Mukwonago River Watershed Protection Planning Program

Meeting Agenda

Welcome and Introductions of Project Partners

- Brief description of field inventory work completed to date
- Review of proposed outline and content
- Identification of issues and concerns
- Creation of working group(s)
- Timeline for completion

Partners

A Joint Effort of the: Eagle Spring Lake Management District, Phantom Lakes Management District, The Nature Conservancy, Friends of the Mukwonago River, Wisconsin Lutheran College, Carroll University, Wisconsin Department of Natural Resources, and SEWRPC

Funded in part through a Chapter NR 195 River Protection Grant

Planning Goals

To provide both for the ongoing human use of the lake and stream systems of the Mukwonago River and protect the character and integrity of these exceptional and outstanding resource waters.

To promote the essential hydrological structure and function of the Mukwonago River.

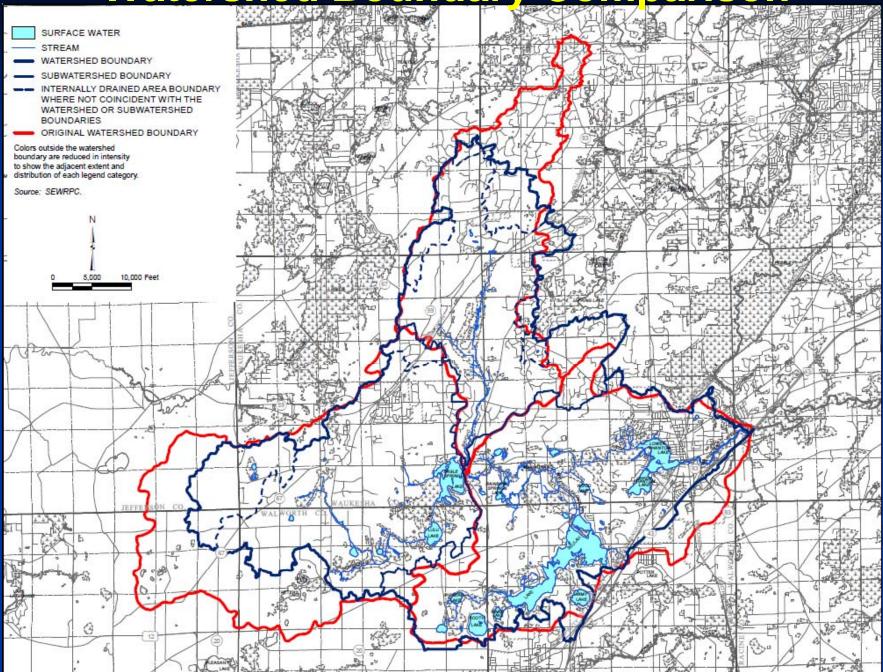
To facilitate the maintenance of wetland and wildlife habitat within the designated environmental corridors riparian to the Mukwonago River and its associated Lakes.

To encourage public knowledge and understanding of the River's component ecosystems.

