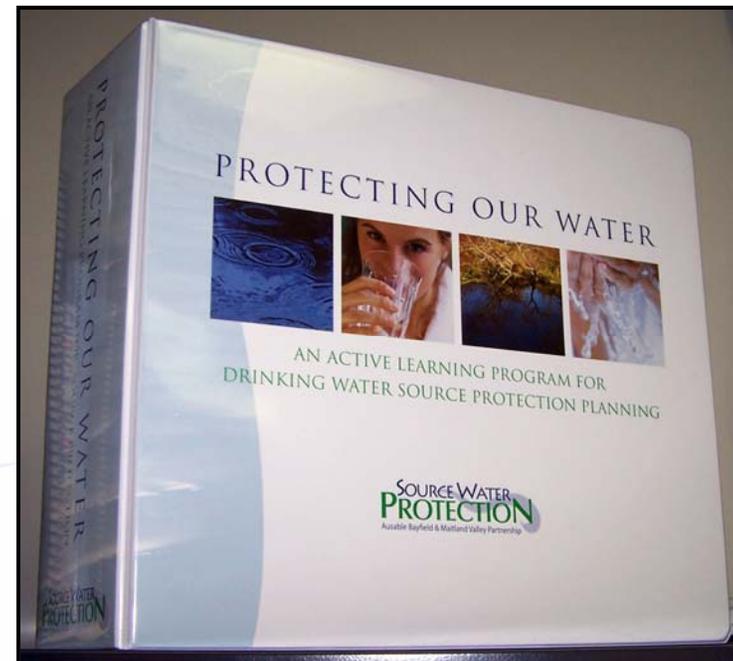


Watershed Description

Module Two, Adult Learning Program

Ausable Bayfield Maitland Valley
Drinking Water Source Protection



Learning Expectations

- By the end of this session you will be able to:
- Describe what a watershed is and recognize the importance of its health on humans, environment and the economy
- Make connections between Source Protection Planning and Watershed Plans
- Understand how surface and groundwater moves in a watershed
- Recognize the unique features and characteristics of the watersheds within the Ausable Bayfield and Maitland Valley study area
- Understand some ways you interact with your own watershed

Module Two: Watershed Description

Module Two: Watershed Description

- Unit One – Why protect water?



Unit One – Why protect water?

- What do we know about water?
- What do we know about water in our area?
- How do we impact our water?
- How does our water impact us?
- Why must we protect our water?

Module Two: Watershed Description

‘Watershed Relationships’ (Not a Dating Game!)



- How does the economy affect water?
- How does water affect the economy?
- How does the individual affect water quality and quantity?
- How does water quality and quantity affect the individual?

Module Two: Watershed Description

DRINKING WATER SOURCE PROTECTION

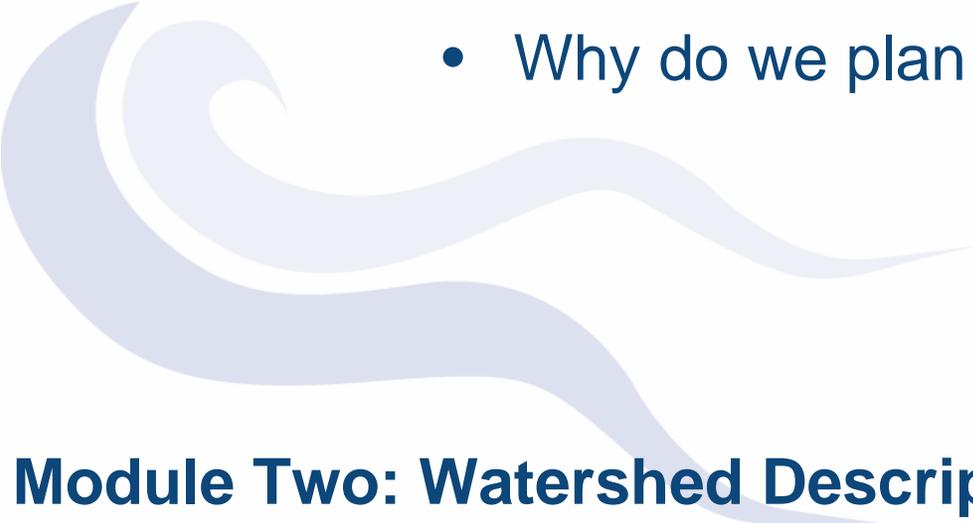
ACT FOR CLEAN WATER

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Maitland Valley
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Region



