



**ID All 20**  
MASTER WATER STEWARDS

# Introduction

Laying the groundwork for IDAH<sub>2</sub>O

# Program Development

University of Idaho  
Coeur d'Alene

University of Idaho  
Extension



# Mission Statement

“To promote the health of Idaho’s water through volunteer water quality monitoring.”



# Master Water Stewards

## *Code of Ethics:*

Carry out monitoring with integrity

Develop good relations with landowners

# Goals

1. Increase citizen knowledge on water issues
2. Promote volunteer monitoring on Idaho streams
3. Promote watershed stewardship



# Themes

Citizen based

Solutions

Results

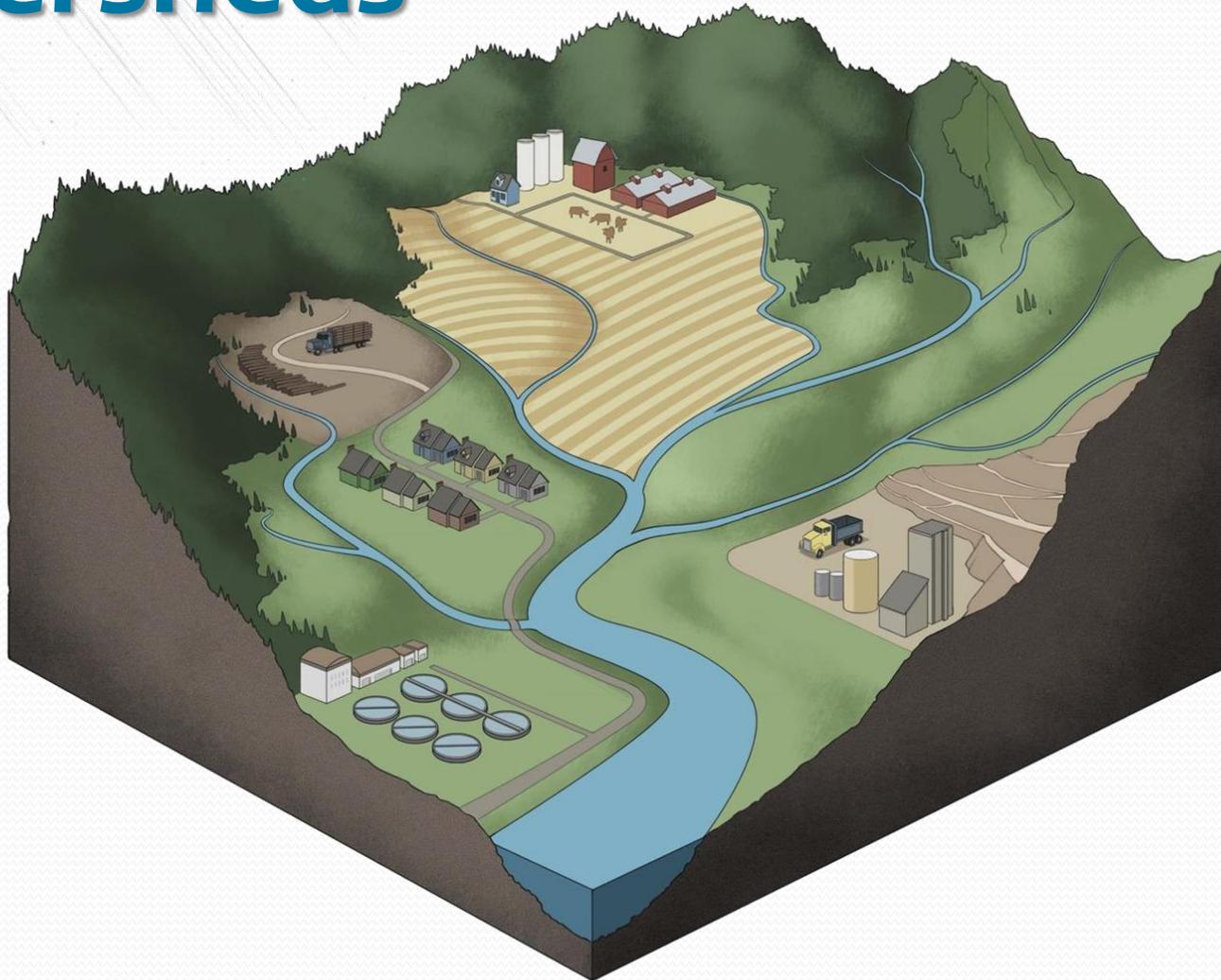
Flexibility

Partnership development

Youth involvement

Watershed approach

# Watersheds



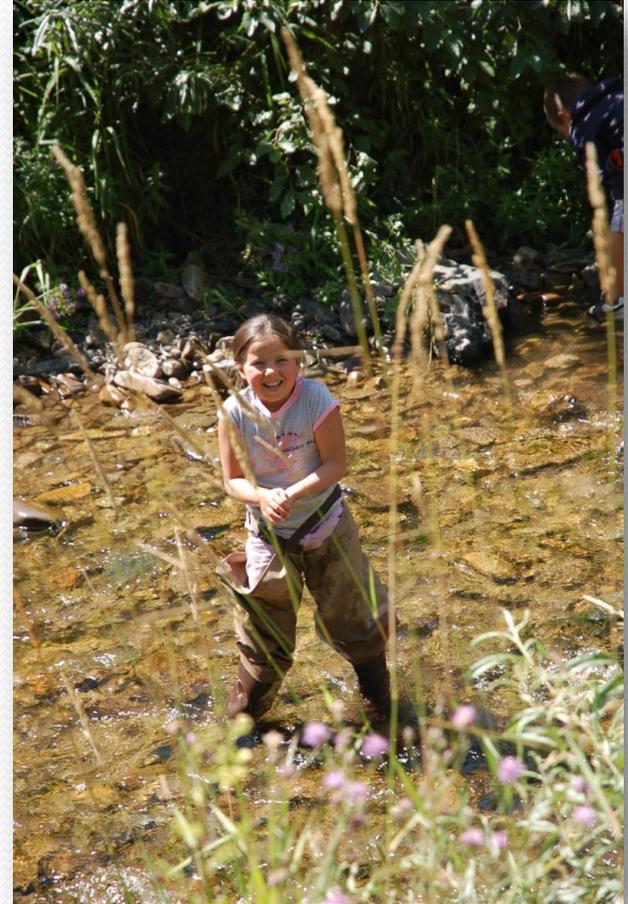