Meeting Agenda

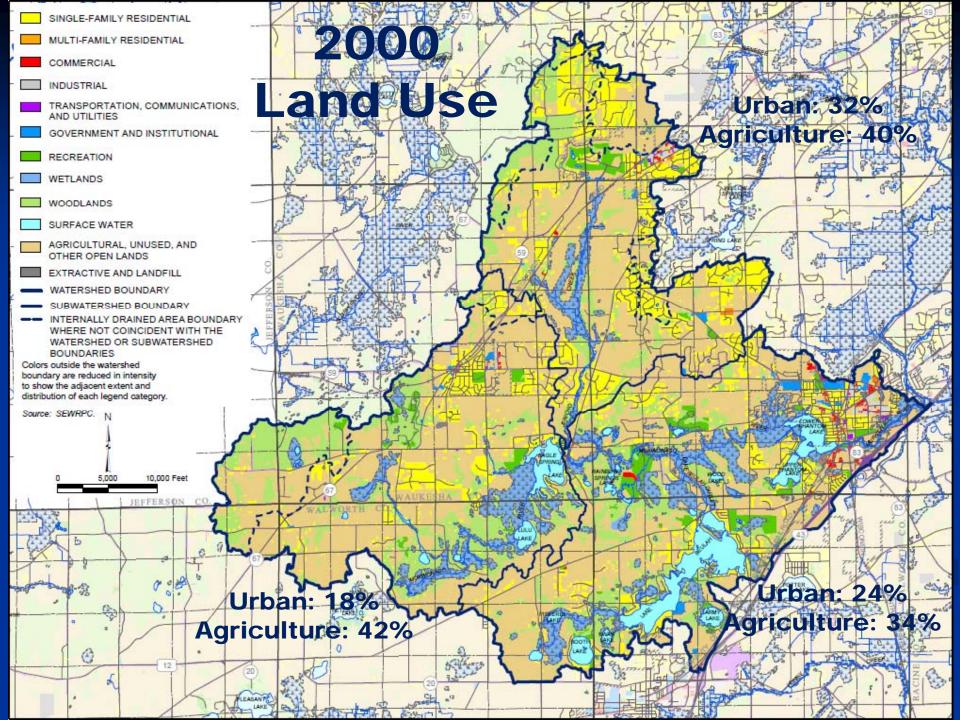
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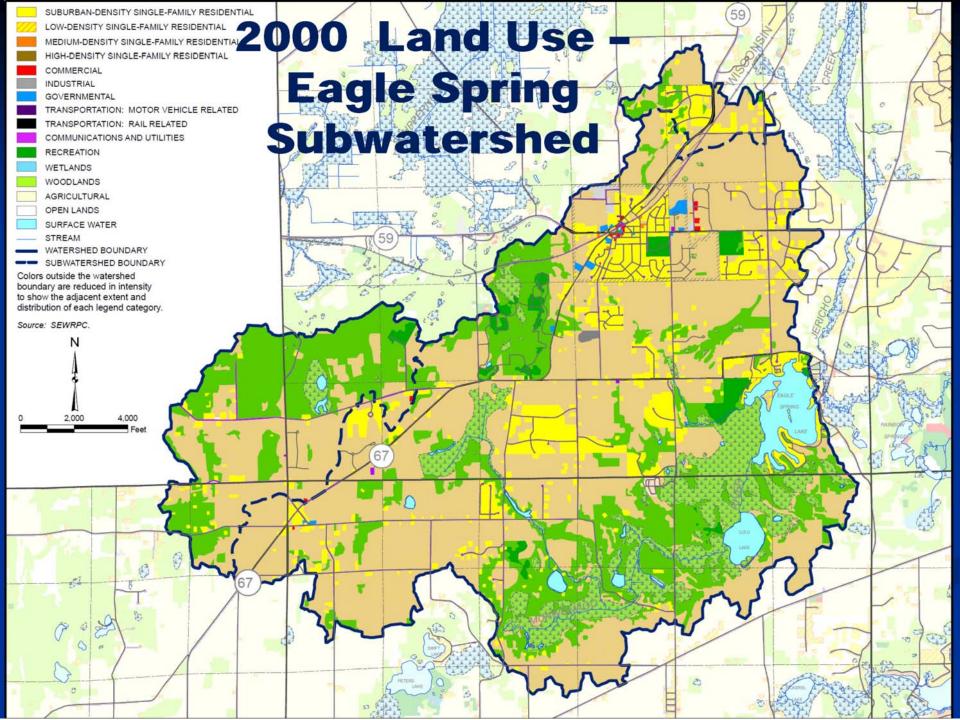
Watershed Boundary Comparison