Unit Two – Why watersheds?

- What is a watershed?
- Why are watersheds important?
- Why do we plan on a watershed basis?



Module Two: Watershed Description

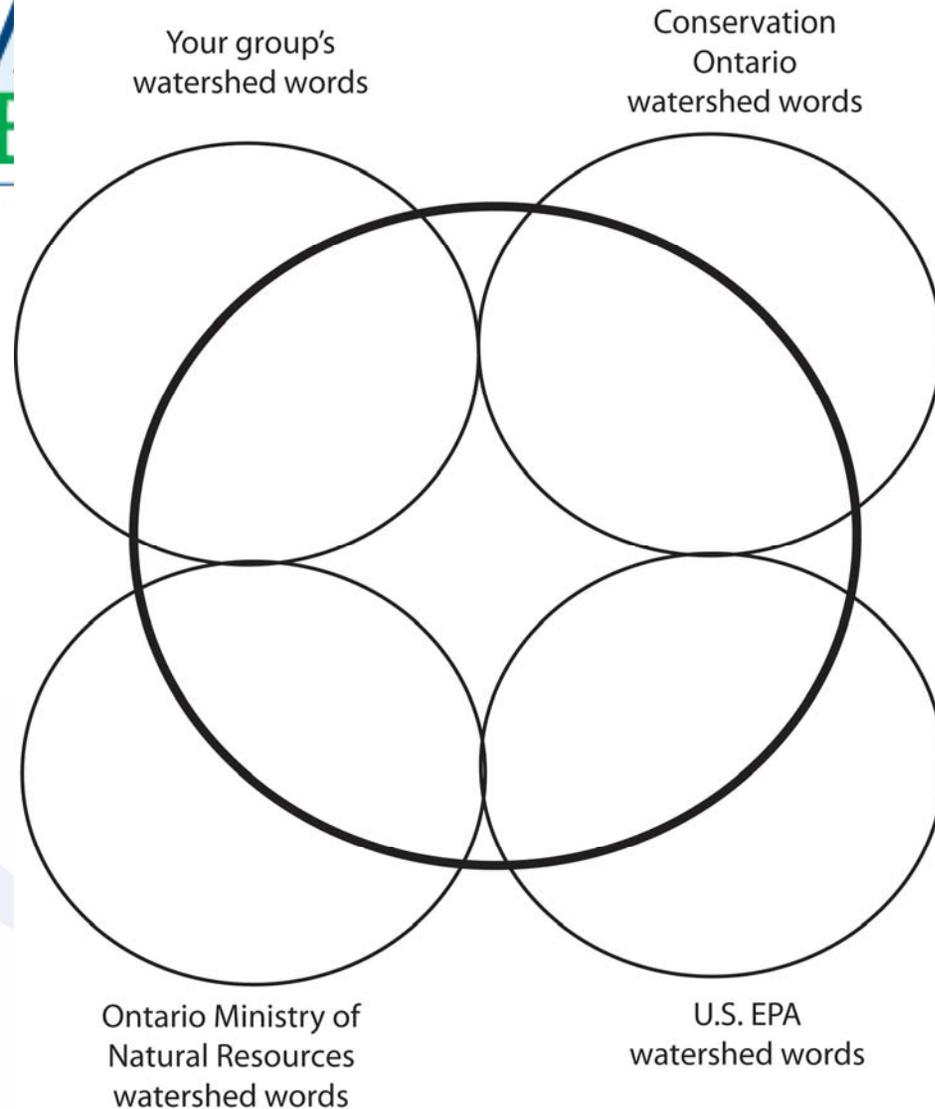
What is a watershed?

