CONSERVATION PRACTICE ADOPTION MOTIVATIONS SURVEY - VERSION 1 CROP PRACTICES

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Agriculture

AGRICULTURAL STATISTICS SERVICE

USDA/NASS

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1. During 2021, did you operate a farm or ranch in which any crops were harvested?

INCLUDE all field crops (such as corn, wheat, cotton, barley, sorghum, oil seeds, dry beans), hay, silage, vegetables, fruit, nuts, sugarcane/beets, and other harvested crops

²¹⁰⁰ 1 Yes - Go to Section 1 - Land Use and Livestock, page 2

No - Complete Item 1a, then go to Section
 16 - Conclusion, page 48

- a. What is the current status of any cropland that you previously operated?
 - ²¹⁰¹ 1 Sold

2 Rented Out

3 🗌 Idle

4 Enrolled in a conservation program (CRP, WRP, etc.)

After completing Item 1a above, Go to Section 16 - Conclusion, page 48

Section 1 - Land Use and Livestock

Please report farm/ranch land owned, rented, or used in your operation.

INCLUDE all cropland, idle land, Conservation Reserve Program (CRP), pastureland, woodland, wasteland, farmstead, acres used for crop/livestock production facilities, and all other building sites associated with this operation, etc.

1. For 2021, how many acres did this operation:		r 2021, how many acres did this operation:		Acres
	a.	Own?	+	901
	b.	Rent or Lease from others or use Rent Free? INCLUDE any short term leases or land used on an animal unit month (AUM) basis	+	132
	C.	Rent to others?	-	905
2.	Ca	lculate Item 1a + 1b - 1c. Then the total acres operated in 2021 was:	=	900
3.	Of	the total acres operated, how many acres are considered:		Acres
	a.	Cropland, including land in hay, summer fallow, tree farms, orchards, vineyards, nurseries, and cropland idle?		101
		i. How many acres were under an easement against development for non-agricultural uses in 2021?		2400
	b.	Grazing land, including permanent pasture and rangeland, woodland pastured, and other pasture and grazing land (including rotational pasture) that could have been used for crops without additional improvements?		102
		i. How many acres were under an easement against conversion to crop production or non- agricultural use in 2021?		2401
	C.	Woodland, not pastured?		103
	d.	Other land?		104
4.		the total acres operated, how many acres were under a permanent or long-term easement or rolled in a land retirement program in 2021?		107

INCLUDE any other land enrolled in the Conservation Reserve Program (CRP), Wetland Reserve Program (WRP), Farmable Wetlands Program (FWP), Conservation Reserve Enhancement Program (CREP), Agricultural Conservation Easements Program (ACEP) or any other state, federal or local program

EXCLUDE land included in 3ai or 3bi

Section 1 - Land Use and Livestock (continued)

5. Report the total number of livestock and poultry, by type, on your operation on December 31, 2021.

				Number
				108
	a.	Beef cows		
				109
	b.	Milk cows, including any dry cows		
				110
	C.	Other cattle and calves		
		INCLUDE fed cattle, beef and dairy cull animals, stock	ers and feeders, veal calves, etc.	
				111
	d.	All hogs and pigs		
				112
	e.	All Poultry		
		INCLUDE layers and pullets, including table and hatch	ing, turkeys, broilers, other chickens, ducks,	etc.
			-	
				2402
	f.	All other livestock		
		INCLUDE goats, sheep, etc.		
6.	Dui	ring 2021, did this operation produce organic products a	according to USDA's National Organic Progra	m (NOP)
		indards or have acres transitioning into USDA NOP Pro		()
	ΕX	CLUDE processing and handling		
	106	6		
		1 🗌 Yes 3 🗌 No		

 During 2021, did this operation participate in a sustainable sourcing contract that requires specific farming practices? 2403

1 🗌 Yes

3 🗌 No

Section 2 - General Approach to Conservation

1. In this survey, conservation practices refer to actions taken or new technologies adopted to conserve soil, water, and wildlife habitat on your farm or improve environmental quality such as water quality, off the farm. Report your agreement or disagreement with the following statements about your approach to using conservation practices.

	Agree	Neither Agree nor Disagree	Disagree
240- I seek out information about conservation practices and their implementation	1	2	3
I generally adopt new conservation practices before other farmers in my local 240. area.	j 1	2	3
240 I experiment with new conservation practices on my farm	i 1	2	3
I do not implement new conservation practices unless I know that they will 240 increase my profits or reduce my workload.	1	2	3
I am willing to adopt conservation practices that improve environmental quality, ²⁴⁰ even if they do not increase my profit or reduce my workload	3 1	2	3
I am willing to adopt conservation practices that protect my investment in the land, even if they do not increase my profit or reduce my workload	1	2	3
I am willing to adopt conservation practices that preserve land for the next 241 generation, even if they do not increase my profit or reduce my workload	1	2	3

2. Thinking in general about the conservation practices that you have used in your farm operation, what are your objectives when deciding to use conservation practices? Check all that apply.

2411	Maintaining or enhancing productivity
2412	Improving water quality (e.g. avoiding polluting streams, rivers, and lakes)
2413	Enhancing soil health or soil quality
2414	Reducing erosion
2415	Keeping chemicals and nutrients on the farm
2416	Mitigating the effects of drought
2417	Increasing the efficiency of my irrigation system
2418	
2419	Supporting wildlife habitat
2420	Managing dust, odors, or other air quality issues 2421
	Other, please specify:

Section 3 - Technical Assistance

1. In this survey, conservation refers to actions taken to improve and preserve natural resources such as soil, water, and wildlife habitat on your operation.

Have you ever received technical assistance (expertise or information) for conservation on cropland you operate from any federal, state, local university, or other source that was not financial? Report on technical assistance you received regardless of whether you received financial assistance to help defray the cost of installing or implementing conservation practices.

INCLUDE

- Expertise or information provided for planning or implementing conservation practice or designing, laying out, or installing conservation structures
- Expertise or information from private technical service providers (TSPs) that is reimbursed by federal, state, or local governments
- Expertise or information from your CCA, seed dealer, agronomist, or co-op, that may be free or a paid service

150

1 🗌 Yes - Continue

3 🗌 No - Go to Item 1b

a. Have you received technical assistance for conservation from any of these sources? Check all that apply.

151

Federal agencies (typically free)

152 153

Private sources (free or paid)

State or local agencies (typically free)

b. Report your agreement or disagreement with the following statements about technical assistance on your cropland from a government, university, or other source.

		NA	Agree	Neither Agree nor Disagree	Disagree
Technical assistance is available to me	160		2	3	4
I am comfortable using free technical assistance from federal government employees.	167		2	3	4
I am comfortable using free technical assistance from non-federal government sources.	168		2	3	4
I have never sought any form of technical assistance	163		2	3	4
I tried to get free technical assistance from the federal government but could not.	2422	1	2	3	4
I tried to get free technical assistance from a non-federal government source but could not.	2423	1	2	3	4
I received technical assistance and it was beneficial	165	1	2	3	4
I received technical assistance but it took too long	2424	1	2	3 🗌	4
I received technical assistance but it did not meet my needs	2425	1	2	3	4

Section 4 - Cover Crops

1. Cover crops are non-cash crops planted primarily for managing soil fertility, soil quality, and controlling weeds, pests and diseases.

Based on the definition above, have you ever used cover crops at any time?

EXCLUDE Conservation Reserve Program acres

	La	ind Owned	Land Leased
	2426	1 🗌 Yes	2427 ₁ 🗌 Yes
Cover Crops		3 🗌 No	3 🗌 No

If you checked "Yes" in any box above, go to Item 2. If you checked "No" for all boxes above, complete Items 1a and 1b below, then go to Section 5 - Nutrient Management, page 10.

a. Please report your agreement or disagreement with the following statements.

I have never used cover crops because:

	Agree	Neither Agree nor Disagree	Disagree
I have no conservation need	1	2	3
I have a conservation need, but more information about cover crops ²⁴²⁸ would help me decide whether to use them.	1	2	3
203 Other farmers I know have been unsuccessful.	1	2	3
Anticipated cost greater than the benefits	1	2	3
205 It would take too much time or effort.	1	2	3
206 I tried to get but did not receive technical assistance.	1	2	3
207 I applied for but did not receive financial assistance	1	2	3
208 Financial assistance would not cover enough of the cost	1	2	3
209 I cannot fit cover crops into my rotation.	1	2	3

b. Please specify any additional reason why you never used cover crops.

210

Other reason, specify:

After completing Items 1a and 1b above, go to Section 5 - Nutrient Management, page 10.

