

CONSERVATION PRACTICE ADOPTION MOTIVATIONS SURVEY - VERSION 1

CROP PRACTICES

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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 3 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:

- a. Own?.....
- 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
- c. Rent to others?

Acres	
+	901
+	132
-	905
=	900

2. Calculate Item 1a + 1b - 1c. Then the total acres operated in 2021 was:

3. Of the total acres operated, how many acres are considered:

- a. Cropland, including land in hay, summer fallow, tree farms, orchards, vineyards, nurseries, and cropland idle?
- i. How many acres were under an easement against development for non-agricultural uses in 2021?
- 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?
- i. How many acres were under an easement against conversion to crop production or non-agricultural use in 2021?
- c. Woodland, not pastured?
- d. Other land?

Acres	
101	
2400	
102	
2401	
103	
104	
107	

4. Of the total acres operated, how many acres were under a permanent or long-term easement or enrolled in a land retirement program in 2021?

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
a. Beef cows	108
b. Milk cows, including any dry cows	109
c. Other cattle and calves	110
INCLUDE fed cattle, beef and dairy cull animals, stockers and feeders, veal calves, etc.	
d. All hogs and pigs	111
e. All Poultry	112
INCLUDE layers and pullets, including table and hatching, turkeys, broilers, other chickens, ducks, etc.	
f. All other livestock	2402
INCLUDE goats, sheep, etc.	

6. During 2021, did this operation produce organic products according to USDA's National Organic Program (NOP) standards or have acres transitioning into USDA NOP Production?
EXCLUDE processing and handling

106

1 Yes

3 No

7. 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
I seek out information about conservation practices and their implementation. 2404	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I generally adopt new conservation practices before other farmers in my local area. 2405	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I experiment with new conservation practices on my farm. 2406	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I do not implement new conservation practices unless I know that they will increase my profits or reduce my workload. 2407	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I am willing to adopt conservation practices that improve environmental quality, even if they do not increase my profit or reduce my workload. 2408	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
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. 2409	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I am willing to adopt conservation practices that preserve land for the next generation, even if they do not increase my profit or reduce my workload. 2410	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

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

 Supporting wildlife habitat

2419

 Managing dust, odors, or other air quality issues

2420

 Other, please specify: 2421

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

State or local agencies (typically free)

153

Private sources (free or paid)

- 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 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>
I am comfortable using free technical assistance from federal government employees. 167		2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>
I am comfortable using free technical assistance from non-federal government sources. 168		2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>
I have never sought any form of technical assistance. 163		2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>
I tried to get free technical assistance from the federal government but could not. 2422	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>
I tried to get free technical assistance from a non-federal government source but could not. 2423	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>
I received technical assistance and it was beneficial. 165	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>
I received technical assistance but it took too long. 2424	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>
I received technical assistance but it did not meet my needs. 2425	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>

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

	Land Owned	Land Leased
Cover Crops	2426 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	2427 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> 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. 202	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I have a conservation need, but more information about cover crops would help me decide whether to use them. 2428	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Other farmers I know have been unsuccessful. 203	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated cost greater than the benefits. 204	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
It would take too much time or effort. 205	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I tried to get but did not receive technical assistance. 206	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I applied for but did not receive financial assistance. 207	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Financial assistance would not cover enough of the cost. 208	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I cannot fit cover crops into my rotation. 209	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

- 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.

Section 4 - Cover Crops (continued)

2. Did you use cover crops in 2021? ²¹¹ 1 Yes - Continue 3 No - Go to Item 3

a. What percentage of your cropland had cover crops in 2021? (0-100%) 212 %

i. What type of cover crop was used in 2021? Select all that apply.

- 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 2021 cover crop?
INCLUDE every crop planted before or after a cover crop

²¹⁷
Before _____

²¹⁸
After _____

iii. Which of the following were used to terminate the 2021 cover crop? Check all that apply.