- What do you think of when you think of the word watershed?



**What are
different
watershed
definitions?**
See Module 2,
Page 5

Watershed Definitions



Words that are unique to one of the watershed definitions go outside the main circle - words or concepts that are common inside the main circle. What words or ideas are in common?

DRINKING WATER SOURCE PROTECTION

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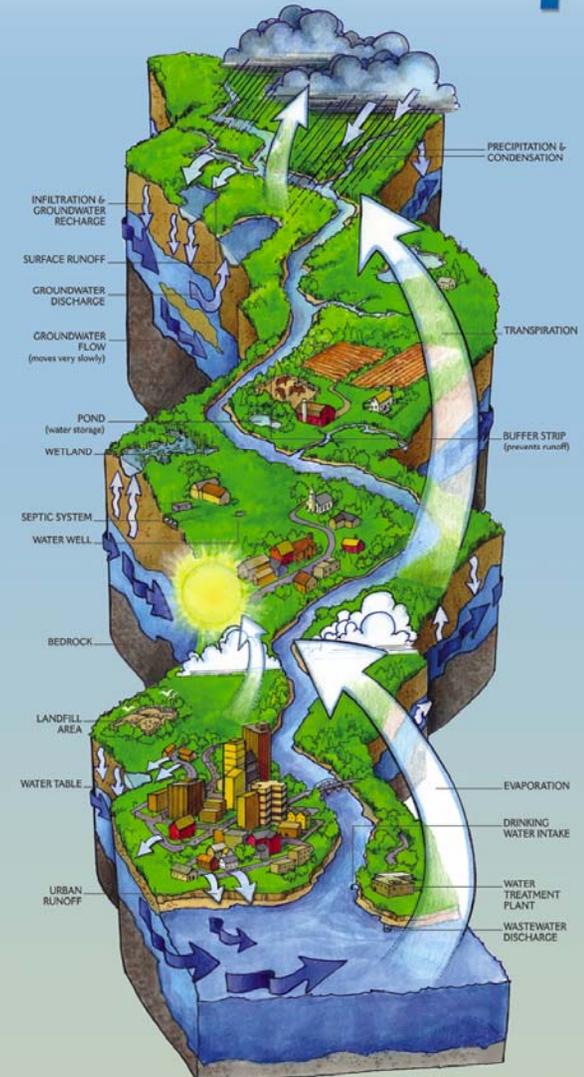
What is a watershed?

- “A watershed is an area of land that is drained by a river or a stream, and its tributaries, to a body of water such as a lake or ocean.”

- Conservation Ontario

WATERSHED Connections

What makes up our Watersheds?