# Steward Responsibilities

- Maintain interest in water quality
- Participate in workshops
- Conduct regular monitoring throughout the year
- Assist with educational opportunities
- Cooperate with IDAH<sub>2</sub>O partners



# Other Activities

- Youth involvement
- Community education
- Annual meeting





# Safety

- Never sample alone
- Maintain a point of contact
- Respect water
- Keep to wadable streams
- Wear the right gear
- Be aware of your surroundings

# Register a Monitoring Site

- Choose your own
- Request a site
- Register multiple



University of Idaho  
Extension

**IDAII<sub>2</sub>O**  
MASTER WATER STEWARDS

# Water Quality Assessments



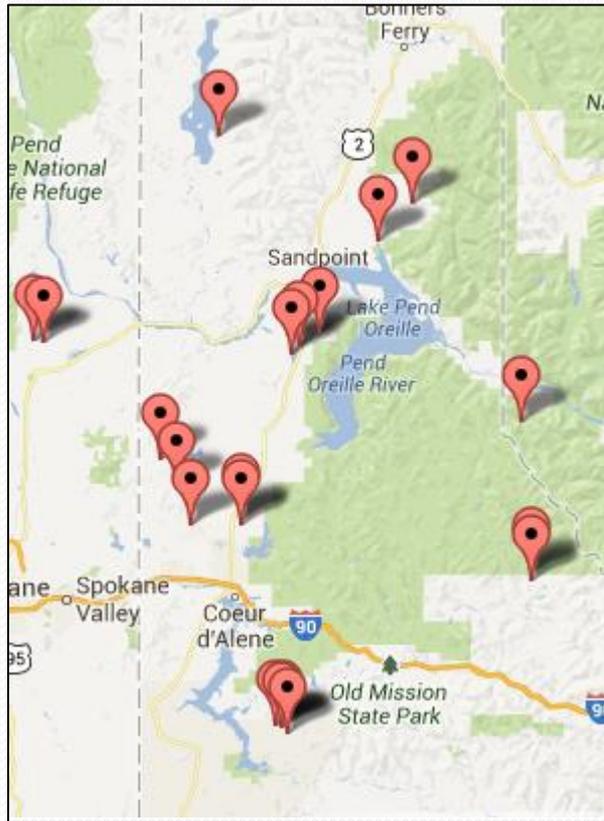
- Habitat (annually)
- Biological (bi-annually)
- Chemical/Physical (monthly)

