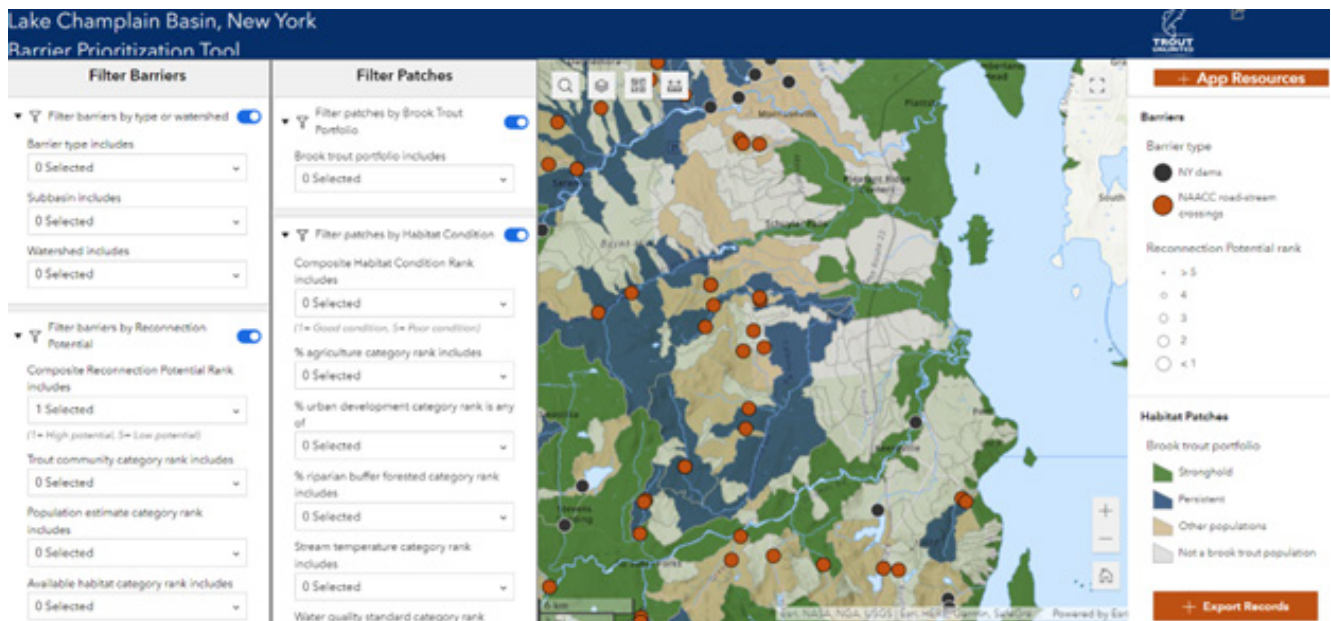


Dam Prioritization Tool for the New York Portion of the Lake Champlain Basin



September 2025

Prepared by: Trout Unlimited
Tracy Brown, Restoration Manager

For:
The Lake Champlain Basin Program and NEIWPC

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<https://www.lcbp.org/news-and-media/publications/technical-reports/>

Dam Prioritization Tool for the New York Portion of the Lake Champlain Basin

Lake Champlain Basin Program Project Final Report



October 26, 2022

NEI Job Code: 0100-331-003

Project Code: L-2020-086

Period of agreement: 10/23/2020-12/30/2022

Approved January 9, 2023

Dates covered by this report: 10/1/2020 –09/30/2022

Grantee

Trout Unlimited, Inc.

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This project was funded by an agreement awarded by Great Lakes Fishery Commission to NEIWPCC and the Lake Champlain Basin Program. The viewpoints expressed here do not necessarily represent those of NEIWPCC or Great Lakes Fisher Commission, nor does mention of trade names, commercial products, or causes constitute endorsement or recommendation for use.

Project Location:

The project will encompass the entire portion of the Lake Champlain Basin in New York (Clinton, Franklin, Essex, Warren, and Washington counties).

Project Description:

A collaborative approach was used to identify important infrastructural, social, and ecosystem metrics related to dams in the Lake Champlain Basin of NY. The project team formulated a methodology to prioritize dams for removal based on ecological benefit and expected community acceptance. Metrics and priorities were incorporated into an interactive screening tool, available to all partners and community members, that will facilitate the reconnection of fragmented stream networks in the Lake Champlain Basin.

A. Introduction

Trout Unlimited is a national non-profit organization with a mission to conserve, protect, and restore North America's cold-water fisheries and their watersheds. Our focus and strategy are to protect important habitat, reconnect degraded waterways and restore trout and salmon populations by bringing all parties to the table to find proactive solutions that meet the environmental challenges facing communities and the watersheds where we live. TU has been working with towns in NY and around the country to improve aquatic passage for cold-water fish through the removal of dams and inadequately sized culverts. We believe the best conservation work comes from true partnerships between landowners, agencies, non-profits, municipalities, and other stakeholders. TU will use our collaborative approach to help accelerate the removal of priority barriers in the New York portion of the Lake Champlain basin through the development of a web-based dam prioritization tool. The dam screening web-based tool will help identify and define the ecological benefits of removal, while also highlighting dam safety concerns, historic and community value and overall feasibility of dam removal. Dam removal projects are challenging. The TU

tool will incorporate both ecological and social metrics that will help us highlight and prioritize opportunities for removal projects. Being able to focus on feasible sites that provide the greatest ecological value with the least amount of opposition will help accelerate and highlight dam removal as a viable option for restoration.

Developing a strategy to improve ecosystem health through community supported priority barrier removals is in line with the mission of the Lake Champlain Basin Program (LCBP). The project will address LCBP priorities to conserve and restore native species and their habitat, improve water quality and promote flood resilience. Further, the results of the prioritization effort can leverage state and federal funds for implementation of on-the-ground aquatic restoration and reconnection projects.

Addressing aquatic barriers within the Lake Champlain basin can provide critical improvements to populations of Atlantic salmon, brook trout and many of the other 76 native fish species in the basin. The Nature Conservancy (TNC) has previously completed the Vermont Dam Screening Tool for the Lake Champlain Basin¹, but the New York side of the watershed, representing approximately 40% of the basin in the U.S., remains un-prioritized. Building upon the methods established by TNC, we will categorize each of the 211 known dams in the study area. The goal of the project is to develop a tool that can be used to help prioritize dam removal projects that have the highest ecological value, improve public safety, and are supported by the local community.

The TU team engaged project partners in a collaborative effort to identify metrics to consider in the development of the prioritization tool. Metrics were designed to consider infrastructure condition and community safety, watershed condition, ecosystem vulnerability and social and historic values. Infrastructure vulnerability metrics consider dam risk classification, land ownership, and potential flood impacts. Social metrics include the dam's historic value, land ownership and the current use of the upstream impoundment (recreation, drinking water, energy, etc.). Social metrics are included to better understand the potential for communities to support dam removal. Ecosystem metrics include land use, habitat condition, value of connectivity for ecosystem health and aquatic species of concern, and invasive species management. In addition, TU's Conservation Portfolio framework² was used as a screening tool to understand native brook trout populations in the basin.

