop.	vill be spent for c	ustor	n services used o	on the	selected field for
	1					2
	Custom Service					cluding operator,
						landlord, and tractor costs, how
	Maria 611 611 .					ch was spent for column1] on the
	Which of the following services was for the 2023 oat crop on the se				sele	ected field for the
	·				2	2023 oat crop?
	[Check box for each service performed; refer to item 1 if	necessary.]				Dollars & Cents per Acre
	a. Custom land preparation, shaping and/or leveling	?			1121	·
	b. Custom cultivating?					•
	c. Custom planting and/or reseeding?				1123	•
	d. Custom harvesting?				1124	
	e. Custom hauling to storage or point of first sale?				1126	
Ш	(Dollars & cents per unit x Total units hauled from field ÷ Acres ha	rvested in field = Doll	lars & d	ents per acre)		•
	f. Custom harvesting and hauling from field to stora	ge or point of firs	t sale	?	1127	
Ц	(Dollars & cents per unit x Total units hauled from field ÷ Acres ha		-			
	(2 2	ii vestea iii iicia — Doii	iais a c	' '		
	g. Custom raking, baling, and hauling the straw from x (Dollars & cents per unit x Total units hauled from field ÷ Acres ha	the selected fiel	d?		1128	

Code

		re the oats harvested and hauled from the selected field dried (or will be dried) before it was d or stored?	Yes=1 No=3	2748
		you hire any technical or consultant services to make recommendations such as for rient, pest control, irrigation, or precision farming for the selected field?	Yes=1 No=3	1196
[If it	em			
11.				
	rec	ommendations 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 a	ıny i	item in 11a–g = 1, continue. Otherwise go to item 13.]		Code
		re any of the technical or consultant services listed in item 11a–g provided to you at no cost vere partially reimbursed by the Natural Resources Conservation Service (NRCS)?	Yes=1 No=3	xxxx
	INC tiss	at was the cost for any technical or consultant services reported in item 10. CLUDE operator, landlord, and contractor costs. EXCLUDE cost of soil or ue tests or scouting costs previously reported. Do not report costs for any hese services reported above if they were previously reported as part of	OR	Total Dollars
		cost of materials and/or application		1137
14.	Ple	ase report how any data from the selected field in 2023 will be stored and accessed.		
	a.	Did you access the data collected from the selected field on a—		Code
		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 it	em	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	2	3	4	5	6
				If the too	l was used—	
	Data Collection Tool	Was this tool used on the selected field?	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	Yes=1 No=3	Total Dollars	Total dollars
a. Y	/ield monitor	2461	2462	2463	2570	2571
	Soil tests on core sample performed on– arm or sent out to a laboratory	2464	2465	2466	2572	2573
c. S	Soil sensor tests	2467	2468	2469	2574	2575
d. F	Hard–wired crop condition sensors	2470	2471	2472	2576	2577
e. V	Vireless crop condition sensors	2473	2474	2475	2578	2579
f. A	Aircraft or satellites	2445	2446	2447	2448	2449
g. E	Orones or Unmanned Aerial Vehicles (UAV)	2455	2456	2457	2458	2459
	Custom service applications – data from completed work on your field	2479	2480	2481	2582	2583
i. F	Public data downloaded from online sources.	2482	2483	2484		

.,	1020	35 E dudio III doi 1100 1000, data dasco ipitorio, dila dilililo todi dasco ipitorio.			
16.	Did	I 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 a	any	item 15 column 2 = 1, continue. Otherwise go to item 18.]			
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					
	tolle	owing—			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 a	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	Dollars & Cents per Acre	OR	Total Dollars
		were previously reported as part of the costs of materials and/or	3150	1	3151

application.....

