Pennsylvania Farm Conservation Practices Inventory

Instructions

Thank you for agreeing to participate in this inventory of conservation practices on Pennsylvania farms. Please have the individual with the best knowledge of the conservation practices used in your operation complete the inventory. If you are a farm landowner who does not farm, you should give this survey to the farm operator. Farm operators may fill out one survey for all of their acreage within their home county. If you operate acreage in more than one county, please fill out a separate survey for each county. A consultant may also work with a client farmer to fill this out.

You may recall receiving a survey like this in the winter of 2016. If you filled out that survey, we thank you and ask you to fill out this year's survey in order to provide an update on your conservation practices. This provides you with the opportunity to report whether practices previously reported are still in place, report annual practices for 2021, and report any new practices that you have installed since you filled out the last survey. When you complete this year's survey, please report all practices on your farm, even if you reported them in 2016.

The inventory will be used to determine the amount of conservation practice adoption on Pennsylvania farms. Cumulative results from this survey will be provided to Pennsylvania's Chesapeake Bay Office to document the practices that Pennsylvania farmers are using to conserve soil and water, and protect water quality. Ten percent of the participants in this inventory will be randomly selected for farm visits by Penn State Extension to assess inventory results and to come to a mutual understanding of each practice.

Please be assured that your responses will be kept completely confidential, and your responses will never be associated with your name or locational information. The results reported from this survey to the Chesapeake Bay Office will be provided in summary form and will not include any names or locations of inventory participants.

Please answer each question to the best of your knowledge. Where the question asks you to fill in a circle, please fill the circle in completely. Where the question asks you to write an answer, please print legibly.

The first page of this inventory asks basic questions about your farming operations. The rest of the inventory asks whether you are using certain conservation practices in your farming operations, and then asks some additional questions about each practice. Some of the practices listed may not be applicable to your operation. If you do not use a practice, answer "No" and continue to the next question.

Please mail your completed inventory to the Penn State Agriculture and Environment Center by April 1, 2022, using the prepaid first-class envelope provided as part of the survey packet.

If you do not have a prepaid first-class envelope, please mail the survey to: Penn State Agriculture and Environment Center, 111 Ferguson Building, University Park PA 16802.

As a "thank you" for completing the survey, we will mail you a complementary Penn State soil test kit.

First, We Would Like to Learn About Your Farming Operations

ame:			Farm Name (if	Farm Name (if applicable):		
ome Farm Ad	ldress:					
			Но	me County:		
one Number:	:		Email:			
 2. How many acres within your home county is your farming operation? For purposes of answering this and filling out the remainder of the survey, your farming operation includes all land within your home co you manage for agricultural activities that are part of your operation, including owned ground and rented Number of acres 3. What crops did you grow in 2021? 						
Crop		Acres Planted	If any of your a	acres were part of a	a double	
Corn Grain			crop, indicate t	otal double crop a	cres here.	
Corn Silage						
Soybeans						
Wheat						
Rye						
Barley						
Alfalfa						
Grass Hay						
Other:						
•	Please procee	part of your farming ope ed to question 5. alendar year 2021, pleas		ual head of each ar	nimal type you ha	
mal (#)	Animal (#	Animal (#)	Animal (#)	Animal (#)	Animal (#)	
lers	_ Ducks	Sows	Dairy Heifers (younger than 12 m	Beef Cattle	Other:	

Animal (#)	Animal (#)	Animal (#)	Animal (#)	Animal (#)	Animal (#)
Broilers	Ducks	Sows	Dairy Heifers (younger than 12 mo)	Beef Cattle	Other:
Layers	Nursery Pigs	_ Boars	Dairy Heifers(12 mo & older)	Horses	Other:
Turkeys	Finisher Pigs	Veal Calves	Cows(milking and dry)	Other:	Other:

