

Calgary

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Model My Watershed[®] v2:
An online toolkit for resource managers, conservation practitioners, municipal decision-makers



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Wiki Watershed[®]



Online Professional & Education Toolkit

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A Web toolkit to support citizens, conservation practitioners, municipal decision-makers, researchers, educators, and students to collaboratively advance knowledge and stewardship of fresh water.

- **Model My Watershed**[®] – Watershed-modeling Web app to analyze real geo-data, model storms and compare conservation or development scenarios in your watershed.
- **Model Micro Site Runoff** – Animated simplified version of site storm model of Model My Watershed.
- **EnviroDIY**[™] – Community of do-it-yourself enthusiasts sharing open-source ideas for environmental science and monitoring. Includes discussion about low-cost data loggers (Mayfly version loggers available from Stroud Center).

- **Monitor My Watershed**[®] – Envisioned Web app for interactive map-based discovery, visualization, and sharing of data from federal, state, academic and citizen sources; and resources to assist citizens to monitor their watersheds using low-cost monitoring approaches based on sound science.
- **Leaf Pack Network**[®] - International network of stream macroinvertebrate monitoring data and accessing resources.
- **Water Quality App**[™] – Data collection tool for tablets and smartphones with digital field guide to basic macroinvertebrates, ability to make sense of chemical and physical stream data, record site profile information, calculate macro PTI, and export data. Send data to a spreadsheet and geo-reference your site. Available at from Google Play and iTunes.

Wiki Watershed®

Model My Watershed®

Analyze real geo-data, model storms, and compare conservation or development scenarios in a watershed. [Learn more](#)

Launch the App



Model Micro Site Runoff

Explore how land use and soil determine runoff for the Site Storm Model package of Model My Watershed. [Learn more](#)

Launch the App



Leaf Pack Network®

Discover what aquatic insects can tell you about your stream's health by performing a simple leaf pack experiment.

Visit Leaf Pack Network



EnviroDIY™

Join a community of do-it-yourself enthusiasts sharing open-source ideas for environmental science and monitoring.

Visit EnviroDIY



Monitor My Watershed®

See streaming data from NOAA, USGS, and more. Web app is currently limited to the Delaware River Basin. [Learn more](#)

View Real-Time Data



Water Quality App

Enhance and extend stream study activities and stream monitoring for students and citizen scientists with a mobile

app.

Available from

[iTunes](#) | [Google Play](#)



Web Demo

- <http://wikiwatershed.org>
- <https://app.wikiwatershed.org>

Model My Watershed Features

- Satellite, Street, & Terrain Basemap Layers
- National & Delaware River Basin Stream Network Visualizations
- USGS HUC Watershed Units, County Lines, Congressional Districts, School Districts, PA Municipalities Boundary Overlays
- National Land Cover Database, Hydrologic Soil Groups, PA Urbanized Areas Coverage Overlays
- Data from USGS, DRB Point Source, and Other Sensor & Collection Stations as Observation Layers
- Ability to Free Draw and Area or Select 1 Square Km
- Rapid Watershed Delineation (using TauDEM)

Model My Watershed Features

- Analysis of Land Cover, Soil, Animals, & Point Source Data for Selected Areas
- Community: Save, Share & Compare work as “My Projects”
- Site Storm Model Package
 - *Runoff* from TR55 + Robert Pitts’ urban small storm algorithms in WinSLAMM
 - *Water Quality* from EPA STEP-L
- Watershed Multiyear Model Package
 - New GIS layers, *Hydrology & Water Quality* data from MapShed
- Ability to Create & Compare Scenarios of Modeled Changes to Land Cover and Conservation Practices

MMW Future Features

- Stream Network Analysis outputs
 - Stream Network stats
 - Riparian Buffer characteristics
- Additional Map layers for visualization & analysis
- Import/Export Model work to other software
- Watershed Multi-Year model (MapShed) power functions
- & More...