

The background is a light blue gradient with several water droplets and bubbles of various sizes scattered across it. The main title is centered in a large, bold, dark blue serif font.

KENTUCKY AG WATER QUALITY PLAN

ONLINE E-WORKBOOK TOOL
IN THE
KENTUCKY ONLINE GATEWAY (KOG)

AG WATER QUALITY ACT


- Ag Water Quality Act KRS 224.71-100 through 224.71-140
- Passed in the General Assembly in 1994 to protect surface and groundwater resources from pollution as a result of agriculture and silviculture activities.
- The Ag Water Quality Authority is appointed by the governor and develops and supports the State(wide) Ag Water Quality Plan that defines the Best Management Practices (BMPs) that are used in individual plans.

The screenshot shows a webpage titled "AG. WATER QUALITY ACT" with a navigation bar for "TECHNICAL ASSISTANCE", "FUNDING ASSISTANCE", and "IMPORTANT CONSIDERATIONS". The main heading is "SOLID WASTE PROCEDURES" followed by "FARMSTEAD BMP #1". A photograph shows a blue recycling bin. Text describes the purpose of the BMP: to protect sinkholes, wells, streams, and other water bodies from pollution by solid waste. It lists "AWQA Minimum Requirements" and "Recommendations". At the bottom, there are three columns: "Technical References" (listing university publications and state resources), "Funding Assistance Options" (listing state cost share and Kentucky Ag. Development Fund), and "Important Considerations" (listing water quality benefits).

| Technical References | Funding Assistance Options | Important Considerations |
|---|---|--|
| University Publications <ul style="list-style-type: none">• IDM Managing Household Waste• HENV-104 Household Hazardous Waste• HENV-101 Household Waste Reduction• HENV-102 Household Waste Reuse• HENV-103 Household Waste Recycling | State Cost Share <ul style="list-style-type: none">• No cost share assistance is currently available for the best management practice, however, producers can utilize tire, chemical, hazardous, and general waste amnesty programs when offered. Kentucky Ag. Development Fund (KADRF) <ul style="list-style-type: none">• Select from available program options here. | Water Quality Benefits (0-0000) : 0 KEY: 0=good, 0000=best see TSP Media |
| State Resources <ul style="list-style-type: none">• County Solid Waste Coordinators• Solid Waste Coordination & State Office Planning Directory• Local Recycling Assistance• Waste Tire Disposal | NRCS Environmental Quality Incentives Program (EQIP) <ul style="list-style-type: none">• Select from available program options here. | |

Ag Water Quality Plan Online Tool

- Over the past year, a collaborative effort guided by the Ag Water Quality Authority, and including personnel from the Division of Water, UKCES, and the Division of Conservation, has worked to develop a new online tool so that landowners may more easily and efficiently complete, store, and update their Ag Water Quality Plans.



COMMONWEALTH OF KENTUCKY
ENERGY AND ENVIRONMENT CABINET
DIVISION OF CONSERVATION

Kentucky Agriculture Water Quality Plan

Date: 01/13/2021
Farm Name: John Doe Farm
FSA #: 5555


Physical Property Information
City: Glasgow **State:** Kentucky
Zip: 42141 **County:** Barton
No. of Acres: 150

Land Owner Information
Organization Name: John Doe Farm
First Name: John **Last Name:** Doe
City: Scottsville **State:** Kentucky
Zip: 42164

Land User (tenant, manager, etc.) Information
Organization Name: John Doe Farm
First Name: John **Last Name:** Doe
City: Scottsville **State:** Kentucky
Zip: 42164

Best Management Practices List

| Farm Operation | Activity Category | Selected BMP | Implementation Status |
|-------------------|---|--------------|-----------------------|
| Streams and Other | Stream Crossing for Farm Equipment | BMP 1 | Not Interested |
| Crops | Pasture and Hayland Planting and Management | BMP 9 | Have Implemented |
| Livestock | Feeding and Heavy Use Management | BMP 14 | Have Implemented |
| Silviculture | Slashlines, Sinkings, Streams, and Caves | BMP 4 | Not Interested |
| Crops | Grasslands and Legumes in Rotation | BMP 7 | Have Implemented |
| Crops | Grassed Waterway | BMP 14 | Not Interested |
| Livestock | Proper Stocking Density | BMP 2 | Have Implemented |
| Livestock | Planned Grazing | BMP 1 | Plan to Implement |