- ²¹⁹ Herbicide
- ²²⁰ Tillage
- ²²¹ Roller/Crimper or other rolling method
- ²²² Winter kill

iv. Did you use any cover crops for grazing, forage or other on farm use in 2021? ²²³ 1 Yes 3 No

v. Did you harvest any cover crops for grain in 2021? ²²⁴ 1 Yes 3 No

3. What year did you first use cover crops? year 261

a. For the first year of cover crops, on what proportion of cropland were cover crops used? (0-100%) 225 %

i. In the first year you planted cover crops, were they used to address a highly erodible land conservation need?

Cropland identified as highly erodible is subject to highly erodible land conservation (HELIC) or "conservation compliance" requirements. Producers who receive farm program payments are required to have (and apply) a written soil conservation plan, prepared in accordance with Federal standards.

²²⁶ 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
Cover crops	227 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	228 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	229	230 %

i. What portion of financial assistance to begin this practice was from federal sources?
Enter 0 if no financial assistance was received. 231 %

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

I chose to use cover crops on my operation because:

	Agree	Neither Agree nor Disagree	Disagree
Anticipated meeting an on-farm conservation need. 232	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Other farmers I know have been successful using cover crops. 233	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Cover crops were recommended to me by a trusted advisor. 2429	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I was confident I could use cover crops successfully. 2430	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated benefits greater than cost. 234	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated saving time or effort. 235	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received technical assistance. 236	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received financial assistance. 237	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated off-farm environmental benefits. 238	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

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

Other reason, specify: ²⁶⁰ _____

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
Expanded use of cover crops	2431 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	2432 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> 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
Cover crops	240 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	241 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	242	243 %

i. What portion of financial assistance to expand this practice was from federal sources? Enter 0 if no financial assistance was received. 244 %

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. 245	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
The practice was working well for me elsewhere. 2433	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated benefits greater than cost. 246	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated saving time or effort. 247	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received technical assistance. 248	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received financial assistance. 249	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated off-farm environmental benefits. 250	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

5. Have you stopped using cover crops?

2434 1 Yes - Continue 3 No - Go to Section 5 - Nutrient Management, page 10

a. What year did you last use cover crops? year 251

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. 252	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Costs were greater than benefits. 253	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Too much time or effort. 254	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Technical assistance ended. 255	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Financial assistance ended. 256	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Financial assistance did not cover enough of the cost. 257	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

Section 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 comprehensive soil health management system?..... ³¹⁷ 1 Yes 3 No
- 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? 319 %

4. What year did you start following a written nutrient management plan? year 320

a. In the first year of implementation, what percentage of your cropland did your nutrient management plan cover? (0-100%) 321 %

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
Nutrient Management Plan ...	³²² 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	³²³ 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	³²⁴	³²⁵ %

i. What portion of financial assistance to begin this practice was from federal sources? Enter 0 if no financial assistance was received. 326 %

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 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Other farmers I know have been successful. ³²⁸	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
It was recommended to me by a trusted advisor. ²⁴³⁶	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I was confident I could follow the plan successfully. ²⁴³⁷	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated benefits greater than cost. ³²⁹	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated saving time or effort. ³³⁰	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received technical assistance. ³³¹	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received financial assistance. ³³²	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated off-farm environmental benefits. ³³³	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

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

Other reason, specify: ³⁵⁴ _____

Section 5 - Nutrient Management (continued)

5. Since the first year of following a written nutrient management plan, ³³⁴ have you expanded the percent of cropland covered by a written plan? ¹ Yes - Continue 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
Nutrient Management Plan....	³³⁵ ¹ <input type="checkbox"/> Yes ³ <input type="checkbox"/> No	³³⁶ ¹ <input type="checkbox"/> Yes ³ <input type="checkbox"/> No	³³⁷	³³⁸ %