27	
[If item 15g column 2 = 1, ask—]	
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 No=3
19. Was any of the following GPS-enabled (Global Positioning System) equipment used to produce of	<u> </u>
on the selected field in 2023?	Code
a. Mounted in–cab heads–up displays?	Yes=1 2155 No=3
b. Smart phanes or computer tableto?	Yes=1 2156
b. Smart phones or computer tablets? c. Automatic section control, such as auto sprayer boom controls or automatic section shut	2165
offs?	Yes=1 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	OR Total Dollars
equipment if they were previously reported as part of the costs of materials and/or application	2167
	Code
21. Were any automated guidance systems (i.e. auto-steer), excluding Light Bar, used on the selected field?	Yes=1 No=3
[If item 21 = 1 continue, otherwise go to item 21f.]	
1 New, owned? 2 Used, owned?	Code
a. Was the automated guidance system	2158
	Year
b. What year was the automated guidance system first purchased?	2159
Dollars & Cents per Acre	OR Total Dollars
2160	2161
c. What is the replacement cost for the automated guidance system?	
Dollars & Cents per Acre	OR Total Dollars
d. What is the annual fee for the automated guidance system?	2163
d. What is the annual fee for the automated guidance system?	
e. What is the primary reason you chose to use an automated guidance system? (Select all that	apply.)
xxxx Increase yields xxxx Reduce input costs xxxx Reduce oper	ator fatigue
xxxx Improve soil conditions xxxx Technology came "standard" xxxx Reduce environment (i.e. soil compaction) on my equipment (i.e. emissions	ronmental impacts s)
xxxx Other	

[If item 21 = 3, ask—]

f. What is the primary reason you chose not to use an automated guidance system? (Select all that apply.)

xxxx Costs are too high relative to benefits xxxx Benefits are uncertain xxxx Too complicated to use

xxxx Not sufficiently accurate xxxx Not suitable for my operation xxxx Other

	Code	
0404		

[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
	Tool Used	Was this applicator?—	Was this applicator?—	What year was the applicator first used?	Premium paid for the applicator
Was a variable rate applicator used on the selected field for—		1 Sensor-based 2 GPS-based 3 Both 4 Neither	1 New, owned 2 Used, owned 3 Leased		
	Yes=1 No=3	Code	Code	Year	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

G IRRIGATION G

		Acres					
How many acres in the selected field were irrigated for the 2023 oat crop?	1160						
[If none, go to Conclusion]		<u></u>					
 Now I have some questions about the irrigation systems and water used on the selected field for the 2023 oat crop. 							
2. Now Thave some questions about the imgation systems and water used on the selected field		•					
a. What type(a) of irrigation system(a) was (ar ware) used to irrigate the selected field?	Unit	System 1161					
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	1101					
	Inches per Acre	1162					
 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 	OR Total Acre Feet	1163					
[If operator cannot provide item 2b, ask (i) and (ii). Otherwise go to 2c]							
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					
A Turking							
e. What was the pump type? [If more than one pump in the system, enter type for pump closest to water source.]	Code	1168					
99 No Pump							
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					
1 Diesel							
h. What was the primary motor type used to pump the water?	Code	1171					
5 Electricity 6 Solar Power							
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 OF	O Tata	l Dollars
3	\/\/h-	per Acre OF at was the cost of the fuel or electricity used to irrigate the selected field?	1190	I Dollars
٥.		LUDE operator, landlord, and contractor costs	1130	
				Code
4	Was	s any water purchased to irrigate the selected field? INCLUDE landlord's share and	1191	
••		chases from all sources	2	
[lf	item	4 = 1 continue. Otherwise go to item 5.]		
-		Dollars & Cents	_	
		What was the total cost for the water purchased for the selected field during per Acre OF		l Dollars
		the 2023 growing season? INCLUDE operator, landlord, and contractor costs and ditch maintenance costs for the selected field	1194	
Γlf		on tubes were used, item 2a = 10 or 11, ask—]	Tota	I Dollars
Į	Olpilo	The second second, Rolling and To of The second sec	1201	1 Dollars
5	\//h	at would be the total cost to replace all the siphon tubes used on the selected field?		
		·	ļ	
-		pipe system was used, item 2a = 14, ask—]		l Dollars
б.		at was the total amount spent for poly pipe used on the selected field during the 2023 growing son? INCLUDE operator, landlord, and contractor costs	1202	
[lf	gated	d pipe system was used, item 2a = 15 or 16, ask—]	<u> </u>	nches
_	\ A /I.		1203	
1.	vvn	at was the average diameter of gated pipe used to irrigate the selected field?		
				Feet
	a.	What was the total length of gated pipe used?	1204	
[If	Pipe	systems were used, item 2a 10, 11, 14, 15 or 16, ask—]	(Code
_		Yes=	1205	
		re wells used to supply irrigation water for the selected field?	:3	
[If	item	8 = 1 continue. Otherwise go to item 9.]		umber
	а	How many wells were used to irrigate the selected field?	1206	
		. Is a many many many area are migate and construction many many many many many many many man	··· L	nches
			1207	101100
	b.	What was the average diameter of the outer well casing?		
	C.	What was the average pumping depth of these wells during the irrigation season? Pumping depth	1	Feet
		is the depth to water at the start of the irrigation season, plus an average decline in the water leve caused by pumping during the irrigation season		
			(Code
		Were other fields irrigated using water pumped from wells that supplied water to the Yes= selected field?		
[lf	item	8d = 1 continue. Otherwise go to item 9.]	F	Acres
	e.	Excluding the selected field, how many other acres on this operation were irrigated using the same	e 1211	
		wells during the 2023 growing season?		•
			(Code
9.		s any additional mainline or lateral pipe used to carry water from the source to the system in $_{ m Yes=}$ same wells during the 2023 growing season?	-	
[lf	item	9 = 1 continue. Otherwise go to Conclusion.]	lr	nches
			1212	
	a.	What was the average diameter in inches of the most common type of this additional pipe used?		
				Feet
	b.	How many feet of this additional pipe were used to bring water to the selected field?	1213	