In the Remaining Questions, We Will Ask About Your Conservation Practices

Nutrient Management

5. Do you apply nutrients to your land?				
\circ No \rightarrow Please proceed to Question 7.				
\bigcirc Yes \rightarrow 5a. Please indicate what type of	nutrients you a	apply to you	ır land (check all that appl	y):
O Manure		•	rocessing residual (FPR)	
 Commercial (inorganic/synt 	hetic) fertilizer		oom compost/substrate	
O Biosolids (sewage sludge)		Other (describe:)	
6. If you applied manure in 2021, did you in	iect or incorne	rote the mo	nura?	
 ○ No → Please proceed to Question 7. 	ject of incorpo	i ate the ma	nuic.	
•	.			1:41 1.
○ Yes → 6a. Please indicate the total acre timing of manura incomparation, and who		_	-	i with each
timing of manure incorporation, and whe			ncorporation	When did you
Manure Injection/Incorporation Method	Within 24 ho application		Within 1-3 days after application	first implemen this practice?
Low-disturbance incorporation (using, for example, vertical tillage or rolling tine aerators)		_ Acres	Acres	Year
High-disturbance incorporation (using any other tillage system, which may include chisel plow, moldboard plow, aggressive disking, etc.)		_ Acres	Acres	Year
Immediate injection (using, for example, shallow of	l disk or narrow s	hank injecto	ors)Acres	Year
 7. Do you have a nutrient management or m ○ No → Please proceed to Question 14 (I ○ Yes → Please answer questions 7a thro 	PAGE 6).	ment plan fo	or your farming operations	s?
7a. What type of plan do you have?	7d.	Were any co	ounty, state or federal gove	ernment
O Act 38 Nutrient Management Plan	func	ls used deve	elop your plan?	
O Manure Management Plan	\circ N	0		
O NRCS 590 Plan or	0 Y	es		
Comprehensive Nutrient Management Plan (O Nutrient Balance Sheets for imported manure	_ 7e. J	• •	a nitrogen-based plan, or nosphorus-based plan?	both a
O Nutrient Balance Sheets with no manure		O A nitrogen-based plan		
Other:	O A	nitrogen an	d phosphorus-based plan	
7b. What year was your plan written or last updated?			w your plan annually when to your land?	ı you
	0 N			
	0 Y	es		
7c. Number of cropland acres covered in you		-		-
Acres			onutrient application recor ordance with your plan?	rds
Acto		•	ordance with your plant	
	0 Y			
	- 1			

Application of Nitrogen to Cropland

8. In calendar year 2021, did you use any of the following practices that affect the *rate* of your nitrogen applications? If yes, indicate number of acres and the year you first implemented the practice.

Practice Description	Did you use practice?	Acres in 2021	Year first implemented
A. Total nitrogen application rates were lower than those recommended in the Penn State Agronomy Guide and basic nutrient balance recommendations for nitrogen (found in your Manure Management Plan, Nutrient Balance Sheets, etc.).	○ No ○ Yes		Year
B. Nitrogen was applied by crop by multiple lower rate split applications made throughout the growing year, for example corn side-dress, small grain split applications, etc.	○ No ○ Yes		Year
C. Nitrogen was applied at variable rates at the sub-field level based on variable crop response data from historical records or Pre-side dress Nitrate Test (PSNT), chlorophyll meter, NDVI sensor, plant sampling, nitrogen modeling, etc.	○ No ○ Yes		Year

9. In calendar year 2021, did you follow any of the practices described below that affect the *placement* of your nitrogen applications? If yes, indicate number of acres and the year you first implemented the practice.

Practice Description	Did you use practice?	Acres in 2021	Year first implemented
A. Injection or incorporation of inorganic nitrogen fertilizer within 24 hours of application.	○ No ○ Yes		Year
B. Setbacks: If fertilizer or manure is applied to fields near a water feature, maintaining a setback of 100 feet from any wellheads or springs used for drinking water and 100 feet (or 35 feet if there is a permanent vegetative buffer) from any streams, lakes, ponds or sinkholes. When reporting acreage, only count those field units where setbacks were implemented but count entire crop acreage of those fields (including crops grown within and outside of setbacks).	○ No ○ Yes		Year

10. In calendar year 2021, did you follow any of the practices described below that affect the *timing* of your nitrogen applications? If yes, indicate number of acres and the year you first implemented the practice.

Practice Description	Did you use practice?	Acres in 2021	Year first implemented
A. Nitrogen was applied by crop by multiple lower rate split applications made throughout the growing year, i.e., corn side-dress, small grain split applications, etc.	○ No ○ Yes		Year
B. Nitrogen was applied through multiple applications based on recommendations from Pre-side dress Nitrate Test (PSNT), NDVI sensor, chlorophyll meter, plant sampling, nitrogen modeling, etc.	○ No ○ Yes		Year

Application of Phosphorus to Cropland

11. In calendar year 2021, did you follow any of the practices described below that affect the *rate* of your phosphorus applications? If yes, indicate number of acres and the year you first implemented the practice.