The Conservation Portfolio applies the 3-R framework (Resiliency, Redundancy, and Representation) to evaluate each Eastern Brook Trout (EBT) population patch for its resiliency to disturbances, likelihood of demographic persistence, and representation of genetic, life history, and geographic diversity. The approach is grounded in one of the basic tenets of conservation biology: diversity provides stability³. Key data sources include the Eastern Brook Trout Joint Venture patch characteristics, stream habitat classification data, and models of stream temperature and brook trout probability of occurrence. The Conservation Portfolio will identify opportunities to reconnect isolated and marginal brook trout populations by increasing the size of habitat patches while also considering the movement potential of invasive species such as lamprey. While TU has already completed a Conservation Portfolio⁴ assessment for eastern brook trout using data sources applicable range-wide, a more focused analysis of populations within the Lake Champlain watershed using locally-specific data sources will result in a finer, more precise assessment of brook trout population diversity in the watershed. Atlantic salmon data was also incorporated into the prioritization strategy.

Additional metrics were developed after review of the existing data and meeting with project partners. Results from the prioritization exercise were presented in a web mapping application that stakeholders can use to assess opportunities for dam removal or other habitat reconnection projects.

B. Project Timeline

Table 1. Project Workplan and Timeline – October 2020-October 2022

Task #	Task Title	Objective	Deliverable or Output	Timeline
1	Establish Screening Tool Goals and Community Outreach	Engage community and partners and the NY-LCB Dam Task Force in the development of the dam screening tool.	3-5 Community meetings to collect and identify existing data, determine metrics and develop project strategy	October-March 2022 COMPLETE
2	Identify Metrics and Prioritization Scheme	Develop a prioritization strategy that will consider both social and ecosystem metrics.	Prioritization metrics identified	October-May 2022 COMPLETE
3	Develop QAPP & Collect Data	QAPP is complete and approved. Data analyzed according to prioritization strategy.	Approved QAPP	October – October 2021 COMPLETE
4	Draft Screening Tool Development	Community members and partners will be able to query multiple objectives in order to identify priority barrier removal projects that will achieve ecosystem improvements.	Draft dam screening tool and user guide developed	April 2021 - July 2022 COMPLETE
5	Final Screening Tool Development & Dissemination	Final screening tool hosted online	Final dam screening tool and user guide	July 2021- July 2022 COMPLETE

6	Grant Management and reporting	Grant managed according to NEIWPC and TU requirements.	Quarterly reports submitted Approved final report submitted	Quarterly reports due 10 days following end of each calendar quarter Draft final report due October 30, 2022 COMPLETE
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C. Task Descriptions

The objective of the LC Dam Screening Project is to design a user-friendly tool individuals, groups and organizations can use to identify feasible dam removal projects that meet a variety of objectives.

Task 1. Establish Screening Tool Goals and Community Outreach

TU will engage with community members and partners in the development of the dam screening tool. The New York Lake Champlain Basin Dam (NY-LCB) Dam Task Force will be our main partner outreach mechanism and will help guide development of the tool. The TU team will meet with the group three times to discuss the project. The timing of consultation with the group will include an initial meeting to review metric ideas and strategies for the project. The next meeting will take place following the initial data screening and then another consultation with the group prior to finalizing the tool. Other organizations, municipalities and partners that are not represented by the NY-LCB Dam Task Force will also be consulted for input and feedback.

Status: **COMPLETE**

- Initial outreach to the NY-LCB Dam Task Force is complete.
- Initial outreach to the VT-LCB Dam Task Force is complete.
- Feedback from the meeting was disseminated and discussed with the project team.

Task 2. Identify Metrics and Prioritization Scheme

Working with our partners, TU will identify ecological and social metrics be used to develop a prioritization process for the dam screening exercise.

Status: **COMPLETE**

- Draft prioritization metrics complete following NY-LCB Dam Task Force meeting.
- Members from VT-LCB Dam Task Force supplied additional feedback to be incorporated into the tool.
- Completed building of habitat patches for base map for the tool development.
- Majority of the tool data sets have been identified and incorporated; we are still waiting on one tool being developed by USGS that will help us define floodplain extent. Once this tool has been released, we will include it in our effort and be ready to provide draft tool.

Task 3. Develop QAPP & Collect Data

Describe quality assurance procedures that will maintain project performance. Collect data to support

prioritization strategy.

Status: **COMPLETE**

- QAPP draft version 2 complete, signed and distributed
- Datasets have been identified and gathered and additional municipality landowner data acquired through NYS Clearinghouse.

Task 4. Draft Screening Tool Development

Community members and partners will be able to query multiple objectives to identify priority barrier removal projects that will achieve ecosystem improvements.

Status: **COMPLETE**

- Screening tool functionality developed.

Task 5. Final Screening Tool Development & Dissemination

TU will develop a tool to screen dam removal projects using a variety of ecosystem and community-based metrics. Present user-friendly online web-based dam screening and visualization tool for stakeholders. The tool will be structured around an interactive map interface and will be hosted on ArcGIS Online, a public-facing ArcGIS cloud server environment, for at least five years following the conclusion of the project. It will be maintained under Trout Unlimited's ArcGIS Enterprise portal and will be accessible online permanently through the tu.org website. Updates to the tool will be completed periodically as needed and recommended by the Lake Champlain Technical Advisory Committee.

Status: **COMPLETE**

- Published DRAFT tool in ArcGIS Enterprise and solicited feedback from partners through an online survey and email communications (Appendix A).
- Published FINAL "[Lake Champlain Basin, New York Barrier Prioritization Tool](#)" and User Guide (Appendix B).
- [Removed/Remediated Barrier Information Survey](#) created to help TU update the map as barriers are removed or remediated throughout the Lake Champlain Basin, NY.

Task 6: Grant Management and reporting

TU will manage the grant according to defined NEIWPC requirements which will include quarterly status reports, task-based invoices, and final reporting.