Courtesy of Conservation Ontario

DRINKING WATER SOURCE PROTECTION

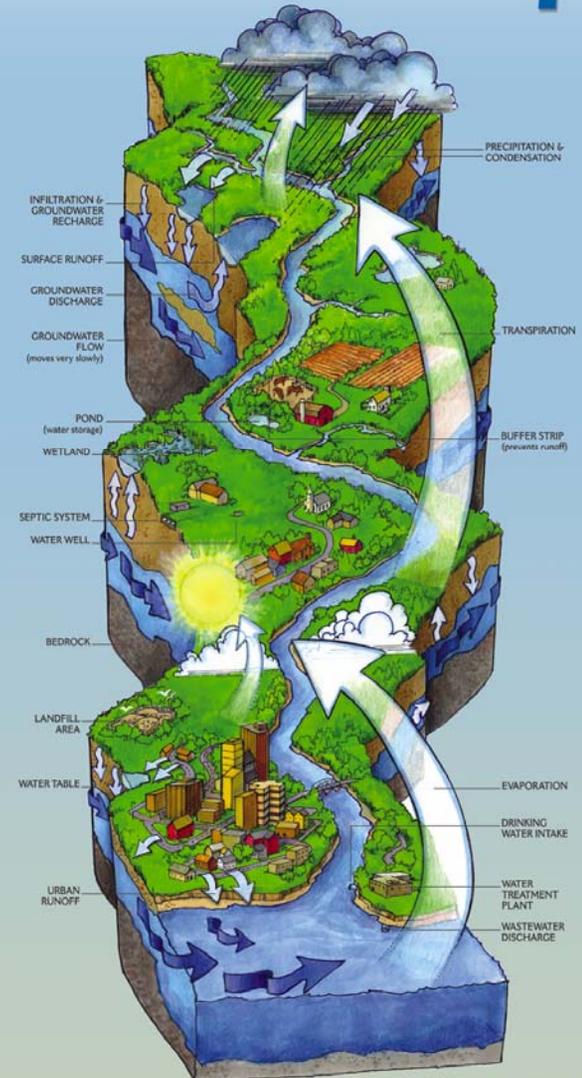
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What is a watershed?

- A watershed, also known as a catchment basin or area, includes all of the land that is drained by a watercourse and its tributaries. It is a dynamic and complex web of natural resources - soil, water, plants and animals - where we live, work and play.”
- Ontario Ministry of Natural Resources

WATERSHED Connections

What makes up our Watersheds?



Courtesy of Conservation Ontario

DRINKING WATER SOURCE PROTECTION

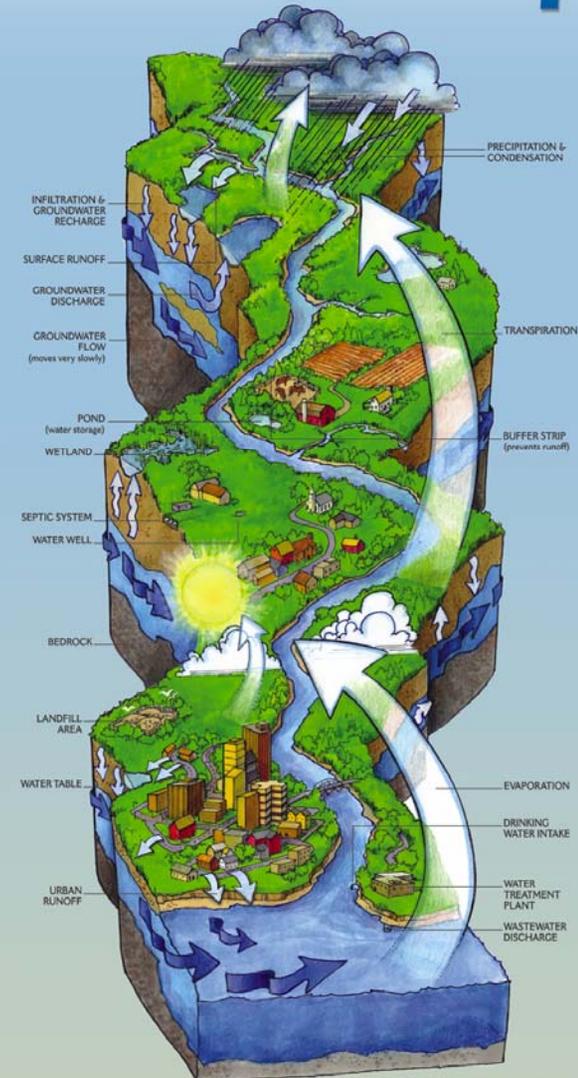
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What is a watershed?

- “An area of land from which all surface and groundwater flows from higher elevations downhill to a common body of water such as a stream, river, lake, wetland, estuary or ocean.”
- U.S. Environmental Protection Agency

WATERSHED Connections

What makes up our Watersheds?



