AGRICULTURAL RESOURCE MANAGEMENT SURVEY

OMB No. 0535-0218 Approval Expires: 5/31/2025 Project Code: 906 SurveyID: 9071 Phase 2



USDA/NASS

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WHEAT PRODUCTION PRACTICES AND COSTS REPORT FOR 2022

	VERSION 34					TRACT 01	50B1R		C-TYPE 122	
				CONTAC	T RECORD					I
DATE	TIME					NOTES				
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Type Code

TYPE OF WHEAT AND FIELD SELECTION

1=Winter Wheat 1. For this survey, you have been selected for the following type of wheat. All questions in this survey 2=Spring Wheat will refer to only this type of wheat, not any other types of wheat you may grow. 3=Durum Wheat [ENUMERATOR ACTION]: Refer to the mailing label which identifies the type of wheat selected as winter wheat, spring wheat (not durum), or durum wheat. Enter the type of wheat in the box to the right. **Total Planted Acres** 0050 2. How many acres of the selected type of wheat did this operation plant for the 2022 crop year?... [If no acres planted, review Screening Information Form, make notes, then go to back page.] Total Number of Fields Planted 0020 3. What is the total number of fields for this type of wheat were planted on this operation?..... [If only one field enter "1" and go to item 4.] 4. [Now, I need to identify a wheat field to be used for this survey.] The wheat field pre-selected for this interview is the: Northern most field Southern most field Field description: Eastern most field Western most field Northeastern most field Southeastern most field Northwestern most field Southwestern most field (field name/number/description). 5. The field selected is

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

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

For the randon	lv selected field above	, please provide the following	a Farm Service Agenc\	/ (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.]

	1 5 1	
		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		

Number

		Acres
1	How many acres of wheat did this operation plant in the selected field for the 2022 crop?	1301
••	The many derive of whole the the operation plant in the colocted held for the 2022 drop	`L : <u>-</u> -
		Code
	a. Are the acres in the selected field certified organic or transitioning into Yes, Certified Organic= Yes, Transitioning=2	
	certified organic wheat production?	
Πf i	tem 1a = 1 or 2, then ask]	Dollars & Cents
Į		per Acre
	b. What was the cost, per acre, for third party organic certification?	1891
	1 owned by this operation? 2 rented for cash with the payment being a fixed cash amount?	Code
2.	Were the acres in the selected 3 rented for cash with the payment being a flexible cash amount?	1302
	field	
	6 used rent free?	
LIT 1	isold in each mantad (itams 2 - 2, 2, an E), and itams 2, athemyline are to itams 4.1	Dollars & Cents
[ПТ	ield is cash rented (item 2 = 2, 3, or 5), ask item 3, otherwise go to item 4.]	per Acre
3	What was the cash rent paid per acre for this 2022 wheat field?	1303
		·
[If f	ield 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
	·	•
[IT T	ield is rented (item 2 = 2, 3, 4, or 5) ask]	
5.		Total Dollars
	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	1.555
_	What was the total cost for all inputs provided by any contractor for the 2022 Dollars & Cents	
6.	per Acre	Total Dollars
	fertilizer, chemicals, technical services, custom operations, drying, and	1310
	irrigation	
		Year
		1312
7.	What year did you (the operator listed on the label) start operating the selected field?	
		MMDDYY
		1308
8.	On what date was the selected field planted?	1000
		Bushels per Acre
		1311
	a. What was your yield goal at planting for the selected field?	1011
	1 Dual purpose: grain and grazing 2 Harvesting for grain only	Code
	b When planted was this wheat field 3 Grazing only	3117
	planted with the intention of? 4 Dual purpose: grazing and cover crop	
	INCLUDE wheat planted for commercial seed contract under other uses	
	SEEU CONTRACT UNION OUTER USES	··

9. Wł	nat was the source of the wheat seed?	1 Purchased 2 Homegrown or traded 3 Both			1317
[If item	9 = 2 or 3, ask]				Dollars & Cents per Pound
					3321
a.	What was the cost per pound for cleaning	and treating this seed?			•
b.	How much of the wheat seed planted in the operation?	• ,	•	•	Percent 1318
[If any	seed purchased (item 9 = 1 or 3), ask]			Dollars & Cents per Unit	Unit Code 1=Pounds 2=Cwt 3=Tons 4=Bushels 22=Acres 23=50 lb. Bags
	nat was the total cost per unit of purchased erator, landlord, and contractor costs, cost			1319	1320
				Units	Unit Code 1=Pounds/Acre 2=Cwt/Acre 3=Tons/Acre 4=Bushels/Acre 23=50 lb. Bags/Acre
11. Wł	nat was the seeding rate per acre the first ti	me the selected field was p	lanted?	1313	2314
					Acres
	w many acres in the selected field had to b res x Number of times replanted.)				1315
13. Fo	r the 2022 wheat crop, was the wheat $ _{ m 2}$ $_{ m Tr}$	reated with a pesticide prior to reated with a pesticide after pure treated with a pesticide?	purchase? rchase?		Code 3062
[If item	n 13 = 1 or 2, continue, otherwise go to item	n 14.]			
		Seed Tre	eatment Name		-
a.	What was the name of the seed treatment? [Write seed treatment name in the box provided.]				
b.	What was the seed treatment code? [Enter Respondent Booklet. Enter "999" if a see seed treatment is not known.]	d treatment was applied but	t is not listed.	Enter "-1" if the	Code 2325
					Code
				Yes=1	2340
14. Fo	r the 2022 wheat crop, did you plant a com	mercial seed product on the	selected field		
[If item	n 14 = 1, ask]				
		Commercial S	Seed Product Na	me	7
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 cod	de from the R	espondent	Code
	Booklet. Enter "999" if a seed product wa not known.]	s purchased but is not listed	d. Enter "-1" i	f the product is	2343

