

Maumee AOC Summit Fall/Winter 2013



Thursday, December 5, 2013 9:30am to 12:30pm

Buehner Center at Oak Openings Preserve

(The Buehner Center is located at the Mallard Lake Area, about a quarter mile west of the intersection of Wilkins Road (SR 295) and Oak Openings Parkway)

AGENDA

9:30-9:45am Welcome and Introductions, also MRAC Report (Patrick Lawrence)

9:45-10:00am Report on PCS Activities (Kristina Patterson)

10:00-11:20am Partner Presentations

10:00 – 10:20	Oak Openings Preservation/Green Ribbon Initiative
	(Steven Woods, The Nature Conservancy)
10:20 – 10:40	Metroparks Habitat Restoration in the Oak Openings
	(Tim Schetter, Metroparks of the Toledo Area)
10:40 – 11:00	The Nature Conservancy's Priorities and Projects in the Maumee AOC
	(Steven Woods, The Nature Conservancy)
11:00 –11:20	Restoration at The Olander Park System
	(Erika Buri, The Olander parks System)

11:20-11:30am Break

11:30-12:05pm Agency Reports

11:30 – 11:40	US EPA Report (Kevin O'Donnell, US EPA Task Force Leader) - INVITED
11:40 – 11:55	Ohio EPA Report (Cherie Blair, Ohio EPA RAP Coordinator)
11:55 – 12:05	TMACOG Report (Matt Horvat, Lower Maumee River Coordinator)

12:05-12:25pm Additional Partner Reports/Project Updates

• Open floor for project sharing by any other partners (i.e. Duck and Otter Creek Partnership, City of Toledo, Metroparks, TNC, DU, etc.)

12:25-12:30pm Closing comments and announcements

Next Maumee AOC Summit

Spring/Summer 2014 Thursday, May 8, 2014 9:00am-12:30pm

Location: The University of Toledo



Partners for Clean Streams

Highlights of our 2013 Success in the Maumee AOC

By Kris Patterson, Executive Director

Thank you, Davey Resource Group, for the wonderful breakfast!

PCS and Maumee RAP Committee





- * Formed in 2007 grew out of the Maumee RAP Program
- * A separate 501(c)3 non-profit community organization
- * Supports local and regional water quality improvements
- * Maumee RAP Committee is nestled in PCS organization and works side-by-side with State and Federal RAP program

PCS is striving for abundant open space and a high quality natural environment; adequate floodwater storage capacities and flourishing wildlife; stakeholders who take local ownership in their resources; and rivers, streams, and lakes that are clear, clean and safe.

11th Annual Youth Patch Day Workshop

Sunday, March 3, 2013

- * 90 Children
- * 13 adults
- * 103 patches were given
- * Topics included various water conservation subjects, such as water gardens, recycling, waste treatment, water cycle and agriculture
- * Training for Storm Drain Marking
- Each participant received a bag of educational activities



Storm Drain Marking

Saturday, April 27, 2013

- * In conjunction with Global Youth Service Day
- * 369 catch basins were painted and 1,010 homes received educational door hangers throughout 8 jurisdictions with 95 participants
- * Jurisdictions included Waterville, Oregon, Rossford, Northwood, Ottawa Hills, Holland, Genoa and Sylvania







8th Annual Get the Lead Out

- * 39.7 pounds of lead were collected
- * A total of 76 volunteers including Bass Pro Shop, Boy Scout Pack 43, Toledo ZooTeens, Ft. Meigs YMCA Leaders Club, YWCA TOPS
- * In 7 private and 2 public outings, volunteers covered 3 miles of the banks of the Maumee River
- * GLO was in local news encouraging volunteers to come out to the event





17th Annual Clean Your Streams Day

Saturday, September 21, 2013

- № 941 volunteers participated
- * Removed 16,366 pounds of trash with 914 trash bags and 96.5 tires
- * Cleaned at 57 sites, 33 miles of stream, and river banks in 3 watersheds
- * Introduced #CYS 17 via Twitter
- * Interesting & Unusual finds include: porcelain frog, hair weave, pink bike tire, sewing machine, shot gun shells, worm bait containers (40), sled, butter knife, child's swing, EKG pad, wedding veil, cash register, dream catcher, toilet float, hockey stick, light saber, dental retainer, suitcase and much more



Camp Miakonda and
Ottawa River Restoration Completion

\$1.35 Million GLRI grant from US EPA – Great Lakes Restoration Initiative (GLRI)

- * Goals of restoration project:
 - * Restore/enhance approx. 10 acres wetland & approx 30 acres of upland habitat
 - * Reduce erosion in Ottawa River
 - * Increase in-stream habitat for fish and macro invertebrates
 - * Increase diversity of in-water habitat for Lake Sawyer, allowing fish to winter over and allowing more active use of Lake Sawyer by Scouts
 - Encourage educational use of wetland, lake, river, and upland habitat



Adaptive Management at Camp Miakonda



Improving erosion control in Hartman Ditch with mini-Bendway Weirs and plantings



Post-project monitoring with EnviroScience



Filming Potomologist Dave Derrick with US ACE to educate others on methods



Planting native seed for Cub Scouts to grow and re-plant at Camp Miakonda

Augmenting the Restoration



Restoration Site was used as educational resource for Cub Camps, high school class and professional development conferences

New Wildlife Sightings



Yes! That's really a Bald Eagle! One of three (3!) sighted around camp now!