Status: **COMPLETE**

- 1st quarterly report submitted. No invoice will be submitted at this time.
- 2nd quarterly report submitted. No invoice will be submitted at this time.
- 3rd quarterly report submitted. No invoice will be submitted at this time.
- Invoice #1 submitted 12/3/2021.
- 4th quarterly report submitted. No invoice will be submitted at this time.
- 1st quarterly report submitted. Invoice #2 will be submitted at this time.
- 2nd quarterly report submitted.
- Invoice #3 submitted 8/11/2022
- Final Report Submitted 10/10/2022

Appendix A (attached): Feedback survey results

Appendix B (attached): User guide

Feedback Survey for Trout Unlimited's Lake Champlain Barrier Screening Tool

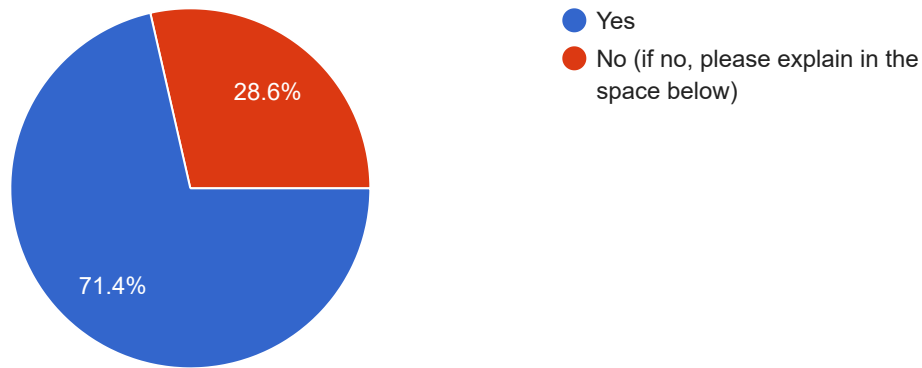
7 responses

[Publish analytics](#)

Upon opening the tool, were the "Welcome" and other introductory slides adequate to present the app interface and supporting materials?



7 responses



Please explain the changes you would like to see made to the introductory slides to better present the tool and supporting materials.

4 responses

N/A

adequate

I somehow missed the importance of the +App Resources when I clicked through those first 3 pop up slides. I went straight to the filters and didn't click on the +App Resources button for several minutes. Maybe put +App Resources as the second slide, instead of third, for those with short attention spans.

Add "aquatic," "stream/river" or some other words to make it clear what this is about. "Barrier" might not be clear if someone is landing there for the first time

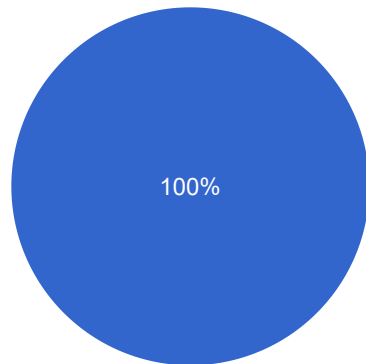
Slide two showing the left panels - the image of the panels is not legible, can probably remove



App Resources - Did you view the "+ App Resources" at the top right of the tool interface?



7 responses

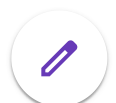
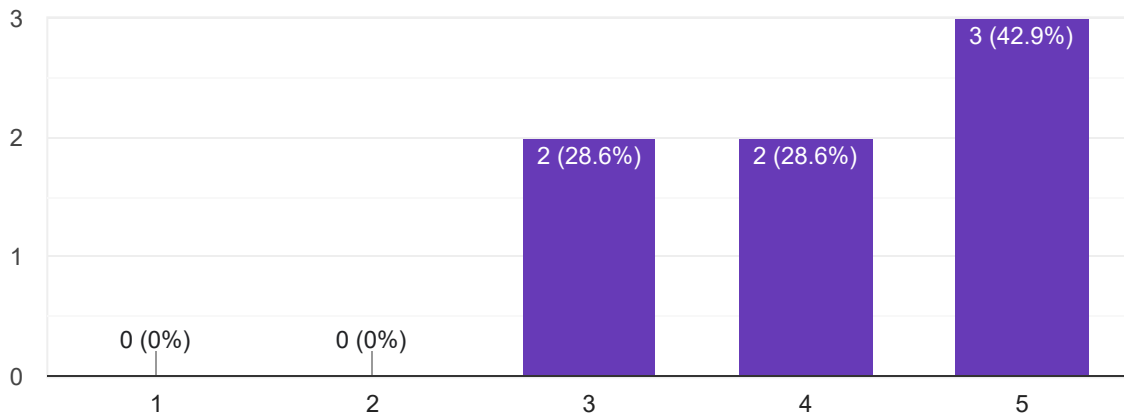


- Yes (please answer the following 5 questions)
- No (skip the next 5 questions)

+ App Resources - Rank your experience with the "Background Information" section. (Rankings below are on a scale of 1 to 5 - 1 being the least helpful or difficult to use and 5 being most helpful or easy to use.)



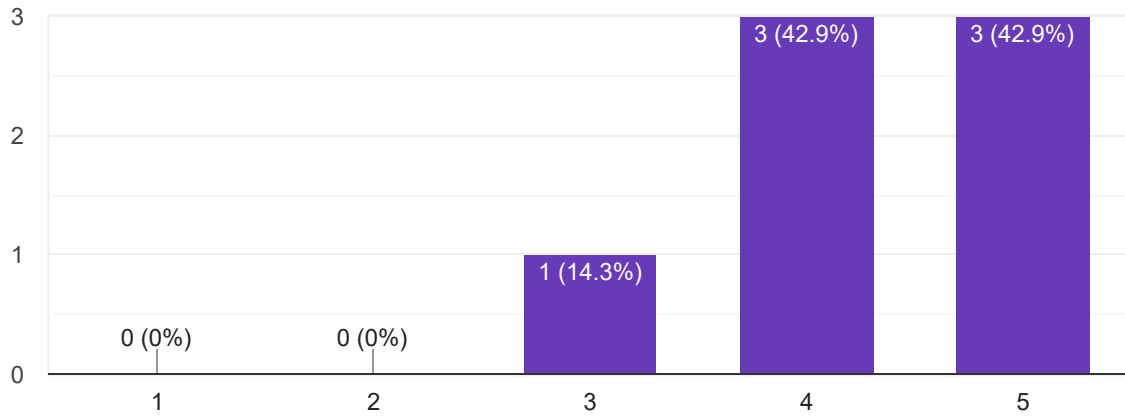
7 responses



+ App Resources - Rank your experience with the "Ranking Thresholds" section.



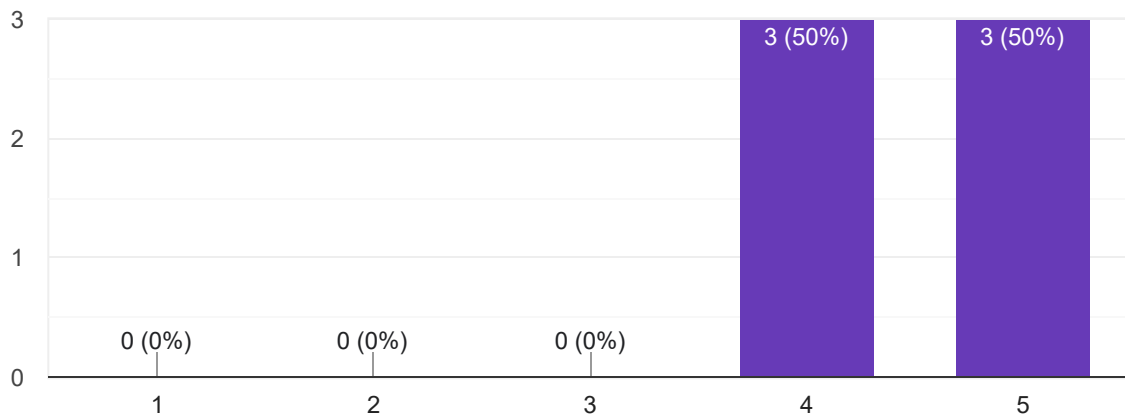
7 responses



+ App Resources - If accessible, rank your experience with the "User Guide" section.