				Code
			Yes:	=1 2323
15. Di	d you use an "air-delivery" or "vacuum (pneumatic) planter"?		No	=3
[If item	n 15 = 1, ask]			Code
			Yes:	
a.	Did you use a talc and/or graphite seed flow lubricant?			
b.	Did you use an alternative seed flow lubricant (e.g. Bayer Flue and/or graphite?			
				Code
16. Ha	as harvest of the selected field been completed?		Yes No	
FN 1 I		and the anticle of the	41	.11
[INOW I	need information about the acres harvested or to be harvested	and the yields fro	m the selected fle	
17. Hc	ow many acres in this wheat field were or will be		What yield per acre you get or do you expect to get for whe	u 3=Tons
		Acres	Units per Acre	Code
a.	harvested for grain, first crop?	1346	1347	1348
b.	harvested for hay, silage, or green chop?	1349	1350	TONS
C.	harvested for commercial seed contract?	1431	1432	1433
d.	abandoned?	1351	-	
e.	used for some other purpose?	1439	-	
152	us straw harvested from the selected field? 1 Yes – Continue 3 No – [go to	•		Acres 1521
				Total Tons
a.	How many total tons of wheat straw were harvested from these	wheat acres?		1522
To	ns per Acre X Acres = Total Tons OR Bales X Lbs	÷ 200 s per Bale Lbs per	Ton Total Tons	-
b.	Of the total wheat straw harvested from this field (19a), what w landlord's share of the wheat straw?		Percent C	DR Tons 1524
				Total Dollars
C.	What was the total cost of baler twine/wire used to bale the who INCLUDE landlord's share			1525
If any	wheat straw was sold, ask]			Dollars & Cents Per Ton
d.	What was the price received per ton for all wheat straw (19a) s	old from this field	?	1526

20. What type of livestock grazed this wheat field during the 2022 crop year?	1 Cattle 2 Sheep 3 Other, Specify: 4 Not grazed		Code 3147
[If item 20 is 4, go to item 21, otherwise, ask]			Head
a. About how many head of livestock (item 20) grazed this	wheat field?		1362
			Days
b. How many days did this livestock graze on this wheat fie	eld?		1363
			Code
c. Was this wheat field "grazed-out" instead of harvested for	or grain?	Yes=1 No=3	3060
d. Were the livestock that grazed this wheat field owned by	this operation?	Yes=1 No=3	3061
[If item 20d=3, ask –]	Dollars and Cents Per Acre	OR	Total Dollars
e. What is the total dollar amount received from others for grazing on this field? INCLUDE landlord's share		_	3064

Crop Code List for item 21 - Previously Planted Crops						
165 Wheat, winter	318 No crop (incl. Fallow)	42 Vegetables	22 Rye (cereal)			
163 Wheat, durum	17 Dry peas	283 Cotton, all	240 Sorghum, all			
164 Wheat, other spring	85 Canola	311 Grasses, (incl. clover)	34 Annual ryegrass			
6 Corn for grain	190 Barley	1 Hay, alfalfa	312 Cover crop mix			
26 Soybeans	3 Dry beans	11 Hay, all other	291 Other field crop			
		302 CRP	292 Other crop			

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

1			2	3	4
What crops were planted [For perennial crops, (1, 11, 292, 302, and 31 the crop was	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/		
Season and Year	Crop Name	Crop Code	Yes=1 No=3	1 Tilled-in 2 Herbicide 3 Rolled 4 Grazed 5 Harvested for forage 6 Harvested for grain 7 Winter killed Code	Yes=1 No=3
	·				1344
a. Spring/Summer of 2022?					
b. Fall of 2021?		1343	1470	1471	1345
c. Spring/Summer of 2021?		1369	1472	1473	1371
d. Fall of 2020?		1372	1474	1475	1374
e. Spring/Summer of 2020?		1375	1476	1477	1377
f. Fall of 2019?		1378	1478	1479	1380
g. Spring/Summer of 2019?		1381	1480	1481	1383
h. Fall of 2018?		1366	1482	1483	1368
i. Spring/Summer of 2018?		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.

Dollars & Cents per Acre

		1468
j.	What was the seed cost per acre for the cover crop?	•
k.	What was the per-acre cost-share or financial assistance payments received for the cover	1495
	crop? If no program payment was received, enter zero	•

22.	Is this field managed under an NRCS-approve			` ,		Code
	(All fields that have been designated as HEL by required to have soil conservation plans under	•	•		Yes=1 No=3	0702
23.	Does the selected field contain a wetland? We or "swampbuster" requirements. Producers wh from draining wetlands to make them ready for	no receive farm	program payme	ents must refrain	Yes=1 No=3	1405
24.		1 Nearly level (0 2 Even, modera 3 Variable, mod 4 Even, steep g 5 Variable, stee	ite grade (3 – 9%) erate grade rade (over 10%)			Code 2400
25.	What is the primary soil type of the selected fie	eld?	1 Loam 2 Clay 3 Sandy 4 Mixed 5 Silty			Code 2401

[Next we will ask about soil and water concerns that you have on the selected field.]

[Next we will ask about soil and water concerns	, , , , , , , , , , , , , , , , , , ,		-			
1	2	sources to evaluate this reso	3 sistance from any of the following purce concern? Report up to 2 eived assistance from:			
26. In the selected field, are any of the following currently or historically a concern?	Currently a concern A concern in the past but not anymore Not a concern	USDA - NRCS Cooperative Extension Service Other USDA staff, including Forest Service Other (e.g. Soil and Water Conservation District, state agency) None				
	Code	Source 1	Source 2			
a. Water-driven erosion	2407	2417	2427			
b. Wind-driven erosion	2408	2418	2428			
c. Soil compaction	2409	2419	2429			
d. Poor drainage	2410	2420	2430			
e. Low organic matter	2411	2421	2431			
f. Water quality	2412	2422	2432			
g. Other concerns	2413	2423	2433			
h. Water availability	2415	2416	2425			
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 Yes=1 field?	2414					

	Code
Yes=1 27. Did the land use practices for the selected field include subsurface drainage? No=3	2402
27. Did the land use practices for the selected field include subsurface drainage?	
[If 27 = 1, continue. Otherwise go to item 28.]	Year
	2403
a. In what year was the current subsurface (tile) drainage installed?	
28. 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?	Unit Code 1 Current 2 Past 3 Never
	2611
a. Environmental Quality Incentive Program (EQIP)	
b. Conservation Security or Conservation Stewardship Programs (CSP)	2612
c. Conservation Reserve Program (CRP)	2613
	2614
d. Other Federal, State, Local or non–government source	

- 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.]
 - a. From this list, please check any practices or activities that you used on the selected field this year or at any time in the past.