COMMONWEALTH OF KENTUCKY
ENERGY AND ENVIRONMENT CABINET
DIVISION OF CONSERVATION

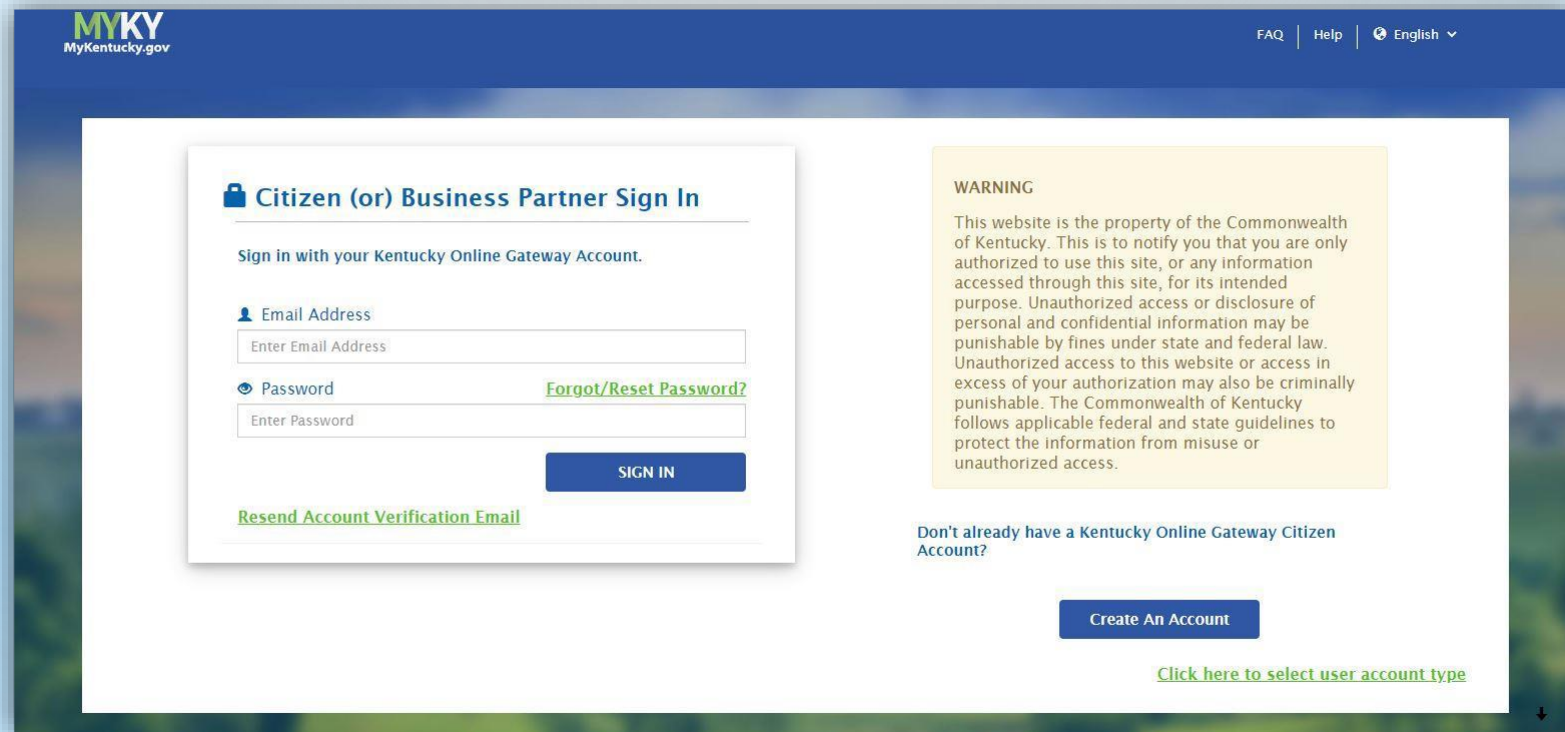
| | | | |
|-------------------------------------|-------------------------------------|--------|-------------------|
| Livestock | Manure Stack Pads | BMP 10 | Not Interested |
| Streambank and Shoreline Protection | Streambank and Shoreline Protection | BMP 3 | Not Interested |
| Farmstead | Well Protection | BMP 8 | Not Interested |
| Farmstead | Backflow Prevention | BMP 6 | Have Implemented |
| Farmstead | Water Harvesting | BMP 5 | Plan to Implement |
| Livestock | Manure Treatment Lagoons | BMP 8 | Plan to Implement |
| Farmstead | Solid Waste Procedures | BMP 1 | Plan to Implement |