	7	

	ection 4 - Cover Crops (continued) 211		
2.	Did you use cover crops in 2021?	1 🗌 Yes - Continue	3 🗌 No - Go to Item 3
	a. What percentage of your cropland had cover cr	rops in 2021? (0-100%)	
	 i. What type of cover crop was used in 2021? 213 Single species or seed type 214 Mix of 2 to 5 seed species 215 Mix of more than 5 seed species 216 Other ii. What crops were planted before and after the INCLUDE every crop planted before or after the INCLUDE every crop planted before the INC	he 2021 cover crop?	
	 iii. Which of the following were used to termina ²¹⁹ Herbicide ²²⁰ Tillage ²²¹ Roller/Crimper or other rolling met ²²² Winter kill 		Check all that apply.
	iv. Did you use any cover crops for grazing, for		224
3.	v. Did you harvest any cover crops for grain in What year did you first use cover crops?		261
	a. For the first year of cover crops, on what propo	rtion of cropland were cove	er crops used? (0-100%)
	 In the first year you planted cover crops, we Cropland identified as highly erodible is sub compliance" requirements. Producers who 	pject to highly erodible land	l conservation (HELC) or "conservation

written soil conservation plan, prepared in accordance with Federal standards.

1 🗌 Yes	3 🗌 No

Section 4 - Cover Crops (continued)

b. For the first year, did you receive either of the following?

	Did you receive technical assistance?	Did you receive financial assistance?	How many acres had financial assistance?	Portion of total cost covered by financial assistance	
	227 ₁ Yes	228 ₁ Yes	229	230	
Cover crops	з 🗌 No	з 🗌 No		%	
i. What portion of financial assistance to begin this practice was from federal sources?					

%

Enter 0 if no financial assistance was received.

c. Please report your agreement or disagreement with the following statements.

I chose to use cover crops on my operation because:

	Agre	е	Neither Agree nor Disagree	Disagree
Anticipated meeting an on-farm conservation need	2 1		2	3
Other farmers I know have been successful using cover crops	3 1]	2	3
Cover crops were recommended to me by a trusted advisor	29 1]	2	3
I was confident I could use cover crops successfully	30 1		2	3
Anticipated benefits greater than cost	4 1		2	3
Anticipated saving time or effort	5 1		2	3
I received technical assistance	6 1]	2	3
I received financial assistance	7 1		2	3
Anticipated off-farm environmental benefits	8 1		2	3

d. Please specify any additional reason why you started using cover crops.

260

Other reason, specify:

4. Since the first year of cover crop use, have you expanded the percent of cropland in which cover crops are used?

	Land Owned	Land Leased
	²⁴³¹ 1 🗌 Yes	2432 ₁ 🗌 Yes
Expanded use of cover crops	3 🗌 No	3 🗌 No

If you checked "Yes" in either of the boxes above, go to Item 4a. If you checked "No" in both boxes above, go to Item 5.

Section 4 - Cover Crops (continued)

a. Did you receive the following for expanding the use of cover crops?

	Did you receive technical assistance?	Did you receive financial assistance?	How many acres had financial assistance?	Portion of total cost covered by financial assistance
	240 ₁ Yes	241 ₁ Yes	242	243
Cover crops	3 🗌 No	3 🗌 No		%

i. What portion of financial assistance to expand this practice was from federal sources?

b. Please report your agreement or disagreement with the following statements about cover crops?

I chose to expand the use of cover crops on my operation because:

		Agree	Neither Agree nor Disagree	Disagree
Anticipated meeting additional on-farm conservation need ²	245	1	2	3
The practice was working well for me elsewhere ²⁴	2433	1	2	3
Anticipated benefits greater than cost	246	1	2	3
Anticipated saving time or effort	247	1	2	3
I received technical assistance	248	1	2	3
I received financial assistance	249	1	2	3
Anticipated off-farm environmental benefits	250	1	2	3

- 5. Have you stopped using cover crops?
 - 2434

1 🗌 Yes - Continue

³ No - Go to Section 5 - Nutrient Management, page 10

251

%

- a. What year did you last use cover crops? year
- b. Please report your agreement or disagreement with the following statements.

I chose to stop using cover crops because:

	Agree	Neither Agree nor Disagree	Disagree
Did not meet my conservation need	1	2	3
Costs were greater than benefits 253	1	2	3
Too much time or effort	1	2	3
Technical assistance ended	1	2	3
Financial assistance ended	1	2	3
Financial assistance did not cover enough of the cost	1	2	3

Section 5 - Nutrient Management

1.	Whic	ch of	the following nutrient or fertility management practices did you use in 2021? Check all that apply.
	301		Follow recommendations from a soil test or tissue test
	302		Incorporate nutrients through tillage or injection
	303		Apply nutrients no more than 30 days in advance of planting
	304		Split application (applying nutrients after the crop is already growing)
	305		Precision nutrient management (applying nutrients according to site specific recommendations for GPS-referenced sampling points)
	306		Precision lime application
	307		Adaptive nutrient management (using test plots and consulting with a nutrient management expert to adapt nutrient applications (rate, source, timing, placement) based on nutrient use efficiencies)

2. A nutrient management plan guides the amount, source, placement, and timing of the application of plant nutrients and soil amendments (including manure) to meet crop yield goals while minimizing the loss of nutrients to surface and groundwater, reduce nitrogen emissions to air, and maintain physical, chemical, and biological condition of the soil.

Based on the definition above, have you ever followed a written nutrient management plan developed with assistance from a government agency, private consultant, or other technical expert?

¹⁷³¹ 1 Yes - Go to Item 3

3 No - Complete Items 2a and 2b below, then go to Section 6 - Pest Management, page 14

a. Please report your agreement or disagreement with the following statements.

I have never followed a written nutrient management plan because:

		Agree	Neither Agree nor Disagree	Disagree
I have no conservation need	308	1	2	3
I have a conservation need, but more information about nutrient anagement plans would help me decide whether to use them.	2435	1	2	3
Other farmers I know have been unsuccessful.	309	1	2	3
Anticipated cost greater than benefits	310	1	2	3
It would take too much time or effort	311	1	2	3
I tried to get but did not receive technical assistance	312	1	2	3
I tried to get but did not receive financial assistance	313	1	2	3
Financial assistance would not cover enough of the cost	314	1	2	3

b. Please specify any additional reason why you never followed a written nutrient management plan.

Other reason, specify:

315

After completing Items 2a and 2b above, Go to Section 6 - Pest Management, page 14.

26	ection 5 - Nutrient Management (continued)
3.	Did you follow a written nutrient management plan in 2021? ³¹⁶ 1 🗌 Yes - Continue 3 🗌 No - Go to Item 4
	a. Are you implementing your nutrient management plan as a component of a 317 comprehensive soil health management system?
	 b. Are you required to follow a written nutrient management plan by regulation? 318 INCLUDE regulation from Federal, State, or local governments 1 ☐ Yes 3 ☐ No
	c. On what percentage of your cropland did you follow a written nutrient management plan in 2021?
4.	320 What year did you start following a written nutrient management plan? year
	a. In the first year of implementation, what percentage of your cropland did your nutrient management

•••	i allo mot yo		somenation, mat percentage er jear erepland did jear natione management	
n	lan cover? (0 100%		n
Р		0-100 /0	/	

%

%

b. For the first year, did you receive either of the following?

Nuturia and Manager and (a surflag and)

-41 - -- F

	Did you receive technical assistance?	-	How many acres had financial assistance?	5
	322 ₁ 🗌 Yes	³²³ 1 🗌 Yes	324	325
Nutrient Management Plan	3 🗌 No	з 🗌 No		%
i M/hat parties of financial as	sistense te besis this	manting was from f		326

i. What portion of financial assistance to begin this practice was from federal sources?

c. Please report your agreement or disagreement with the following statements.

I began following a written nutrient management plan because:

		Agree	Neither Agree nor Disagree	Disagree
Anticipated meeting an on-farm conservation need.	327	1	2	3
Other farmers I know have been successful	328	1	2	3
It was recommended to me by a trusted advisor.	2436	1	2	3
I was confident I could follow the plan successfully.	2437	1	2	3
Anticipated benefits greater than cost	329	1	2	3
Anticipated saving time or effort.	330	1	2	3
I received technical assistance.	331	1	2	3
I received financial assistance.	332	1	2	3
Anticipated off-farm environmental benefits.	333	1	2	3

d. Please specify any additional reason why you started following a written nutrient management plan.

Other reason, specify:

354

Section 5 - Nutrient Management (continued)

 Since the first year of following a written nutrient management plan, ³³⁴ have you expanded the percent of cropland covered by a written ¹ plan?

 $_1$ \Box Yes - Continue 3

3 No - Go to Item 6, page 13

%

a. Did you receive the following for expanding the use of nutrient management?

	Did you receive technical assistance?	Did you receive financial assistance?	How many acres had financial assistance?	Portion of total cost covered by financial assistance
	³³⁵ 1 🗌 Yes	³³⁶ 1 Yes	337	338
Nutrient Management Plan	з 🗌 No	3 🗌 No		%

i. What portion of financial assistance to expand this practice was from federal sources? ³³⁹ Enter 0 if no financial assistance was received.

b. Please report your agreement or disagreement with the following statements.