Practice Description	Did you use practice?	Acres in 2021	Year first implemented
A. Total phosphorus application rates were lower than those recommended in the Penn State Agronomy Guide and basic nutrient balance recommendations for phosphorus (found in your Nutrient Balance Sheets, etc.).	○ No ○ Yes		Year
B. Applications of manure were based on annual crop removal of phosphorus rather than nitrogen.	○ No ○ Yes		Year
C. Phosphorus was applied at variable rates at the sub-field level based on variable crop response data from historical records or tools like optical crop sensors.	○ No ○ Yes		Year

12. In calendar year 2021, did you follow any of the practices described below that affect the *placement* of your phosphorus applications? If yes, indicate number of acres and the year you first implemented the practice.

Practice Description	Did you use practice?	Acres in 2021	Year first implemented
A. Injection or incorporation of inorganic phosphorus fertilizer within 24 hours of application.	○ No ○ Yes		Year
B. Setbacks: If fertilizer or manure is applied to fields near a water feature, maintaining a setback of 100 feet from any wellheads or springs used for drinking water and 100 feet (or 35 feet if there is a permanent vegetative buffer) from any streams, lakes, ponds or sinkholes. When reporting acreage, only count those field units where setbacks were implemented but count entire crop acreage of those	○ No ○ Yes		Year

13. In calendar year 2021, did you follow any of the practices described below that affect the *timing* of your phosphorus applications? If yes, indicate number of acres and the year you first implemented the practice.

Practice Description	Did you use practice?	Acres	Year first implemented
A. Phosphorus was applied in seasons of lower risk for phosphorus loss.	○ No ○ Yes		Year
B. The P Index assessment was followed to change manure application to a time of year when there is a lower risk for phosphorus loss.	○ No ○ Yes		Year
C. Split applications of phosphorus fertilizer were made throughout the growing year.	○ No ○ Yes		Year

Manure Storages

○ Yes	$s \rightarrow$ Please answer que	estion 14a.	
is dry were	or liquid), the year it	was constructed, the months of	f manure it stores (both animal type and whether it storage it provides, whether any government funds d engineer design, and whether runoff from the
Storage #	1: Manure Type		
O Dairy O Beef	 Dry (stackable) Liquid	Year Constructed:	Were county, state or federal funds used to construct your storage? O No Yes
SwinePoultryOther:		Months of storage provided:	Certified engineer design? ○ No ○ Yes
o other			Is runoff controlled from your
			storage system? O No O Yes
Storage #	#2: Manure Type		
O Dairy	O Dry (stackable)	Year Constructed:	Were county, state or federal funds used to construct
O Beef	○ Liquid		your storage? ○ No ○ Yes
O Swine			
○ Poultry		Months of storage provided:	Certified engineer design? ○ No ○ Yes
Other:			Is runoff controlled from your storage system? ○ No ○ Yes
Storage #	#3: Manure Type		
O Dairy	Ory (stackable)	Year Constructed:	Were county, state or federal funds used to construct
O Beef	○ Liquid		your storage? O No Yes
○ Swine		Months of stoness musicals	
O Poultry		Months of storage provided:	Certified engineer design? ○ No ○ Yes
Other:			Is runoff controlled from your
			storage system? O No O Yes
Storage	#4: Manure Type		
O Dairy	O Dry (stackable)	Year Constructed:	Were county, state or federal funds used to construct
O Beef	○ Liquid		your storage? O No Yes
O Swine		Mandage	
O Poultry		Months of storage provided:	Certified engineer design? ○ No ○ Yes
Other:			Is supposed annually defeat your
			Is runoff controlled from your storage system? O No Yes
			- 110 - 100

14. Do you have any animal waste storage systems (manure storages) for your farming operations?

 \circ No \rightarrow Please proceed to question 15 (NEXT PAGE).

Barnyard Runoff Controls

from barnyard areas.)