Signature:
First Name: John **Last Name:** Doe
Signature: John Q Doe **Signature Date:** 01/13/2021

Best Management Practices Web Reference Link:
https://www.ky.gov/Natural_Resources/Conservation/Pages/Best_Management_Practices.aspx

Ag Water Quality Plan Online Tool

- The IT platform in which the new tool is housed is called the Kentucky Online Gateway (KOG)
- This is the same platform in which conservation districts complete and submit Ky. State Cost Share applications. This made the platform a natural and familiar fit to house the tool.



The screenshot shows the 'Citizen (or) Business Partner Sign In' page on the MYKY website. The page has a dark blue header with the MYKY logo and 'MyKentucky.gov' on the left, and 'FAQ | Help | English' on the right. The main content area is white and contains a sign-in form on the left and a warning box on the right. The sign-in form includes fields for 'Email Address' and 'Password', a 'SIGN IN' button, and a link for 'Resend Account Verification Email'. The warning box contains a 'WARNING' section with text about unauthorized access. Below the warning box is a link for 'Don't already have a Kentucky Online Gateway Citizen Account?' and a 'Create An Account' button. At the bottom right, there is a link 'Click here to select user account type'.

MYKY
MyKentucky.gov

FAQ | Help | English

Citizen (or) Business Partner Sign In

Sign in with your Kentucky Online Gateway Account.

Email Address
Enter Email Address

Password [Forgot/Reset Password?](#)
Enter Password

SIGN IN

[Resend Account Verification Email](#)

WARNING

This website is the property of the Commonwealth of Kentucky. This is to notify you that you are only authorized to use this site, or any information accessed through this site, for its intended purpose. Unauthorized access or disclosure of personal and confidential information may be punishable by fines under state and federal law. Unauthorized access to this website or access in excess of your authorization may also be criminally punishable. The Commonwealth of Kentucky follows applicable federal and state guidelines to protect the information from misuse or unauthorized access.

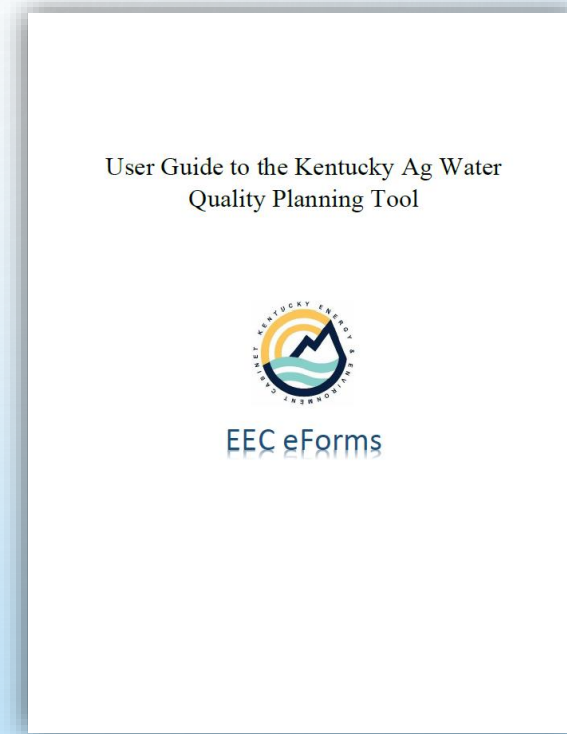
Don't already have a Kentucky Online Gateway Citizen Account?