I chose to expand the scope of my written nutrient management plan because:

	Agree	Neither Agree nor Disagree	Disagree
340 Anticipated meeting additional on-farm conservation needs	1	2	3
243 The practice was working well for me elsewhere	3 1	2	3
Anticipated benefits greater than cost	1	2	3
Anticipated saving time or effort	1	2	3
I received technical assistance	1	2	3
344 I received financial assistance.	1	2	3
345 Anticipated off-farm environmental benefits	1	2	3

Section 5 - Nutrient Management (continued)

- 6. Have you stopped following a written nutrient management plan?
 - 2439

1 Yes - Continue

3 🗌 No - Go to Section 6 - Pest Management, page 14

- b. Please report your agreement or disagreement with the following statements.

I chose to stop following a written nutrient management plan because:

	Agree	Neither Agree nor Disagree	Disagree
Did not meet my conservation need	1	2	3
348 Costs were greater than benefits	1	2	3
349 It took too much time or effort	1	2	3
350 Technical assistance ended.	1	2	3
351 Financial assistance ended	1	2	3
352 Financial assistance did not cover enough of the cost	1	2	3

Section 6 - Pest Management

۱.	Which of the following pest management practices did you use in 2021? Check all that apply.				
	401		Activities to reduce potential drift, runoff, leaching, etc.		
	402		Scouting for pests and using economic thresholds to decide when to apply pesticides		
	403		Use of precision technology such as GPS, variable rate application, or smart sprayers		
	404		Artificial intelligence techniques such as weed sensing or autonomous robotics		
	405		Measures to reduce injury to beneficial organisms and pollinators		
	406		Prevention and avoidance techniques such as planting resistant varieties/cultivars, cleaning equipment, mulching, creating beneficial insect habitat		

 A written pest management plan is a site-specific combination of pest prevention, avoidance, monitoring, and suppression strategies to reduce plant pest pressure while mitigating risks to soil, water, air, plants, animal, and humans. A pest can include weeds, invertebrates (insects, mites, slugs, nematodes), or disease.

Based on the definition above, have you ever followed a written pest management plan developed with assistance from a government agency, private consultant, or other technical expert?

⁴⁰⁷ 1 Yes - Go to Item 3

³ No - Complete Items 2a and 2b below, then go to Section 7 - Tillage Practices, page 18

a. Please report your agreement or disagreement with the following statements about a written pest management plan.

I have never followed a written pest management plan because:

	Agree	Neither Agree nor Disagree	Disagree
I have no conservation need	1	2	3
I have a conservation need, but more information about pest 2440 management plans would help me decide whether to use them	1	2	3
409 Other farmers I know have been unsuccessful.	1	2	3
Anticipated costs greater than benefits	1	2	3
It would take too much time or effort	1	2	3
I tried to get but did not receive technical assistance	1	2	3
I applied for but did receive financial assistance	1	2	3
Financial assistance would not cover enough of the cost	1	2	3

b. Please specify any additional reason why you never followed a written pest management plan.

Other reason, specify: 415

After completing Items 2a and 2b above, Go to Section 7 - Tillage Practices, page 18.

Section 6 - Pest Management (continued)

3.	416 Did you follow a written pest management plan in 2021? ₁ ☐ Yes - Continue ₃ ☐ No -	Go to Item 4	
	a. On what percentage of your cropland did you follow a pest management plan in 2021? (0-100%)	417	%
4.	What year did you first follow a written pest management plan?	418	
	a. For the first year of pest management, on what proportion of cropland was the pest management plan followed? (0-100%)	419	%

b. For the first year, did you receive either of the following?

	Did you receive technical assistance?	Did you receive financial assistance?	How many acres had financial assistance?	Portion of total cost covered by financial assistance	
	420 ₁ 🗌 Yes	421 ₁ Yes	422	423	
Pest Management Plan	3 🗌 No	3 🗌 No		%	
. What portion of financial assistance to begin this practice was from federal sources?					

%

- Enter 0 if no financial assistance was received.
- c. Please report your agreement or disagreement with the following statements.

I chose to start following a written pest management plan because:

	Agree	Neither Agree nor Disagree	Disagree
Anticipated meeting an on-farm conservation need	1	2	3
Other farmers I know have been successful	1	2	3
It was recommended to me by a trusted advisor	1	2	3
I was confident I could follow the plan successfully	1	2	3
Anticipated benefits greater than cost	1	2	3
Anticipated saving time or effort	1	2	3
I received technical assistance. 430	1	2	3
I received financial assistance. 431	1	2	3
Anticipated off-farm environmental benefits	1	2	3

d. Please specify any additional reason why you started following a written pest management plan.

425

Other reason, specify:

Section 6 - Pest Management (continued)

5. Since the first year of following a pest management plan, have you expanded the percent of cropland in which the pest management plan is used?

433

1 Yes - Continue

3 🗌 No - Go to Item 6, page 17

a. Did you receive the following for expanding the pest management plan?

	Did you receive technical assistance?		How many acres had financial assistance?	Portion of total cost covered by financial assistance
	⁴³⁴ 1 🗌 Yes	⁴³⁵ 1 🗌 Yes	436	437
Pest Management Plan	з 🗌 No	3 🗌 No		%

- b. Please report your agreement or disagreement with the following statements.

I chose to expand the scope of my written pest management plan because:

		Agree	Neither Agree nor Disagree	Disagree
Anticipated meeting an on-farm conservation need	2443	1	2	3
The practice was working well for me elsewhere	2444	1	2	3
Anticipated benefits greater than cost	440	1	2	3
Anticipated saving time or effort	441	1	2	3
I received technical assistance.	442	1	2	3
I received financial assistance.	443	1	2	3
Anticipated off-farm environmental benefits.	2445	1	2	3

6.	Have you stopped following a written pest management plan?	
----	--	--

Δ	5	2	

1 Yes - Continue

₃ 🗌 No - Go to Section 7 - Tillage Practices, page 18

445

- a. What year did you last follow a written pest management plan? year
- b. Please report your agreement or disagreement with the following statements.

I chose to stop following a written pest management plan because:

	Agree	Neither Agree nor Disagree	Disagree
446 Did not meet my conservation need	1	2	3
447 Costs were greater than benefits	1	2	3
448 It took too much time or effort	1	2	3
449 Technical assistance ended	1	2	3
450 Financial assistance ended.	1	2	3
451 Financial assistance did not cover enough of the cost	1	2	3

Section 7 - Tillage Practices

1. Tillage practices such as no-till, strip-till, and reduced tillage (mulch till or ridge-till) manage crop and other plant residue on the soil surface year-round by limiting soil-disturbing activities used to grow and harvest crops.

No-till is planting crops without tilling the soil. Note that knifing in fertilizer is not considered a tillage operation. Strip-till means limiting tillage to only in-row narrow tillage prior to planting and during planting. Reduced tillage means reducing the number and type of yearly tillage operations. In all cases, plant residue is managed to provide cover on the soil surface throughout the year.

Based on the description above, have you ever used no-till, strip-till, or reduced tillage (e.g., mulch till, ridge-till, etc.) at any time on any portion of your operation?

²⁴⁴⁶ 1 Yes - Complete Item 1a, then go to Item 2, page 19

3 🗌 No - Complete	Items	1b and	1c, then go to	
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Section 8 - Drainage Water Management, page 23

a.

	Land Owned	Land Leased
	²⁴⁴⁷ 1 🗌 Yes	2448 ₁ 🗌 Yes
No-Till or Strip-Till	3 🗌 No	3 🗌 No
	2450 ₁	²⁴⁵¹ 1 🗌 Yes
Reduced tillage	3 🗌 No	3 🗌 No

If you checked "Yes" in any box above, go to Item 2, page 19. If you checked "No" for all boxes above, complete Items 1b and 1c below, then go to Section 8 - Drainage Water Management, page 23.

b. Please report your agreement or disagreement with the following statements about tillage practices.

I have never used no-till, strip-till, or reduced tillage practices because:

		Agree	Neither Agree nor Disagree	Disagree
I have no conservation need	501	1	2	3
I have a conservation need, but more information about tillage 24 practices would help me decide whether to use them.	2452	1	2	3
50 Other farmers I know have been unsuccessful.	502	1	2	3
50 Anticipated cost greater than benefits.	503	1	2	3
50 It would take too much time or effort	504	1	2	3
I tried to get but did not receive technical assistance	505	1	2	3
5 I applied for but did not receive financial assistance	506	1	2	3
24 Financial assistance would not cover enough of the cost	2453	1	2	3

c. Please specify any additional reason why you never used no-till, strip-till, or reduced tillage practices.

Other reason, specify: 507

After completing Items 1a and 1b above, Go to Section 8 - Drainage Water Management, page 23.

Section 7 - Tillage Practices (continued)

3.