On-field Soil and Crop Management 10 17	Terraces	Implement an integrated pest management plan – written plan
1 No-till/strip-till	Grass waterway	₃₁ Drift reducing spray nozzles
	mplement a nutrient nanagement plan – written plan.	Targeted sprayer – electrical control
3 Cover crop – single species 21 F	Precision nutrient application	Adjacent to Field
	Subsurface phosphorous application	33 Filter strip
5 Contour farming 23 th	No fertilizer application more han 30 days before planting	34 Field border
all Concervation crop rotation	Controlled release or enhanced efficiency fertilizer	35 Riparian buffer – grass or forest
7 Laser leveling	Split nitrogen application with at east 50% applied after planting	Irrigation water management plan
		99 None of the above

b. 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).]

[Enamerater Note: II Genter				
1	2	3	4	5
		used on this selected field in 2022?	What financial assistance (cost share) has been received for this practice on this field?	help satisfy
Practice or Activity on the Selected Field	Practice Code (see item 29a)	Used in 2022 Not used in 2022 but used in earlier years	 Received a payment in 2022 from EQIP, CSP, or similar program Did not receive a payment in 2022 but have in earlier years Have never received a payment for this practice 	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
	•		-	

	2022, was the wheat in the selected field covered licy (e.g. hail, replant, wind, freeze, etc.)?			Yes=1 . No=3	1393	
[If item	n 30=1, continue. Otherwise, go to item 31.]					Code
a.	In 2022, was the wheat in the selected field cove crop insurance policy (e.g. hail, replant, wind, fre				2721	
					Dol	llars & Cents per Acre
b.	What was the dollar amount of coverage per acr field?			cted	1395	· <u> </u>
C.	What was the premium cost per acre for the sing EXCLUDE any sign-up fee				2722	
						Percent
d.	What was the percent deductible for the single p deductible as 0%)			ord no	2723	
						Code
e.	Did you (or will you) collect an indemnity payment policy during 2022?			Yes=1 . No=3	2724	
						Code
31. ln	2022, was the wheat in the selected field covered	l by a multi–peril	crop insurance policy?	Yes=1 No=3		
[If item	n 31 = 1 ask Otherwise go to Section C]	2 Yield Protection				Code
a.	Which coverage did you obtain?	3 Revenue Prote 4 Other multi–per			1386	
[If item	n 31a = 2, ask]					Percent
	i. What percent of yield coverage did you select	ct for the selected	d field?		1387	
	ii. What percent of price coverage did you sele-	ct for the selecte	d field?		1388	
[If item	n 31a = 3, ask]					Percent
	iii. What percent of revenue coverage did you s	select for the sele	ected field?		1389	
			¬			Code
b.	What type of unit coverage did you purchase for the multi–peril policy on the selected field?				2524	
					2525	Year
C.	In what year did you, the operator listed on the latthe selected field?		·	e on 		
						hels per Acre
d.	What is the 2022 Approved APH (actual product	tion history) yield	for the selected field?		2526	
						llars & Cents per Acre
e.	What was the premium paid for multi–peril crop EXCLUDE any administrative fee				2527	· <u> </u>
						Code
f.	Did you or will you collect an indemnity payment insurance during 2022?			Yes=1	2528	

C

	. Were commercial nutrients or fertilizers applied to the selected field for the 2022 wheat crop? INCLUDE those from operators, landlords, and contractors. Yes=1 No=3								
[If ite	[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 2022 crop? INCLUDE applications made by airplanes and custom applicators								
3. N	low I need to record information for	each applicatio	n.	_					
	CHECK	KLIST		1					
	INCLUDE		EXCLUDE						
	Custom applied nutrients or fertilizers	Micronutrient	S						
2021 and those applied earlier if the selected field was fallow in 2021			☐ Unprocessed manure ☐ Nutrients or fertilizers applied to previous crops in the selected field						
— Commercially prepared manure or —			osum/landplaster	Office Use Lines in Table	Table 001	0299			
	Nitrogen Codes for Colur	mn 2	Applio	cation Codes fo	or Column 6				
1 Anhydrous ammonia 6 Ammonia sulfate 2 Nitrogen solution (UAN) 7 Potassium nitrate, 3 Urea magnesium nitrate, and 4 Ammonium nitrate 5 Sodium nitrate 8 Other nitrogen fertilizer material [specify:		nitrate, nitrate, and ate en fertilizer	1 Broadcast, ground without incorporation 2 Broadcast, ground with incorporation 3 Broadcast, by aircraft 4 In seed furrow 5 In irrigation wa 6 Chisel/injected 7 Banded in or of 8 Foliar or direct		or knifed in ver row				

			2			3	4	5	6	7
L	[Enter percentage analysis or actual pounds of plant nutrients applied per acre.]			What quantity was applied per acre? [Leave this column	[Enter material code]	applied?	[Refer to	How many acres in the selected field were treated in this application?		
N E	•	[Show Common Nutrients or Fertilizers in Respondent Booklet] [Refer to nitrogen list above for type of nitrogen used.]		blank if actual nutrients were reported]	1 Pounds 12 Gallons 13 Quarts 19 Pounds of	2 Gallons seeding 3 Quarts 2 In the spring	code list above]			
	N Nitrogen	P₂O₅ Phosphate	K₂O Potash	S Sulfur	Type of N Used		actual nutrients	3 At seeding 4 After seeding		Acres
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

