

Coldwater Conservation Project

Rochester Hills City Council
June 21, 2006



Watershed Conservation Campaign

- Generate public support for the Clinton River as a valued recreational resource
- Conservation & habitat efforts to improve:
 - river access
 - water quality, fish habitat
 - river aesthetics
- Multi-year; multi-phased

CRCCP Partners

- DNR Fisheries Division, Livonia Office
- Trout Unlimited Chapters
 - Vanguard
 - Challenge
 - Clinton Valley
 - Paul Young
 - TU National
- Oakland County Planning Dept.
- Auburn Hills
- Clinton River Watershed Council

CRCCP Supporters

- Rochester & Rochester Hills
- Oakland County Drain Commission
- Daimler Chrysler
- Oakland University
- Oakland Land Conservancy
- Michigan Fly Fishing Club
- C. S. Mott Foundation
- St. Paul's Fly Fishing Club

Factors That Lead to CRCCP (2002)

- TU wanted a local project
- Found relevant book for direction
- CRWC's Strategic Plan initiative
- DNR's Clinton River Assessment
- EPA Phase II Storm Water Controls
- Clinton is a unique resource

CRCCP Objectives

- Determine the habitat's "limiting factor" for trout production
- Assess potential for expanding the existing trout fishery
- Increase public awareness and access to the river/tributaries for recreation
- Develop a sustainable, self-supporting fishery

Trout Unlimited's Mission:

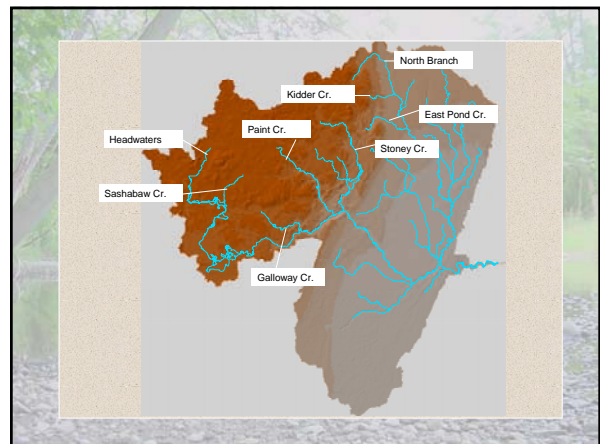
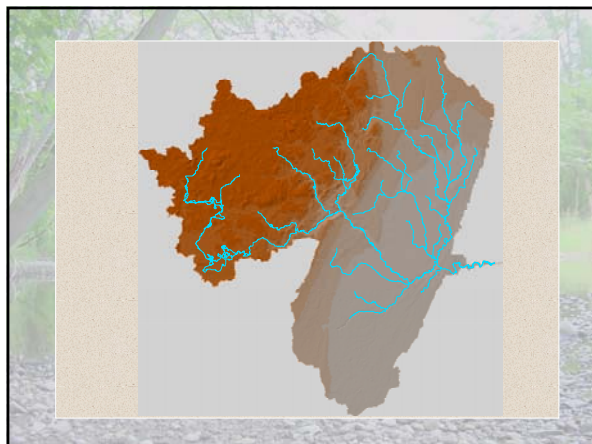
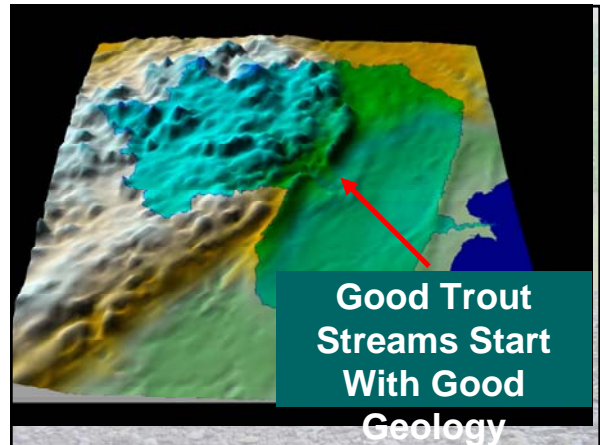
- To conserve, protect and restore North America's trout and salmon fisheries and their watershed

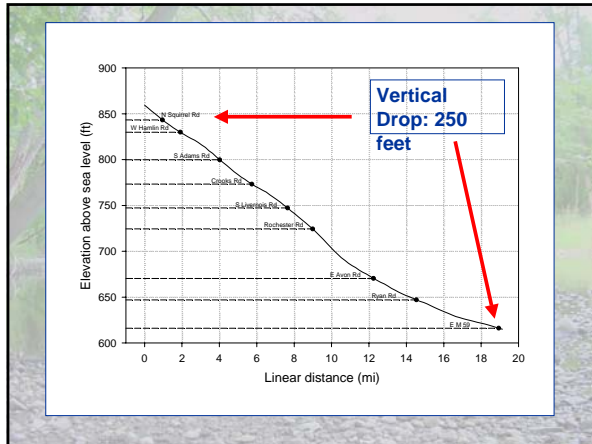
TU's Approach:

- Local, state and national levels
- Extensive and dedicated volunteer network
- National & regional offices
 - ✓ testify before Congress & intervene in federal legal proceedings
 - ✓ publish a quarterly magazine
 - ✓ work with 125,000 volunteers in 500 chapters nationwide

From TU Training:

- Strong Chapters have active members
- Local resource project is the best way to recruit active members
- Enthusiastic members ensure future chapter leadership
- Clinton River Coldwater Conservation Campaign became such a project





Project Study Area

- **Clinton Mainstem (14 miles)**
 - Opdyke Rd., Auburn Hills
 - Yates Dam, Rochester Hills
- **Galloway Creek (5 miles)**
 - Galloway Lake, Pontiac
 - Clinton River confluence, Rochester Hills
- **Paint Creek (15 miles)**
 - Lake Orion Dam
 - Clinton River confluence, Rochester

Potential for Success

- **Current Clinton River steelhead fishery**
 - high angler hours & success rate
 - documented steelhead spawning, upstream to Paint Creek
- **Paint Creek trout fishery**
 - high angler hours & success rate
 - Lake Orion bottom-draw discharge lowered summer water temperatures
- **DNR river assessment**
 - good indicator species
 - good-to-marginal summer water

Clinton River Coldwater Conservation

Approach:

- Gather data to assist DNR
- Determine what is limiting trout production in the project area
- Develop action plan based on those results

CRCCP Volunteer Training

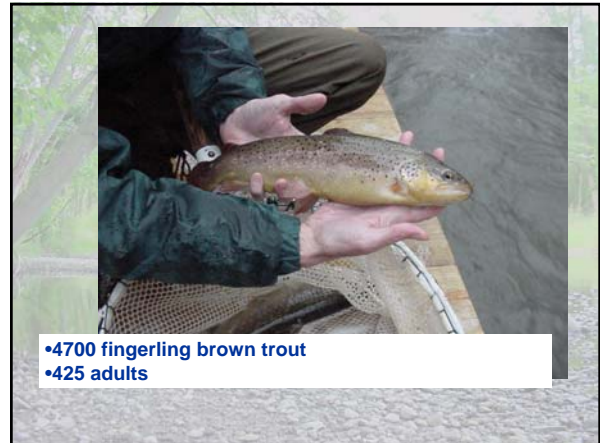
CRCCP Conclusions (to date):

- **Low base flows -- the biggest problem**
 - marginal summer temps
- **Low flow is lake level, not weather related**
- **River & its habitat -- healthier than generally recognized**
- **Setbacks still can occur (2005 fish kills)**

• *What has been accomplished?*

CRCCP Accomplishments (to date):

- Water temperature data (Year 4)
- Water level/flow data (Year 4)
- Macroinvertebrate sampling (Year 3)
- Physical habitat survey (Clinton & Paint)
- MDNR Fisheries Assessment Study
- Brown trout stocking resumed (Year 3)
- Steelhead trout stocking increased



2005 Year-In-Review

6 Projects

Clinton River Restoration Project

- National Fish & Wildlife Foundation grant
- OLC's Blue Heron Rookery Preserve, Rochester Hills
- Quail Ridge, Butler Ridge, & Rookery Woods homeowners
- Under permit by MDEQ, w/ MDNR Fisheries' assistance



Other 2005 Projects

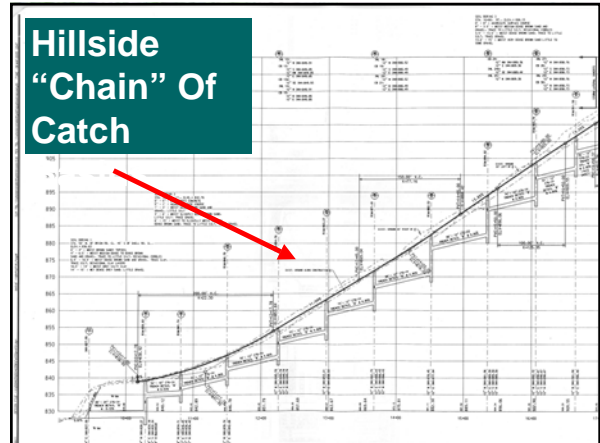
- Paint Creek Road Erosion Repair
- Stream Temperature Monitoring
- River Flow Study
- Clinton River Steelhead Fishery
- River Access Maps