2. Did you use no-till, strip-till, or reduced tillage (e.g., mulch till, ridge-till, etc.), in 2021? 509

 $_1$ Yes - Continue $_3$ No - Go to Item 3

a. In 2021, what percentage of your cropland did you use each of the following?

		Percent of Cropland Acres			
	No-till (knifing in fertilizer is not considered a tillage operation)	510 %			
	Strip-till	511 %			
	Reduced tillage (mulch till, ridge-till, etc.)	512 %			
	Conventional tillage	513 %			
Wł	hat year did you first use no-till, strip-till or reduced tillage practices?		year	514	
a.	For the first year of no-till, strip-till or reduced tillage, on what proportion strip-till or reduced tillage used? (0-100%)	•		515	
	 Were no-till, strip-till, or reduced tillage needed to meet a conservat need? 	•	516 1 🗌	Yes	з 🗌 No

b. For the first year, did you receive either of the following?

	Did you receive technical assistance?	Did you receive financial assistance?	How many acres had financial assistance?	Portion of total cost covered by financial assistance
	517 ₁ 🗌 Yes	⁵¹⁸ 1 🗌 Yes	519	520
No-Till or Strip-Till	з 🗌 No	з 🗌 No		%
	521 ₁ 🗌 Yes	522 ₁ 🗌 Yes	523	524
Reduced tillage	з 🗌 No	з 🗌 No		%

%

i.	What portion of financial assistance to begin this practice was from federal sources?	525	
	Enter 0 if no financial assistance was received.		%

Section 7 - Tillage Practices (continued)

c. Please report your agreement or disagreement with the following statements.

I chose to start using no-till, strip-till, or reduced tillage because:

		Agree	Neither Agree nor Disagree	Disagree
Anticipated meeting an on-farm conservation need	526	1	2	3
Other farmers I know have been successful	527	1	2	3
It was recommended to me by a trusted advisor	2454	1	2	3
I was confident I could use the practice successfully	2455	1	2	3
Anticipated benefits greater than cost	528	1	2	3
Anticipated saving time or effort	529	1	2	3
I received technical assistance.	530	1	2	3
I received financial assistance.	531	1	2	3
Anticipated off-farm environmental benefits.	532	1	2	3

d. Please specify any additional reason why you started using no-till, strip-till, or reduced tillage practices.

Other reason, specify:

557

Section 7 - Tillage Practices (continued)

4. Since your first year of using conservation tillage practices, have you expanded the percent of cropland in which no-till, strip-till, or reduced tillage was used?

533

1 🗌 Yes - Continue

₃ No - Go to Item 5, page 22

	Land Owned		La	nd Leased
	2456		2457	1 🗌 Yes
No-Till or Strip-Till		3 🗌 No		3 🗌 No
	2458	1 🗌 Yes	2459	1 🗌 Yes
Reduced tillage		3 🗌 No		3 🗌 No

If you checked "Yes" in any box above, continue to 4a. If you checked "No" in all boxes above, go to Item 5, page 22.

a. Did you receive the following for expanding the use of no-till, strip-till, reduced tillage practices?

	Did you receive technical assistance?	Did you receive financial assistance?	How many acres had financial assistance?	Portion of total cost covered by financial assistance
	⁵³⁴ 1 🗌 Yes	⁵³⁵ 1 🗌 Yes	536	537
No-Till or Strip-Till	з 🗌 No	з 🗌 No		%
	⁵³⁸ 1 Yes	⁵³⁹ 1 Yes	540	541
Reduced tillage	з 🗌 No	з 🗌 No		%

542

%

- i. What portion of financial assistance to expand this practice was from federal sources? Enter 0 if no financial assistance was received.
- b. Please report your agreement or disagreement with the following statements.

I chose to expand the no-till, strip-till, or reduced tillage practices because:

	Agree	Neither Agree nor Disagree	Disagree
543 Anticipated meeting additional on-farm conservation needs	1	2	3
2460 The practice was working well for me elsewhere	1	2	3
544 Anticipated benefits greater than cost	1	2	3
545 Anticipated saving time or effort	1	2	3
546 I received technical assistance.	1	2	3
547 I received financial assistance	1	2	3
548 Anticipated off-farm environmental benefits.	1	2	3

5. Have you stopped using no-till, strip-till, or reduced tillage techniques?

75	ŝ	5

1 🗌 Yes - Continue	3 🗌 No - Go to Section 8 - Drainage Water Management, page 23
	3 I No - Go to Section 6 - Drainage Water Management, page 25

549

- a. What year did you last use any no-till, strip-till, or reduced tillage technique? year
- b. If you did not use any no-till, strip-till, or reduced tillage in 2021, do you plan to do so again within 3 years?
 556

 1 Yes Go to Section 8 Drainage Water Management, page 23
 3 No Continue
- c. Please report your agreement or disagreement with the following statements?

I chose to stop using no-till, strip-till, or reduced tillage because:

	Agree	Neither Agree Nor Disagree	Disagree
550 Did not meet my conservation need	1	2	3
551 Costs were greater than benefits	1	2	3
552 It took too much time or effort	1	2	3
553 Technical assistance ended	1	2	3
554 Financial assistance ended	1	2	3
555 Financial assistance did not cover enough of the cost	1	2	3

Section 8 - Drainage Water Management

1.		you have a drainage system (tile, ditch, etc.)?
	600	1 🗌 Yes - Continue 3 🗌 No - Go to Section 9 - Runoff Management Practices, page 28
	a.	What proportion of your cropland has drainage?
	b.	In what year was the current drainage system installed or last upgraded? year
	C.	Have you ever received financial assistance from the federal government, state 2462 government, or drainage district to improve your drainage system? 1 [] Yes 3 [] No
	d.	Is your drainage system regulated by your state or local government?
	e.	Does this drainage system have surface inlets?
	f.	Where does this system empty?
		2465 1 \square An open, single stage ditch
		₂ A natural waterbody
		₃ A saturated buffer
		4 🗌 A retention pond
		5 Another type of receiving system
	g.	Water control structures can be used to manage the direction or rate of flow, maintain a desired water surface elevation, or measure water. These may include stop logs, flashboard risers, float mechanisms, check dams, division boxes, pipe drop inlets, etc.
		Based on the definition above, please report the percent for each of the following:
		i. Percentage of cropland acres that used manually operated water control structures
		ii. Percentage of cropland acres that used automated or remotely operated water control 2466 %
		iii. Percentage of cropland acres that did not use any water control structure (s)
		If you answered 100 percent cropland acres that did not use any water control structures for Item 1giii above, go to Section 9 - Runoff Management Practices, page 28. Otherwise, continue to Item 1h.
	h.	Do you use the water control structure(s) to keep water and nutrients in the plant root 602 zone during the growing season?
	i.	Do you store your drainage water (such as in a pond) for use in irrigation or livestock ⁶⁰³ watering?

2. A drainage water management plan guides the process of managing the drainage volume and water table elevation by regulating the flow from a surface or subsurface agricultural drainage system.

Based on the definition above, have you ever followed a written drainage water management plan developed with assistance from a government agency, private consultant, or other technical expert?

⁶¹¹ 1 Yes - Go to Item 3 3 No - Complete Items 2a and 2b below, then go to Section 9 - Runoff Management Practices, page 28

a. Please report your agreement or disagreement with the following statements about a drainage water management plan.

I have never followed a written drainage water management plan because:

		Agree	Neither Agree nor Disagree	Disagree
I have no conservation need	612	1	2	3 🗌
I have a conservation need, but more information about drainage water management plans would help me decide whether to use them	2468	1	2	3
Other farmers I know have been unsuccessful.	613	1	2	3 🗌
Anticipated cost greater than benefit.	614	1	2	3
It would take too much time or effort	615	1	2	3
I tried to get but did not receive technical assistance.	616	1	2	3 🗌
I applied for but did not receive financial assistance.	617	1	2	3 🗌
Financial assistance would not cover enough of the cost	618	1	2	3 🗌

b. Please specify any additional reason why you never followed a drainage water management plan.

Other reason, specify:

619

After completing Items 2a and 2b above, Go to Section 9 - Runoff Management Practices, page 28.

3.	621 Did you follow a written drainage water management plan in 2021? 1 🗌 Yes	3 🗌 No
4.	What year did you start following a written drainage water management plan? year	622
	a. In the first year of implementation, what percentage of your drained cropland did your drainage water management plan cover? (0-100%)	623 %

b. For the first year, did you receive either of the following?

	Did you receive technical assistance?	Did you receive financial assistance?	,	Portion of total cost covered by financial assistance		
Drainage Water Management Plan	624 ₁ Yes 3 No	625 ₁ Yes 3 No	626	627 %		
i. What portion of financial assistance to begin this practice was from federal sources?						

Enter 0 if no financial assistance was received.

c. Please report your agreement or disagreement with the following statements.