					Code
4. W	ere any nutrients or fertilizers applied by custom applicators	?		Yes=1 No=3	0214
[If iten	n 4=1 continue. Otherwise go to item 5.]				Code
a.	Are you able to report the cost of nutrient or fertilizer mater 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 fertilizers on the selected field?	v much was spent fo	or custom applica	ation	of nutrients or
	 INCLUDE operator, landlord, and contractor costs costs for sulfur and micronutrients 		Dollars & Cents per Acre	OR	Total Dollars
	EXCLUDE custom application of lime, gypsum, purchased purchased compost		219		0220
[If mat	erial and application costs can't be separated, exclude them	here and record the	e total in item 5.]		
	hat was the total cost of all nutrient or fertilizer products app CLUDE • operator, landlord, and contractor costs as well as the cand micronutrients	costs for sulfur	ield? Dollars & Cents per Acre	OR	Total Dollars
E,	 materials applied to the selected field if it was fallow in KCLUDE lime, gypsum, purchased manure, and purchased 	10	221]	0222
[If cus	tom applied and the cost of materials can be separated from vise, include both the material and application costs.]	· _	nclude the cost o	of ma	terials only,
					Code
6. W	as gypsum applied to the selected field for the 2022 wheat c	rop?		Yes=1 No=3	0218
7. W	as a soil test for soil organic matter performed on this wheat ars?	field at some point i	n the last 10	Yes=1 No=3	3225
[If iten	า 7 = 1, ask]				Percent
a.	What was the percentage of soil organic matter on the sele	ected field for the mo	ost recent test?		3226
					Number
b.	How many times have you tested the selected field for soil	organic matter in th	e last 10 years?		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	e same?		3228 Code
	as a soil or plant tissue test performed on the selected whea			Yes=1 No=3	0224
	n 8 = 1, continue. Otherwise go to item 13.]				Code
9. W	as a soil test for phosphorus performed on the selected whe 22 crop?			Yes=1 No=3	0225
[If iten	9 = 1 ask]				Pounds per Acre
a.	How many pounds of phosphorus per acre were recomme	nded by the phosph	orus test?		0226

10. W	as a soil test for nitrogen performed on this	wheat field in 2021 or 2022 for	the 2022 crop?	Yes=1 No=3	0227				
[If item 10 = 1, ask]									
		1 11 0 %			0228				
a.	How many pounds of nitrogen per acre we	ere recommended by the hitroge	en test?						
					Code				
	as a plant tissue test or leaf analysis for nutrection of 2022 for the 2022 crop?			Yes=1 No=3	0229				
			Dollars & Cents per Acre	OR	Total Dollars				
	ow much was spent for these soil and plant teld? INCLUDE operator, landlord, and contra		0230	_	0231				
[If tes	ts were done at no cost, continue. Otherwise	e go to item 12b.]		_					
	1	Soil/plant tissue test provided fre dealer, crop consultant, or extens			Code				
a.	What is the reason why tests were done at no cost?2	Soil/plant tissue test costs were i total fertilizer costs reported in ite			0232				
	3	Some other reason			Code				
b.	Did you receive a payment from a conserv performing a soil or plant tissue test?	vation program (CSP, EQIP, or c	•	Yes=1 . No=3	3231				
	nerator Action: Refer to the Fertilizer Table, on itrogen applied, go to item 15.]	column 2. If nitrogen (N) was a	pplied, complete ite	em 13.					
13. W	as the amount of nitrogen you decided to ap	oply to the selected field based	on		Code				
a.	Results of a soil or plant tissue test?			Yes=1 No=3	0233				
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 commod	ity price?		Yes=1 No=3	0237				
f.	Contractor recommendation?			Yes=1 No=3	0238				
g.	Routine practice – operator's own determi	nation based on past experienc	e, yield goal, etc.?.	Yes=1 . No=3	0239				
	1	Nitrification inhibitors (such as N-	-Serve)		Code				
us	/hich of the following products did you see to slow the breakdown of nitrogen on	Urease inhibitors (such as Agrota Chemical–coated fertilizers (such urea and polymer–coated urea) Other inhibitors	in)		0241				
[If nitr	ت rogen inhibitors were used, continue. Otherw		Pounds per Acre	OR	Gallons per Acre				
a.	How much nitrogen inhibitor did you mix w the selected field?		-	25					
			Dollars & Cents per Pound	OR	Dollars & Cents per Gallon				
b.	What was the cost of nitrogen inhibitors us operator, landlord, and contractor costs		97	02	98				

						Code
1 <i>E</i> lo	lime over applied to the color	sted field?			Yes=1	0242
	n 15 = 1 continue. Otherwise				No=3	Years
ĮII ILOII	ii 10 – 1 continue. Otherwise	go to item 10.]				0243
a.	On average, how many yea	rs are there between applications of lime to the	e selecte	ed field?		
						Tons per Acre 0244
b.	How many tons of lime were	e applied per acre the last time it was applied to	o the se	lected field	?	•
						Code
C.	Was lime applied to the sele	ected field in 2021 or 2022 for the 2022 crop?			Yes=1 No=3	0240
otl	her organic material, including	ssed) manure from own farm, from a neighbor' g compost, applied to the selected field for the red manure	2022 wł	neat crop?	Yes=1 No=3	
[If iten	n 16 = 1 continue. Otherwise	go to Section D.]				Acres
a.	To how many acres in the s	elected field was manure or compost applied?.				0247
u.	To now many doles in the s	ologica ficia was mariare of compost applica : .		Units per a		Unit Codes 1 Tons 2 Gallons 3 Bushels 4 Cubic yards
b.	What was the amount of ma	anure or compost applied per acre to the select	ted	0249		0248
	field?			•-		
C.	Of the total manure or comp the percent of manure or co	post applied to the selected field for the 2022 was applied	heat cro	op, what wa	s	Percent
	·					0254
	i. in the fall before planting	g?			+	
	ii. in the spring before plar	nting?			+	0255
	iii. after planting?				+	0256
					=	100%
				on liquid?		Code
d.	Was the manure or compos	t		y liquid? i–dry or dry?		0257
		1 Broadcast or sprayed without incorporation?			<u></u>	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
		1 Produced on this operation? 2 Purchased?				Code
g.	Was the manure or compost	3 Obtained at no cost off this operation? 4 Obtained with compensation (operator received payment for accepting the manure)?				0260