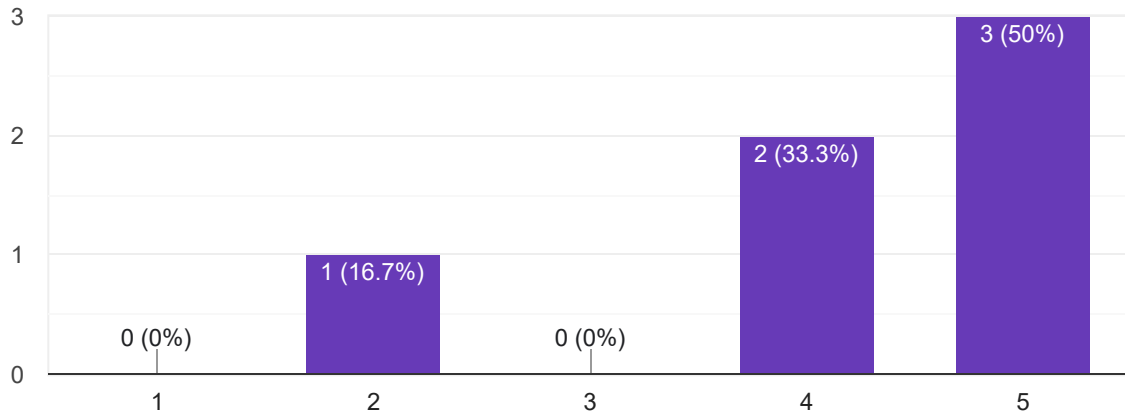
6 responses



+ App Resources - Rank your experience with the "Potentially Affected Parcels" section.



6 responses



+ App Resources - If selecting 3 or less for any of the above responses, please describe what was not helpful or easy to use in relation to the app resources.

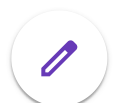
4 responses

The User Guide section, within the App Resources, was not available upon me completing the survey.

Background info - page loaded, but content was missing. Looks like there were supposed to be maps, but they didn't load

I think a short video of the user guide would be helpful or a link to a video with the introductory slides?

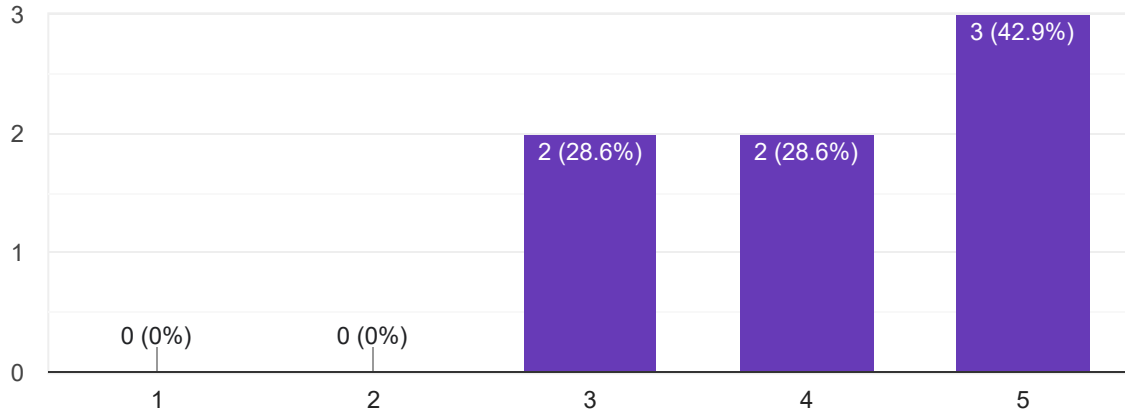
I haven't been able to make Parcel viewer "sing." I was noodling around trying to get parcels to come up relative to Davis Lake Dam (state ID?) on the Salmon River. When I click on stuff, the map zooms out to full basin scale. I zoom back in, start the process again, and it zooms out to full basin scale again. Sorry to be dense.



Please rank your experience when utilizing the "Filter Barriers" section of the tool. 1 indicates you either didn't use this section or did not find it useful. 5 indicates that you found the section most useful and easy to use.



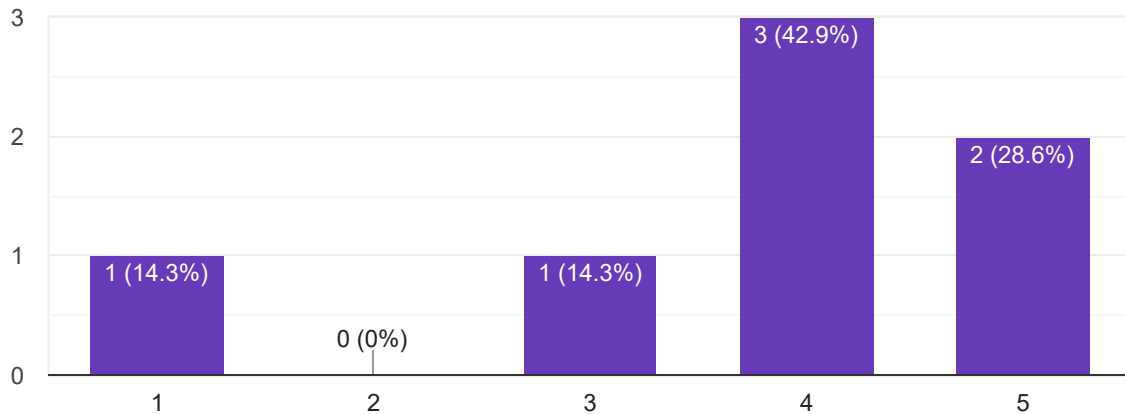
7 responses



Please rank your experience when utilizing the "Filter Patches" section of the tool. 1 indicates you either didn't use this section or did not find it useful. 5 indicates that you found the section most useful and easy to use.