I chose to start following a drainage water management plan on my operation because:

		Agree	Neither Agree nor Disagree	Disagree
Anticipated meeting an on-farm conservation need	628	1	2	3
Other farmers I know have been successful	629	1	2	3
It was recommended to me by a trusted advisor	2469	1	2	3
I was confident I could follow the plan successfully	2470	1	2	3
Anticipated benefits greater than cost	630	1	2	3
Anticipated saving time or effort	631	1	2	3
I received technical assistance	632	1	2	3
I received financial assistance	633	1	2	3
Anticipated off-farm environmental benefits	634	1	2	3

d. Please specify any additional reason why you started following a written drainage water management plan.
 Other reason, specify:

5. On what percentage of your drained cropland did you follow drainage water management in 2021?

%

635

%

6. Since the first implementation of a drainage water management plan, have you expanded the percent of drained cropland in which a drainage water management plan is used?

⁶³⁶ 1 Yes - Continue 3 No - Go to Item 7, page 27

a. Did you receive the following for expanding the use of drainage water management?

	Did you receive technical assistance?	Did you receive financial assistance?	How many acres had financial assistance?	Portion of total cost covered by financial assistance
Drainage Water		⁶³⁸ 1 🗌 Yes	639	640
Management Plan	3 🗌 No	3 🗌 No		%
				1

i. What portion of financial assistance to expand this practice was from federal sources? ⁶⁴¹ Enter 0 if no financial assistance was received.

%

b. Please report your agreement or disagreement with the following statements.

I chose to expand the scope of my drainage water management plan because:

	Agree	Neither Agree nor Disagree	Disagree
642 Anticipated meeting additional on-farm conservation need	1	2	3
2471 The practice was working well for me elsewhere	1	2	3
643 Anticipated benefits greater than cost	1	2	3
644 Anticipated saving time or effort	1	2	3
645 I received technical assistance.	1	2	3
646 I received financial assistance	1	2	3
647 Anticipated off-farm environmental benefits	1	2	3

- 7. Have you stopped following a written drainage water management plan?
 - 2472

1 Yes - Continue

3 No - Go to Section 9 - Runoff Management Practices, page 28

648

- a. What year did you last follow a written drainage water management plan? year
- b. Please report your agreement or disagreement with the following statements.

I chose to stop following a written drainage water management plan because:

	Agree	Neither Agree Nor Disagree	Disagree
649 Did not meet my conservation need	1	2	3
650 Costs were greater than benefits	1	2	3
651 It took too much time or effort	1	2	3
652 Technical assistance ended	1	2	3
653 Financial assistance ended	1	2	3
⁶⁵⁴ Financial assistance did not cover enough of the cost	1	2	3

Section 9 - Runoff Management Practices

1. Runoff management practices slow the movement of water over land, reduce erosion, protect or improve water quality, or store runoff for moisture conservation.

Based on the definition above, in 2021, were any of the following structural practices for runoff management in use on land owned or leased by this operation?

Land Owned Land Leased 700 701 1 | Yes 1 Yes 3 🗌 No 3 🗌 No Terraces 702 703 1 Yes 1 | Yes 3 🗌 No Grassed Waterway 3 🗌 No 704 705 1 TYes 1 Yes Grade Stabilization 3 🗌 No 3 🗌 No 706 1 TYes 707 1 TYes Water and Sediment Basin 3 🗌 No 3 **No** 708 709 1 🗌 Yes 1 🗌 Yes Contour Farming 3 🗌 No 3 🗌 No

Complete the table below, then follow the instructions at the end of the table.

If you answered "No" to all of the questions in Item 1 above, continue. If you answered "Yes" to any of the questions in Item 1 above, go to Item 2, page 29

a. Please report your agreement or disagreement with the following statements about runoff management structures or practices. Complete Items 1a and 1b below, then go to Section 10 - Edge of Field Structures, page 30.

I have never used runoff management structures or practices because:

	Agree	Neither Agree nor Disagree	Disagree
I have no conservation need	1	2	3
I have a conservation need, but more information about runoff 2473 management plans would help me decide whether to use them	1	2	3
Other farmers I know have been unsuccessful	1	2	3
Anticipated cost greater than benefit	1	2	3
It would take too much time or effort	1	2	3
It would interfere with field operations	1	2	3
I tried to get but did not receive technical assistance	1	2	3
I applied for but did not receive financial assistance	1	2	3
Financial assistance would not cover enough of the cost	1	2	3

b. Please specify any additional reason why you never used runoff management structures or practices.

Other reason, specify:

After completing Items 1a and 1b above, Go to Section 10 - Edge of Field Structures, page 30.

718

1 Yes

Section 9 - Runoff Management Practices (continued)

- 717 2. Were any runoff management practices or improvements still in use on leased land in 2021? 1 Yes - Continue 3 No - Go to Item 3
 - a. Do any of your lease agreements require maintenance of the runoff management structure?
- 3. Did you use terraces, grassed waterway, grade stabilization, water 2476 1 🗌 Yes Continue 3 🗌 No Go to Section and sediment basin or contour farming structures on land you owned in 2021?
- 10 Edge of Field Structures, page 30

3 🗌 No

744

%

a. For the runoff management structures in use in 2021 on land you own:

	Did this operation install, rebuild, or upgrade any of these structures?	Did you receive technical assistance for installation?	Did you receive financial assistance for installation?	How many acres had financial assistance?	Portion of total cost covered by financial assistance
	⁷¹⁹ 1 🗌 Yes	720 ₁ 🗌 Yes	⁷²¹ 1 🗌 Yes	722	723
Terraces	3 🗌 No	з 🗌 No	3 🗌 No		%
	724 ₁ 🗌 Yes	725 ₁ 🗌 Yes	726 ₁ 🗌 Yes	727	728
Grassed Waterway	з 🗌 No	з 🗌 No	3 🗌 No		%
	729 ₁ Yes	730 ₁ Yes	731 ₁ 🗌 Yes	732	733
Grade Stabilization	з 🗌 No	з 🗌 No	з 🗌 No		%
	734 ₁ Yes	735 ₁ 🗌 Yes	736 ₁ 🗌 Yes	737	738
Water and Sediment Basin	з 🗌 No	з 🗌 No	3 🗌 No		%
	739 ₁ 🗌 Yes	740 ₁ Yes	741 ₁ 🗌 Yes	742	743
Contour Farming	3 🗌 No	3 🗌 No	3 🗌 No		%

- i. What portion of financial assistance to install, rebuild, or upgrade runoff management practices was from federal sources? Enter 0 if no financial assistance was received.
- b. Please report your agreement or disagreement with the following statements.

I chose to install, rebuild or upgrade runoff management structures on my operation because:

	Agree	Neither Agree nor Disagree	Disagree
Anticipated meeting an on-farm conservation need ⁷⁴⁵	1	2	3
Other farmers I know have been successful	1	2	3
It was recommended to me by a trusted advisor	1	2	3
I was confident I could implement the practice successfully	1	2	3
Anticipated benefits greater than cost	1	2	3
Anticipated saving time or effort	1	2	3
I received technical assistance ⁷⁴⁸	1	2	3
I received financial assistance ⁷⁴⁹	1	2	3
Anticipated off-farm environmental benefits	1	2	3

c. Please specify any additional reason why you decided to install, rebuild or upgrade any runoff management structures.

751 Other reason, specify:

Section 10 - Edge of Field Structures

1. Edge of field structures establish permanent vegetation at field borders, adjacent to waterways, or in sensitive areas to reduce erosion, improve water or air quality, manage pests, or provide wildlife habitat.

Based on the above definition, in 2021, were any of the following edge of field structures in use on land owned or leased by this operation? Complete the table below, then follow the instructions at the end of the table.

	Land Owned		Land Leased
	800	1 🗌 Yes	⁸⁰¹ 1 🗌 Yes
Field Border		з 🗌 No	3 🗌 No
	802	1 🗌 Yes	⁸⁰³ 1 🗌 Yes
Filter Strip		з 🗌 No	3 🗌 No
Riparian Buffer (trees, grasses, or other vegetation	804	1 🗌 Yes	⁸⁰⁵ 1 🗌 Yes
intentionally planted along a waterway)		з 🗌 No	з 🗌 No

If you answered "No" to all of the questions in Item 1 above, continue. If you answered "Yes" to any of the questions in Item 1 above, go to Item 2, page 31.

a. Please report your agreement or disagreement with the following statements about edge of field structures. Complete Items 1a and 1b below, then go to Section 11 - Wetland Conservation Practices, page 32.

I have never used edge of field structures because:

813

		Agree	Neither Agree nor Disagree	Disagree
I have no conservation need	806	1	2	3
I have a conservation need, but more information about edge of field structures would help me decide whether to use them	2481	1	2	3
Other farmers I know have been unsuccessful	2482	1	2	3
Anticipated cost greater than benefits	808	1	2	3
It would take too much time or effort	809	1	2	3
It would take land out of production	807	1	2	3
I tried to get but did not receive technical assistance	810	1	2	3
I applied for but did not receive financial assistance	811	1	2	3
Financial assistance would not cover enough of the cost	812	1	2	3

b. Please specify any additional reason why you never used edge of field structures.