		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		1	
	 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	
[If item	16gii = 1, ask]			
	(a) What was the total cost paid to have manure or compost custom	Dollars & Cents per Acre	OR	Total Dollars
	applied to the selected field? INCLUDE operator, landlord, and contractor cost	0287		0288
[Do no	t report custom application cost if it was included with the purchased manure	e or compost cost	.]	
				Miles
h.	What is the distance in miles between the manure or compost storage/procselected field?		d the	0291
				Code
i.	Of the manure or compost applied to the selected field, was any tested for prior to application?		Yes=1 No=3	
j.	Was the application rate of commercial nitrogen fertilizer on the selected fie 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 applic selected field?			0263
				Code
	ii. Did you adjust the wheat harvest date for the selected field due to the a manure or compost?		Yes=1 No=3	0280
				Code
	ere the manure or compost application rates to the selected field influenced late, or local restrictions?		Yes=1 No=3	0264
	17 = 1, ask]			L
-	What basis was used to determine these manure application rate restriction	าร		Code
u.	That said has about to dotornino those manare approaction rate rectioned		V 4	2025
	i. Nitrogen requirement of the crop?		Yes=1 No=3	
	ii Phosphorus requirement of the crop?		Yes=1	0266

D		BIOCONTRO	L or PE	STICIDE A	APPLICATIO	NS - SELEC	TED FIELD	D
Now I have some q	uesti	ons about all the	biocontro	ls or pestici	des used on the	selected field	for the 2022 v	vheat
crop, including both	cust	om applications	and applic	cations mad	e by this operati	on.	Code	Office Use Edit Table
Were any herb pesticides used		s, insecticides, fu his wheat field fo				Yes=11	302	0300
[Probe for applicati	ons r	made in the fall c	of 2021 an	d those mad	de earlier if the s	elected field v	was fallow.]	1
If no biocontrols or	pest	icides applied, g	o to Sectio	n E.				
INCLUDE defoliants, for			EXCLUDE		trients or fertilizers	T ! !		
INCLUDE biological ar		other pesticides.		reported earli treatments.	er and seed	Office Use Line in Table	Table 001	0399
L			L			Line in Table	001	
		2	3	4	5	6 O	R 7	8
Chemical Product Name	L – 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?	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 pe	esticides not liste	ed in the R	espondent	Booklet, specify	_		•
Line		Pesticide Type lerbicide, Insecticide, Fungicide, etc.)		EPA No. or Tra and Formu	ade Name	Form Purchase (Liquid or Dry	ed (A	Where Purchased ask only if EPA No. annot be reported)

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 in
- 7 Banded in or over row
- 8 Foliar or directed spray
- 9 Spot treatments

	l			T	1	Т
	9	10	11	12	13	14
	How was this product applied? [Enter code from above.]	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.j	Acres	Number	Operator, partner, or family member? Custom applicator? 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]			
	L	Finally discrete and a file and a second and	Dollars & Cents per Acre	OR	Total Dollars
	D.	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	Dollars & Cents per Acre	OR	Total Dollars
	age	ets, defoliants, herbicides, insecticides, fungicides, surfactants, wetting ents, growth regulators, and materials applied before planting and during 21 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
Not	te:	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 mat	erials only.

Now I have some questions about your pest management decisions and practices used on the selected field for the 2022 wheat crop. By pests, we mean weeds, insects, and diseases.

[Er	numerator Action: Were pesticide applications rep □ Yes - Continue □ No - Go to item 6	ported in Section D?]		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?	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	İ	
	☐ Yes - Continue ☐ No - Go to item 6			Code
4.	Were herbicides applied to the selected wheat fi	eld before weeds emerged?	Yes=1 No=3	
5.	Were herbicides applied to the selected wheat fi	eld after weeds emerged?	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	
0	In 2022, how was the calcuted field primarily	By deliberately going to the field specifically for scouting activities [Enter code 1 and go to item 9.]		Code
ο.	In 2022, 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
	9	3 The selected field was not scouted. [Enter code 3 and go to item 14.]	1	Code
9.	Was an established scouting process such as sy or were insect traps used in the selected field?			0809
10.	Was scouting for pests done in the selected field	I due to		Code
	a. a pest advisory warning?		Yes=1 No=3	
	b. a pest development model?		Yes=1 No=3	
[lf s	scouted by crop consultant or commercial scout, a	Dollars & Ce	ents OR	Total Dallage
11.	How much was charged for the scouting services INCLUDE operator, landlord, and contractor cost			Total Dollars 0822
				Office Use
	a. If scouting performed at no cost, explain:			0333
				Code
12.	Were scouting data compared to published inforwhen to take measures to manage pests in the s		Yes= No=	

1	2	3
13. Do you believe that the selected field was infested with any of the following insects?	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. Aphids	2266	2267
b. Armyworm	2278	2279
c. Cereal Leaf Beetle	2280	2281