Create An Account

[Click here to select user account type](#)

Ag Water Quality Plan Online Tool

- The online tool was developed with efficiency in mind. It was also developed so that the private landowner could easily access and complete their own plans.
- A detailed User Guide can be found on the KDOC website that walks users, step by step, through the plan completion process.



Ag Water Quality Plan Online Tool

- After account creation and selection of the proper form, the initial page of the document is similar to any other form with personal, contact, and farm information sections.
- As the user continues to the following pages, a series of questions are asked, and depending on how they are answered, the system will guide the user through the proper sections and populate the proper BMPs to be considered.

The screenshot shows the 'Ky Ag Water Quality Planning Tool' interface. At the top, there are three tabs: 'General Info', 'Farmstead BMPs', and 'Plan Summary'. Below the tabs, there are several sections of the form:

- Farm Information:** Includes fields for 'Farm Name(*)', 'Approximate Farm Acreage(*)', 'Connection to Farm(*)', and 'Farm Number/FSA Number(*)'.
- Farm Address:** Includes fields for 'Street Address', 'City(*)', 'County', 'State(*)', 'Zip Code(*)', and 'Contact #/ Phone(*)'. It also has fields for 'Latitude(decimal degrees)(/)' and 'Longitude(decimal degrees)(/)' with range instructions.
- Farm Mailing Address:** Includes fields for 'Street Address', 'City(*)', 'County(*)', 'State(*)', and 'Zip Code(*)'. There is a checkbox to 'Check this box if mailing address is same as farm address'.
- Land Owner Information:** Includes fields for 'Organization Name(/)', 'First Name(/)', 'M.I. Middle Initial', 'Last Name(/)', 'City(*)', 'State(*)', and 'Zip Code(*)'.
- Land User (tenant, manager, etc.) Information:** Includes fields for 'Organization Name(/)', 'First Name(/)', 'M.I. Middle Initial', 'Last Name(/)', 'City(*)', 'State(*)', and 'Zip Code(*)'. There is a checkbox to 'Check this box if land user information is same as land owner information'.

At the bottom of the form, there are buttons for 'Click to Save', 'Click to Finalize', and a 'Next' button.

Ag Water Quality Plan Online Tool

- In the location information section, our IT team was able to incorporate a very useful GPS mapping tool so that specific coordinates could be obtained easily by zooming into a specific farm location.
- GPS information is confidential, and will NOT be used for any type of regulatory actions. This information is only used in macro information applications such as to quantify how many plans have been completed in specific watersheds, etc.



Ag Water Quality Plan Online Tool

Ky Ag Water Quality Planning Tool

(*) indicates a required field; (✓) indicates a field may be required based on user input or is an optionally required field
 ⓘ provides additional information about the field when mouse pointer is hovered

General Info Farmstead BMPs Plan Summary

Is your land used for farming or timber production? (*) ⓘ

Previous Next

Click to Save Click to Finalize

AWQP Plan Decision Farmstead BMPs Streams and Other Waters B... Livestock BMPs Plan Summary

Is your land used for farming or timber production? (*) ⓘ

Do you own or lease 10 or more acres?

Is there solid waste generated from a residential and agricultural operation? (*) ⓘ

Select a practice below that describes your farm: (minimum of 1 implementable BMP)

| Plan to Implement | Have Implemented | Not Interested | BMP |
|--------------------------|--------------------------|--------------------------|-------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Farmstead #1: Solid Waste |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Farmstead #4: Well Protection |

Is there household wastewater generated onsite that is not delivered to a municipal sewer? (*)

Is there drinking water available onsite or harvested from sources other than a municipal water supplier? (*)

Is fuel stored onsite for home heating use or other farm use? (*)

Which of the following best describes your farm? Select as many as apply.