Courtesy of Conservation Ontario

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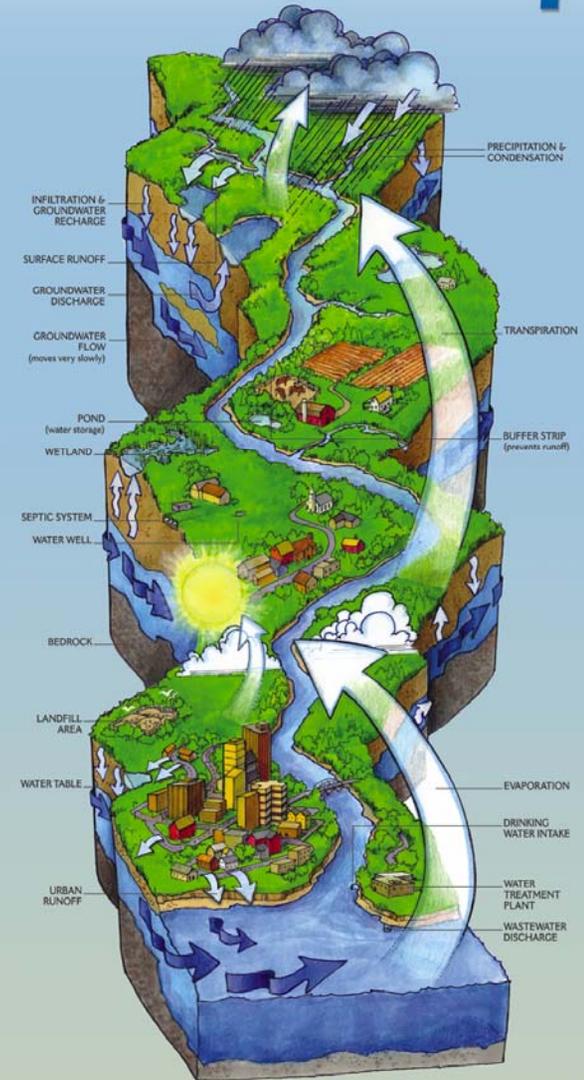
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What is a watershed?

- What are your synonyms for watershed?

WATERSHED Connections

What makes up our Watersheds?



Courtesy of Conservation Ontario

DRINKING WATER SOURCE PROTECTION

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Source Protection
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Why can we not restrict Source Protection Planning to municipal borders?



Why are watersheds important?

- Why do you think watersheds are important?



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Why are watersheds important?

- Watersheds are ecological boundaries – not political ones



How can watersheds be impacted?



- Human characterization
- Watershed features

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Source Protection
Region

Human Characterization



- Land uses trends
- Natural resource uses
- Economic trends

What watershed features are related to water?

- Size
- Physiography
- Topography
- Surface hydrology
- Natural heritage
- Aquatic macroinvertebrates
- Species at Risk



Sinkholes

- Watershed features can have a relationship to water quality



Module Two: Watershed Description

- What does GUDI stand for?



Module Two: Watershed Description

- **GUDI: Groundwater Under the Direct Influence of Surface Water**
- This term refers to groundwater sources such as wells and springs where microbial pathogens are able to travel from nearby surface water to the groundwater source.

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Module Two: Watershed Description

Unit Three – What are our watersheds?

- What are the features of our watersheds?
- Ausable River Watershed
- Bayfield River Watershed
- Maitland River Watershed
- Nine Mile River Watershed
- Shore Gullies and Streams Watershed