Restoring Habitat in the Maumee AOC with the Maumee Corps

- * \$800,000 Grant through NOAA to revitalize the area's economy and improve natural habitat areas
- * Project partners include The Metroparks of the Toledo Area, The Nature Conservancy, The University of Toledo, The Olander Park System, and NOAA
- * 29 employed full-time and seasonal/ part time jobs
- * Addressed over 1,400 acres of invasive plant species treatment & removal, native planting, and preparing for prescribed burning
- * Work started in early 2013 and continued into late fall of 2013, will resume in spring of 2014

Maumee Corps Interns

8 PCS interns spent the summer improving the Ottawa River at The University of Toledo, The Olander Park System, and Camp Miakonda



Plant Surveying at Sylvan Prairie Park



Maumee Corps









Invasive species removal at University of Toledo and Camp Miakonda

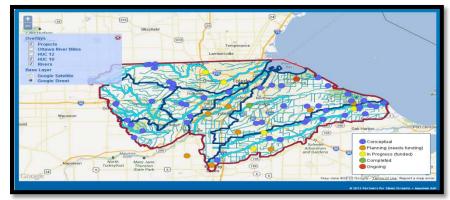
Maumee Corps in 2014

- * Continue with seasonal and part time employees at The Nature Conservancy and The Metroparks of the Toledo Area to complete prescribed burns, invasive species removal, and more habitat restoration
- * These restoration projects help restore the globally rare habitat in the Oak Openings Region and other areas in the Swan Creek and Ottawa River watersheds



Data Management and Delisting System (DMDS)

- Received OEPA grant to compile restoration projects within the Maumee AOC into an online data management system
 - Invaluable tool in determining Beneficial Use Impairments and restoration project needs for the Maumee AOC
- * Working with contractor Davey Resource Group
 - Project Management Team: OEPA, PCS, TMACOG, UT
- First of its kind in all of the Great Lakes Region



Where is PCS headed in 2014?

- **Great Lakes Restoration Initiative**
 - * Continue Maumee Corps grant, under NOAA, to restore various smaller habitat projects in AOC and put people to work with Maumee Corps
 - * Continue working with Boy Scouts on outreach, education, and signage at Miakonda
- *** Continue Community Outreach and Education Programs**
 - * Use \$17,000 grant from the Toledo Community Foundation to improve stream cleanup programs
 - * Youth Patch Workshop, Get the Lead Out, Storm Drain Marking, and Clean Your Streams Day!
 - Fundraising to increase individual giving
 - * Increase Social Media and refresh our current website to increase user interaction
 - * Implement our WaterGrass database to improve communication with partners & members

* Maumee RAP

- Working with Ohio EPA RAP Coordinator and active Maumee RAP partners to refresh and update watershed plan for region (a.k.a. DMDS)
- * Continue hosting Summits, maintaining fiscal accountability, and building committee input

Partner Award

PCS Annual Award for Environmental Stewardship & Involvement By Dr. Patrick Lawrence

Clean Streams Partner Award

Clean Streams Partner Award was created by the Partners for Clean Streams Board of Directors in 2007 to honor individuals and/or organizations in our community that have, through their efforts, worked to improve our rivers and streams.

Previous recipients have included:

2007 - Sue Horvath

2008 - John Jaeger

2009 - Marilyn DuFour

2010 - Tom Henry

2011 - Steve Pollick & Matt Horvat

2012 - Terry Shankland



THIS YEAR'S AWARD IS PRESENTED TO ...

Cherie Blair

Cherie Blair has been the Maumee Remedial Action Plan Coordinator for Ohio EPA since 1996. She was the first Maumee RAP Coordinator in the watershed, working in the district office for Ohio EPA and living in the Area of Concern. Prior to that she worked at the Ohio Lake Erie Commission and helped start the Coastweeks program and the Lake Erie license plate program. She received her undergraduate degree from Adrian College but her passion for water began as a child. Cherie grew up on Lake Erie, literally, commuting between Marblehead and Kelley's Island.

With her passion for the area and for water, she continuously goes above and beyond the basic fundamentals of her job by volunteering time in evenings and weekends. She tirelessly works to disseminate information to help groups plan strategically and to leverage more resources for improving water quality in the region. She has become a central pivot point in the work being done by the many partners including businesses, government and non-profit agencies working toward clean, clear and safe waters.

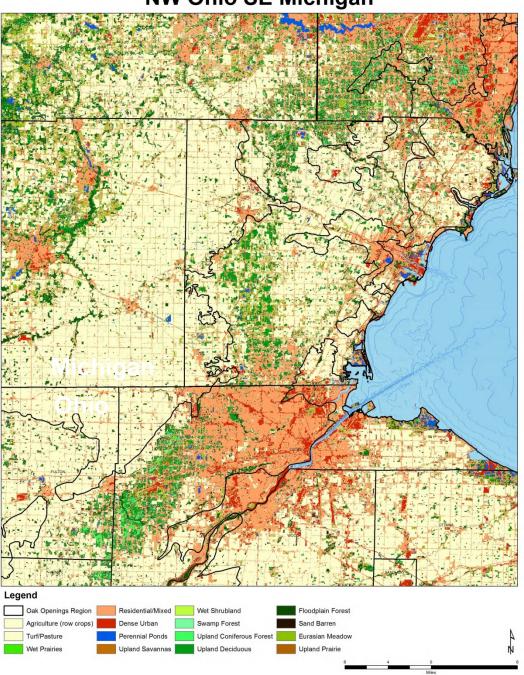
Cherie is receiving the Clean Streams Partner Award because of her countless hours and dedication for the work she does with Partners for Clean Streams and for the Maumee AOC, which goes way beyond her job description as Maumee RAP Coordinator for Ohio EPA.