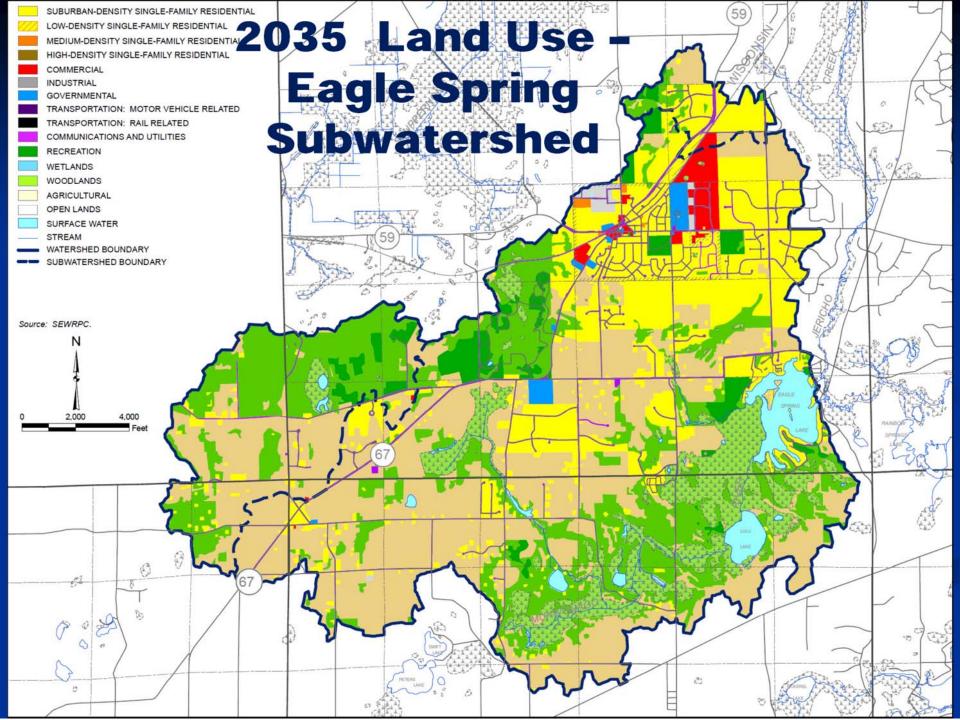


Internally Drained Areas



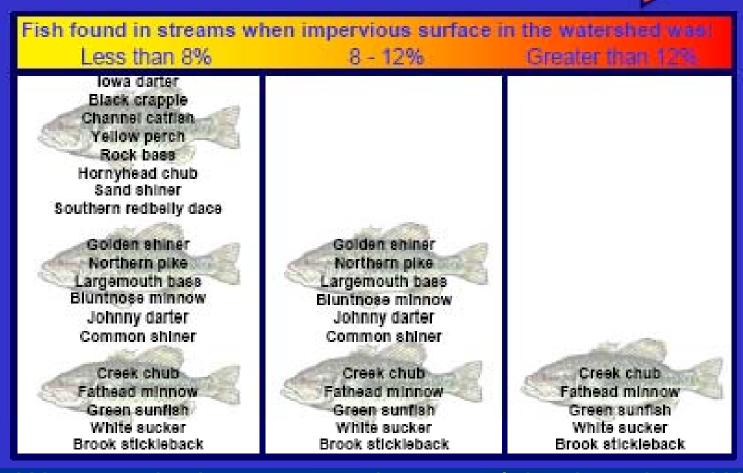






Watershed Urbanization and Changes in Fish Communities in Southeastern Wisconsin Streams

Increasing impervious surface in the watershed Decreasing number of fish & fish species