Module Two: Watershed Description

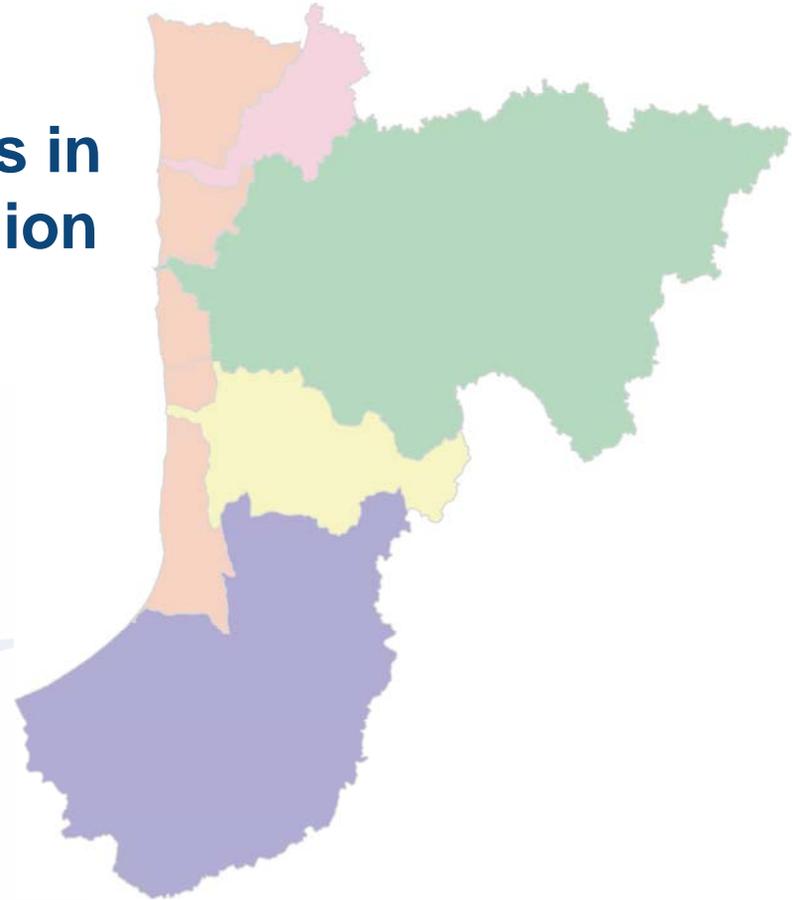
DRINKING WATER SOURCE PROTECTION

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**Name five main watersheds in
our Source Protection Region**

- ?
- ?
- ?
- ?
- ?



DRINKING WATER SOURCE PROTECTION

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Region

Name five main watersheds in our Source Protection Region

- Ausable River
- Bayfield River
- Maitland River
- Nine Mile River
- Shore Gullies and Streams



Module Two: Watershed Description

Activity: 'Graffiti'

