

Community Engagement for Watershed Restoration in Grand Rapids, Michigan

Calvin College
Plaster Creek Stewards

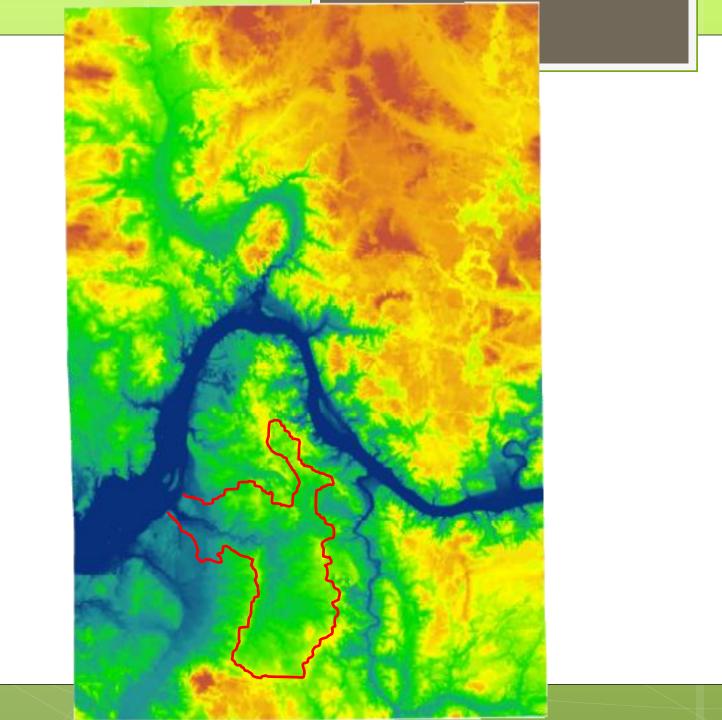
Gail Gunst Heffner, Ph.D. RCE Grand Rapids

Hydrologic Units map



Watersheds are topographical and hydrological units that integrate the landscape into nested sets of drainages.

Michigamme Manistique Escanaba Brevoort-Millecoquins Brule Tacoosh-Whitefish Cedar-Ford Fishdam-Sturgeon Menominee Lake Peshitgo Michigan Oconto Boardman-Charlevoix Watershed Duck-Pensaukee Door-Kewaunee Betsie-Platte (or Drainage Manistee Lower Fox Basin) Manitowoc-Sheboygan Muskegor Upper Fox Lake Winnebago Pere Marquette-White Milwaukee Lower Grand Maple Pike-Root Thomapple Upper Grand Black-Macatawa Kalamazoo Chicago Area Waterway St. Joseph System Little Calumet-Galien



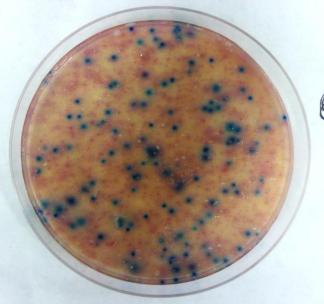


Background statistics:

- Length: approx. 14 miles
- Watershed area: 58 mi²
- Governmental units: 9 (4 municipalities & 5 townships)
- >172churches & 100 schools
- >50% of Calvin faculty/ staff

Main Problems







>5000 E. coli colonies per 100ml!

Safe for body contact= 130 E. coli colonies/ 100 ml





April 2013

Plaster Creek Stewards







A collaboration of Calvin College, churches, schools, and community partners working to restore health and beauty to the Plaster Creek Watershed.



Education and Outreach builds awareness and concern



Social Research

- Oral History Project:
 Remembering and
 recording stories about
 the creek
- Documenting oral histories becomes a way to engage people in watershed protection



Restoration implements healthier watershed practices





Outcomes to date

- Educated more than 1500 people (from ages 3-85)
- Completed 60 educational presentations to school groups, churches, and community organizations
- Volunteers clocked 3,600 hours at various education/action events
- Completed more than 12 on-the-ground major restoration projects
- Received 4 major grants totaling more than \$1.6 million for watershed restoration

Hopeful Vision



Follow us on Facebook under Plaster Creek Stewards