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 <input type="checkbox"/>	² <input type="checkbox"/>	³ <input type="checkbox"/>
²⁴³⁸ The practice was working well for me elsewhere.	¹ <input type="checkbox"/>	² <input type="checkbox"/>	³ <input type="checkbox"/>
³⁴¹ Anticipated benefits greater than cost.	¹ <input type="checkbox"/>	² <input type="checkbox"/>	³ <input type="checkbox"/>
³⁴² Anticipated saving time or effort.	¹ <input type="checkbox"/>	² <input type="checkbox"/>	³ <input type="checkbox"/>
³⁴³ I received technical assistance.	¹ <input type="checkbox"/>	² <input type="checkbox"/>	³ <input type="checkbox"/>
³⁴⁴ I received financial assistance.	¹ <input type="checkbox"/>	² <input type="checkbox"/>	³ <input type="checkbox"/>
³⁴⁵ Anticipated off-farm environmental benefits.	¹ <input type="checkbox"/>	² <input type="checkbox"/>	³ <input type="checkbox"/>

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

a. What year did you last follow a written nutrient management plan? year

346

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
347	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Did not meet my conservation need.			
348	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Costs were greater than benefits.			
349	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
It took too much time or effort.			
350	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Technical assistance ended.			
351	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Financial assistance ended.			
352	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Financial assistance did not cover enough of the cost.			

Section 6 - Pest Management

1. 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

2. 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. 408	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I have a conservation need, but more information about pest management plans would help me decide whether to use them. 2440	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Other farmers I know have been unsuccessful. 409	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated costs greater than benefits. 410	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
It would take too much time or effort. 411	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I tried to get but did not receive technical assistance. 412	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I applied for but did receive financial assistance. 413	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Financial assistance would not cover enough of the cost. 414	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

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. Did you follow a written pest management plan in 2021? ⁴¹⁶ 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? year 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
Pest Management Plan	⁴²⁰ 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	⁴²¹ 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	⁴²²	⁴²³ %

i. What portion of financial assistance to begin this practice was from federal sources? Enter 0 if no financial assistance was received. 424 %

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. ⁴²⁶	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Other farmers I know have been successful. ⁴²⁷	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
It was recommended to me by a trusted advisor. ²⁴⁴¹	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I was confident I could follow the plan successfully. ²⁴⁴²	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated benefits greater than cost. ⁴²⁸	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated saving time or effort. ⁴²⁹	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received technical assistance. ⁴³⁰	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received financial assistance. ⁴³¹	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated off-farm environmental benefits. ⁴³²	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

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

Other reason, specify: ⁴²⁵ _____

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?	Did you receive financial assistance?	How many acres had financial assistance?	Portion of total cost covered by financial assistance
Pest Management Plan	434 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	435 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	436	437 %

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

438	%
-----	---

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
2443 Anticipated meeting an on-farm conservation need.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
2444 The practice was working well for me elsewhere.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
440 Anticipated benefits greater than cost.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
441 Anticipated saving time or effort.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
442 I received technical assistance.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
443 I received financial assistance.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
2445 Anticipated off-farm environmental benefits.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

Section 6 - Pest Management (continued)

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

452

1 Yes - Continue

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

a. What year did you last follow a written pest management plan? year

445

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 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
447			
Costs were greater than benefits.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
448			
It took too much time or effort.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
449			
Technical assistance ended.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
450			
Financial assistance ended.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
451			
Financial assistance did not cover enough of the cost.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

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

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

a.

	Land Owned	Land Leased
No-Till or Strip-Till	2447 <input type="checkbox"/> Yes <input type="checkbox"/> No	2448 <input type="checkbox"/> Yes <input type="checkbox"/> No
Reduced tillage	2450 <input type="checkbox"/> Yes <input type="checkbox"/> No	2451 <input type="checkbox"/> Yes <input type="checkbox"/> 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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I have a conservation need, but more information about tillage practices would help me decide whether to use them. 2452	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other farmers I know have been unsuccessful. 502	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Anticipated cost greater than benefits. 503	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It would take too much time or effort. 504	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I tried to get but did not receive technical assistance. 505	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I applied for but did not receive financial assistance. 506	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Financial assistance would not cover enough of the cost. 2453	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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)

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	%

3. What 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 of cropland were no-till, strip-till or reduced tillage used? (0-100%)

515	%
-----	---

i. Were no-till, strip-till, or reduced tillage needed to meet a conservation compliance need? 516