Other reason, specify:

After completing Items 1a and 1b above, Go to Section 11 - Wetland Conservation Practices, page 32.

Section 10 - Edge of Field Structures (continued)

2.	Were any edge of field structures still in use on leased land in 2021?	814 ₁	з 🗌 No
	a. Do any of your lease agreements require maintenance of edge of field structures?	840 1 🗌 Yes	3 🗌 No

- 3. Did you use field border, filter strip or riparian buffer structures on land you owned in 2021?
 - ²⁴⁸³ 1 Yes Continue 3 No Go to Section 11 Wetland Conservation Practices, page 32
 - a. For the edge of field structures in use in 2021 on land you own:

	Did this operation install, rebuild, or upgrade any of these structures?	Did you receive technical assistance for installation?	Did you receive financial assistance for installation?	How many acres had financial assistance?	Portion of total cost covered by financial assistance
	⁸¹⁵ 1 🗌 Yes	⁸¹⁶ 1 🗌 Yes	817 ₁ 🗌 Yes	818	819
Field Border	3 🗌 No	з 🗌 No	з 🗌 No		%
	820 ₁ 🗌 Yes	⁸²¹ 1 🗌 Yes	822 ₁ 🗌 Yes	823	824
Filter Strip	з 🗌 No	з 🗌 No	з 🗌 No		%
	825 ₁ 🗌 Yes	826 ₁ 🗌 Yes	827 ₁ 🗌 Yes	828	829
Riparian Buffer	3 🗌 No	3 🗌 No	3 🗌 No		%

- i. What portion of financial assistance to install, rebuild, or upgrade edge of field structures was from federal sources? Enter 0 if no financial assistance was received.
- %

b. Please report your agreement or disagreement with the following statements.

I chose to install, rebuild, or upgrade edge of field structures on land I own because:

	Agr	ee	Neither Agree nor Disagree	Disagree
Anticipated meeting an on-farm conservation need ⁸³	31 1		2	3
Other farmers I know have been successful	³² 1 [2	3
It was recommended to me by a trusted advisor	184		2	3
I was confident I could implement the practice successfully	185 1		2	3
Anticipated benefits greater than cost	33 1 [2	3
Anticipated saving time or effort	³⁴ 1 [2	3
I received technical assistance	35 1 [2	3
I received financial assistance	36 1 [2	3
Anticipated off-farm environmental benefits	¹⁸⁶ 1 [2	3

c. Please specify any additional reason why you decided to install edge of field structures.

838

Other reason, specify:

Section 11 - Wetland Conservation Practices

1. Is any portion of your operation (owned or leased) subject to any of the following easements or contracts to protect wetlands? Check all that apply.

906	Permanent wetlands reserve easement
907	30 year wetlands reserve easement
908	Conservation Reserve Program (CRP) contract
909	EQIP Contract
960	Wetland mitigation bank
961	Other state or local wetland program

2. Have either of the following practices ever been installed on your operation to conserve or increase wetlands? Complete the table below, then follow the instructions at the end of the table.

	L	and Owned		Land Leased
	962	1 🗌 Yes	963	1 🗌 Yes
Restored or enhanced existing wetlands		з 🗌 No		3 🗌 No
	964	1 🗌 Yes	965	1 🗌 Yes
Created new wetlands		3 🗌 No		3 🗌 No

If you answered "No" to all of the questions in Item 2 above, continue. If you answered "Yes" to any of the questions in Item 2 above, go to Item 3, page 34.

 Please report your agreement or disagreement with the following statements about wetland conservation practices. Complete Items 2a and 2b below, then go to Section 12 - Irrigation Management and System Improvements, page 35.

I have never used wetland conservation practices because:

	Agree	Neither Agree nor Disagree	Disagree
I have no conservation need	³ 1 □	2	3
I have a conservation need, but more information about wetland practices would help me decide whether to use them	1	2	3
Anticipated costs greater than benefits	3 1	2	3
It would take land out of production ⁹⁶⁷	1	2	3
It would interfere with field operations	1	2	3
It would take too much time or effort	1	2	3
I tried to get but did not receive technical assistance	l 1	2	3
I applied for but did not receive financial assistance	2 1	2	3
Financial assistance would not cover enough of the cost	3 1	2	3

Se	ctio	n 11 - Wetland Conservation Practices (continued)
	b.	Please specify any additional reason why you never used wetland conservation practices. 974 Other reason, specify:
		After completing Items 2a and 2b, Go to Section 12 - Irrigation Management and System Improvements, page 35.
3.		ere any wetland conservation practices still in use on leased land 975 2021? ₁ \Box Yes - Continue $_3$ \Box No - Go to Item 4
	a.	Do any of your lease agreements require maintenance of the 976 wetland conservation practices?
4.	Dio	you restore or enhance existing wetlands or create new wetlands on land you owned in 2021?
	248	⁸ 1 🗌 Yes - Continue 3 🗌 No - Section 12 - Irrigation Management and System Improvements,

page 35

a. For the wetland conservation practices in use in 2021 on land you own:

	Did this operation install, rebuild, or upgrade any of these structures?	Met a Conservation Compliance Need	Did you receive technical assistance for installation?	Did you receive financial assistance for installation?	How many acres had financial assistance?	Portion of total cost covered by financial assistance
Restored or enhanced existing wetlands	⁹⁷⁷ 1 🗌 Yes 3 🗌 No	⁹⁷⁸ 1 ☐ Yes 3 ☐ No	⁹⁷⁹ 1 ☐ Yes 3 ☐ No	⁹⁸⁰ ₁ 🗌 Yes ₃ 🗌 No	931	932 %
Created new wetlands	⁹³³ 1 🗌 Yes 3 🗌 No	⁹³⁴ 1 🗌 Yes 3 🗌 No	⁹³⁵ 1 □ Yes 3 □ No	⁹³⁶ 1 🗌 Yes 3 🗌 No	937	938 %
b. What portion of finar				d practices was f	rom	939 %

%

federal sources? Enter 0 if no financial assistance was received.

c. Please report your agreement or disagreement with the following statements.

I chose to install, rebuild, or upgrade a wetland conservation practice because?

		Agree	Neither Agree nor Disagree	Disagree
Anticipated meeting an on-farm conservation need	940	1	2	3
It was recommended to me by a trusted advisor	2489	1	2	3
I was confident I could implement the practice successfully	2490	1	2	3
Anticipated benefits greater than cost	942	1	2	3
Anticipated saving time or effort	943	1	2	3
I received technical assistance.	944	1	2	3
I received financial assistance	945	1	2	3
Anticipated off-farm environmental benefits	2491	1	2	3

d. Please specify any additional reason why you decided to install or upgrade wetland conservation practices.

Section 11 - Wetland Conservation Practices (continued)

- 5. Have you ever had a wetland practice in place where the contract or easement covering it expired? 947
 - 1 Yes Continue 3 No Go to Item 6
 - a. For these wetland practices, did you choose to:
 - 948
- $_{1}$ \Box $\,$ Maintain the wetland structures or practices Go to Item 6 $\,$
- $_2$ \Box Remove the wetland structures or practices Continue
- b. If you chose to remove the wetland structures or practices, please report your agreement or disagreement with the following statements.

I chose to remove the wetland structures or practices because:

	Agree	Neither Agree nor Disagree	Disagree
It took too much land out of production	1	2	3
It interfered with field operations	1	2	3
It took too much time or effort	1	2	3

		954
6.	What year was the first installation or upgrade of a wetland conservation practice? year	
	a. For the first year that wetland conservation practices were used, what proportion of cropland was designated for the wetland conservation practice? (0-100%)	955
		, •

Section 12 - Irriga	tion Management	and System In	nprovements

- 1. Have you used any irrigation equipment to irrigate any portion of your land at any time?
 - ¹⁰⁰¹ ₁ Yes Continue ₃ No Go to Section 13 Conservation Stewardship Program, page 41
 - a. What proportion of your total cropland was irrigated during 2021? %
 - b. Which of the following irrigation management practices do you use? Check all that apply.
 - ¹⁰⁰³ Soil moisture sensing devices (moisture block, tensiometers, capacitance or other electronic sensors)
 - ¹¹⁵⁰ Plant moisture-sensing devices such as pressure (chamber) bombs or infrared (IR) thermometer
 - ¹⁰⁰⁵ Irrigation scheduling service, including commercial and government
 - ¹⁰⁰⁶ Consulting reports on daily crop-water evapo-transpiration (ET) use (Internet, newspapers, radio, TV, fax or email)
 - Computer simulation models (not from a commercial service)
- 2. Which of the following irrigation systems are in use on your cropland? Complete the table below, then follow the instructions at the end of the table.