Source: Wang and others, 2000, Journal of the American Water

Land Use Changes – Rainbow Springs



Land Use Changes – Rainbow Springs



Land Use Changes – Rainbow Springs

2005











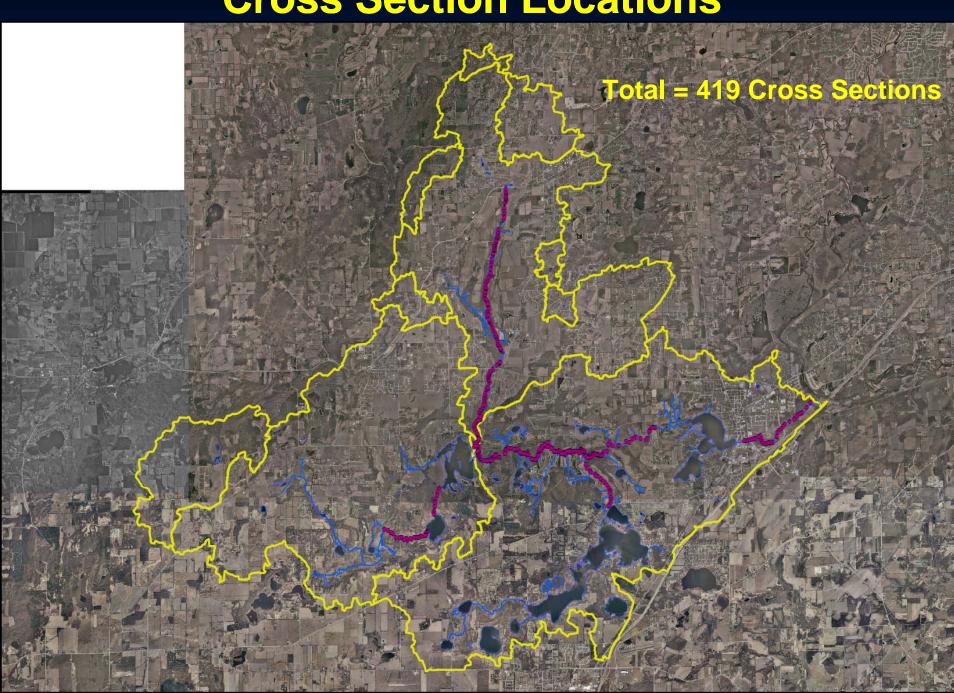
Spiders

5

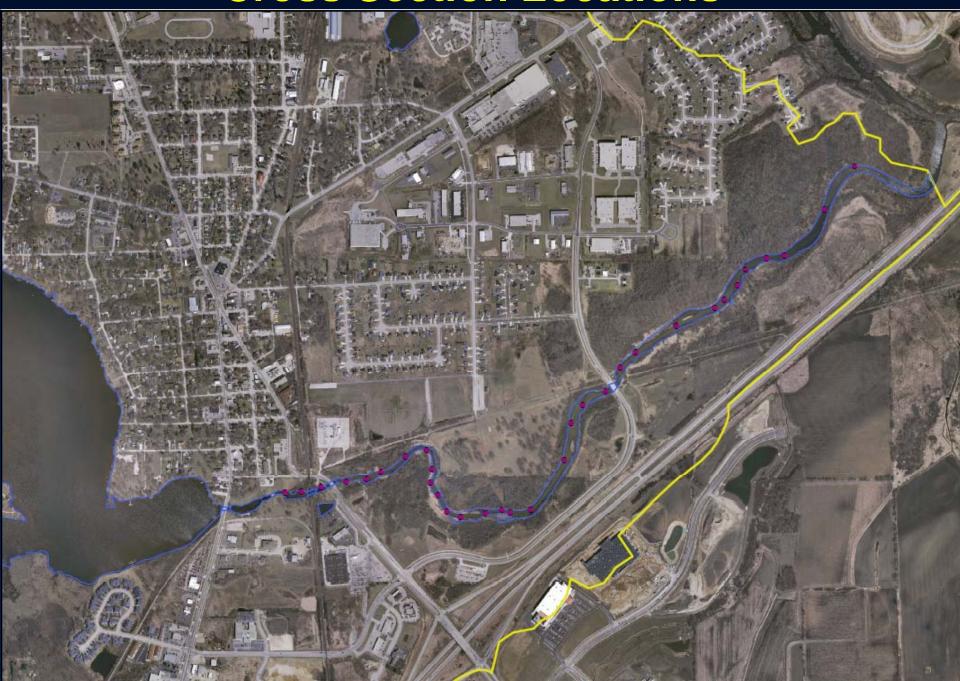
2.