1 Yes 3 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
No-Till or Strip-Till	517 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	518 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	519	520 %
Reduced tillage	521 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	522 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	523	524 %

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

525	%
-----	---

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 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Other farmers I know have been successful. 527	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
It was recommended to me by a trusted advisor. 2454	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I was confident I could use the practice successfully. 2455	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated benefits greater than cost. 528	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated saving time or effort. 529	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received technical assistance. 530	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received financial assistance. 531	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated off-farm environmental benefits. 532	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

- 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	Land Leased
No-Till or Strip-Till	2456 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	2457 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
Reduced tillage	2458 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	2459 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> 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
No-Till or Strip-Till	534 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	535 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	536	537 %
Reduced tillage	538 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	539 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	540	541 %

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

Enter 0 if no financial assistance was received.

542	%
-----	---

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
Anticipated meeting additional on-farm conservation needs. 543	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
The practice was working well for me elsewhere. 2460	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated benefits greater than cost. 544	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated saving time or effort. 545	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received technical assistance. 546	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received financial assistance. 547	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated off-farm environmental benefits. 548	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

Section 7 - Tillage Practices (continued)

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

2505

Yes - Continue

No - Go to Section 8 - Drainage Water Management, page 23

a. What year did you last use any no-till, strip-till, or reduced tillage technique? year

549

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

Yes - Go to Section 8 - Drainage Water Management, page 23

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 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
551			
Costs were greater than benefits.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
552			
It took too much time or effort.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
553			
Technical assistance ended.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
554			
Financial assistance ended.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
555			
Financial assistance did not cover enough of the cost.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

Section 8 - Drainage Water Management

1. Do 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?

658	%
-----	---

b. In what year was the current drainage system installed or last upgraded? year

2461

c. Have you ever received financial assistance from the federal government, state government, or drainage district to improve your drainage system? 2462
1 Yes 3 No

d. Is your drainage system regulated by your state or local government? 2463
1 Yes 3 No

e. Does this drainage system have surface inlets? 2464
1 Yes 3 No

f. Where does this system empty?

2465

- 1 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.

601	%
-----	---
- ii. Percentage of cropland acres that used automated or remotely operated water control structures.

2466	%
------	---
- iii. Percentage of cropland acres that did not use any water control structure (s).

2467	%
------	---

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 zone during the growing season? 602
1 Yes 3 No

i. Do you store your drainage water (such as in a pond) for use in irrigation or livestock watering? 603
1 Yes 3 No

Section 8 - Drainage Water Management (continued)

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 Yes - Go to Item 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 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I have a conservation need, but more information about drainage water management plans would help me decide whether to use them. 2468	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Other farmers I know have been unsuccessful. 613	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated cost greater than benefit. 614	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
It would take too much time or effort. 615	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I tried to get but did not receive technical assistance. 616	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I applied for but did not receive financial assistance. 617	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Financial assistance would not cover enough of the cost. 618	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

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.

Section 8 - Drainage Water Management (continued)

3. Did you follow a written drainage water management plan in 2021? 621 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?	How many acres had financial assistance?	Portion of total cost covered by financial assistance
Drainage Water Management Plan	624 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	625 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> 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. 657 %

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 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Other farmers I know have been successful. 629	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
It was recommended to me by a trusted advisor. 2469	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I was confident I could follow the plan successfully. 2470	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated benefits greater than cost. 630	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated saving time or effort. 631	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received technical assistance. 632	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received financial assistance. 633	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated off-farm environmental benefits. 634	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

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

Other reason, specify: ⁶⁵⁵ _____

5. On what percentage of your drained cropland did you follow drainage water management in 2021? 635 %

Section 8 - Drainage Water Management (continued)

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 Management Plan	637 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	638 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	639	640 %

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

Enter 0 if no financial assistance was received.