1151

	L	and Owned	La	and Leased	this o	alled New by peration in the st 15 years	opera	aded by this tion in the last 15 years
Micro or Drip	1055	1 Yes 3 No	1056	1 Yes 3 No	1057	1 🗌 Yes 3 🗌 No	1058	1 🗌 Yes 3 🗌 No
Sprinkler	1059	1 Yes 3 No	1060	1 Yes 3 No	1061	1 🗌 Yes 3 🗌 No	1062	1 🗌 Yes 3 🗌 No
Gravity or Flood	1063	1 🗌 Yes 3 🗌 No	1064	1 🗌 Yes 3 🗌 No	1065	1 🗌 Yes 3 🗌 No	1066	1 🗌 Yes 3 🗌 No
Sub Irrigation	1067	1 🗌 Yes 3 🗌 No	1068	1 🗌 Yes 3 🗌 No	1069	1 🗌 Yes 3 🗌 No	1070	1 🗌 Yes 3 🗌 No

If no irrigation systems have been installed or upgraded in the last 15 years, go to Item 8, page 40; otherwise continue.

a. For any new installations of irrigation systems or upgrades in the last 15 years, what assistance did you receive?

	Did you receive technical assistance?	Did you receive financial assistance?	How many acres had financial assistance?	Portion of total cost covered by financial assistance
	¹⁰⁷¹ 1 🗌 Yes	¹⁰⁷² 1 🗌 Yes	1073	1074
Micro or Drip	з 🗌 No	з 🗌 No		%
	¹⁰⁷⁵ 1 🗌 Yes	¹⁰⁷⁶ 1 🗌 Yes	1077	1078
Sprinkler	з 🗌 No	з 🗌 No		%
	¹⁰⁷⁹ 1 🗌 Yes	¹⁰⁸⁰ 1 🗌 Yes	1081	1082
Gravity or Flood	з 🗌 No	з 🗌 No		%
	¹⁰⁸³ 1 🗌 Yes	¹⁰⁸⁴ 1 🗌 Yes	1085	1154
Sub Irrigation	3 🗌 No	3 🗌 No		%

i.	What portion of financial assistance to install this practice was from federal sources?	1087
	Enter 0 if no financial assistance was received.	-

1002

Section 12 - Irrigation Management and System Improvements (continued)

3. Did you install new or upgrade any of the following water supply systems within your irrigation systems in the last 15 years?

	New Irrigation System	System Upgrade	Independent of New Installation or Upgrade
	(Including changing the application technology in an existing irrigated field)	(Improvement of the same application technology)	(Maintenance, repair or improvement with current application technology)
Irrigation pipeline	¹¹⁵⁵ ₁ 🗌 Yes ₃ 🗌 No	¹¹⁵⁶ ₁ 🗌 Yes ₃ 🗌 No	¹¹⁵⁷ 1 🗌 Yes 3 🗌 No
Water conveyance structure	¹¹⁹¹ 1 🗌 Yes 3 🗌 No	¹¹⁵⁸ ₁ 3 No	¹⁰⁹³ ₁ Yes ₃ No
Pumping plant	¹¹⁵⁹ 1 ☐ Yes 3 ☐ No	¹⁰⁹⁶ 1 🗌 Yes 3 🗌 No	¹⁰⁹⁷ 1 🗌 Yes 3 🗌 No
Water control structure	¹⁰⁹⁸ ₁	¹⁰⁹⁹ ₁ Yes ₃ No	¹¹⁰⁰ 1 ☐ Yes 3 ☐ No

If no new irrigation systems have been installed or upgraded in the last 15 years, go to Item 4, page 37; otherwise continue.

a. For any new installations of irrigation water supply systems or upgrades in the last 15 years, what assistance did you receive?

	Did you receive technical assistance?	Did you receive financial assistance?	How many acres had financial assistance?	Portion of total cost covered by financial assistance
	¹¹⁰¹ ₁ 🗌 Yes	¹¹⁰² 1 🗌 Yes	1103	1104
Irrigation pipeline	з 🗌 No	3 🗌 No		%
Water conveyance	¹¹⁰⁵ 1 🗌 Yes	¹¹⁰⁶ 1 Yes	1107	1108
structure	3 🗌 No	3 🗌 No		%
	¹¹⁰⁹ 1 🗌 Yes	¹¹¹⁰ 1 🗌 Yes	1111	1112
Pumping plant	з 🗌 No	3 🗌 No		%
	¹¹¹³ 1 🗌 Yes	¹¹¹⁴ 1 🗌 Yes	1115	1116
Water control structure	з 🗌 No	з 🗌 No		%

i.	What portion of financial assistance to install or upgrade this practice was from federal sources?	1117
	Enter 0 if no financial assistance was received.	

%

4. A written irrigation water management plan lays out the process of determining and controlling the volume, frequency and application rate of irrigation water in a planned, efficient manner to improve irrigation water use efficiency, minimize soil erosion, protect surface and groundwater resources, manage salts in the crop root zone, manage air, soil, or plant micro-climate, or reduce energy use.

Based on the definition above, have you ever followed a written irrigation water management plan developed with assistance from a government agency, private consultant, or other technical expert?

¹⁰⁰⁸ ₁ <u>Yes</u> - Go to Item 5

- ³ No Complete Items 4a and 4b below, then go to Section 13 -Conservation Stewardship Program, page 41
- a. Please report your agreement or disagreement with the following statements about a written irrigation water management plan.

I have never followed a written irrigation water management plan because:

	Agree	Neither Agree nor Disagree	Disagree
I have no conservation need	1	2	3
I have a conservation need, but more information about irrigation water ²⁴⁹² management plans would help me decide whether to use them	1 🗌	2	3
It would not impact my decisions about when to irrigate	1	2	3
Anticipated cost greater than benefits	1	2	3
It would take too much time or effort	1	2	3
I tried to get but did not receive technical assistance	1	2	3
I applied for but did not receive financial assistance	1	2	3
Financial assistance would not cover enough of the cost	1	2	3

b. Please specify any additional reason why you never followed a written irrigation water management plan.

1016 Other reason, specify:

After completing Items 4a and 4b above, Go to Section 13 - Conservation Stewardship Program, page 41.

5.	Did you follow a written irrigation water management plan in 2021? ¹⁰¹⁷ 1 Yes - Continue 3 No pag	- Go to Item 6, ge 38
	a. On what percentage of your irrigated cropland did you follow an irrigation water management plan in 2021? (0-100%)	1018

6.	What year did you first follow an irrigation water management plan?	1019
	a. For the first year using a written irrigation water management plan, on what proportion of total cropland was the written plan used? (0-100%)	1020 %

b. For the first year, did you receive either of the following?

	Did you receive technical assistance?		How many acres had financial assistance?	
	1021 ₁ 🗌 Yes	1022 ₁ 🗌 Yes	1023	1024
Irrigation Management Plan	3 🗌 No	3 🗌 No		%

%

i. What portion of financial assistance to begin this practice was from federal sources? ¹⁰²⁵ Enter 0 if no financial assistance was received.

c. Please report your agreement or disagreement with the following statements.

I chose to begin following a written irrigation water management plan because:

	Agree	Neither Agree nor Disagree	Disagree
Anticipated meeting an on-farm conservation need	1	2	3
Other farmers I know have been successful 1027	1	2	3
It was recommended to me by a trusted advisor	1	2	3
I was confident I could follow the plan successfully	1	2	3
Anticipated benefits greater than cost	1	2	3
Anticipated saving time or effort	1	2	3
I received technical assistance	1	2	3
I received financial assistance	1	2	3
Anticipated off-farm environmental benefits	1	2	3
Required by water supplier or water control district ¹⁰³³	1	2	3
To reduce water application amounts due to drought ¹⁰³⁴	1	2	3
To reduce water application due to a loss of access to a water ¹⁰³⁵ supply.	1	2	3

d. Please specify any additional reason why you started following a written irrigation water management plan.

Other reason, specify:

7. Since the first year following an irrigation water management plan, have you expanded the percent of total land in which an irrigation water management plan is used?

¹⁰³⁶ $_1$ Yes - Continue $_3$ No - Go to Item 8, page 40

a. Did you receive the following for expanding your irrigation water management plan?

	Did you receive technical assistance?	Did you receive financial assistance?	How many acres had financial assistance?	Portion of covered by assist	y financial
Irrigation Management Plan	1037 ₁ Yes ₃ No	1038 ₁	1039	1040	%
i. What portion of financial as	sistance to expand th	nis practice was from	federal sources?	1041	

Enter 0 if no financial assistance was received.

b. Please report your agreement or disagreement with the following statements.