- I harvest timber or clear land (i.e. forestry practices) - Silviculture BMPs
- Pesticides, fertilizer are applied on my land - Pesticide/fertilizer BMPs
- I have creeks or ponds on or adjoining my land - Streams and Other Waters BMPs
- I grow crops on my land (hay, grains, fruit, etc.) - Crops BMPs
- I have livestock or poultry on my land - Livestock BMPs

Previous Next

Ag Water Quality Plan Online Tool

Ky Ag Water Quality Planning Tool

(*) indicates a required field; (-) indicates a field may be required based on user input or is an optionally required field
 ⓘ provides additional information about the field when mouse pointer is hovered

General Info | Farmstead BMPs | Streams and Other Waters | Livestock BMPs | Plan Summary

Do you have livestock or poultry in roofed, paved or confined feeding areas? (*)

No

Do you have livestock in unroofed, unpaved, confined feeding areas including pastures? (*)

Yes

Select a practice below that describes your farm: (minimum of 1 implementable BMP)

| Plan to Implement | Have Implemented | Not Interested | BMP |
|--------------------------|-------------------------------------|-------------------------------------|----------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Livestock #1: Rotational Grazing |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Livestock #2: Stocking Density |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Livestock #10: Stack Pad |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Livestock #14: Heavy Use Area |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Livestock #15: Dead Animal |

Do you apply animal waste to your land? (*)

Yes

Select a practice below that describes your farm: (minimum of 1 implementable BMP)

| Plan to Implement | Have Implemented | Not Interested | BMP |
|--------------------------|-------------------------------------|-------------------------------------|------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Livestock #11: Nutrient Management |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Livestock #5: Manure Management |

Are there sinkholes onsite? (*)

Yes

Select a practice below that describes your farm: (minimum of 1 implementable BMP)

| Plan to Implement | Have Implemented | Not Interested | BMP |
|-------------------------------------|--------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Soil Culture #4: Sinkholes, Sinking Streams & Caves |

Do livestock or poultry have free access to any creeks or ponds onsite? (*)

No

Do livestock have access to waterers? (*)

No

Does water/air/water pass through your production area? (*)

Yes

Select a practice below that describes your farm: (minimum of 1 implementable BMP)

| Plan to Implement | Have Implemented | Not Interested | BMP |
|-------------------------------------|--------------------------|--------------------------|--------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Livestock #18: Stormwater Management |

Do you also produce forage crops (hay or pasture)? (*)

** Note: If you select 'Yes' below, it will open a new tab for Crops BMP

No

Do you have or plan to build poultry houses onsite? (*)

No

Do you generate milk/parlor/milk house wastewater? (*)

No

Do you use animal waste (poultry litter or horse manure) as feed for other livestock onsite? (*)

No

AG. WATER QUALITY ACT





TECHNICAL ASSISTANCE
FUNDING ASSISTANCE
IMPORTANT CONSIDERATIONS

SOLID WASTE PROCEDURES

FARMSTEAD BMP #1



Photo courtesy of Creative Commons

Description:
 Properly dispose of solid waste to protect sinkholes, wells, streams and other water bodies. Solid Waste includes any garbage, refuse, sludge, and other discarded material, including solid, liquid, semi-solid, or contained gaseous material resulting from industrial, commercial, mining (excluding coal mining wastes, coal mining by-products, refuse and overburden), or agricultural operations, and from community activities.

AWQA Minimum Requirements:
 Prevent surface and groundwater pollution from occurring when water drains through solid waste dumps (including garbage). **Do not dump solid waste in sinkholes, gullies, streams, or other water bodies.** Do not allow solid waste (including construction materials, dead animals, agricultural plastics, etc.) to enter lagoons, farm ponds, or other water bodies. Follow label directions on solid waste with special disposal requirements. Open burning of trash is prohibited. Only burn trees and brush when allowed by law.