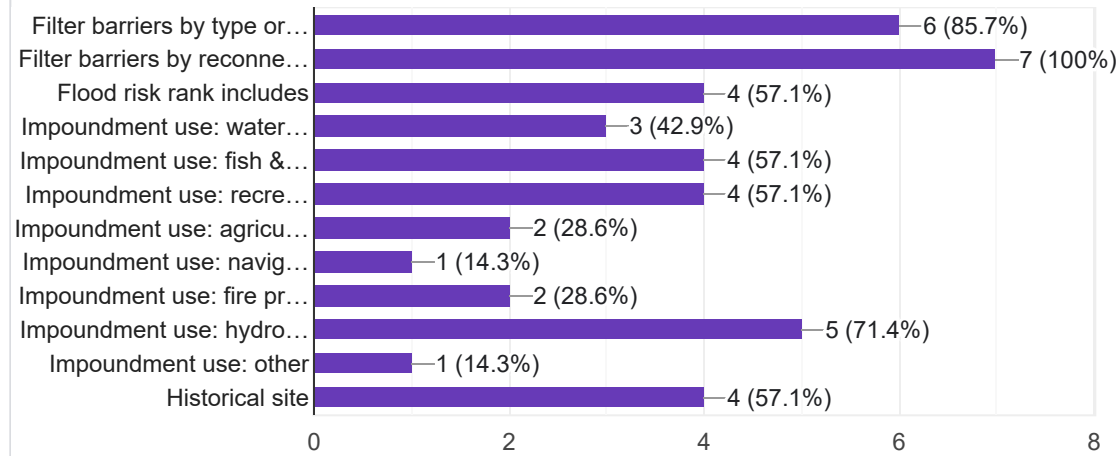
7 responses



Filter Barriers - Please check boxes next to each of the filters you found (or will find) MOST useful for prioritizing barriers for removal/remediation.



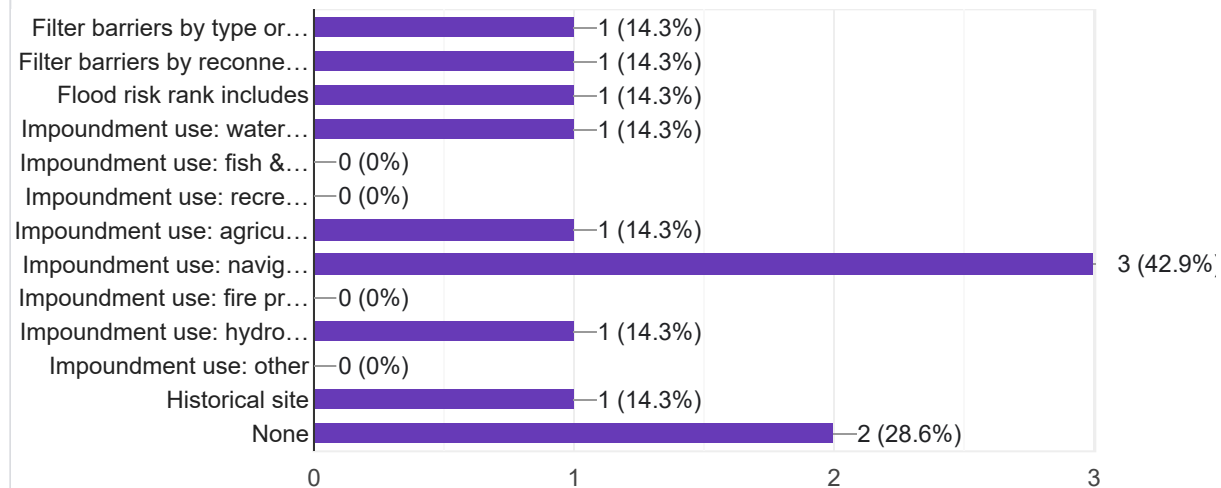
7 responses



Filter Barriers - Please check boxes next to each of the filters you found (or will find) LEAST useful for prioritizing barriers for removal/remediation.



7 responses



Filter Barriers - Please elaborate on your previous response. If there was anything confusing about the filters or attributes you feel are important to add here, please let us know in the following space.

7 responses

It was somewhat confusing to have impoundment use filters available when I was prioritizing road-stream crossings.

Packed with info.

na

Choosing each score 1 - 5 could be clearer. It seems that 1 means most important, 5 is least, but I find this counterintuitive. Can you change the label so instead of choosing "1," you're choosing "1 - highest restoration potential," then 2-4 are just numbers, than "5 - lowest restoration potential" ? These 1 -5 scores could be clearer throughout all filtering options

I had to keep looking back to find what some of the filter numbers referred to.

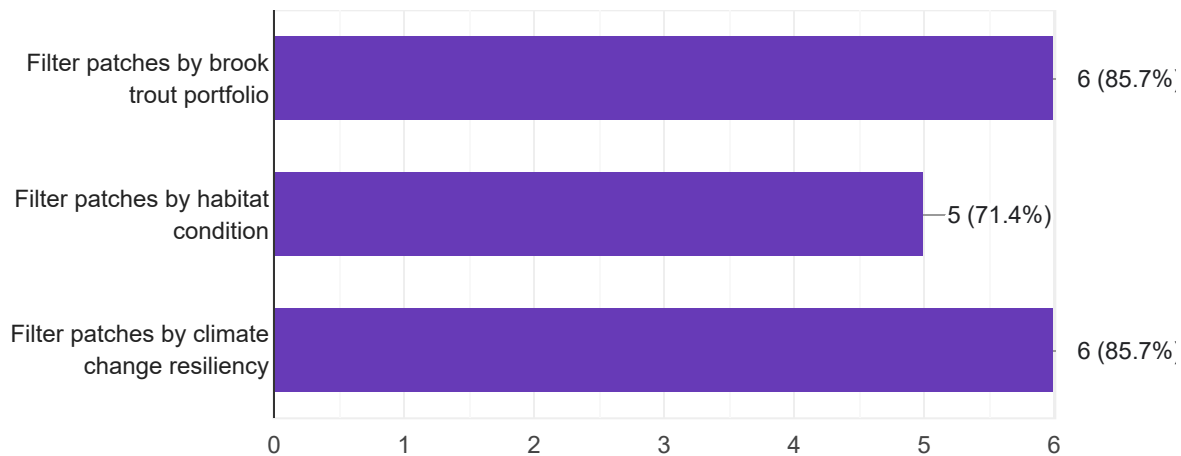
All of the filter barriers worked well for me!

None

Filter Patches - Please check boxes next to each of the filters you found (or will find) MOST useful for prioritizing barriers for removal/remediation.



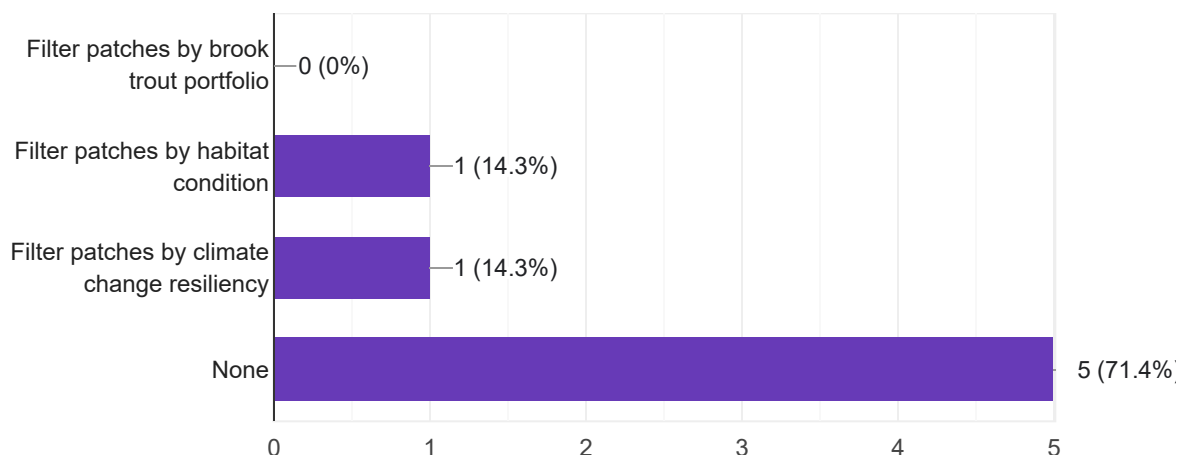
7 responses



Filter Patches - Please check boxes next to each of the filters you found (or will find) LEAST useful for prioritizing barriers for removal/remediation.