641	%
-----	---

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
Anticipated meeting additional on-farm conservation need. 642	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
The practice was working well for me elsewhere. 2471	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated benefits greater than cost. 643	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated saving time or effort. 644	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received technical assistance. 645	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received financial assistance. 646	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated off-farm environmental benefits. 647	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

Section 8 - Drainage Water Management (continued)

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

a. What year did you last follow a written drainage water management plan? year

648

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 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
650			
Costs were greater than benefits.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
651			
It took too much time or effort.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
652			
Technical assistance ended.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
653			
Financial assistance ended.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
654			
Financial assistance did not cover enough of the cost.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

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?

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

	Land Owned	Land Leased
Terraces	700 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	701 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
Grassed Waterway	702 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	703 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
Grade Stabilization	704 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	705 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
Water and Sediment Basin	706 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	707 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
Contour Farming	708 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	709 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> 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 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. 710	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I have a conservation need, but more information about runoff management plans would help me decide whether to use them. 2473	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Other farmers I know have been unsuccessful. 2474	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated cost greater than benefit. 711	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
It would take too much time or effort. 2475	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
It would interfere with field operations. 712	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I tried to get but did not receive technical assistance. 713	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I applied for but did not receive financial assistance. 714	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Financial assistance would not cover enough of the cost. 715	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

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

Other reason, specify: ⁷¹⁶ _____

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

Section 9 - Runoff Management Practices (continued)

2. Were any runoff management practices or improvements still in use on leased land in 2021? 717
 1 Yes - Continue 3 No - Go to Item 3
- a. Do any of your lease agreements require maintenance of the runoff management structure? 718
 1 Yes 3 No
3. Did you use terraces, grassed waterway, grade stabilization, water and sediment basin or contour farming structures on land you owned in 2021? 2476
 1 Yes - Continue 3 No - Go to Section 10 - Edge of Field Structures, page 30

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
Terraces	719 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	720 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	721 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	722	723 %
Grassed Waterway	724 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	725 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	726 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	727	728 %
Grade Stabilization	729 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	730 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	731 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	732	733 %
Water and Sediment Basin ...	734 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	735 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	736 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	737	738 %
Contour Farming	739 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	740 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	741 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	742	743 %

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. 744
 %

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 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Other farmers I know have been successful. 746	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
It was recommended to me by a trusted advisor. 2477	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I was confident I could implement the practice successfully. 2478	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated benefits greater than cost. 747	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated saving time or effort. 2479	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received technical assistance. 748	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received financial assistance. 749	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated off-farm environmental benefits. 2480	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

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

Other reason, specify: 751 _____

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
Field Border	800 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	801 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
Filter Strip	802 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	803 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
Riparian Buffer (trees, grasses, or other vegetation intentionally planted along a waterway)	804 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	805 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> 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:

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

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

Other reason, specify: ⁸¹³ _____

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 Yes 3 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
Field Border	815 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	816 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	817 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	818	819 %
Filter Strip	820 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	821 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	822 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	823	824 %
Riparian Buffer ...	825 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	826 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	827 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	828	829 %

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. 830 %

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:

	Agree	Neither Agree nor Disagree	Disagree
Anticipated meeting an on-farm conservation need. 831	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Other farmers I know have been successful. 832	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
It was recommended to me by a trusted advisor. 2484	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I was confident I could implement the practice successfully. 2485	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated benefits greater than cost. 833	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated saving time or effort. 834	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received technical assistance. 835	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received financial assistance. 836	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated off-farm environmental benefits. 2486	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

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.

	Land Owned	Land Leased
Restored or enhanced existing wetlands	962 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	963 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
Created new wetlands	964 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	965 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> 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.

a. 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. 966	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I have a conservation need, but more information about wetland practices would help me decide whether to use them. 2487	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated costs greater than benefits. 968	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
It would take land out of production. 967	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
It would interfere with field operations. 970	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
It would take too much time or effort. 969	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I tried to get but did not receive technical assistance. 971	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I applied for but did not receive financial assistance. 972	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Financial assistance would not cover enough of the cost. 973	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

Section 11 - Wetland Conservation Practices (continued)

b. Please specify any additional reason why you never used wetland conservation practices.