Recommendations:
 Close and remediate existing dumps on farms. Look for new and creative ways to reduce waste quantity and toxicity. Reduce unnecessary packaging use and disposal. Reuse, recycle, and/or compost. Repurposing spent tires is acceptable for agricultural purposes (i.e. silage cover weight, waterers, etc.). Tires not being repurposed should be disposed of through an appropriate contractor or through a waste tire amnesty program.

Technical References

University Publications

- [IE-70 Managing Household Waste](#)
- [HENV-104 Household Hazardous Waste](#)
- [HENV-101 Household Waste Reduction](#)
- [HENV-102 Household Waste Reuse](#)
- [HENV-103 Household Waste Recycling](#)

State Resources

- [County Solid Waste Coordinators](#)
- [Solid Waste Coordinators & State Office Planning Directory](#)
- [Local Recycling Assistance](#)
- [Waste Tire Disposal](#)

Funding Assistance Options

State Cost Share

- No cost share assistance is currently available for this best management practice, however, producers can utilize tire, chemical, hazardous, and general waste amnesty programs when offered.

Kentucky Agr. Development Fund (KADR/KAFCD)

- Select from available program options [here](#).

NRCS Environmental Quality Incentives Program (EQIP)

- Select from available program options [here](#).

Important Considerations

Water Quality Benefit (0-5): 5

(KEY: 0=good, 5=best see [WQIP Manual](#))

Ag Water Quality Plan Online Tool

- Each BMP is in blue text and is a hyperlink, which if selected, will take the user to a page with a detailed description of that specific BMP.
- Each BMP grid that appears as a result of answered questions will have three options; *Not Applicable*, *Have Implemented*, *Plan to Implement*. The user shall make a selection for each BMP.

Do you have livestock or poultry in roofed, paved or confined feeding areas?(*)

Yes

Select a practice below that describes your farm: (minimum of 1 implementable BMP)

| Plan to Implement | Have Implemented | Not Interested | BMP |
|-------------------------------------|-------------------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Livestock #19: Totally Covered Open Confinement |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Livestock #5: Manure Management |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Livestock #15: Dead Animal |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Livestock #14: Heavy Use Area |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Livestock #13: Filter Strip |

Ag Water Quality Plan Online Tool

- As selections on BMPs are made throughout the document, the system is building a summary table of all BMP considerations.
- The final section of the online document is this summary table, plus the signature section. The system then creates a two page .pdf file that may serve as certification of having a completed AWQP.

Ky Ag Water Quality Planning Tool

(*) indicates a required field; (✓) indicates a field may be required based on user input or is an optionally required field
 ⓘ provides additional information about the field when mouse pointer is hovered

General Info > Farmstead BMPs > Streams and Other Waters B... > Livestock BMPs > Plan Summary

MY AGRICULTURE WATER QUALITY PLAN

| Best Management Practices | Implementation Status |
|--|-----------------------|
| Streams #1: Stream Crossing for Farm Equipment | Have Implemented |
| Streams #3: Streambank and Shoreline Protection | Not Interested |
| Streams #4: Proper Stream Drainage Maintenance | Have Implemented |
| Silviculture #4: Sinkholes, Sinking Streams, and Caves | Plan to Implement |
| Streams #2: Sand and Gravel Removal | Not Interested |
| Livestock #1: Rotational Grazing | Have Implemented |
| Livestock #2: Stocking Density | Have Implemented |
| Livestock #10: Stack Pad | Not Interested |
| Livestock #14: Heavy Use Area | Have Implemented |
| Livestock #15: Dead Animal | Have Implemented |
| Livestock #11: Nutrient Management | Have Implemented |
| Livestock #5: Manure Management | Not Interested |
| Livestock #16: Stormwater Management | Plan to Implement |

This plan entitles me to:

- ▶ The Corrective Measures process. A process to correct any identified water quality problems that may be the result of activities conducted on my operation.
- ▶ Availability of technical assistance through the conservation districts to develop or modify as needed my water quality plan, practices and/or measures or to recommend changes to the statewide water quality plan.
- ▶ Opportunity to apply for financial assistance needed for implementation of my plan as resources become available.
- ▶ Possible extensions of time for compliance with a water quality plan based on the availability of technical and financial assistance.