15. Do you have a barnyard where livestock is kept? \bigcirc No \rightarrow Please proceed to question 16.

 \circ No \rightarrow Please proceed to question 16.

Diversions to direct clean water runoff away from barnyard (such as roof gutters, downspouts, and outlets to send runoff away from barnyard) Stabilized barnyard surface with concrete, stone aggregate or other suitable materials System to catch barnyard runoff and discharge it to storage or stabilized vegetated filter area System to catch barnyard runoff and discharge it to storage or stabilized vegetated filter area O No O Yes → Year Constructed: O No O Yes → Year Constructed: O Yes Grazing Management 16. Do you have any pastures where you graze animals? O No → Please proceed to question 17 (NEXT PAGE). O Yes → 16a. Do you have and follow a grazing management plan? O No → Please proceed to question 17 (NEXT PAGE). O Yes → Answer questions 16.b through 16.b. 16b. What type of grazing plan do you have? O NRCS Grazing Management Plan (aka Prescribed Grazing or 528 Plan) → 16c. Do you keep records in accordance with your NRCS 528 Plan? O No O Yes O Other type of grazing plan → 16d. Does your plan allow for movement of animals to maintain at least 3 inches and	Runoff Control Practice	Do you have this practice?	Were county, state or federal funds used to construct the practice?
Stabilized barnyard surface with concrete, stone aggregate or other suitable materials System to catch barnyard runoff and discharge it to storage or stabilized vegetated filter area O No O Yes → Year Constructed: O No O Yes O Other type of grazing plan → 16d. Does your plan allow	· · · · · · · · · · · · · · · · · · ·	○ No	○ No
System to catch barnyard runoff and discharge it to storage or stabilized vegetated filter area O Yes → Year Constructed: O No O Yes → Year Constructed: O Yes O No O Yes → Year Constructed: O Yes O No O Yes → Please proceed to question 17 (NEXT PAGE). O Yes → Answer questions 16.b through 16.h. 16b. What type of grazing plan do you have? O NRCS Grazing Management Plan (aka Prescribed Grazing or 528 Plan) → 16c. Do you keep records in accordance with your NRCS 528 Plan? O No O Yes O Other type of grazing plan → 16d. Does your plan allow O No O Yes Other type of grazing plan → 16d. Does your plan allow	•	○ Yes → Year Constructed:	○ Yes
System to catch barnyard runoff and discharge it to storage or stabilized vegetated filter area O No O Yes → Year Constructed: O Yes O No O Yes → Year Constructed: O Yes O Yes O Yes O No O Yes O Yes O Yes O No O Yes O Yes O Other type of grazing plan → 16d. Does your plan allow O Yes O Yes O Other type of grazing plan → 16d. Does your plan allow O No O Yes O Yes O Other type of grazing plan → 16d. Does your plan allow O No O Yes O Yes O Other type of grazing plan → 16d. Does your plan allow O No O Yes O Other type of grazing plan → 16d. Does your plan allow	•	○ No	○ No
Grazing Management 16. Do you have any pastures where you graze animals? ○ No → Please proceed to question 17 (NEXT PAGE). ○ Yes → 16a. Do you have and follow a grazing management plan? ○ No → Please proceed to question 17 (NEXT PAGE). ○ Yes → Answer questions 16.b through 16.h. 16b. What type of grazing plan do you have? ○ NRCS Grazing Management Plan (aka Prescribed Grazing or 528 Plan) → 16c. Do you keep records in accordance with your NRCS 528 Plan? ○ No ○ Yes ○ Other type of grazing plan → 16d. Does your plan allow	aggregate or other suitable materials	○ Yes → Year Constructed:	○ Yes