7 responses



Filter Patches - Please elaborate on your previous response. If there was anything confusing about the filters or attributes you feel are important to add here, please let us know in the following space.

7 responses

Editorial - Filter patches by Climate Change Resiliency

Immediate reaction needed on brook trout and habit, climate not so much.

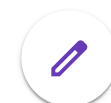
Some filter patches have an explanation of what the 1 to 5 scale means; others do not. Stream temperature category rank did not, so I'm not sure which to select. I later found the explanations in the +App Resources.

I like the feature

Seemed to be intuitive

The filters worked for me!

No complaints



Please run through a sample scenario based on your objectives. Let us know how this went. Did the interface and filters make it easy for you to determine a priority or list of priorities for barrier remediation? If this process was not easy for you or does not allow for selecting based on your objectives, please let us know specifically what additions or changes you feel would improve the tool.

7 responses

This works great, I would just like to ask if there is a way to print out a list (containing attributes) for each of the barriers that are a result of the filters I've applied.

Lot of info, great job putting this together so it can be used as a screening and action tool.

The process was pretty easy.

Really great job. I think this will be a useful tool for people trying to find quality projects, and especially for making the case for the projects in grant proposals. Let me know if I can provide more info on my feedback as you revise. - Matt Vaughan

Need more time

I think the tool is terrific, it appears complex to the layperson and therefore might be best utilized by practitioners but all of the tools appear useful and function well!

See comments about Davis Lake Dam above. I guess my objective was to ID parcels upstream/downstream from the dam at Macomb State Park. Couldn't figure it out. My question/objective is probably not the intent of the tool, so maybe ignore my feedback.

This content is neither created nor endorsed by Google. [Report Abuse](#) - [Terms of Service](#) - [Privacy Policy](#).

Google Forms

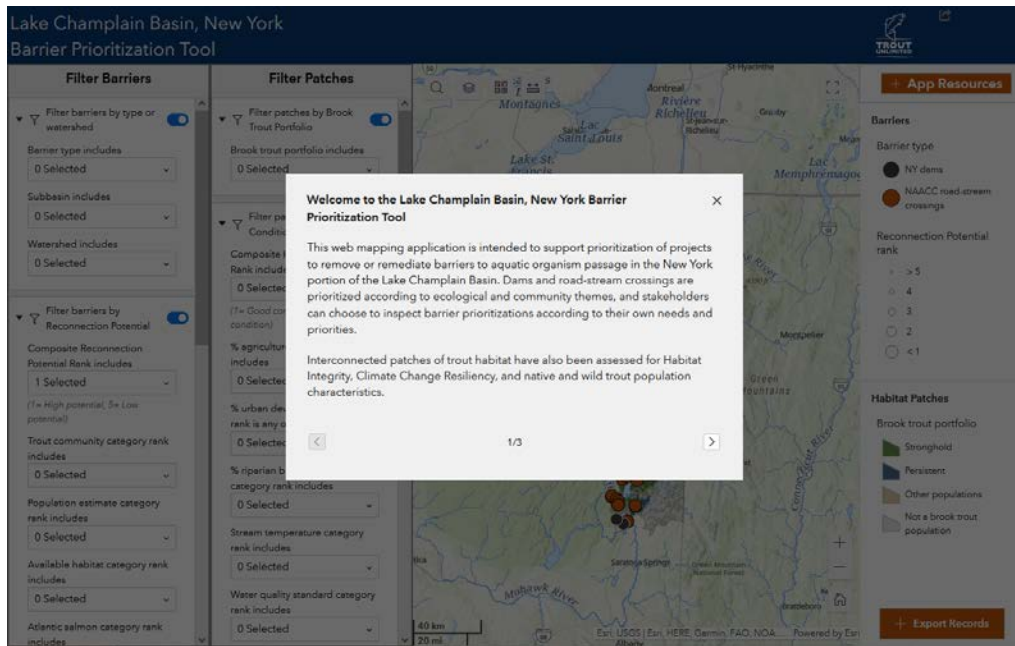




***Lake Champlain Basin, New York
Barrier Screening Tool
Quick Start Guide***

Technical contact: Matt Mayfield, matthew.mayfield@tu.org
Program contact: Jacob Fetterman, jacob.fetterman@tu.org

Load the mapping application in a web browser



arcg.is/u4fz9

Upon loading in the web browser, the initial view will be a splash screen briefly introducing the application and some tips for using it. Step through the tip screens then click the X at upper right to dismiss.

An overview of the Barrier Prioritization Tool interface

Lake Champlain Basin, New York Barrier Prioritization Tool

1. 2. 3. 4.

Filter Barriers

Filter barriers by type or watershed

Barrier type includes
0 Selected

Subbasin includes
0 Selected

Watershed includes
0 Selected

Filter barriers by Reconnection Potential

Composite Reconnection Potential Rank includes
1 Selected
(1= High potential, 5= Low potential)

Trout community category rank includes
0 Selected

Population estimate category rank includes
0 Selected

Available habitat category rank includes
0 Selected

Atlantic salmon category rank includes

Filter Patches

Filter patches by Brook Trout Portfolio

Brook trout portfolio includes
0 Selected

Filter patches by Habitat Condition

Composite Habitat Condition Rank includes
0 Selected
(1= Good condition, 5= Poor condition)

% agriculture category rank includes
0 Selected

% urban development category rank is any of
0 Selected

% riparian buffer forested category rank includes
0 Selected

Stream temperature category rank includes
0 Selected

Water quality standard category rank includes
0 Selected

Map

1. Search locations

2. Toggle map layer visibility

3. Change the basemap

4. Measure

Fullscreen mode

Zoom map, return to initial view

40 km
20 mi

Esri, USGS | Esri, HERE, Garmin Albany

Links to supporting documents and apps

+ App Resources

Barriers

Barrier type

- NY dams
- NAACC road-stream crossings

Reconnection Potential rank

- > 5
- 4
- 3
- 2
- < 1

Habitat Patches

Brook trout portfolio

- Stronghold
- Persistent
- Other populations
- Not a brook trout population

Map Legend

+ Export Records

Filter map features

Export filtered barrier and patch records

App Resources

1. Background information

- Opens a story map with background information about the assessment

2. Ranking Thresholds

- View a document describing data sources and ranking thresholds for barriers and patches