Note: Selecting "not interested" for each and every BMP throughout the plan does not fulfill AWQA requirements for an implemented plan under [KRS 224.71-120](#).

Signature

I understand my obligations under the Agriculture Water Quality Act to implement the applicable requirements of the statewide water quality plan and I have developed a water quality plan for my individual operations based on its guidance. I am aware of the need to review my plan periodically to record those practices or measures that I have completed and to modify my plan as major changes are made in my operation. If my management practices are questioned by regulatory agencies or through civil actions, these updated records will serve as documentation of my efforts to improve and protect the natural resources.

| | |
|----------------------|----------------------|
| Signature(*) ⓘ | Signature Date(*) |
| <input type="text"/> | <input type="text"/> |
| First Name(*) | Last Name(*) |
| <input type="text"/> | <input type="text"/> |

Ag Water Quality Plan Online Tool



COMMONWEALTH OF KENTUCKY
ENERGY AND ENVIRONMENT CABINET
DIVISION OF CONSERVATION

Kentucky Agriculture Water Quality Plan

Date: 01/13/2021
Farm Name: John Doe Farm
FSA # 5555

Physical Property Information

City: Glasgow **State:** Kentucky
Zip: 42141 **County:** Barren
No. of Acres: 150

Land Owner Information

Organization Name: John Doe Farm
First Name: John **Last Name:** Doe
City: Scottsville **State:** Kentucky
Zip: 42164

Land User (tenant, manager, etc.) Information

Organization Name: John Doe Farm
First Name: John **Last Name:** Doe
City: Scottsville **State:** Kentucky
Zip: 42164

Best Management Practices List

| Farm Operation | Activity Category | Selected BMP | Implementation Status |
|--------------------------|---|--------------|-----------------------|
| Streams and Other Waters | Stream Crossing for Farm Equipment | BMP 1 | Not Interested |
| Crops | Pasture and Hayland Planting and Management | BMP 9 | Have Implemented |
| Livestock | Feeding and Heavy Use Management | BMP 14 | Have Implemented |
| Silviculture | Sinkholes, Sinking Streams, and Caves | BMP 4 | Not Interested |
| Crops | Grasses and Legumes in Rotation | BMP 7 | Have Implemented |
| Crops | Grassed Waterway | BMP 14 | Not Interested |
| Livestock | Proper Stocking Density | BMP 2 | Have Implemented |
| Livestock | Planned Grazing | BMP 1 | Plan to Implement |



COMMONWEALTH OF KENTUCKY
ENERGY AND ENVIRONMENT CABINET
DIVISION OF CONSERVATION

| | | | |
|-------------------------------------|-------------------------------------|--------|-------------------|
| Livestock | Manure Stack Pads | BMP 10 | Not Interested |
| Streambank and Shoreline Protection | Streambank and Shoreline Protection | BMP 3 | Not Interested |
| Farmstead | Well Protection | BMP 4 | Not Interested |
| Farmstead | Backflow Prevention | BMP 6 | Have Implemented |
| Farmstead | Water Harvesting | BMP 5 | Plan to Implement |
| Livestock | Manure Treatment Lagoons | BMP 8 | Plan to Implement |
| Farmstead | Solid Waste Procedures | BMP 1 | Plan to Implement |

Signature:

First Name: John **Last Name:** Doe

Signature: John Q. Doe **Signature Date:** 01/13/2021

Best Management Practices Web Reference Link:

<https://eec.ky.gov/Natural-Resources/Conservation/Pages/Best-Management-Practices.aspx>

Ag Water Quality Plan Online Tool

Questions/Discussion?

