Loyalsock Creek Watershed
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Overview of the Project

• Purpose
• How sites were evaluated
• What was found
• Tributaries
• Conclusion
• Acknowledgements
The study was to identify and document the overall physical health of the Loyalsock Creek Watershed and its major tributaries such as:

- Elk Creek
- Hoagland branch of Elk Creek
- Little Loyalsock
- Lopez Creek
- Mill Creek (Montoursville)
- Mill Creek (Warrensville)
- Ogdonia Creek
- Plunketts Creek
- Wallis Run
Physical Assessment

- Identify:
  - Erosion concerns
  - Land and gravel bars
  - Locations of bridges, roads and dams
  - Riparian evaluation
  - Invasive plant species identification
Site Evaluation

- High bank angle
- High bank height
- High root density
- High particle size
Site Evaluation

- Moderate bank height
- Moderate bank angle
- High density of roots
- Moderate particle size
Site Evaluation

- Low bank height
- High bank angle
- High density of roots
- Moderate particle size
Additional Evaluations

- **Soil texture**
  - Clay, Sand, or Loam

- **Stream alignment**
  - Straight, Moderate, or Sharply Curved

- **Vegetation**
  - Weeds, Trees, or Crops

- **Stream Gradient**
  - No riffles, balance of riffles and pools, & mostly riffles

- **Adjacent land usage**
Tour of the Upper Loyalsock
The Lower Loyalsock
Before and After Rip Rap
Where’s My Steps?
Pipe Line
Loyalsock Sewer Line
Tributaries

- Elk Creek
- Hoagland branch of Elk Creek
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- Plunketts Creek
- Wallis Run
Jim and Theresa’s Adventure on Lopez Creek
Hoagland Branch and Elk Creek

- Pumps along the Creek
- Bedrock formations within the Stream controlled water flow and limited erosion
- The majority of the stream flowed through forested areas which provided the stream with a substantial buffer
Ogdonia Creek

- HIGH erosion potential
- Bedrock formations within the stream
- Heavily rip-rapped along Girl Scout Camp
- Stream runs dry where it meets the Loyalsock.
  - Where does the water go?
Little Loyalsock Creek
Mill Creek Warrensville

- Heavily cluttered with debris
- Highly urbanized
- Several dams were located along the creek
- Many withdraw pumps, and pipes to discharge to the stream
The Adventures of Mill Creek
Mill Creek Montoursville

- Area assessed was from Quaker State Road to the point where it enters into the Loyalsock Creek.
- The stream was narrow and heavily rip-rapped.
- Moderately urbanized.
Conclusion

• 200 total erosion sites over 52 miles
• Projects involving the tributaries may have the greatest impact on preserving the Loyalsock Creek.
• The high areas of concern along the creek occur around rip-rap and islands or deposition bars.
Final Thoughts
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The End