- Activity: Graffiti



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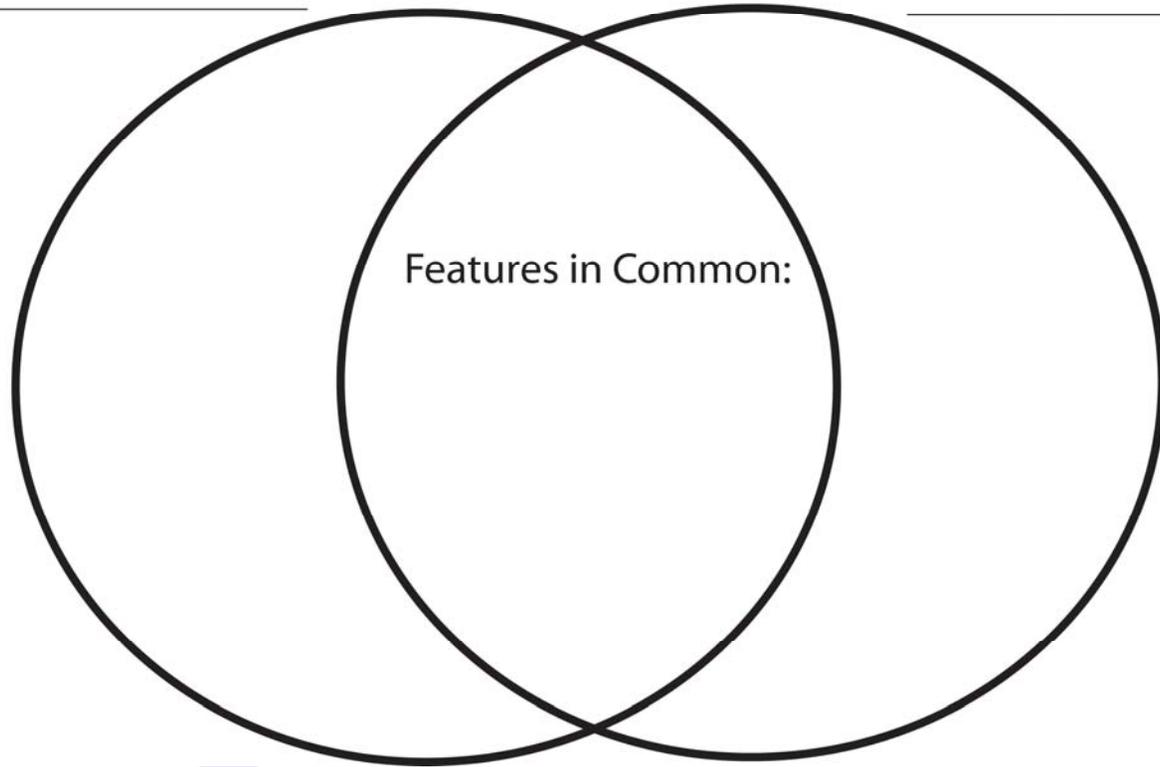
Watershed Comparison

Watershed name:

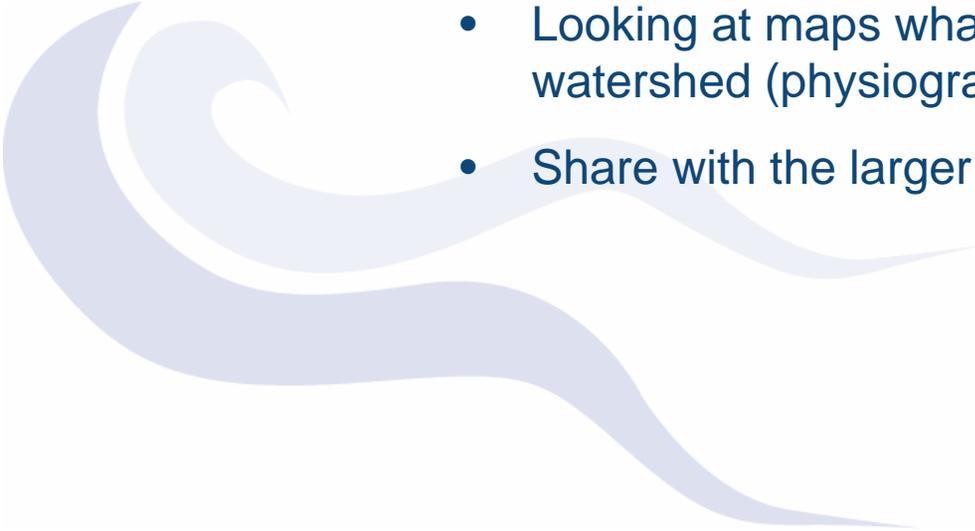
Watershed name:

See Module 2,
Page 12

Features in Common:



Activity – ‘Jigsaw’ Experts

- Join one of five small break-out groups
 - You will be assigned a watershed
 - Looking at maps what features do you find in your watershed (physiography, topography, soil, etc.)
 - Share with the larger group
- 
-

Module Two: Watershed Description

Section Two – Priming the Pump

- See Module 2,
Page 15

‘Jigsaw’ Experts: What did you learn about our watersheds?



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Thank you!

- Any questions?



Module Two: Watershed Description

Water Quality

Module Three

Adult Learning Program

Ausable Bayfield Maitland Valley

Drinking Water Source Protection