C.	Cerear Lear Deetile				
					Code
	d you use field mapping of previous weed proble anagement decisions?		Yes=1 No=3	0825	
15. Di	d you do any of the following other types of pest	management for the specific purpose of			
m	anaging or reducing the spread of pests in the s	elected field?			Code
a.	Use the services of a diagnostic laboratory for analysis for the selected field?		Yes=1 No=3	0841	
b.	Plow down crop residue using conventional till	ane?	Yes=1 No=3	0842	
D.	Thow down crop residue using conventional till	age:	Yes=1	0042	
C.	Remove/burn down crop residue?		Yes=1 No=3	0043	
d.	Rotate crops in the selected field during the pa	ast three years?	Yes=1 No=3	0844	
		•	Yes=1	0845	
e.	Maintain ground covers, mulches, or other phy	sical barriers?	No=3		
f.	Choose crop variety because of specific resist	ance to a certain pest?	Yes=1 No=3	0846	
-	• · · · · · · · · · · · · · · · · · · ·		Yes=1	0847	
g.	Use no-till or minimum till?		No=3		
h.	Plan planting locations to avoid cross infestation	on of pests?	Yes=1 No=3	0848	
	•	·	Yes=1	0849	
i.	Adjust planting or harvesting dates?				
j.	Chop, spray, mow, plow, or burn field edges, la	anes, ditches, roadways, or fence lines?	Yes=1 No=3	0850	
k.	Clean equipment and field implements after co	ompleting field work to reduce the spread of	Yes=1	0851	
	pests?		No=3		
I.	Adjust row spacing, plant density, or row direc	tions?	Yes=1 No=3	0852	
m	Have the seed treated for insect or disease co		Yes=1	0854	
	selected field?		No=3		
n.	Maintain a beneficial insect or vertebrate habit	at?	Yes=1 No=3	0855	
			Yes=1	0857	
0.	Use a flamer to kill weeds?		No=3		
p.	Maintain buffer strips or border rows to isolate you take a buffer harvest?	•	Yes=1 No=3	0856	
			Yes=1	0865	
q.	Plant earlier or later to avoid weeds?		. No=3		

16.	Were any beneficial organisms, such as insects, nematodes selected field to manage pests?			Yes=1 No=3	0853
					Code
17.	Were floral lures, attractants, repellants, pheromone traps, on the selected field?			l _{Yes=1} . No=3	0858
[lf i	tem 16 or item 17 = 1, ask]				
	 a. What were the total materials and application costs for a controls for the selected field? INCLUDE operator, land costs. INCLUDE cost for beneficial organisms, insects, fungi. EXCLUDE biological pesticides previously report 	llord, and contractor nematodes, and	Dollars & Cent per Acre 0859	ts OR	Total Dollars
					Code
18.	Was a trap crop, excluding fallow, grown to help manage in	sects in the selected	field?	Yes=1 No=3	0863
19.	Was the selected field left fallow in 2021 to help manage in	sects on the selected	d field?	Yes=1 No=3	0864
20.	Were water management practices such as irrigation sched				Code
	treatment of retention water used on the selected field to mutual fungi and bacteria?			Yes=1 No=3	0861
21.	Was protection of beneficial organisms a factor in your pest field?			Yes=1 No=3	1765
[lf i	tem 21=1, continue. Otherwise go to item 22.]				Code
	a. Did you change timing of, reduce application rate of, or	eliminate a pesticide	application?	Yes=1 No=3	1766
	b. Did you change to an alternative pesticide, biocontrol, o	r non-pesticide prac	tice?	Yes=1 No=3	1767
			Units per	Acre	Unit Codes 1 Pounds 2 CWT 3 Tons 4 Bushels
22.	If untreated (either with herbicides, tillage, or cultivation), he bushels per acres) do you think weeds would most likely ca field?	use on the selected	e.g. 2735		2736
					Code
23.	Did pests, such as weeds, insects, pathogens, animals, cau field in spite of your pest control efforts?			Yes=1 No=3	0827
[lf i	tem 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 	Units per Acre	Unit Codes 1 Pounds 2 CWT 3 Tons 4 Bushels	OR	Total Units
	management practices you used to reduce those losses?	0829	0828		0830
				<u> </u>	
					n Code for ement Data
			1 Incomplete	/Refusal	0500

FIELD OPERATIONS - SELECTED FIELD

				list field work performed bat crop. Please	y machines	Check List
on the	selected lie	eia ior i	INCLUDE all field work using machines for			
•	•			r harvest of the previous crop, inc	•	☐ Land forming/Levee Building
	•			d since the previous crop was ha ting with fall 2020.	rvested. If	☐ Tillage
•	list the opera	ations in	order through hai	rvest and hauling of this crop to s	torage or first	☐ Preparing for Irrigation
	point of sale			rroot and maaming of the orop to o	iorage or mor	☐ Planting
•	maintain the	order of	tandem hook-up	S.	_	☐ Fertilizer & Pesticide applications
			1 You (the Opera2 Partner3 Unpaid Worke	,	Office Use Lines in Table	☐ Harvesting & Hauling to storage or first point of sale EXCLUDE ☐ Lime & Gypsum/land plaster applications
			5 Paid Full-time 6 Custom Applic	Worker	0499	☐ Compost & Non-commercial manure applications
			_			

1	2	3	4	5	[If Column 5 = code 6, skip columns 6 thru 11]					
ļ .	_	J	7			_	1			
L I N E	S E Q U E N C E	What operation or equipment was used?	[Record machine code from Respondent Booklet.]	Who was the machine operator? [Enter code from above.]	6 What was the size or swath of the [machine] used?	7 [Record size unit code.] 1 Feet 2 Row 3 Moldboard bottoms Hauling 4 Pounds 5 Bushels 6 Tons	8 O How many acres were covered? EXCLUDE land forming and hauling operations.	How many total hours were spent on land forming and hauling? [Example: backhoes, disk border maker, ditcher, rear mounted blade, trucks, wagons, forklift etc.]	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	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	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

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 2022 wheat 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	2	3			
	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			

3.	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
1	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
٦.	hired workers on the selected field? EXCLUDE custom and contract workers, payroll taxes and benefits	1118		2118		3118
						Code
					Yes=1	1116
5.	Was any contract labor used on the selected field?				No=3	
[lf i	tem 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 •
6.	What percent of the total number of unpaid hours worked of	on the selected fie	eld wa	as performed by		Percent
٠.	workers under 16 years of age? Estimates of labor costs for wage rates, which are different for workers under 16 relativ	or unpaid workers	s are	based on off-farm		1120

7.	Now I need some information on how much was spent or will be spent for custom services used on the selected field for
	the 2022 wheat crop.

