

Volunteer Monitoring in Montana's Flathead Basin

World Class Resources:



Six Million Acres

Over 500 Lakes

Glacier National Park

Flathead Lake

Wild & Scenic Rivers

Pristine Water Quality

T&E Species

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Threats to Resource:

Population Increase

Rampant Development

Lax Enforcement

No Pro-Active Planning

Industrial Threats



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Water Quality Issues:



Lax BMPs

Extensive Septic Use

Non-point Sources

303 (d) Listed Waters

Recreational Use

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Program Standards:

**UM Biological
Station**

U.S. EPA

Montana DEQ



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Lake Program Basics:



Stewardship Emphasis

Training & Education

Agency Support

Staff Coordination

Data Availability

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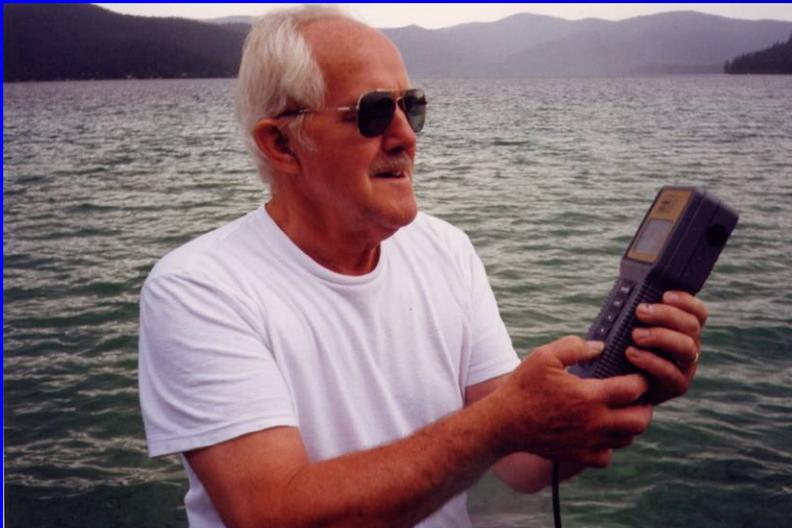
Lake Volunteer Tasks:

- Routine Observations**
- Secchi & Water Temp.**
- Proponents of BMPs**
- Provide Logistic Help**
- Advocate for Program**



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Volunteer Assistance:



**D.O. & Temp.
Profiles**

Total Phosphorus

Chlorophyll *a*

GPS

Water Craft

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Stream Basics:

More Ed. Based
Fills Data Gaps
Adults & Students
Access Issues
Seasonal Issues



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Stream Program Tasks:

Discharge

Channel Cross Section

Riparian Inventory

Chemical & D.O.

Macroinvertebrates

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Program History:

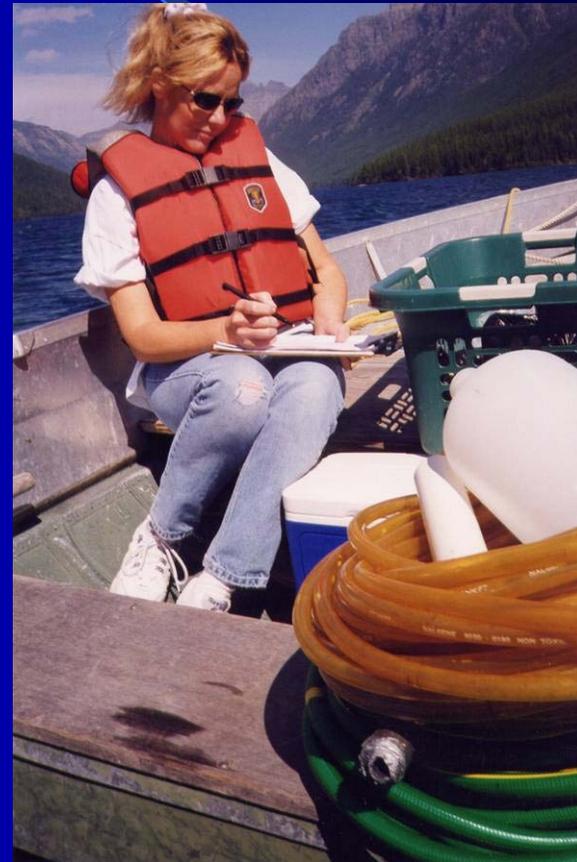
Active since 1992

Over 100 Volunteers

50 Sites, 30+ Lakes

1500 Vol. Hours Yr.

Over 4,000 Data Sets



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Agency Partnerships:

Data Sharing

Logistic Support

TMDL



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The Next Generation:



**Provide Equipment
Offer Training
Demonstrations
Presentations**