

Aquatic Biodiversity in the Tennessee River and tributaries



Grade 6 Science

The background of the slide is a photograph of several fish, likely trout or salmon, swimming in clear, shallow water. The water is a vibrant blue-green color, and the rocky riverbed is visible beneath the surface. The fish are in various positions, some swimming towards the left and others towards the right. A semi-transparent dark blue rectangular box is centered horizontally across the middle of the image, containing the text 'ACTIVITY 1' in a light yellow, serif font.

ACTIVITY 1

Turn
&
Talk

What do you think
biodiversity means?



Why is
biodiversity
important?

Bio = life
Diverse = variety

FOCUS QUESTION

How have humans impacted
Sequatchie Caddisfly's role in
Tennessee's biodiversity?



Check for
Understanding

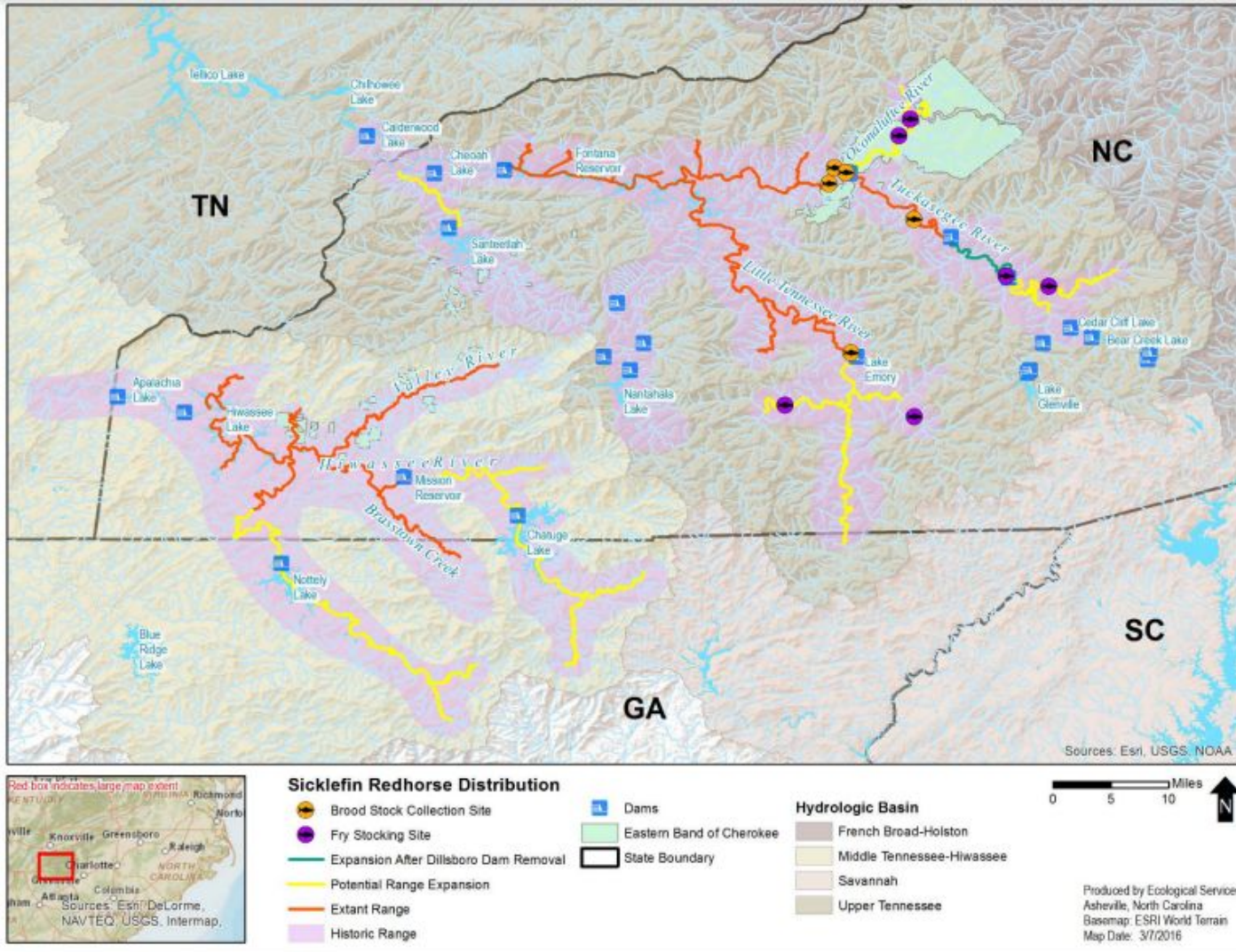
What is the cause and
effect relationship
between humans and the
Sequatchie Caddisfly?

The background of the slide is a photograph of several fish, likely trout or salmon, swimming in clear, shallow water. The water is a vibrant blue-green color, and the bottom is composed of light-colored rocks and some green algae. The fish are in various positions, some swimming towards the left and others towards the right. A semi-transparent dark blue rectangular box is centered horizontally across the middle of the image, containing the text "ACTIVITY 2" in a light yellow, serif font.