Paint Creek Erosion Repair – Snell Road Hillside

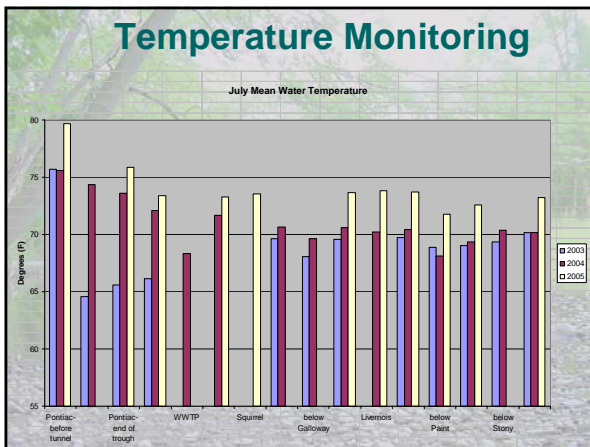


Snell Road Today

Hillside “Chain” Of Catch

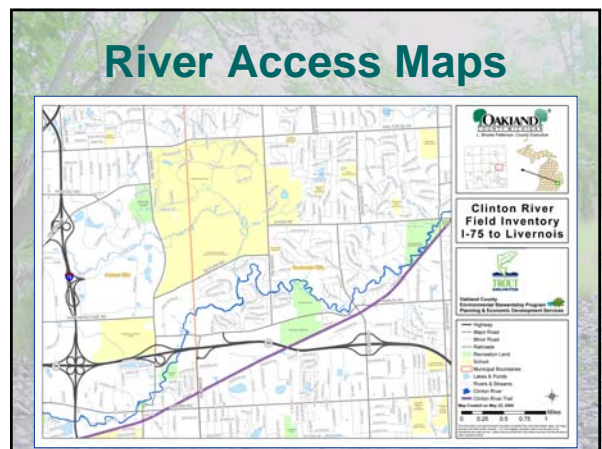
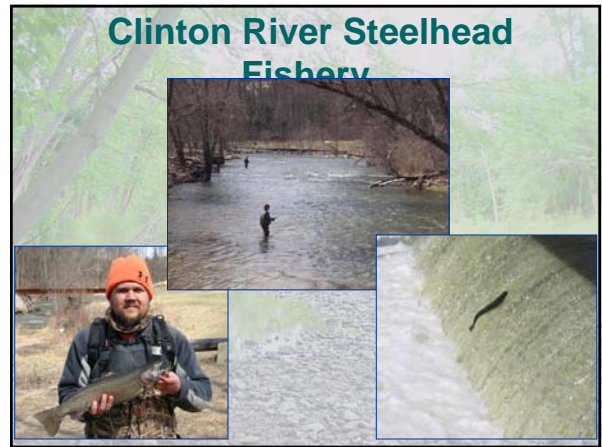
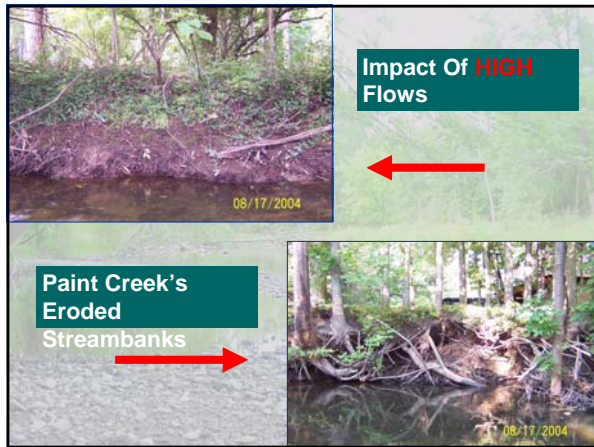
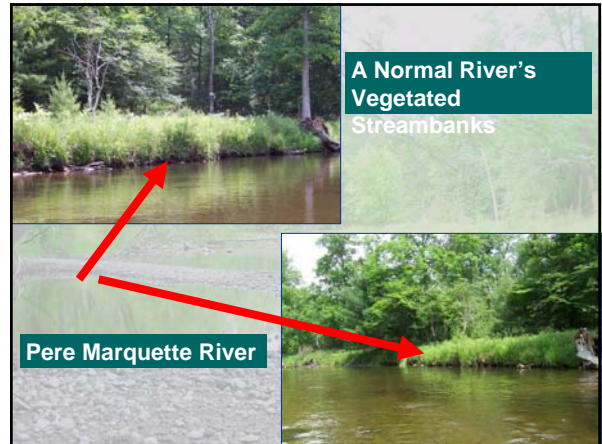


Temperature Monitoring



River Flow Study

- Impact of **LOW** flows
 - Loss of physical habitat (stream width & depth)
 - Warmer water temperatures
- Loss of spawning habitat
- Impact of **HIGH** flows
 - Loss of in-stream shelter
 - Channel sedimentation





Project Direction for 2006

1. "Sit & Study" Clinton River projects
2. "Focus" on Paint Creek
 - Already a managed trout stream!
 - Has its own set of problems
- New volunteers Welcome!



Clinton River Coldwater Conservation Project

**THANK YOU FOR
YOUR
SUPPORT!**

