# UPPER MANISTEE RIVER VOLUNTEER STREAM MONITORING

Au Sable Institute of Environmental Studies Paul Wiemerslage Education Coordinator

# AU SABLE INSTITUTE

- Mission: Inspire and educate people to serve protect and restore God's earth.
- College Courses
- Research
- Graduate Fellows
- Environmental Education....



# **ENVIRONMENTAL EDUCATION**

#### K-12 Education

Environmental Education Internship Program

#### Community Programs

- Butterfly Day 5K
- Native Plant Sale
- Landowner Best Management Programs
- Citizen Science
  - Stream
    Monitoring



# MANISTEE RIVE WATERSHED RIVER



# UPPER MANISTE SAMPLING EF **EFFORTS** RIV /ER

# VOLUNTEER STREAM MONITORING PROGRAM (VSMP)



# **GOALS OF THE VSMP**

- Educate watershed residents on monitoring, quality, and protection of our water resources
- Engage stakeholder group and individuals through collaborative water monitoring projects and citizen science
- Monitor stream and tributary conditions within the Upper Manistee River Watershed
- Identify or verify problem areas where degradation has occurred and remediation or best management practices can be implemented

# **PROGRAM OVERVIEW**

- Fall and Spring Training and Collection Events
- Habitat Assessment Fall only
- 5 people per collection team (at least)
- 1 hour collection event (30 minute collection followed by 30 minute sort)
- Keep all bugs, with <u>very</u>, <u>very</u> few exceptions
- Grilled lunch after collection event
- Optional critter Identification event takes place after lunch

# **PROGRAMMING RESPONSE**

- 3<sup>rd</sup> year of monitoring
- 12 20 volunteers each collection event (70% are trained leaders)
- Difficult to engage volunteers in identification events
- Reports posted to website
- Increased our communication and collaboration with Upper Manistee River Association
- Crossover potential with our college courses and research



#### **LESSONS LEARNED**:

# THE NATURE OF A RURAL AUDIENCE

#### The Good:

- Fewer competing interests
- Media agencies are usually very responsive
- The nature of the resource lends itself to more passionate volunteers per capita
  - Fisherman, landowners, outdoorswomen and men

#### The Less Good:

- Smaller population densities = smaller potential interest
- Greater travel distances for volunteers
- Difficult to "land" your advertisements
- Seasonal residents are typically not present during sampling events.

### LESSONS LEARNED: CRITTER IDENTIFICATION

- Everything looks like a mayfly
- People generally like stoneflies
- People generally do not like blackflies or leaches







#### LESSONS LEARNED: CRITTER IDENTIFICATION

- Identification events are great for creating awe and wonder, not necessarily for lessoning your workload.
- Family ID takes time
- Consider seasonal identification practice events



#### LESSONS LEARNED:

# ACCESSIBILITY

- Site selection may be more difficult than you think
- Consider the nature of your audience when choosing sites
  - Volunteers are typically young or retired
  - Many don't have wading experience
  - Comfort and accessibility
- Safety never takes a holiday!



#### **LESSONS LEARNED**:

# LISTEN TO YOUR VOLUNTEERS

- What supplies would help them be more successful?
  - Eye Droppers for those midges!
  - Tables and chairs.
  - Supplies inventory to help them gather everything before they are done.
- What information would help them feel more confident?
  - Collection protocol reminders
  - Maps, directions, GPS coordinates, and important contact numbers
- Know the limits and capabilities of your volunteers
  - Site accessibility issues
  - Comfort and previous experience in and around moving water
  - Step in and out of vans

# **MOVING FORWARD**

#### Considering a Satellite Approach to collection events

- Alleviate problems associated with:
  - Length of travel time to samplings sites
  - Scheduling conflicts
  - Weather related issues
- However, there is potential to lose element of camaraderie associated with event day approach
- Increased promotions and presentations during the summer to inform and entice seasonal residents to participate.
- Explore working more with schools, honors clubs, and AP classes
- Increase sampling demand from volunteers
  - Each group samples 2 sites

# CONSIDERATIONS FOR PROGRAM DEVELOPMENT

- Is there a need/Where is the greatest need?
  - Meet with local organizations, state, and government agencies to determine:
    - Interest and support
    - Location of ESAs and identified watershed disturbances
    - Future development plans
    - History of the watershed and conservation efforts/priorities
    - Available resources
- Be realistic about your capacity
  - What resources do you have available?
    - Staff, volunteers, partner support, specialists, supplies, time, etc.
  - How do you plan to sustain the program?
    - Financially, staffing, successional planning

## **THANKS AND QUESTIONS**

#### Thanks to our partners and volunteers:

MiCorps, MI DEQ, Garfield Township, Conservation Resource Alliance, Blue Lake Township, Upper Manistee River Association

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