# Snapshot Sampling

- Parameters
  - Nitrate
  - Total Phosphorus
  - Bacteria
- Lab analysis at UI Coeur d'Alene Center
- Stewards welcome to the Lab



# Data Management



- Uploaded by volunteer
- Publically available
- Managed by an HIS application

<http://idah2o.nkn.uidaho.edu/client/>

# Data Use

- Education
- Awareness
- Establish baseline trends
- Identify patterns of concern
- Watershed assessments
- TMDL development

# Water Quality in Idaho

Laying the groundwork for IDAH<sub>2</sub>O

# Beneficial Uses

- Drinking
- Fishing
- Irrigation
- Recreation
- Livestock
- Aquatic biota



# Pollution Sources

- Point source
- Non-point source

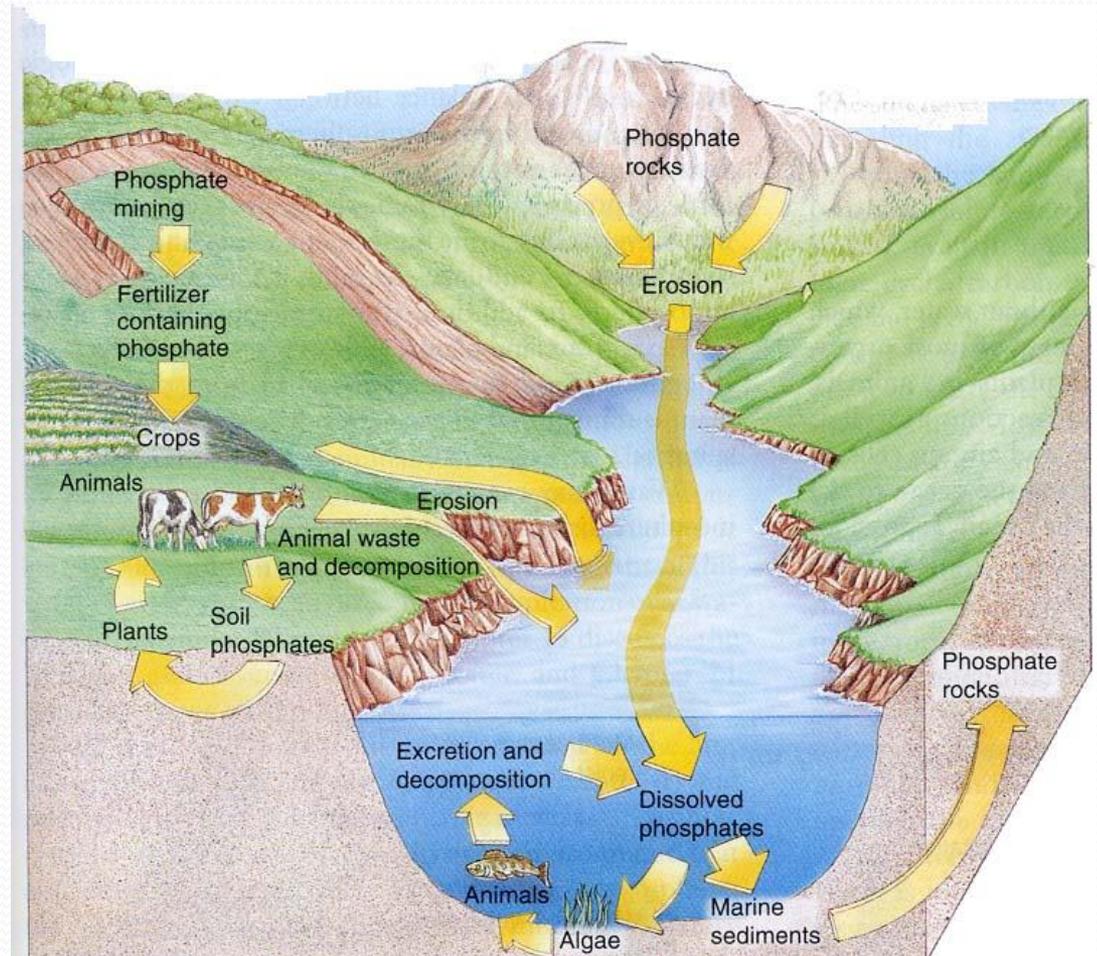


# Sediment



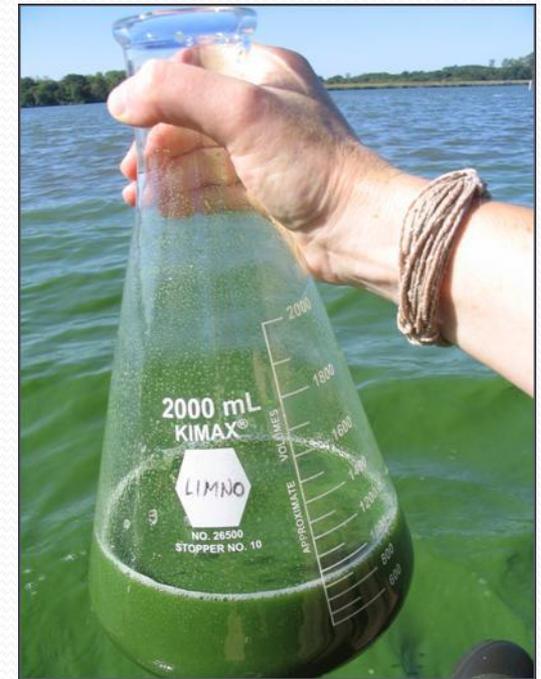
# Nutrients

- Nitrogen
- Phosphorus



# Nutrients

- Excessive nutrients can lead to eutrophication
- Algae blooms
  - Can be toxic
  - Can lead to hypoxia



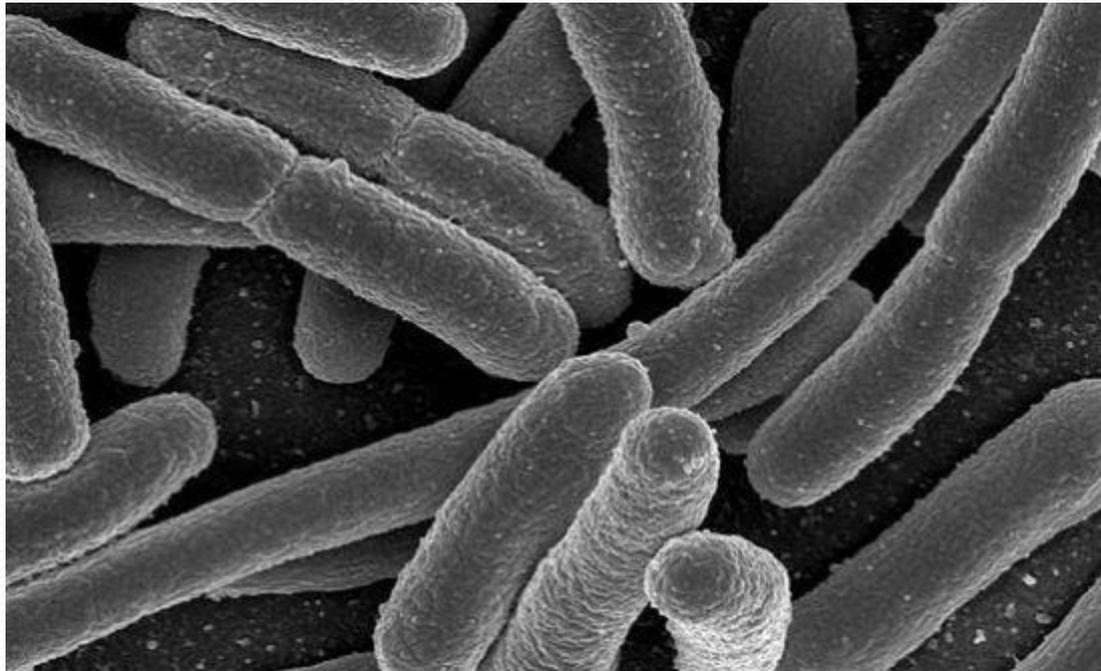
# Temperature

*Shading is necessary for regulation of stream temperature, which affects dissolved oxygen.*



# Coliform Bacteria

- Do not usually cause disease
- Indicates potential presence of pathogens



# Why is monitoring important?



# Questions?