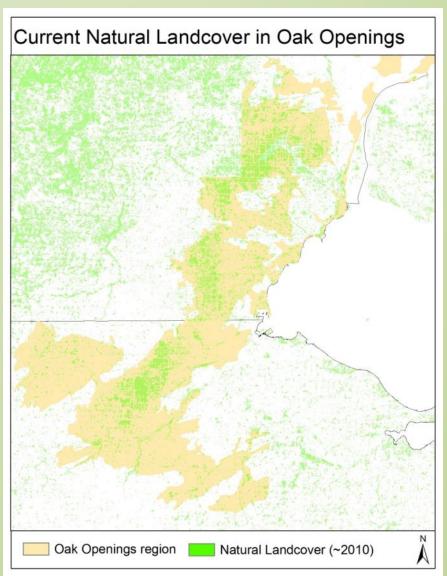


Landcover in the Oak Openings of NW Ohio SE Michigan



The Oak Openings

- Historic shoreline of Lake Warren
- 1300 square miles in NW Ohio & SW Michigan
- 9% of Western Lake Erie watershed
- 36% of Maumee River watershed
- Globally rare plant communities and species
- Higher concentration of diversity than anywhere else in Ohio



The Green Ribbon Initiative

Who

Steering Committee: TNC,
Metroparks of Toledo, Olander
Parks, ODNR Wildlife and
Forestry, Toledo Naturalists,
Black Swamp Conservancy, Oak
Openings Region Conservancy,
Black Swamp Bird Observatory,
Toledo Zoo,

Other partners: Wild Ones, BGSU, UT, TSN, MNA, SMLC, HCMA, MDNR, Townships, TMACOG, DU, OPA,

What

- Create and implement the OO region conservation plan
- GRI provides tools, resources, information, support structure, networking

The Green Ribbon Initiative at a glance

Formed in 2000

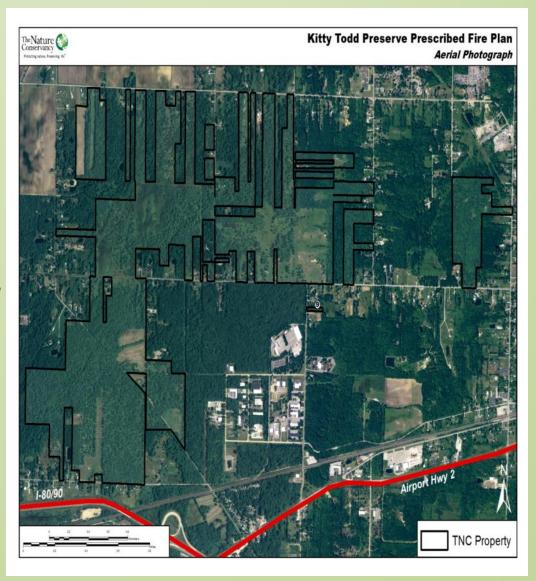
Vision:We envision a cooperatively managed landscape containing multiple viable examples of each natural community comprising the Lake plain Oak Openings Ecosystem, spread sufficiently across their historic range to capture the full range of variability within these systems and to buffer against the uncertainty associated with climate change.

Mission:

- Educate community about Oak Openings Region
- Identify the critical natural areas
- Support the preservation of the critical natural areas
- Support the restoration and enhancement of the critical natural areas
- Build partnership coalition
- Support partner organizations in ongoing, sustainable efforts in the Oak Openings region

Threats to Oak Openings

- Fire suppression
- Invasive plants
- Fragmentation/ development
- Ditch/drain wet prairies
- Lack of public understanding and appreciation
- Climate Change



Collaboration



Benefits

- Avoid duplication of effort
- Incorporating the best knowledge and information into decision making
- Greater funding to support conservation
- A public face to our partnership
- Using a unified approaches to assessing success
- Speaking the same language
- A forum to support one another and sort our differences

1. Provide resources



2. Give lots of compliments.....publicly



3. Talk lots and share the vision



4. Relinquish control



5. Collect consolidate and share information



Avoid pointless meetings at all costs

-Are you lonely?

Tired of working on your own?

Do you hate making decisions?

HOLD A MEETING!

You can -

- See people
- Show charts
- Feel important
- Point with a stick
- Eat donuts
- Impress your colleagues

All on company time!



MEETINGS

THE PRACTICAL ALTERNATIVE TO WORK:

Developing strategies

- Action to address threat/vector
- Plan of attack where is best intervention point?
- Developed by specific teams/groups
- Key strategies for Oak Openings conservation
 - Invasive species
 - Policy work w/ townships, education
 - Restore fire regime
 - Hydrologic alterations
 - Offer input on drainage, dumping, mining, etc. laws
 - Reduce evapotranspiration