3. User Guide

- Download this user guide

4. Potentially Affected Parcels

- View a standalone map to view parcels adjoining impoundments or downstream of dams

5. Report a Removed or Remediated Barrier

- Submit details on barriers that have been removed or remediated so that the map can be updated

Lake Champlain Basin, New York Barrier Prioritization Tool

Filter Barriers

- Filter barriers by type or watershed
- Barrier type includes: 0 Selected
- Subbasin includes: 0 Selected
- Watershed includes: 0 Selected
- Filter barriers by Reconnection Potential
- Composite Reconnection Potential Rank includes: 1 Selected
- (1= High potential, 5= Low potential)
- Trout community category rank includes: 0 Selected
- Population estimate category rank includes: 0 Selected
- Available habitat category rank includes: 0 Selected
- Atlantic salmon category rank includes: 0 Selected

Filter Patches

- Filter patches by E Trout Portfolio
- Brook trout portfolio includes: 0 Selected
- Filter patches by H Condition
- Composite Habitat Condition Rank includes: 0 Selected
- (1= Good condition, 5= poor condition)
- % agriculture category rank includes: 0 Selected
- % urban development category rank is any of: 0 Selected
- % riparian buffer forest category rank includes: 0 Selected
- Stream temperature category rank includes: 0 Selected
- Water quality standard category rank includes: 0 Selected

Background Information 1. [Open](#)

View a story map with background information about the assessment

Ranking Thresholds 2. [Open](#)

View a document describing data sources and ranking thresholds for barriers and patches

User Guide 3. [Open](#)

View a user guide with tips for using the map application

Potentially Affected Parcels 4. [Open](#)

View a map to explore parcels adjoining impoundments or downstream of dams

Report a Removed or Remediated Barrier 5. [Open](#)

Complete a quick survey

[Return to the Barrier Screening Tool](#)

[Return to the Parcel Viewer](#)

App Resources

Barriers

- Barrier type
- NY dams
- NAACC road-stream crossings

Reconnection Potential rank

- > 5
- 4
- 3
- 2
- < 1

Habitat Patches

- Brook trout portfolio
- Stronghold
- Persistent
- Other populations
- Not a brook trout population

[Export Records](#)

Esri, USGS | Esri, HERE, Garmin, FAO, NOAA... Powered by Esri Albany

Map Filters

The two panes on the left of the application allow you to filter map features to focus on barriers or patches that are of most interest to you.

Map features that satisfy *all* selected filters will be displayed.

By default, barriers are pre-filtered to display only those that are of the highest priority ranking for Reconnection Potential.

Filter Barriers

Filter barriers by type or watershed

Barrier type includes
0 Selected

Subbasin includes
0 Selected

Watershed includes
0 Selected

Filter barriers by Reconnection Potential

Composite Reconnection Potential Rank includes
1 Selected

Search

1- Highest reconnection potential
 2
 3
 4
 5- Lowest reconnection potential

includes
0 Selected

Atlantic salmon category rank includes

Filter Patches

Filter patches by Brook Trout Portfolio

Brook trout portfolio includes
0 Selected

Filter patches by Habitat Condition

Composite Habitat Condition Rank includes
0 Selected
(1= Good condition, 5= Poor condition)

% agriculture category rank includes
0 Selected

% urban development category rank is any of
0 Selected

% riparian buffer forested category rank includes
0 Selected

Stream temperature category rank includes
0 Selected

Water quality standard category rank includes
0 Selected

Barriers

Barrier type

- NY dams
- NAACC road-stream crossings

Reconnection Potential rank

- > 5
- 4
- 3
- 2
- < 1

Habitat Patches

Brook trout portfolio

- Stronghold
- Persistent
- Other populations
- Not a brook trout population

App Resources

Export Records

Esri, USGS | Esri, HERE, Garmin, FAO, NOAA... Powered by Esri

Map Filters

Barriers

- Filter barriers by type or watershed
 - Type
 - Subbasin
 - Watershed
- Filter barriers by Reconnection Potential
 - Composite Reconnection Potential Rank
 - Trout community category rank
 - Population estimate category rank
 - Available habitat category rank
 - Atlantic salmon category rank
 - Invasive species category rank
- Flood Risk Rank
- Impoundment Use
 - Water supply
 - Fish & wildlife
 - Recreation
 - Agriculture
 - Navigation
 - Fire protection
 - Hydroelectric
 - Other

Patches

- Filter patches by Brook Trout Portfolio
- Filter patches by Habitat Condition
 - Composite Habitat Condition Rank
 - % agriculture category rank
 - % urban development category rank
 - % riparian buffer forested category rank
 - Stream temperature category rank
 - Water quality standard category rank
- Filter patches by Climate Change Resiliency
 - Composite Climate Change Resiliency Rank
 - Probability of brook trout decline, 2062 category rank
 - Probability of restoration benefit, 2062 rank
 - Probability of brook trout occurrence, 2087 rank

Export Records

The Export Records button at far lower right will allow you to export a table of the barriers or habitat patches that you have filtered in the map.

Filter the map features as you like then choose Export Records to open a new window. Choose 'Barriers' or 'Habitat Patches' at top then use the menu (☰) at upper right to choose 'Export to .csv'

**Lake Champlain Basin, New York
Barrier Prioritization Tool**

Filter Barriers

- Filter barriers by type or watershed
- Barrier type includes: 0 Selected
- Subbasin includes: 0 Selected
- Watershed includes: 0 Selected
- Filter barriers by Reconnection Potential
- Composite Reconnection Potential Rank includes: 1 Selected
- (1= High potential, 5= Low potential)
- Trout community category rank includes: 0 Selected
- Population estimate category rank includes: 0 Selected
- Available habitat category rank includes: 0 Selected
- Atlantic salmon category rank includes: 0 Selected

Filter Patches

- Filter patches by Brook Trout Portfolio
- Brook trout portfolio includes: 0 Selected
- Filter patches by Habitat Condition
- Composite Habitat Condition Rank includes: 0 Selected
- (1= Good condition, 5= Poor condition)
- % agriculture category rank includes: 0 Selected
- % urban development category rank is any of: 0 Selected
- % riparian buffer forested category rank includes: 0 Selected
- Stream temperature category rank includes: 0 Selected
- Water quality standard category rank includes: 0 Selected

Export Menu:

- Export to JSON
- Export to CSV
- Export to GeoJSON
- Export all

naacc-18	NAAC
naacc-19	NAAC
naacc-22	NAAC
naacc-30	NAAC
naacc-32	NAAC
naacc-41	NAAC
naacc-102	NAAC
naacc-107	NAAC
naacc-110	NAAC
naacc-111	NAAC
naacc-112	NAAC
naacc-113	NAAC
naacc-114	NAAC
naacc-115	NAAC
naacc-120	NAAC

Export Records: Choose 'Barriers' or 'Habitat Patches' above. Only barriers or patches that meet the filtered criteria will be selected. Use the menu at upper right to export records to a .csv file.