Cross Section Locations



Cross Section Locations

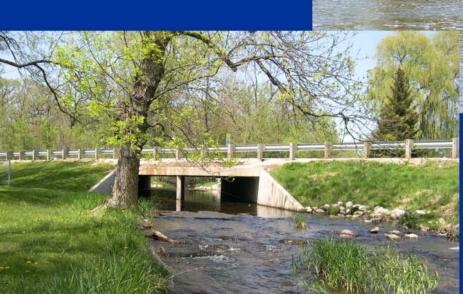


Reptiles and Amphibians





River Crossings









Fish Sampling

Banded Darter

Starhead Topminnow



Mukwonago River Confluence to Phantom Lake Dam

Mukwonago River CTH I to Beulah Road



Mukwonago River Beulah Road to Golf Course entrance







Mukwonago River CTH E to Eagle Spring Lake Dam

Mukwonago River Eagle Spring Lake to Lulu Lake



Mukwonago River Upstream Lulu Lake

Jericho Creek confluence to CTH LO

Jericho Creek CTH LO to CTH NN

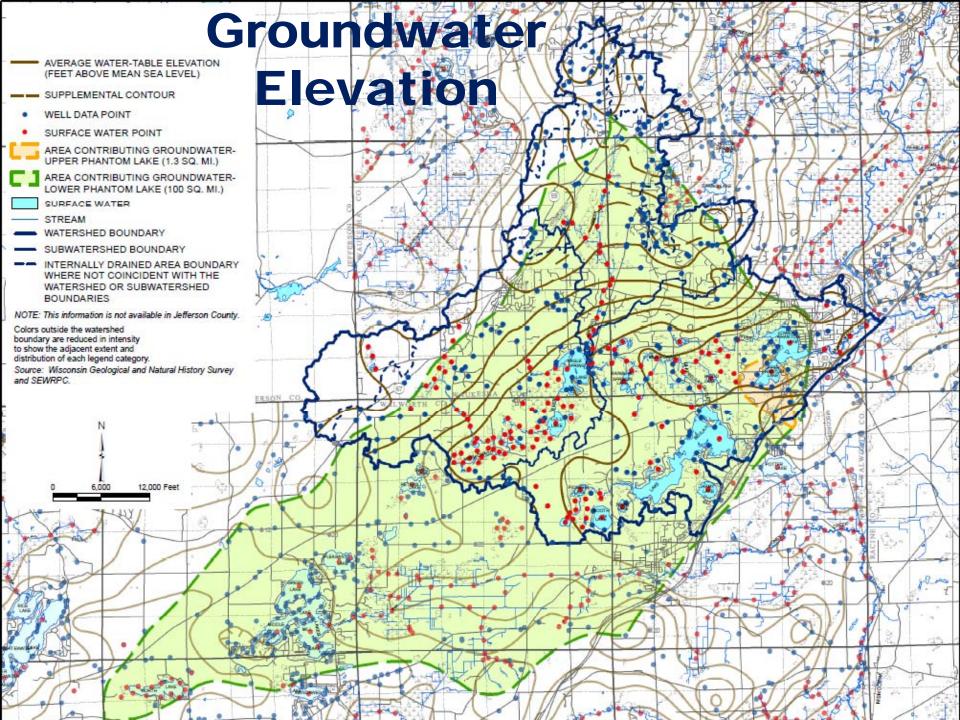
Jericho Creek CTH NN to Road X

Jericho Creek Road X to STH 59



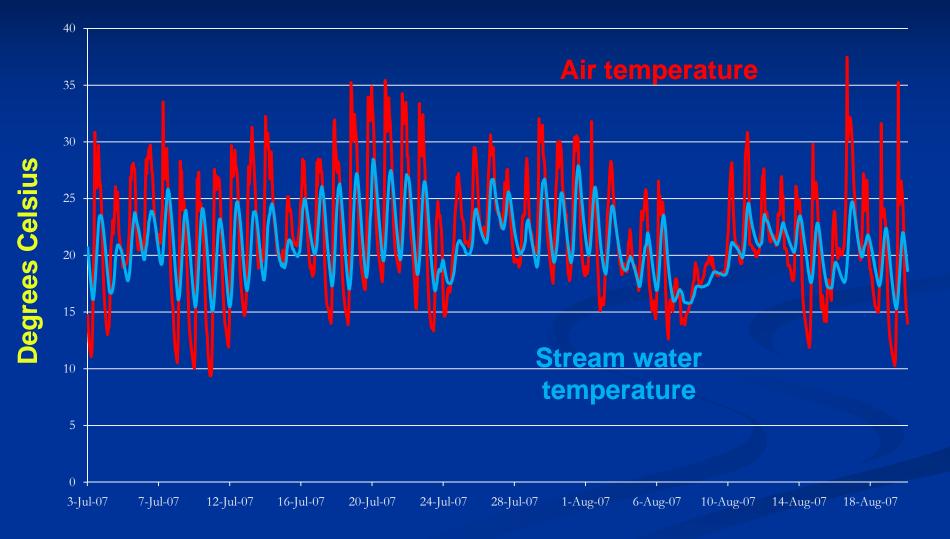