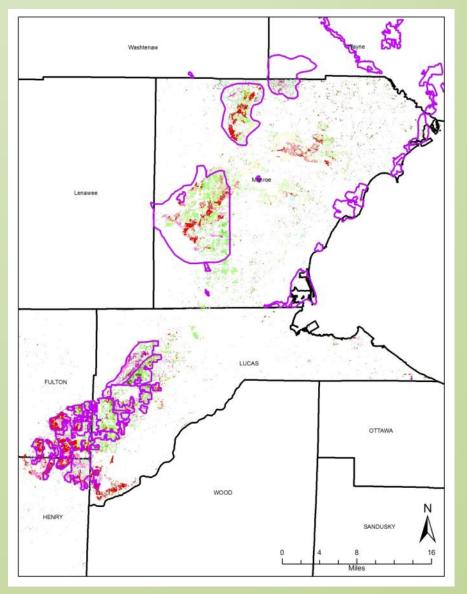


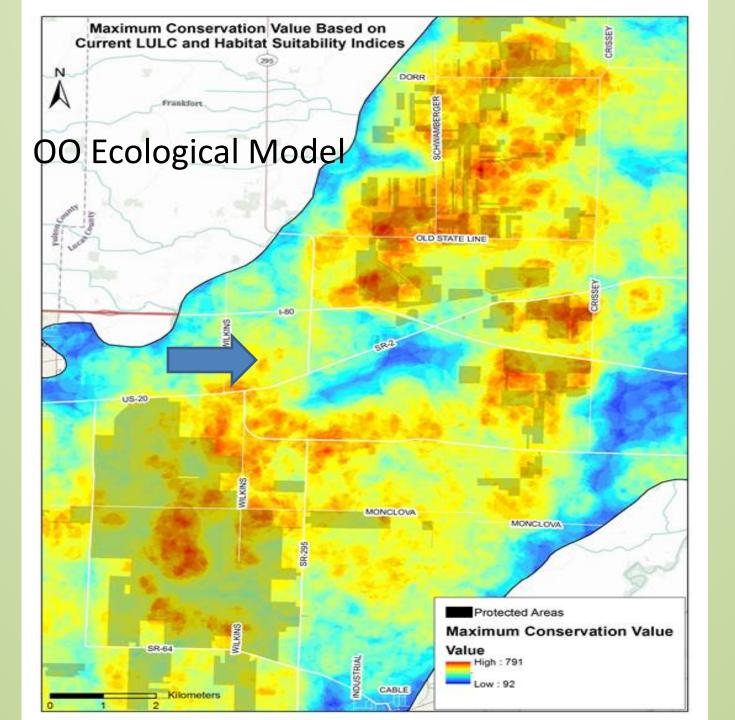




Taking Action

- Prioritizing at landscape scale
 - Ecological model
- PCAs
 - 20 priority areas







Existing Projects

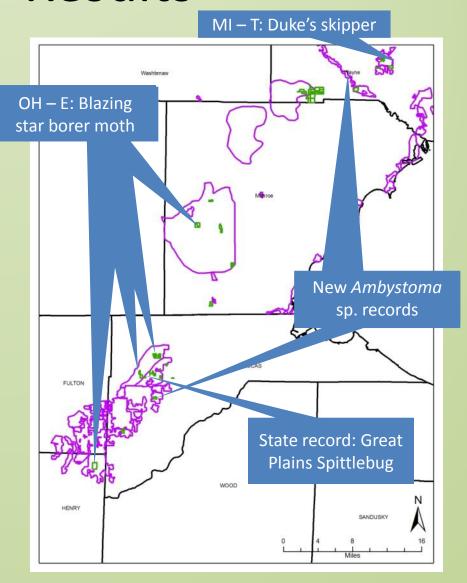
- Wet Prairie Restoration
- OORAM development
- Website/facebook pages
- Private Landowner registry
- Living in the Oak Openings
 Guide
- Interagency Restoration
 Team
- Conservation calendar

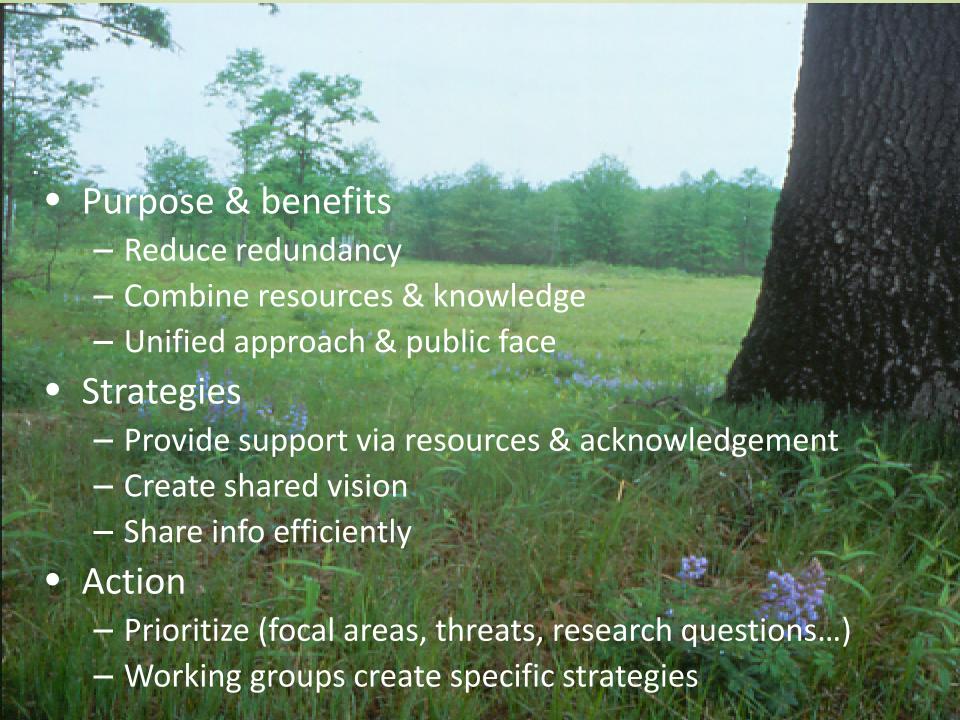
Emerging Projects

- Talking points about restoration practices
- Savanna restoration and KBB habitat assessment
- Finishing the ecological model
- Ecosystem Services Analysis
- Media campaign
- Land protection

Action \rightarrow Results

- Interagency Restoration Team
 - >50 private landowners
 - New partnerships with public agencies
 - Townships
 - Power companies/right-ofways
 - Monitoring private lands
 - Findings...
 - Goal: >4000 acres restored in all ecosystem targets
 - Currently @ ~650 acres with funding for 600 more





Metroparks in the Maumee AOC: Oak Openings and Beyond

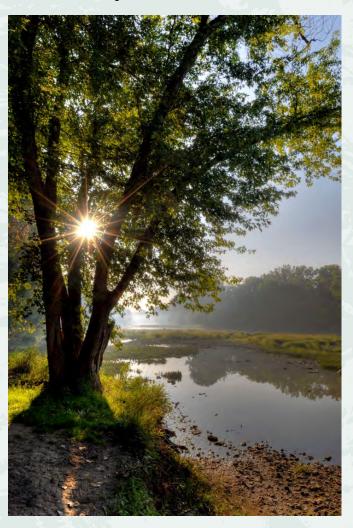


METROPARKS TOLEDO AREA

Your Clean, Safe, Natural Places To Be

What is a Metropark?