Grazing Management 16. Do you have any pastures where you graze animals? ○ No → Please proceed to question 17 (NEXT PAGE). ○ Yes → 16a. Do you have and follow a grazing management plan? ○ No → Please proceed to question 17 (NEXT PAGE). ○ Yes → Answer questions 16.b through 16.h. 16b. What type of grazing plan do you have? ○ NRCS Grazing Management Plan (aka Prescribed Grazing or 528 Plan) → 16c. Do you keep records in accordance with your NRCS 528 Plan? ○ No ○ Yes ○ Other type of grazing plan → 16d. Does your plan allow		○ No	○ No
16. Do you have any pastures where you graze animals? ○ No → Please proceed to question 17 (NEXT PAGE). ○ Yes → 16a. Do you have and follow a grazing management plan? ○ No → Please proceed to question 17 (NEXT PAGE). ○ Yes → Answer questions 16.b through 16.h. 16b. What type of grazing plan do you have? ○ NRCS Grazing Management Plan (aka Prescribed Grazing or 528 Plan) → 16c. Do you keep records in accordance with your NRCS 528 Plan? ○ No ○ Yes ○ Other type of grazing plan → 16d. Does your plan allow 16g. Are you implementing your plan? ○ No ○ Yes	storage or stabilized vegetated filter area	○ Yes → Year Constructed:	○ Yes
 ○ No → Please proceed to question 17 (NEXT PAGE). ○ Yes → Answer questions 16.b through 16.h. 16b. What type of grazing plan do you have? ○ NRCS Grazing Management Plan (aka Prescribed Grazing or 528 Plan) → 16c. Do you keep records in accordance ○ Were any county, state or federal government funds used develop your plan? ○ No ○ Yes ○ Other type of grazing plan → 16d. Does your plan allow 	16. Do you have any pastures where you graze a		
 ○ Yes → Answer questions 16.b through 16.h. 16b. What type of grazing plan do you have? ○ NRCS Grazing Management Plan (aka Prescribed Grazing or 528 Plan) → 16c. Do you keep records in accordance with your NRCS 528 Plan? ○ No ○ Yes ○ Other type of grazing plan → 16d. Does your plan allow 16f. Were any county, state or federal government funds used develop your plan? ○ No ○ Yes 16g. Are you implementing your plan? 	\circ Yes \rightarrow 16a. Do you have and follow a gr	razing management plan?	
16b. What type of grazing plan do you have? ○ NRCS Grazing Management Plan (aka Prescribed Grazing or 528 Plan) → 16c. Do you keep records in accordance with your NRCS 528 Plan? ○ No ○ Yes ○ Other type of grazing plan → 16d. Does your plan allow 16f. Were any county, state or federal government funds used develop your plan? ○ No ○ Yes 16g. Are you implementing your plan?	○ No → Please proceed to quest	ion 17 (NEXT PAGE).	
 ○ NRCS Grazing Management Plan (aka Prescribed Grazing or 528 Plan) → 16c. Do you keep records in accordance with your NRCS 528 Plan? ○ No ○ Yes ○ Other type of grazing plan → 16d. Does your plan allow government funds used develop your plan? ○ No ○ Yes 16g. Are you implementing your plan? 	\circ Yes \rightarrow Answer questions 16.b	through 16.h.	
or 528 Plan) → 16c. Do you keep records in accordance with your NRCS 528 Plan? ○ No ○ Yes ○ Other type of grazing plan → 16d. Does your plan allow 16g. Are you implementing your plan?	16b. What type of grazing plan do you have?		
with your NRCS 528 Plan? ○ No ○ Yes ○ Other type of grazing plan → 16d. Does your plan allow 16g. Are you implementing your plan?		a Grazing -	= - = - = - = - = - = - = - = - = - = -
○ Other type of grazing plan → 16d. Does your plan allow 16g. Are you implementing your plan?	,	ruance 0 NO 0	ies
$\sim N$	·	olan allow 16g. Are yo	ou implementing your plan?
	for movement of animals to maintain at least 3 in	nches and ONo	
75% perennial grass cover, exclude animals from surface ○ Yes → 16h. On how many acres of pasture are you implementing your plan?	75% perennial grass cover, exclude animals from		
○ No ○ Yes Acres			<u>, , , , , , , , , , , , , , , , , , , </u>