ACTIVITY 2

What do
you
notice?

What do
you
wonder?



FOCUS QUESTION

How can we save the
sicklefin redhorse?





ACTIVITY 3



Fish are an integral species in the aquatic biodiversity found in the Tennessee River and its tributaries. They are often bio indicator species communicating the health of an ecosystem.

RESEARCH TASK



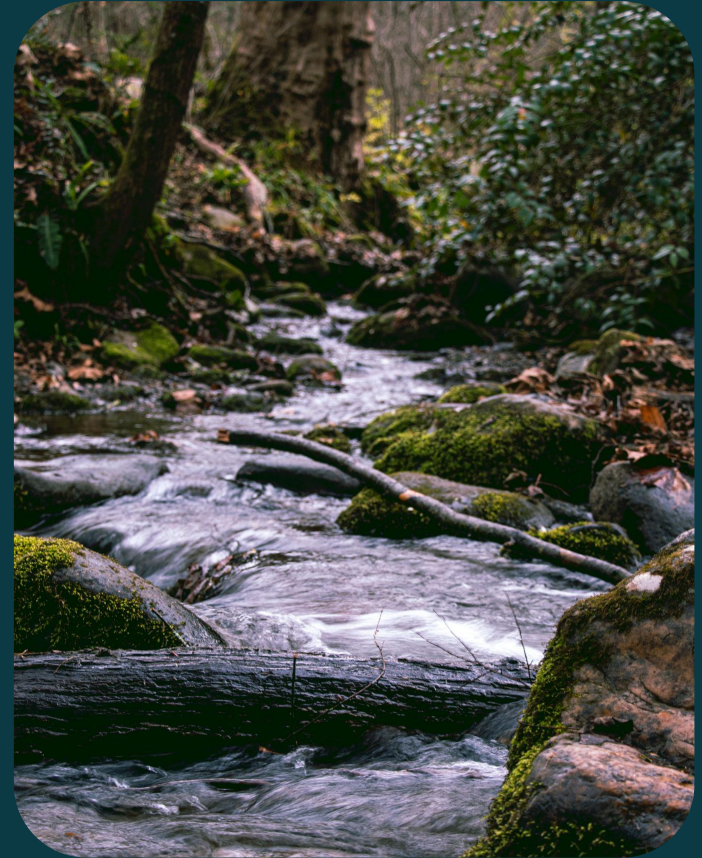
Congratulations on
your new job as a TVA
fisheries biologist!

You have been tasked with
telling the story of a fish
found in the TN River or its
tributaries and explain how
changes in biodiversity
impact an ecosystem and
natural resources.

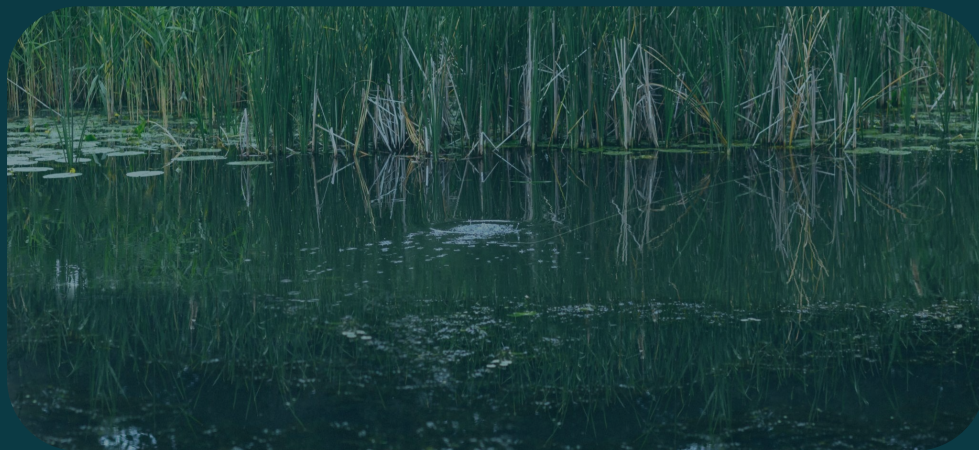


Research & Presentation Rubric

Research & Presentation rubric		Demonstrates Proficiency
Minimum Requirement	<input type="checkbox"/> I presented findings about my research in 3-5 minutes.	
Science Standard(s)	6.LS.4.1) Explain how changes in biodiversity would impact ecosystem stability and natural resources.	<input type="checkbox"/> Minimum requirement(s) <input type="checkbox"/> I explained how removal of a fish species would affect an ecosystem and natural resources.
Process Skill: Communication English Language Arts Standard	6.SL.PK1.4 Present claims and findings, sequencing ideas logically and using pertinent descriptions, facts, and details to accentuate main ideas or themes; use appropriate eye contact, adequate volume, and clear pronunciation.	<input type="checkbox"/> I presented my research findings using eye contact, in an adequate volume, and with clear pronunciation. <input type="checkbox"/> The presentation included relevant information (facts, statistics, descriptions) to emphasize the importance of the fish in its ecosystem.



STEM Ready



This lesson was designed for TVA.

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