Metropolitan Park District of the Toledo Area



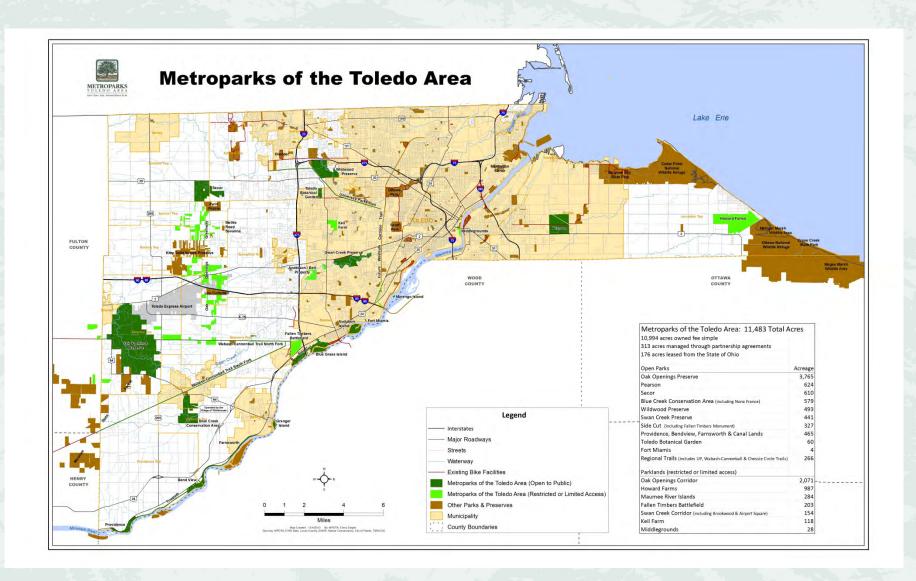
Established in 1928 (ORC 1545)

Regional System of Public Parklands with Natural and Historical Significance

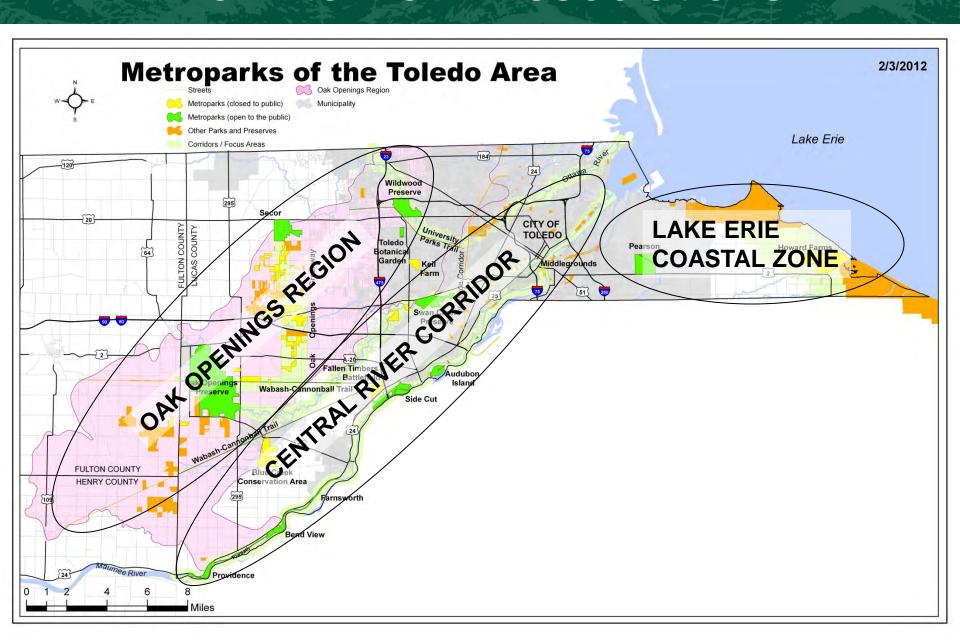
To enhance quality of life and inspire preservation efforts in this and future generations

Primary Funding: Tax Levies

11,483 acres of parkland in Maumee AOC 11 parks, 2 regional bikeways & Toledo Botanical Garden