 \circ Yes \to 15a. Do you have any barnyard runoff controls on the barnyard? (This includes practices that divert clean water from entering the barnyard, provide stabilized surfaces in the barnyard, and control runoff

Agricultural Erosion and Sediment Control/Conservation Plans

Plans for your farming operations?

 ○ No → Please proceed to question 18 (NEXT PAGE). ○ Yes → 17a. For each plan you have, indicate the type of plan, year it was written or last upda any government funds were used to develop your plan, whether you are on schedule for implement plan, and the acres covered by your plan: 	•
Plan #1 Plan Type: ○ Ag E&S Plan ○ NRCS Conservation Plan	ed:
Were county, state or federal funds used to develop Are you on schedule for implementing your plan? One of Yes No of Yes	
Acres covered by plan: Row Crops: Hay: Pasture:	
Plan #2 Plan Type: O Ag E&S Plan NRCS Conservation Plan Year Written or Update	ed:
Were county, state or federal funds used to develop Are you on schedule for implementing your plan? One or Yes One or Yes	
Acres covered by plan: Row Crops: Hay: Pasture:	
Plan #3 Plan Type: O Ag E&S Plan NRCS Conservation Plan Year Written or Update	ed:
Were county, state or federal funds used to develop Are you on schedule for implementing your plan? One or Yes One or Yes	
Acres covered by plan: Row Crops: Hay: Pasture:	
Plan #4 Plan Type: O Ag E&S Plan NRCS Conservation Plan Year Written or Update	ed:
Were county, state or federal funds used to develop $Are you on schedule for implementing your plan? On O Yes On O Yes$	
Acres covered by plan: Row Crops: Hay: Pasture:	

17. Do you have any Agricultural Erosion & Sedimentation Control Plans (Ag E&S Plans) or NRCS Conservation

No Till/Minimum Till

- 18. Did you practice no till or minimum till in calendar year 2021?
 - \circ No \rightarrow Please proceed to question 19.
 - \circ Yes \to 18a. Indicate how many acres meet the following amounts of residue left in field at time of planting in 2021. Also indicate the year you first began to meet the applicable residue amounts:

Amount of residue left in field at time of planting	Acres meeting residue amounts	Year residue amounts were first met
60% or Greater		
30% to 59%.		
15% to 29%		

Cover Crops

- 19. Did you plant cover crops or winter crops in calendar year 2021?
 - \circ No \rightarrow Please proceed to question 20 (PAGE 11).
 - Yes → 19a. Fill out the charts below to indicate what species you planted, how many acres of each, the month in 2021 you planted them, in what year you first started planting them, method of planting, whether they received a fall manure nutrient application, whether they will receive a spring 2022 nutrient application, and whether you will harvest any acres in spring 2022 for forage, hayledge, or grain (spring grazing of cover crops is also considered "harvesting" of such crops).

	nt application, and whether you will spring grazing of cover crops is als		0,,0,
Please pick a cover crop sp	pecies or mixture that you planted	in 2021 (choose only one)	
○ Rye ○ Wheat	Annual RyegrassAnnual Legumes	Mixture: Forage RMixture: Annual I	adish plus Grass Legume plus Grass at 25-49%
 Barley Oats (Winter Hardy) Oats (Winter Killed)	 Brassica (Winter Hardy) Triticale Forage Radish	O Mixture: Annual I	Legume plus Grass at 50% or More
Acres Planted: In what year did you first start planting this cover crop?	O Drilled with O Broadcast w O Broadcast w O Aerial seedi	nting (check all that apply): a seed drill with incorporation without incorporation ang with aircraft ify):	Fall Manure Applied? ○ No ○ Yes Spring Nutrients to be Applied? ○ No ○ Yes Harvesting in Spring? ○ No ○ Yes → Acres to be Harvested:

Cover Crops (cont.)

If you planted another typ	oe, please pick another cover crop sp	pecies or mixture that you	planted in 2021 (choose only one)	
○ Rye	O Annual Ryegrass	O Mixture: Forage R	Radish plus Grass	
O Wheat	O Annual Legumes	O Mixture: Annual I	O Mixture: Annual Legume plus Grass at 25-49%	
○ Barley	O Brassica (Winter Hardy)	O Mixture: Annual I	Legume plus Grass at 50% or More	
Oats (Winter Hardy)	O Triticale	Other (specify): _		
Oats (Winter Killed)	 Forage Radish 			
Acres Planted: In what year did you first start planting this cover crop?	O Drilled with O Broadcast with	ith incorporation ithout incorporation ag with aircraft	Fall Manure Applied? ○ No ○ Yes Spring Nutrients to be Applied? ○ No ○ Yes Harvesting in Spring? ○ No ○ Yes → Acres to be Harvested:	
If you planted another type O Rye	oe, please pick another cover crop sp	oecies or mixture that you O Mixture: Forage R	-	
O Wheat	O Annual Legumes	O Mixture: Annual I	Legume plus Grass at 25-49%	
○ Barley	O Brassica (Winter Hardy)	O Mixture: Annual I	Legume plus Grass at 50% or More	
Oats (Winter Hardy)	O Triticale	Other (specify): _		
Oats (Winter Killed)	 Forage Radish 			
Acres Planted: Month Planted: Drilled with seed drill Broadcast with incorporation Broadcast without incorporation		Fall Manure Applied? O No O Yes Spring Nutrients to be Applied?		
In what year did you first start planting this cover crop?	Other (specify Year	ng with aircraft Ty):	 ○ No ○ Yes Harvesting in Spring? ○ No ○ Yes → Acres to be Harvested: 	