Other reason, specify: ⁹⁷⁴ _____

After completing Items 2a and 2b, Go to Section 12 - Irrigation Management and System Improvements, page 35.

3. Were any wetland conservation practices still in use on leased land ⁹⁷⁵
in 2021?..... 1 Yes - Continue 3 No - Go to Item 4

a. Do any of your lease agreements require maintenance of the ⁹⁷⁶
wetland conservation practices? 1 Yes 3 No

4. Did you restore or enhance existing wetlands or create new wetlands on land you owned in 2021?
²⁴⁸⁸ 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 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	⁹⁷⁸ 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	⁹⁷⁹ 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	⁹⁸⁰ 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	⁹³¹	⁹³² %
Created new wetlands	⁹³³ 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	⁹³⁴ 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	⁹³⁵ 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	⁹³⁶ 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	⁹³⁷	⁹³⁸ %

b. What portion of financial assistance to install, rebuild, or upgrade wetland practices was from federal sources? Enter 0 if no financial assistance was received. ⁹³⁹ %

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 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
It was recommended to me by a trusted advisor. ²⁴⁸⁹	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I was confident I could implement the practice successfully. ²⁴⁹⁰	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated benefits greater than cost. ⁹⁴²	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated saving time or effort. ⁹⁴³	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received technical assistance. ⁹⁴⁴	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received financial assistance. ⁹⁴⁵	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated off-farm environmental benefits. ²⁴⁹¹	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

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

Other reason, specify: ⁹⁵⁶ _____

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 - Continue3 No - Go to Item 6

a. For these wetland practices, did you choose to:

948

1 Maintain the wetland structures or practices - Go to Item 62 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. 952	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
It interfered with field operations. 951	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
It took too much time or effort. 950	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

6. What year was the first installation or upgrade of a wetland conservation practice? year

954

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 - Irrigation Management and System Improvements

1. Have you used any irrigation equipment to irrigate any portion of your land at any time?

1001 Yes - Continue 3 No - Go to Section 13 - Conservation Stewardship Program, page 41

a. What proportion of your total cropland was irrigated during 2021? 1002 %

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)
- 1151 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.

	Land Owned	Land Leased	Installed New by this operation in the last 15 years	Upgraded by this operation in the last 15 years
Micro or Drip	1055 <input type="checkbox"/> Yes <input type="checkbox"/> No	1056 <input type="checkbox"/> Yes <input type="checkbox"/> No	1057 <input type="checkbox"/> Yes <input type="checkbox"/> No	1058 <input type="checkbox"/> Yes <input type="checkbox"/> No
Sprinkler	1059 <input type="checkbox"/> Yes <input type="checkbox"/> No	1060 <input type="checkbox"/> Yes <input type="checkbox"/> No	1061 <input type="checkbox"/> Yes <input type="checkbox"/> No	1062 <input type="checkbox"/> Yes <input type="checkbox"/> No
Gravity or Flood	1063 <input type="checkbox"/> Yes <input type="checkbox"/> No	1064 <input type="checkbox"/> Yes <input type="checkbox"/> No	1065 <input type="checkbox"/> Yes <input type="checkbox"/> No	1066 <input type="checkbox"/> Yes <input type="checkbox"/> No
Sub Irrigation	1067 <input type="checkbox"/> Yes <input type="checkbox"/> No	1068 <input type="checkbox"/> Yes <input type="checkbox"/> No	1069 <input type="checkbox"/> Yes <input type="checkbox"/> No	1070 <input type="checkbox"/> Yes <input type="checkbox"/> 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
Micro or Drip	1071 <input type="checkbox"/> Yes <input type="checkbox"/> No	1072 <input type="checkbox"/> Yes <input type="checkbox"/> No	1073	1074 %
Sprinkler	1075 <input type="checkbox"/> Yes <input type="checkbox"/> No	1076 <input type="checkbox"/> Yes <input type="checkbox"/> No	1077	1078 %
Gravity or Flood	1079 <input type="checkbox"/> Yes <input type="checkbox"/> No	1080 <input type="checkbox"/> Yes <input type="checkbox"/> No	1081	1082 %
Sub Irrigation	1083 <input type="checkbox"/> Yes <input type="checkbox"/> No	1084 <input type="checkbox"/> Yes <input type="checkbox"/> No	1085	1154 %