Skip to next page

OR

Space for Notes and Comments

CONCLUSION

I hadd to locata the calacted tigld of date on thic man	
I hadd to locata the calacted tigld of date on thic man	ce Use
	ity FIPS Code
1. What county is the selected oat field in?	
LATITUDE LONGITUDE	
a. Field location	
decimal decimal	
[Enumerator Action: Use the iPad app to find the coordinates for the center of the selected field. Confirm with the 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 coll	
call you then to set up a time that is good for you.	
Office Use Only	
3 ()/	Time
Hours Minutes Hours 0005 0008	Minutes
2. Ending time	
Records Use – [Did respondent use farm/ranch records to report—]	1
Code Code	Code
Yes=1 0011 Yes=1 0012 [majority of this Yes=7] (fertilizer data] No=3 (pesticide data] No=3 (expense data?]	
4. Supplements Used – [Record the total number of each type of supplement used to complete this interview	.]
Number Number	Number
0041 0042 Field Operations	0043
Fertilizer Supplement Pesticide Supplement Field Operations	
Contact Information	
Operator Email: Operator Phone:	
9929 9917 Check to 9918 receive results	check if
by email	cell phone
	_
Operation Email: (if different from above) Operation Phone: (if different from	above)
9937 9920 Check to 9936 receive results	check if
by email	cell phone
	_
Respondent Name: Respondent Phone (if different from above)	
9912 9911 check if 9910 MM	DD YY
9912 9911 check if cell phone	DD YY
9912	DD YY
9912 9911 check if cell phone	DD YY
9912 9911 check if cell phone Date: This completes the survey. The results will be available on the release date at nass.usda.gov/results	DD YY
9912 9911 Check if cell phone cell phone 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	ional Use
9912 9911 Check if cell phone cell phone 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	
9912 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 Opt 9921 9922 9923 9927 9928 923 9907 922 9906	ional Use
9912	ional Use
9912 9910 MM Check if cell phone 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 Opt 9921 9922 9923 9927 9928 923 9907 922 9906 Response Respondent Mode Enum. POID	ional Use