Lake Beulah Outlet





Groundwater Seepage Areas

Groundwater Seepage Areas



Time

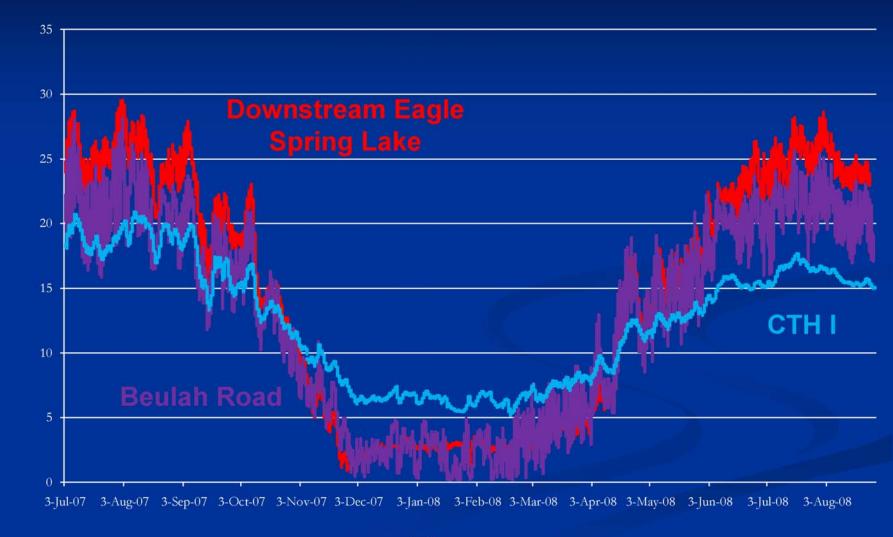
Degrees Celsius



Time

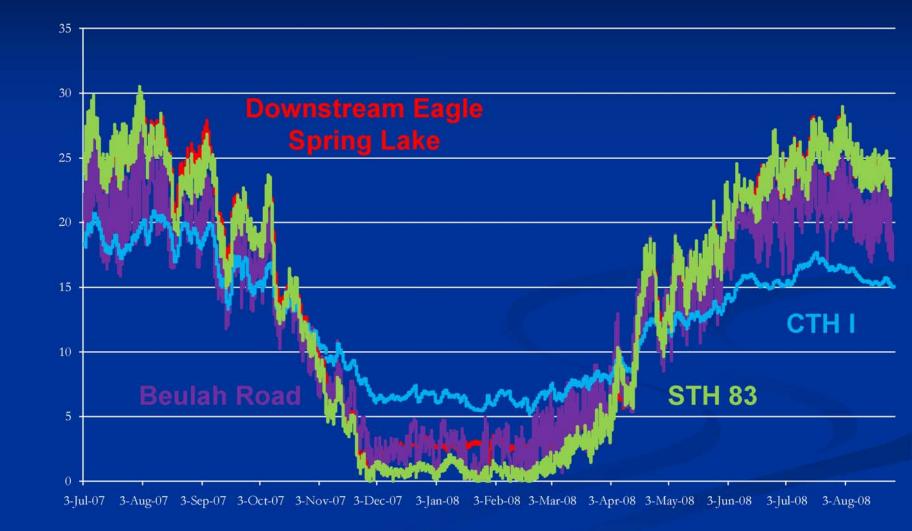


Degrees Celsius



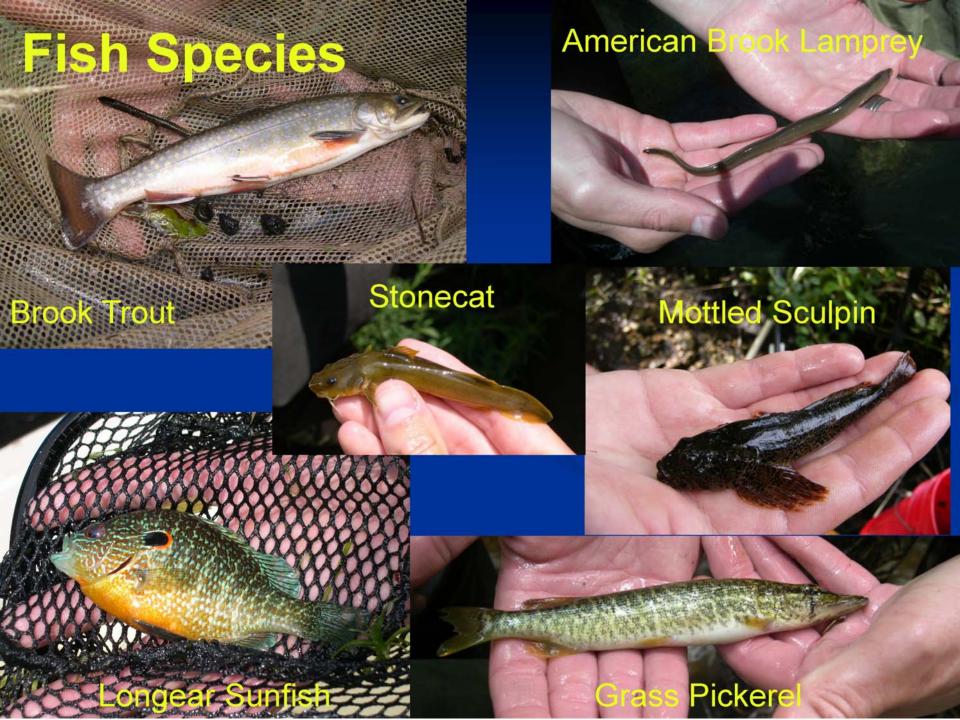
Degrees Celsius

Time



Time

Degrees Celsius



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Proposed Outline

1. Introduction

- 2. Natural and Human Features of the Watershed
- 3. Related Plan, Regulations, and Programs
- 4. Background and Summary of Inventory Findings
- 5. Watershed Goals, Objectives, and Recommended Actions
- 6. Plan Implementation

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Walworth & Waukesha County Land and Water Resource Management Plans

To protect and improve (restore) land and water resources

Goals in common:

- Minimize impacts of land development on water resources
- Protection of groundwater quality and abundance
- Control urban runoff pollution and flooding
- Protect farmland
- Control agriculture runoff pollution
- Build partnerships and educate public to promote protection of natural resources

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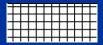
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refined list of issues



prioritization of issues



develop alternative recommendations





Thank you

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