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

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 (Including changing the application technology in an existing irrigated field)	System Upgrade (Improvement of the same application technology)	Independent of New Installation or Upgrade (Maintenance, repair or improvement with current application technology)
Irrigation pipeline	1155 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1156 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1157 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
Water conveyance structure	1191 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1158 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1093 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
Pumping plant	1159 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1096 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1097 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
Water control structure	1098 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1099 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1100 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> 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
Irrigation pipeline	1101 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1102 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1103	1104 %
Water conveyance structure	1105 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1106 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1107	1108 %
Pumping plant	1109 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1110 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1111	1112 %
Water control structure	1113 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1114 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1115	1116 %

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

1117	%
------	---

Section 12 - Irrigation Management and System Improvements (continued)

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 Yes - Go to Item 5 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. 1009	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I have a conservation need, but more information about irrigation water management plans would help me decide whether to use them. 2492	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
It would not impact my decisions about when to irrigate. 1152	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated cost greater than benefits. 1011	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
It would take too much time or effort. 1012	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I tried to get but did not receive technical assistance. 1153	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I applied for but did not receive financial assistance. 1014	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Financial assistance would not cover enough of the cost. 1015	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

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

Other reason, specify: ¹⁰¹⁶ _____

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 Yes - Continue No - Go to Item 6, page 38

- a. On what percentage of your irrigated cropland did you follow an irrigation water management plan in 2021? (0-100%) 1018 %

Section 12 - Irrigation Management and System Improvements (continued)

6. What year did you first follow an irrigation water management plan? year

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?	Did you receive financial assistance?	How many acres had financial assistance?	Portion of total cost covered by financial assistance
Irrigation Management Plan	1021 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1022 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1023	1024 %

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

1025	%
------	---

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.	1026	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Other farmers I know have been successful.	1027	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
It was recommended to me by a trusted advisor.	2493	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I was confident I could follow the plan successfully.	2494	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated benefits greater than cost.	1028	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated saving time or effort.	1029	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received technical assistance.	1030	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received financial assistance.	1031	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated off-farm environmental benefits.	1032	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Required by water supplier or water control district.	1033	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
To reduce water application amounts due to drought.	1034	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
To reduce water application due to a loss of access to a water supply.	1035	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

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

Other reason, specify: ¹¹⁴⁰ _____

Section 12 - Irrigation Management and System Improvements (continued)

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 total cost covered by financial assistance
Irrigation Management Plan	1037 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1038 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1039	1040 %

i. What portion of financial assistance to expand this practice was from federal sources? Enter 0 if no financial assistance was received. 1041 %

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
Anticipated meeting additional on-farm conservation need. 1042	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
The practice was working well for me elsewhere. 2495	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated benefits greater than cost. 1043	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated saving time or effort. 1044	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received technical assistance. 1045	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
I received financial assistance. 1046	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Anticipated off-farm environmental benefits. 1047	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

Section 12 - Irrigation Management and System Improvements (continued)

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

2496

1 Yes - Continue

3 No - Go to Section 13 - Conservation Stewardship Program, page 41

a. What year did you last follow an irrigation water management plan? year

1048

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
Did not meet my conservation need. 1049	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Costs were greater than benefits. 1050	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
It took too much time or effort. 1051	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Technical assistance ended. 1052	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Financial assistance ended. 1053	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
Financial assistance did not cover enough of the cost. 1054	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

Section 13 - Conservation Stewardship Program

1. Are you or have you ever been enrolled in the Conservation Stewardship Program (CSP)?

1120

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 %

Section 14 - Demographics

1. Please answer the following for the operator:

a. What is the operator's sex?

910

1 Male

2 Female

b. What was the operator's age on January, 1, 2022?