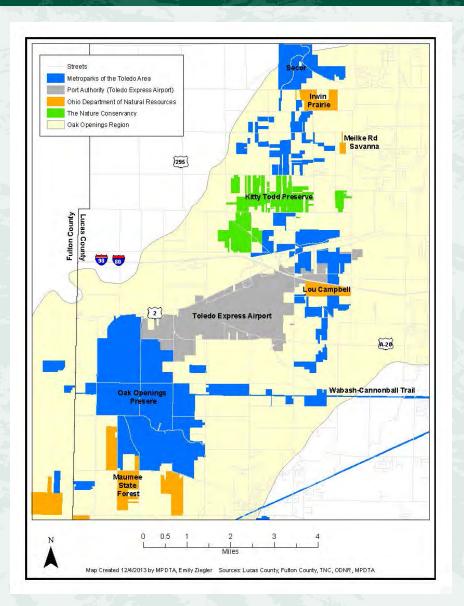


Park-to-Park Associations



Oak Openings Region Land Conservation

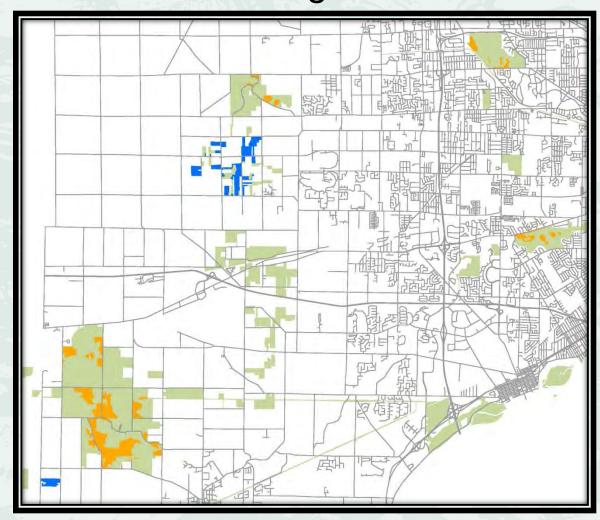
- 2,141 acres acquired since 2003
- 2002 Land Acquisition Levy
- Clean Ohio Fund
- WRRSP (City of Toledo)
- GLRI AOC Land Acquisition
- ODOT
- Provided \$2.4 million in GLRI matching funds



Oak Openings Region Habitat Restoration

1,227 acres restored since 2011 through GLRI

- US EPA Wet Prairie subaward through TNC (2011-14)
- NOAA Maumee Corps subaward through PCS (2013-14)
- NFWF Interagency subward through TNC (2014-15)



What do we mean by "habitat restoration"?









What do we mean by "habitat restoration"?





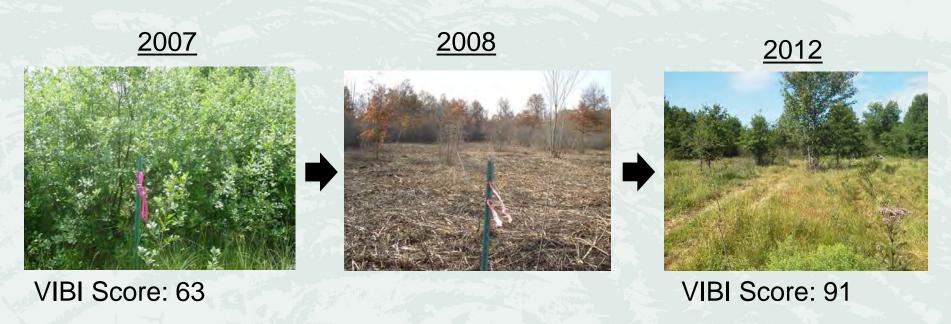




Blue Creek Native Seed Nursery

Benefits of Habitat Restoration

- Improved Wildlife Habitat (Quantity and Quality)
- Endangered Species Conservation
- Improved Wetland Function & Extended Hydro-period



Dorr Street Prairie

Oak Openings Region 2014 and beyond

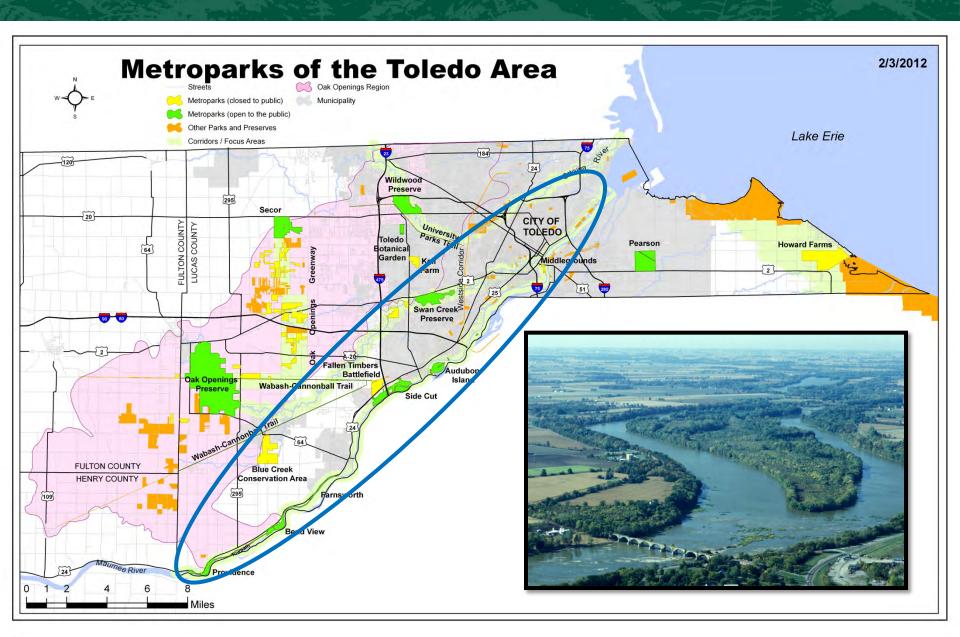
- 500 acres of land acquisition targeted for 2014-15
- 2014 GLRI NFWF Proposal: Metroparks, TNC, ODNR 800 new acres of habitat restoration targeted in AOC







Central River Corridor



Central River Corridor: Middlegrounds Metropark in 2015

"A site that once connected peopled and goods from the river to the land will now connect people back to Toledo's waterfront"

- Urban Forestry Grant (USFS, City of Toledo)
- Seeking GLRI Funding through USACE for wetland restoration