	1	2				
	Custom Service	Including operator,				
		landlord, and contractor costs, how				
		much was spent for				
	Which of the following services were performed for the 2022 wheat crop on the selected field?	[column1] on the selected field for the				
	for the 2022 wheat drop off the defected hold.	2022 wheat 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?	1122				
	c. Custom planting and/or reseeding?	1123				
	d. Custom harvesting?	1124				
	e. Custom hauling to storage or point of first sale?	1126				
	(Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre)	•				
\Box	f. Custom harvesting and hauling from field to storage or point of first sale?	1127				
Ш	(Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre)	•				
	g. Custom raking, baling, and hauling the straw from the selected field?	1128				
Ш	(Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre)	•				
		Code				
		2748				
	1.1 (10	Yes=1 No=3				
9. I	Did you hire any technical or consultant services to make recommendations such as for	1196				
		Yes=1 No=3				
[If ite	em 9 = 1, continue. Otherwise, go to item 12.]					
	Which of the following technical or consultant services did you obtain to make					
l	recommendations for the selected field?	Code Yes=1 1129				
;		Yes=1 1129 No=3				
ı		Yes=1 1130 No=3				
(Yes=1 1131 No=3				
(Yes=1 1132 No=3				
		Yes=1 1133 No=3				
		Yes=1 1134 No=3				
1	f. Yield map or remote sensing map development/interpretation?	Yes=1 1134 No=3 Yes=1 1135				

11.	What was the cost for any technical or consultant services reported in item 10.
	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

12. Please report how any data from the selected field in 2022 will be stored and accessed.

a	а.	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
k	٥.	Did you access the data collected from the selected field through an agricultural technology provider website?	Yes=1 No=3	2488
[If ite	em	12b = 1, continue. Otherwise, go to item 13.]		Code
C	Э.	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
_				
(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
C				2490 Code

[If item 13 = 1, continue. Otherwise go to item 17.]

Please report the data collection technologies you used on the selected field to produce this crop. Also indicate if the data are collected with Global Positioning System (GPS) coordinates and if the data will be used to create a map. In the fifth column, report how much it would cost you to replace the data collection tool. In the sixth column, report the annual costs of using the data collection tool. INCLUDE custom service fees, data subscriptions, and online tool subscriptions. If the replacement cost or annual fee does not apply to a particular data collection tool, leave the cell in that column blank.

	1	2	3	4	5	6
	Data Collection Tool	Tool Used Yes=1 No=3	Collected GPS coordinates Yes=1 No=3	Data was/will be used to create a map Yes=1 No=3	Replacement Cost Total Dollars	Annual Fee 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		

a. add/improve tile drainage? b. negotiate new crop leases? c. help determine chemical input use? c. help determine chemical input use? [If any item 13 column 2 = 1, continue. Otherwise go to item 16.] 15. Using data collected from the previous tools table in item 13, did you obtain crop management recommendations, such as data interpretation, in 2022 for the selected field from any of the following a. input dealers without other fee–for–services? b. input dealers with other fee–for–services? c. custom service providers? d. USDA/university extension services? If any item 15a–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. [If item 13g column 2 = 1, continue. Otherwise go to item 17.] 16. In the selected field, did you use the UAV for any of the following purposes? a. Weed analysis? A. Weed analysis? A. Weed analysis? S. Spraying herbicide or fungicide?	1143 Code
b. negotiate new crop leases?	1143 Code
c. help determine chemical input use?	Code
15. Using data collected from the previous tools table in item 13, did you obtain crop management recommendations, such as data interpretation, in 2022 for the selected field from any of the following a. input dealers without other fee–for–services? b. input dealers with other fee–for–services? c. custom service providers? d. USDA/university extension services? Ilf any item 15a–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. Ilf item 13g column 2 = 1, continue. Otherwise go to item 17.] 16. In the selected field, did you use the UAV for any of the following purposes? a. Weed analysis? b. Spraying herbicide or fungicide? Yes=1 3. No=3 Yes=1 1. No=3 Yes=1 3. No=3	
recommendations, such as data interpretation, in 2022 for the selected field from any of the following a. input dealers without other fee–for–services?	
a. input dealers without other fee—for—services?	·491
b. input dealers with other fee—for—services?	
c. custom service providers?	<u>!</u> 492
d. USDA/university extension services? [If any item 15a–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. [If item 13g column 2 = 1, continue. Otherwise go to item 17.] 16. In the selected field, did you use the UAV for any of the following purposes? a. Weed analysis? b. Spraying herbicide or fungicide?	<u>2</u> 493
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	<u>'</u> 494
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	
were previously reported as part of the costs of materials and/or application	Total Dollars
16. In the selected field, did you use the UAV for any of the following purposes? a. Weed analysis? b. Spraying herbicide or fungicide? Yes=1 No=3 Yes=1 No=3	3151
a. Weed analysis? b. Spraying herbicide or fungicide? Yes=1 37 No=3 Yes=1 37 No=3	
a. Weed analysis?	Code
b. Spraying herbicide or fungicide? _{No=3}	161
Γ	162
c. Insect analysis?	1163
d. Insect control?	1164
e. Yield analysis?	165
f. Moisture analysis? Yes=1 37 No=3	i166
g. Equipment check?	1167
17. Was any of the following GPS–enabled (Global Positioning System) equipment used to produce wheat on the selected field in 2022?	Code
a. Mounted in–cab heads–up displays?	2155
b. Smart phones or computer tablets?	2156
c. Automatic section control, such as auto sprayer boom controls or automatic section shut Yes=1 Offs?	2165
18. 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.	Total Dollars