911

912

c. Is the operator of Hispanic, Latino or Spanish origin? 1 Yes 3 No

d. What is the operator's race? Check all that apply.

913

White

914

Black or African American

915

American Indian or Alaska Native

916

Asian

917

Native Hawaiian or Other Pacific Islander

e. Has the operator ever served on active duty in the U.S. Armed Forces, Reserves or National Guard?

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. How many years have you been continuously managing a forest, farm or ranch operation? years

919

3. At which occupation did the operator spend the majority (50 percent or more) of his/her time in 2021?

920

1 Forestry, farm or ranch work

2 Work other than forestry, farming or ranching

4. Is the operator retired from forestry, farming or ranching?

1212

1 Yes

3 No

Section 14 - Demographics (continued)

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

Section 15 - Value of Sales

Farm Producer Value Codes

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
2497	2498

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

2. Which value code represents the net operating income for this operation?

2020	2021
2499	2500

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

3. Which value code represents your total off-farm income?

2020	2021
2501	2502

(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.)

4. How many people lived in your household?

2020	2021
2503	2504

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

- 1 – Grains, Oilseeds, Dry Beans, and Dry Peas 1
 (corn, flaxseed, grain silage and forage, grains and oilseeds, popcorn, rice, small grains, sorghum, soybeans, sunflowers, straw, etc.)
- 2 – Tobacco 2
- 3 – Cotton and Cottonseed 3
- 4 – Vegetables, Melons, Potatoes and Sweet Potatoes 4
 (beets, cabbage, cantaloupes, pumpkins, sweet corn, tomatoes, watermelons, vegetable seeds, etc.)
- 5 – Fruit, Tree Nuts and Berries 5
 (almonds, apples, blueberries, cherries, grapes, hazelnuts, kiwifruit, oranges, pears, pecans, strawberries, walnuts, etc.)
- 6 – Nursery, Greenhouse, Floriculture and Sod 6
 (bedding plants, bulbs, cut flowers, flower seeds, foliage plants, mushrooms, nursery potted plants, shrubbery, sod, etc.)
- 7 – Cut Christmas Trees and Short Rotation Woody Crops 7
- 8 – Other Crops and Hay, CRP and Pasture 8
 (grass seed, hay and grass silage, hops, maple syrup, mint, peanuts, sugarcane, sugarbeets, CRP, etc.)
- 9 – Hogs and Pigs 9
- 10 – Milk and Other Dairy Products from Cows 10
- 11 – Cattle and Calves 11
 (beef and dairy cattle for breeding stock, fed cattle, beef and dairy cull animals, stockers and feeders, veal calves, etc.)
- 12 – Sheep, Goats, and their Products 12
 (wool, mohair, milk and cheese)
- 13 – Horses, Ponies, and Mules 13
 (burros and donkeys)
- 14 – Poultry and Eggs 14
 (broilers, chickens, turkeys, ducks, eggs, emus, geese, hatchlings, ostriches, pigeons, pheasants, quail, poultry products, etc.)
- 15 – Aquaculture 15
 (catfish, trout, ornamental and other fish, mollusks, crustaceans, etc.)
- 16 – Other Animals and Other Animal Products 16
 (honey bees, honey, rabbits, fur-bearing animals, semen, manure, other animal specialties, etc.)

Farm Type
Code

862

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 over to someone else?

1 Yes - Identify the new operator(s) below 3 No - Go to Item 2

Operation Name: _____		
Operator Name: _____		
Address: _____		
City: _____	State: _____	Zip: _____
Phone: (____) _____		<input type="checkbox"/> Check if cell phone

a. Did this person operate land individually on June 1, 2021? 1 Yes No

1511

2. Comments related to the information you reported:

Contact Information:

Operation Email: 9937	Operation Phone: 9936 () - _____	check if cell phone <input type="checkbox"/>
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Respondent Name: 9912	Respondent Phone (if different from above) 9911 () - _____	check if cell phone <input type="checkbox"/>	9910 MM DD YY	Date: _ _ _ _ _ _
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This completes the survey. Thank you for your help.

OFFICE USE ONLY

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