[Return to the Barrier Screening Tool](#)

Map Popups

Clicking on map features will result in a popup displaying information about the feature. There are often multiple overlapping map features. In this case there will be an indication (x of xx) in the lower right. Click the arrows to cycle through overlapping map features. The currently selected feature will be highlighted in cyan.

In addition to basic descriptions of barriers or patches, popups also contain prioritization rankings and supporting metrics.

**Lake Champlain Basin, New York
Barrier Prioritization Tool**

Filter Barriers

- Filter barriers by type or watershed
- Barrier type includes: 0 Selected
- Subbasin includes: 0 Selected
- Watershed includes: 0 Selected
- Filter barriers by Reconnection Potential
- Composite Reconnection Potential Rank includes: 1 Selected (1= High potential, 5= Low potential)
- Trout community category rank includes: 0 Selected
- Population estimate category rank includes: 0 Selected
- Available habitat category rank includes: 0 Selected
- Atlantic salmon category rank includes: 0 Selected

Filter Patches

- Filter patches by Brook Trout Portfolio
- Brook trout portfolio includes: 0 Selected
- Filter patches by Habitat Condition
- Composite Habitat Condition Rank includes: 0 Selected (1= Good condition, 5= Poor condition)
- % agriculture category rank includes: 0 Selected
- % urban development category rank is any of: 0 Selected
- % riparian buffer forested category rank includes: 0 Selected
- Stream temperature category rank includes: 0 Selected
- Water quality standard category rank includes: 0 Selected

Habitat Patches

Habitat Condition Rank: 3

% agriculture:	11.37%
% agriculture rank:	4
% urban development:	3.12%
% urban development rank:	3
% riparian buffer forested:	79.80%

1 of 2

Barriers

Barrier type

- NY dams
- NAACC road-stream crossings

Reconnection Potential rank

- > 5
- 4
- 3
- 2
- < 1

Habitat Patches

Brook trout portfolio

- Stronghold
- Persistent
- Other populations
- Not a brook trout population

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+ Export Records

Map Popups

Popups for dams have a hyperlink at the bottom which will open the Potentially Affected Parcels map (also accessible from the App Resources window). Note the dam's State ID, or copy it to your clipboard in order to apply filters on the Potentially Affected Parcels map.

**Lake Champlain Basin, New York
Barrier Prioritization Tool**

Filter Barriers

- Filter barriers by type or watershed
- Barrier type includes: 0 Selected
- Subbasin includes: 0 Selected
- Watershed includes: 0 Selected
- Filter barriers by Reconnection Potential
- Composite Reconnection Potential Rank includes: 1 Selected (1= High potential, 5= Low potential)
- Trout community category rank includes: 0 Selected
- Population estimate category rank includes: 0 Selected
- Available habitat category rank includes: 0 Selected
- Atlantic salmon category rank includes: 0 Selected

Filter Patches

- Filter patches by Brook Trout Portfolio
- Brook trout portfolio includes: 0 Selected
- Filter patches by Habitat Condition
- Composite Habitat Condition Rank includes: 0 Selected (1= Good condition, 5= Poor condition)
- % agriculture category rank includes: 0 Selected
- % urban development category rank is any of: 0 Selected
- % riparian buffer forested category rank includes: 0 Selected
- Stream temperature category rank includes: 0 Selected
- Water quality standard category rank includes: 0 Selected

NY dams

[View upstream impoundment parcels and downstream parcels in a new window](#)

**Please note or copy this dam's State ID (219-0431) in order to filter and zoom the Impoundment Parcels map to the proper impoundment.*

Barriers

- Barrier type
 - NY dams
 - NAACC road-stream crossings
- Reconnection Potential rank
 - > 5
 - 4
 - 3
 - 2
 - < 1

Habitat Patches

- Brook trout portfolio
 - Stronghold
 - Persistent
 - Other populations
 - Not a brook trout population

https://trout.maps.arcgis.com/apps/mapviewer/index.html

Potentially Affected Parcels map

Once you've entered a dam's State ID into the impoundment parcels filter the map will filter and zoom to the parcels adjoining the dam's impoundment.

Parcel boundaries are displayed as a background image. Impoundment parcels are represented by purple centroid points. Click the points for a popup displaying information about the parcel.

The floodplain as depicted by the USFS National Riparian Map are displayed in dark green to help indicate which parcels lie immediately downstream of the dam.

Lake Champlain Basin, New York Barrier Assessment Tool Parcel Viewer

▼ Impoundment parcels

State ID is

Begin typing to search

+ Tips for using the parcel viewer

< Return to Barrier Screening Tool

+ App Resources

- Barriers
 - Barrier type
 - NY dams
- Impoundment parcels
 -
- USFS National Riparian Map
 - usfsRiparian
 - Existing and Potential Riparian Ecotones
- Champlain parcels
 - Owner parcels
 -
- Habitat Patches
 - Brook trout portfolio
 - Stronghold
 - Persistent
 - Other populations
 - Not a brook trout population

1 km 1 mi Esri, NASA, NGA, USGS, FEMA | Esri, HERE, Garmin, SafeGraph, GeoTech... Powered by Esri

Report a Removed or Remediated Barrier

If a barrier on the map has been removed or remediated, please use the survey to send details of this action to Trout Unlimited. The survey asks for basic information about the barrier that has been treated and should only take a few minutes to complete.

TU staff will review the information and update the map periodically. This information will allow us to maintain and present the most up-to-date conservation status of Brook trout in the Lake Champlain basin in the future.

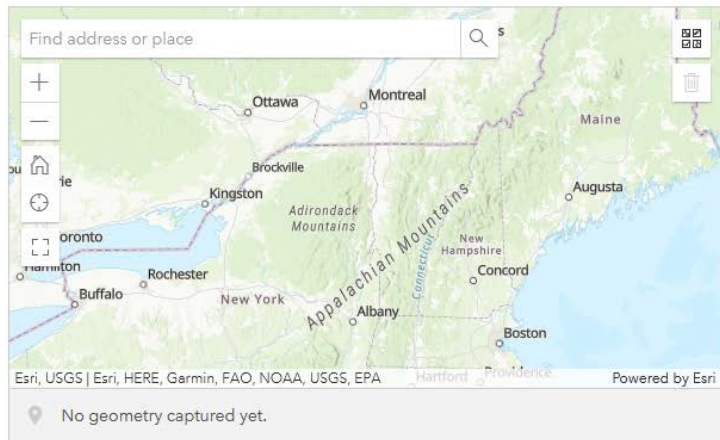
Removed/Remediated Barrier Information

Please submit barriers that you and/or partner organizations have removed or remediated within the Lake Champlain Basin, NY. This information will be utilized to update the [Prioritization Tool](#) developed by Trout Unlimited, through Lake Champlain Basin Program funding.

*For each removed/remediated barrier, please complete a new survey.

Where was the barrier you removed or remediated?*

Input coordinates or zoom in to your project location.



What type of barrier was remediated?*

Dam