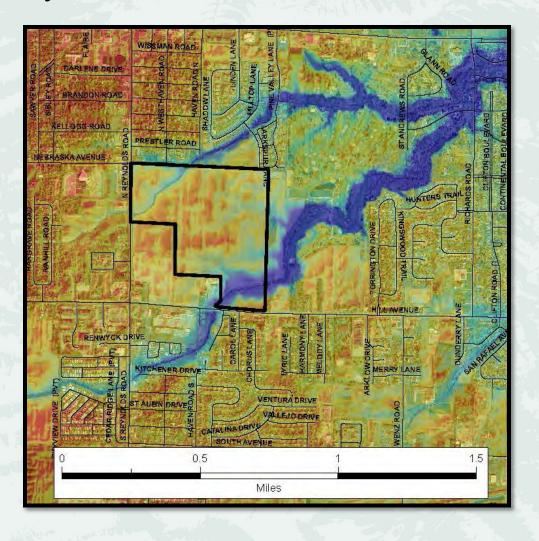




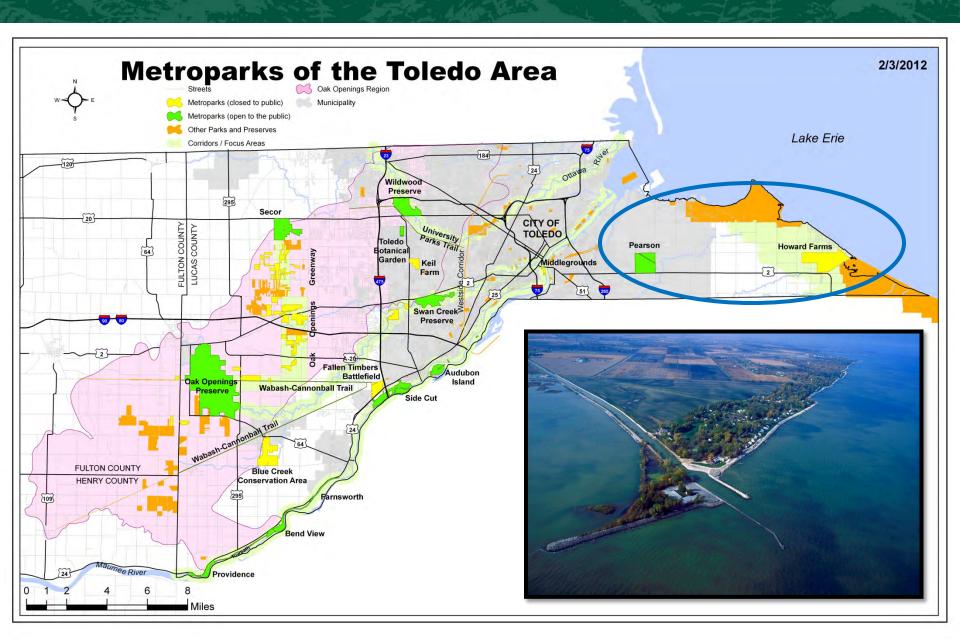
Middlegrounds during site cleanup

Central River Corridor: Keil Farm

Opportunity for Stream & Wetland Restoration



Lake Erie Coastal Zone



Howard Farms (987 acre)

Acquired in 2008 for \$6 million

- ODNR Division of Wildlife
- Clean Ohio Fund
- 2002 Land Acquisition Levy

Restoration Planned: 2014-15

- NOAA Award to Ducks Unlimited
- ODNR Division of Wildlife
- Seeking additional GLRI NOAA funding
- Planning, Implementation & Monitoring Support from Multiple Agencies

Howard Farms Concept Plan



TNC in the Maumee AOC



TNC's Mission: To conserve the lands and waters on which all life depends



Big Picture Goals

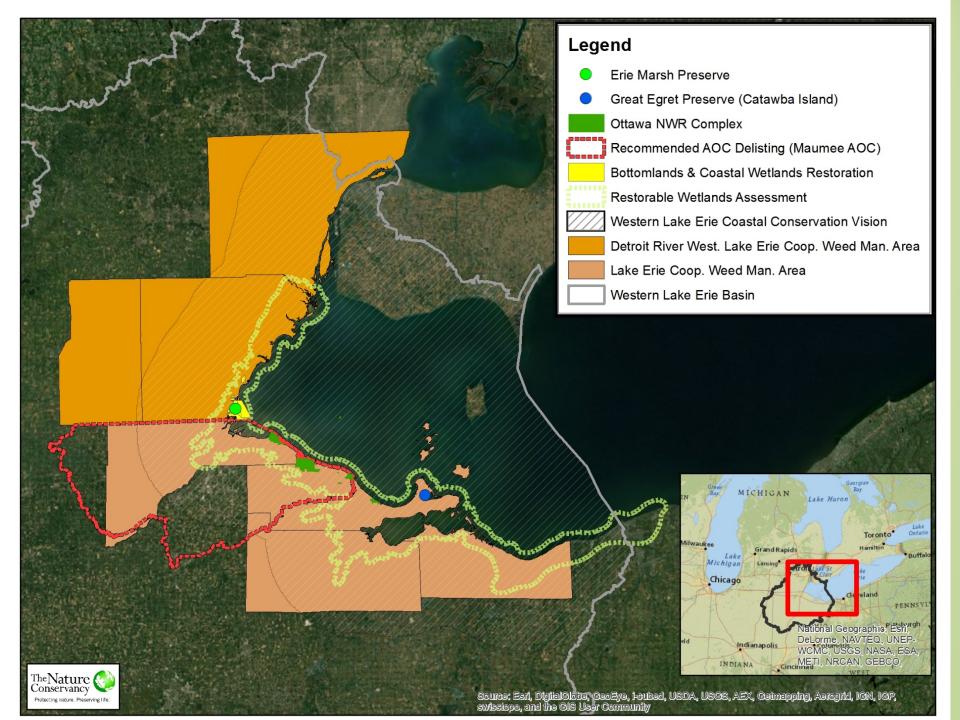
- Make the Great Lakes among the best managed ecosystems on the planet
- Restore 40% of coastal area within 2km of lakeshore to natural land cover (current amount is about 20%), including a 10% increase in wetlands.
- Retain at least 30% of select Lake Erie tributary watersheds in natural cover, control invasive plants at or below current levels, and remove or rebuild key dams to improve water quality, access for fish, and wildlife habitat.
- Get 10% of 533,000 acre Oak Openings region and 30% of 120,122 acre
 PCAs in conservation ownership with all natural communities represented in proportion to historic conditions.
- At least 50% of Priority Conservation Areas in natural cover, control invasive plants at or below current levels and maintain populations of nested targets.