I chose to expand the scope of my irrigation water management plan because:

	Agree	Neither Agree nor Disagree	Disagree
1042 Anticipated meeting additional on-farm conservation need	1	2	3
2495 The practice was working well for me elsewhere	1	2	3
1043 Anticipated benefits greater than cost.	1	2	3
Anticipated saving time or effort	1	2	3
1045 I received technical assistance.	1	2	3
1046 I received financial assistance.	1	2	3
Anticipated off-farm environmental benefits	1	2	3

8. Have you stopped following a written irrigation water management plan?

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2496
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1 🗌 Yes - Continue	з 🗌 No - Go to Section 13 - Conservation Stewardship Program, ра	ne 41
		<u> </u>

1048

- a. What year did you last follow an irrigation water management plan?
- b. Please report your agreement or disagreement with the following statements.

I chose to stop following an irrigation water management plan because:

	Agree	Neither Agree Nor Disagree	Disagree
1049 Did not meet my conservation need	1	2	3
1050 Costs were greater than benefits	1	2	3
1051 It took too much time or effort	1	2	3
1052 Technical assistance ended.	1	2	3
1053 Financial assistance ended	1	2	3
1054 Financial assistance did not cover enough of the cost	1	2	3

Section 13 - Conservation Stewardship Program

- 1. Are you or have you ever been enrolled in the Conservation Stewardship Program (CSP)?
 - 1 Yes Continue 3 No Go to Section 14 Demographics, page 42
 - a. Have you received financial assistance through the CSP for the enhancement of a practice? 1121
 - $_1$ Yes Continue $_3$ No Go to Section 14 Demographics, page 42
 - b. Please fill out the table for the number of acres where you received financial assistance through CSP for applying an enhancement on any of the following practices.

	Acres	Percent of Cost Covered by CSP Payment
Cover Crops	1122	1123 %
Nutrient Management	1124	1125 %
Pest Management Conservation System	1126	1127 %
No-Till	1128	1129 %
Reduced Tillage	1130	1131 %
Irrigation Water Management	1132	1133 %
Field Border	1134	1135 %
Filter Strip	1136	1137 %
Riparian Buffers	1138	1139 %

1.	Ple	ease answer the following for the operator:
	a.	What is the operator's sex?
		1 Male
		2 🗌 Female
	b.	
	C.	912 Is the operator of Hispanic, Latino or Spanish origin? 1 Ves 3 No
	d.	What is the operator's race? Check all that apply.
		913 Difference of the second s
		914 Black or African American
		915 Diagonal American Indian or Alaska Native
		916 Asian
		917 Description of Other Pacific Islander
	e.	
		⁹¹⁸ 1 Never served in the military
		² Only on active duty for training in the Reserves or National Guard
		3 Now on active duty
		4 🗌 On active duty in the past, but not now
2.	Ho	919 w many years have you been continuously managing a forest, farm or ranch operation?
3.		which occupation did the operator spend the majority (50 percent or more) of his/her time in 2021?
	920	⁰ 1 C Forestry, farm or ranch work
		² Work other than forestry, farming or ranching
4.	ls t	1212 the operator retired from forestry, farming or ranching?

5. What is the highest level of formal education the operator has achieved?

922

- 1 Less than high school diploma
- 2 High school
- ³ Some college (include associates degree)
- ⁴ Four-year college graduate and beyond
- 6. In 2021, what was this operation's legal status for tax purposes? Check one answer only.

923					
	1	Family or individual operation - EXCLUDE partnerships and corporations			
	2	Partnership operation - INCLUDE family partnerships - If option 2 is selected:			
			924		—
		Is this partnership registered under state law?		1 Yes	3 🗌 No
	3	Incorporated under state law - If option 3 is selected:			
		9	925		
		Is this a family held corporation?		1 🗌 Yes	3 🗌 No
		9	926		
		Are there more than 10 stockholders?		1 🗌 Yes	3 🗌 No
	4	Other - If option 4 is selected:			
		Ş	927		
		Estate or trust		1 🗌 Yes	з 🗌 No
		(928		
		Grazing association, government facility or American Indian reservation		1 🗌 Yes	3 🗌 No
		Other, specify ⁹²⁹	930		
		type:		1 🗌 Yes	3 🗌 No

Section 15 - Value of Sales

Farm Producer Value Codes

	0400				
Dollar Range	Code	Dollar Range	Code	Dollar Range	Code
0 - \$999	1	\$30,000 - \$39,999	8	\$180,000 - \$249,999	15
\$1,000 - \$2,499	2	\$40,000 - \$49,999	9	\$250,000 - \$499,999	16
\$2,500 - \$4,999	3	\$50,000 - \$59,999	10	\$500,000 - \$999,999	17
\$5,000 - \$9,999	4	\$60,000 - \$69,999	11	\$1,000,000 - \$4,999,999	18
\$10,000 - \$14,999	5	\$70,000 - \$79,999	12	\$5,000,000 and over	19
\$15,000 - \$19,999	6	\$80,000 - \$99,999	13		
\$20,000 - \$29,999	7	\$100,000 - \$179,999	14		

 1. Which value code represents this operation in terms of the gross value of sales and government agricultural payments?
 2020
 2021

INCLUDE

- Sales of all the crops, livestock, poultry, and livestock products (milk, eggs, etc.)
- The value of hay, silage, and other crops harvested, but not sold
- The value of all crops, livestock and poultry produced under contract
- Landlord's share of government payments and crops sold

EXCLUDE

• Dollars received on land rented to others

		2020	2021
		2499	2500
2.	Which value code represents the net operating income for this operation?		

(Cash income from all farm sourced minus production costs and depreciation; if negative, please indicate with a negative sign before the value code.)

		2020	2021	
		2501	2502	
3.	Which value code represents your total off-farm income?			

(wages, salaries, tips, interest, dividends, other public sources, etc., before taxes, income from operating another farm, income from operating any other business; if negative, please indicate with a negative sign before the value code.)

	2020	2021	
	2503	2504	
4. How many people lived in your household?			l

Section 15 - Value of Sales (continued)

5. Of the farm or ranch income reported, which of these categories represents the largest portion of the gross income from the operation?

Code

oout	·		
1 –	Grains, Oilseeds, Dry Beans, and Dry Peas	1 🗆	
2 –	Тоbассо	2 🗆	
3 –	Cotton and Cottonseed	3 🗆	
	Vegetables, Melons, Potatoes and Sweet Potatoes	4 🗆	
5 –	Fruit, Tree Nuts and Berries	5 🗌	
6 –	Nursery, Greenhouse, Floriculture and Sod	6 🗆	
7 –	Cut Christmas Trees and Short Rotation Woody Crops	7 🗌	Farm Type Code
8 –	Other Crops and Hay, CRP and Pasture (grass seed, hay and grass silage, hops, maple syrup, mint, peanuts, sugarcane, sugarbeets, CRP, etc.)	8 🗆	862
9 –	Hogs and Pigs	9 🗆	
	Milk and Other Dairy Products from Cows		
11 –	Cattle and Calves	11 🗆	
12 –	Sheep, Goats, and their Products (wool, mohair, milk and cheese)	12 🗌	
13 –	Horses, Ponies, and Mules (burros and donkeys)	13 🗌	
14 –	Poultry and Eggs (broilers, chickens, turkeys, ducks, eggs, emus, geese, hatchlings, ostriches, pigeons, pheasants, quail, poultry products, etc.)	14 🗌	
15 –	Aquaculture	15 🗌	
16 –	Other Animals and Other Animal Products (honey bees, honey, rabbits, fur-bearing animals, semen, manure, other animal specialties, etc.)	16 🗌	

Use this Space for Notes and Comments.

Use this Space for Notes and Comments.

Section 16 - Conclusion		
1. Has this operation (name on label) been sold, or turned ov	er to someone else?	
$_1$ \Box Yes - Identify the new operator(s) below $_3$ [No - Go to Item 2	
Operation Name:		
Operator Name:		
Address:		
City:	State:	Zip:
Phone: ()	Check if cell	phone
Phone: ()a. Did this person operate land individually on June 1, 202		·

2. Comments related to the information you reported:

Contact Information:

Operation Email:	Operation Phone:	ation Phone:						
9937		9936			heck if Il phone			
		()		_				
Respondent Name:	Respondent Phone (if differe	nt from above)						
9912	9911	check if cell 9910 phone	MM	DD	ΥY			
	()	Date:						

This completes the survey. Thank you for your help.

					OFFICE	USE ON	ILY						
Response Respondent		ent	Mode Enum. Eval. F		R. Unit	Change	Office Use for POID			D			
1-Comp 2-R 3-Inac 4-Office Hold 5-R – Est	9901	1-Op/Mgr 2-Spouse 3-Acct/Bkpr 4-Partner 9-Other	9902	1-PASI (Mail) 2-PATI (Tel) 3-PAPI (Face-to- Face) 6-Email 7-Fax	9903	9998	9900	9921	9985	9989	 Opti	 onal Use	
6-Inac – Est 7-Off Hold – Est 				19-Other						9907	9908	9906	9916