			,	V 4	2148
19. Was a	any guidance auto–steering equipment, excluding Lig	ht Bar, used on the se		Yes=1 No=3	
If item 19	9 = 1 continue, otherwise go to item 20.]				
		1 New, owned?			Code
a. W	Vas the guidance auto–steering equipment	2 Used, owned? 3 Leased?			2158
					Year
b. W	Vhat year was guidance auto–steering equipment firs	t purchased?			2159
			Dollars & Cents per Acre	OR	Total Dollars
			2160		2161
c. W	Vhat is the replacement cost for guidance auto–steeri	ng equipment?	•		
			Dollars & Cents per Acre	OR	Total Dollars
			2162		2163
d. W	Vhat is the annual fee for guidance auto–steering?		•		
					Code
:0. Was a	a variable rate applicator used on the selected field?.			Yes=1 No=3	2164
If item 20	0 = 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	Was this applicator?- 1 Sensor-based 2 GPS-based 3 Both 4 Neither	Was this applicator?- 1 New, owned 2 Used, owned 3 Leased	What year was the applicator first used?	Premium paid for the applicator
	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

		Acres
How many acres in the selected field were irrigated for the 2022 wheat crop?		1160
[If none, go to Conclusion]		
 Now I have some questions about the irrigation systems and water used on the selected 	field for the 20	122 wheat crop
2. Now Thave some questions about the impation systems and water used on the selected		·
a. What type(s) of irrigation system(s) was (or were) used to irrigate the selected field?	Unit	System 1161
[Show System Type Codes in the Respondent Booklet. Enter System Type Code for the system covering the most field acres.]		
	Inches per	Acre 1162
 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]		1
What is the total number of hours this system was used to apply water to the selected field during the wheat growing season?	Total Ho	1164 urs
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 cam from surface water sources?		1166 nt
d. What was the number of times the selected field was irrigated during the wheat grow season using this system? INCLUDE any pre-plant irrigation		
e. What was the pump type? [If more 1 Turbine		
than one pump in the system, enter type for pump closest to water source l 2 Submersible 3 Centrifugal 4 Booster [If code 99, go to item i.l.]	Code	1168
5 Siphon 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 Square I	
1 Diesel 2 Gasoline		
h. What was the primary motor type used to pump the water?	Code	1171
6 Solar Power		
i. What was the average motor size?	Horsepo	wer 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 2022 growing season? EXCLUDE the selected field	Acres	1174

	Dollars & Cents per Acre O	PR Total Dollars
3.	What was the cost of the fuel or electricity used to irrigate the selected field?	1190
	INCLUDE operator, landlord, and contractor costs	
		Code
4.	Was any water purchased to irrigate the selected field? INCLUDE landlord's share and purchases from all sources	
[lf	item 4 = 1 ask Otherwise go to item 5.]	
	Dollars & Cents	ND
	a. What was the total cost for the water purchased for the selected field during the 2022 growing season? INCLUDE operator, landlord, and contractor costs and ditch maintenance costs for the selected field	Total Dollars
[lf	siphon tubes were used, item 2a = 10 or 11, ask]	Total Dollars
		1201
5.	What would be the total cost to replace all the siphon tubes used on the selected field?	
[lf	poly pipe system was used, item 2a = 14, ask]	Total Dollars
6.	What was the total amount spent for poly pipe used on the selected field during the 2022 growing season? INCLUDE operator, landlord, and contractor costs	1202
[lf	gated pipe system was used, item 2a = 15 or 16, ask]	Inches
		1203
7.	What was the average diameter of gated pipe used to irrigate the selected field?	
		Feet
	a. What was the total length of gated pipe used?	
[lf	Pipe systems were used, item 2a 10, 11, 14, 15 or 16, ask]	Code
_	Yes	· ·
	Were wells used to supply irrigation water for the selected field?	=3
[lt	item 8 = 1 continue. Otherwise go to item 9.]	Number
	a. How many wells were used to irrigate the selected field?	1206
		Inches
		1207
	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 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	el ₁₂₀₈
		Code
	d. Were other fields irrigated using water pumped from wells that supplied water to the selected field?	
[If	item 8d = 1 continue. Otherwise go to item 9.]	Acres
	e. Excluding the selected field, how many other acres on this operation were irrigated using the sam wells during the 2022 growing season?	
		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 2022 growing season?	· · ·
[lf	item 9 = 1 continue. Otherwise go to Conclusion.]	Inches
		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?	

CONCLUSION

Location of S	Select	ed Fiel	b												
I need to loc	ate th	e selec	ted field of wh	eat on this m	nap.			County Name Office Use State County FIPS Code						Code	
1. What cou	unty is	s the se	elected wheat f	field in?											
						LATITU	DE				l	ONGITUE	E		
a. Field	locat	ion		9854						9855	-				
				<u> </u>		de	cimal		— 」			dec	imal		
[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 2023 to collect it. I'll call you then to set up a time that is good for you.															
To receive th	ie cor	nplete r	esults of this s	survey on the	relea	ase date	, go	to nass.ı	usda.g	ov/resul	lts				
To have a summary emailed to you at a later date, please enter your email address															
										(Office Use	Only			
								Endin	g Time ((Military)	OR		Total T	ime	
								Hours		Minutes		Hour	s	Minu	utes
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Records Use	Э						_		1		<u> </u>		11		
		nt use t	farm/ranch rec	ords to repor	rt]										
			Code		•			Cod	de _					Co	ode
** (*):			Yes=1 0011	7		_	Yes=				rity of this		100 1	0013	
[fertilize		-	No=3	[pesticid	e data	1]	No=	:3		exper	ise data?]	No=3		
Supplements										_					
4. [Record	the to	tal num	ber of each ty	pe of supple	ment	used to	com	plete this	s inter	view.]					
			Number					Num	ber				Г	Nun	nber
Fertilize	r Supr	olement.	0041	Pesticide	- Suni	olement		0042		Field	Oneration	ıs		0043	
					0 Oup,	JIO1110.1							L		
Operation Em	all: (Iī	differen	i from above)							Operat 9936	ion Phone			ch	eck if
9937										9936					eck if phone
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	ponse		Respo			Мос				num.		PC	OID		
1-Comp 2-R		9901	1-Op/Mgr 2-Spouse	9902		⊺l (tel) Pl (Face-to		903	9998		9989				
3-Inac			3-Acct/Bkpr		0174	Face							_ —		
4-Office Hold			4-Partner 9-Other									val.		Chang	е
											9900 9985				