Cover Crops (cont.)

If you planted another type, pleas	se pick another cover crop spec	ies or mixture that you j	planted in 2	2021 (choose only one)	
○ Rye	Annual Ryegrass	O Mixture: Forage R	Mixture: Forage Radish plus Grass		
O Wheat	Annual Legumes	O Mixture: Annual Legume plus Grass at 25-49%			
O Barley	Brassica (Winter Hardy)	O Mixture: Annual L	O Mixture: Annual Legume plus Grass at 50% or More		
Oats (Winter Hardy)	Triticale	Other (specify):	ther (specify):		
Oats (Winter Killed)	Forage Radish				
Acres Planted: In what year did you first start planting this cover crop? Year	O Drilled with see O Broadcast with O Broadcast with O Aerial seeding v	incorporation out incorporation	O No O Y Spring Nu O No O Y Harvesting	trients to be Applied?	
\bigcirc No \rightarrow YOU ARE FIN \bigcirc Yes \rightarrow 20a. Do you ma	the lands that are part of your ISHED WITH THE SURVEY. aintain permanent vegetation of the monly called a "riparian buffer	Please proceed to the enf a width of at least 10 fe		the stream and any	
• • •	eed to question 20b (PAGE 12)				
\circ Yes \rightarrow For all such	h areas between streams and cr	oplands on your farmin	g operation	, fill out the chart	
below to indicate the	type of buffer (by vegetation type used to establish the buffers,	oe and width), the year e	established,		
Type of vegetation growing next stream and width from top of ba		Were county, state of funds used to estable practice?		Total Acres of Buffer (max. buffer width is 300 feet)	
Grass with a width of at least 10 b than 35 feet	ut less	○ No ○ Yes			
Grass with a width of 35 feet to 30	00 feet	○ No ○ Yes			
Trees and/or shrubs with a width of 10 but less than 35 feet	of at least	○ No ○ Yes			
Trees and/or shrubs with a width of to 300 feet	of 35 feet	○ No ○ Yes			

Riparian Buffers (cont.)

- 20b. Do you maintain permanent vegetation of a width of at least 10 feet between the stream and any *pastures* that are part of your operation (commonly called a "riparian buffer")?
 - \circ No \rightarrow YOU ARE FINISHED WITH THE SURVEY. Please proceed to the end.
 - \circ Yes \to For all such areas between streams and your pastures, fill out the chart below to indicate the type of buffer (by vegetation type and width), whether grazing animals are excluded from the buffer, the year established, whether any government funds were used to establish the buffers, and the total acres of the buffers.

Type of vegetation growing next to stream or waterway and width from top of bank	If pastures are used for grazing, are animals excluded from buffer area (for example, with fencing)?	Year established	Were county, state or federal funds used to establish the practice?	Total Acres of Buffer (max. buffer width is 300 feet)
Grass with a width of at least 10 but less than 35 feet	NoYesNot used for grazing		○ No ○ Yes	
Grass with a width of 35 to 300 feet	NoYesNot used for grazing		○ No ○ Yes	
Trees and/or shrubs with a width of at least 10 but less than 35 feet	NoYesNot used for grazing		○ No ○ Yes	
Trees and/or shrubs with a width of 35 to 300 feet	NoYesNot used for grazing		○ No ○ Yes	

Thank you for completing the survey! Please place completed survey in postage paid envelope to return to the Penn State Agriculture and Environment Center. If you do not have a postage paid envelope, please mail to Penn State Agriculture and Environment Center, 111 Ferguson Building, University Park PA 16802.