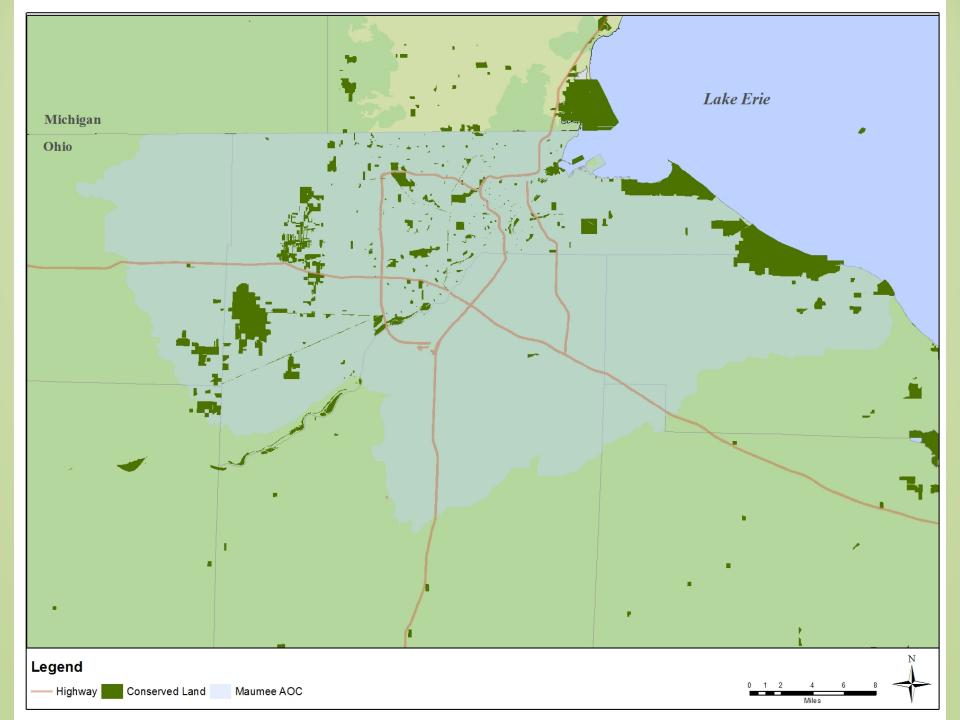
in AOC TNC works

- For delisting of habitat related BUIs
- Through our Great Lakes Project
- Through our Coastal projects
- Through our Oak Openings Project Office
- Through collaborative planning and partnership with like minded organizations

Great Lakes Project

- Lake Erie Biodiversity Conservation Strategy (Lakewide planning effort)
- Restoration Projects Database (AOC based)
- Lake Erie Coastal Conservation Vision
 (Incorporates both ecological and socio-economic values in AOC and beyond)

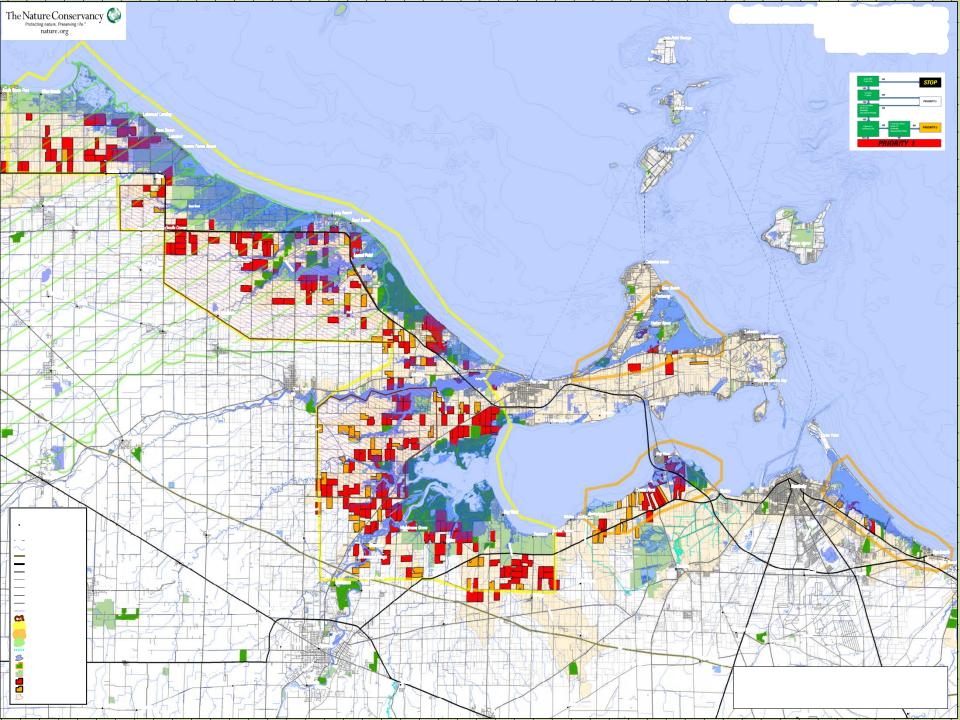




TNC Coastal Projects in AOC

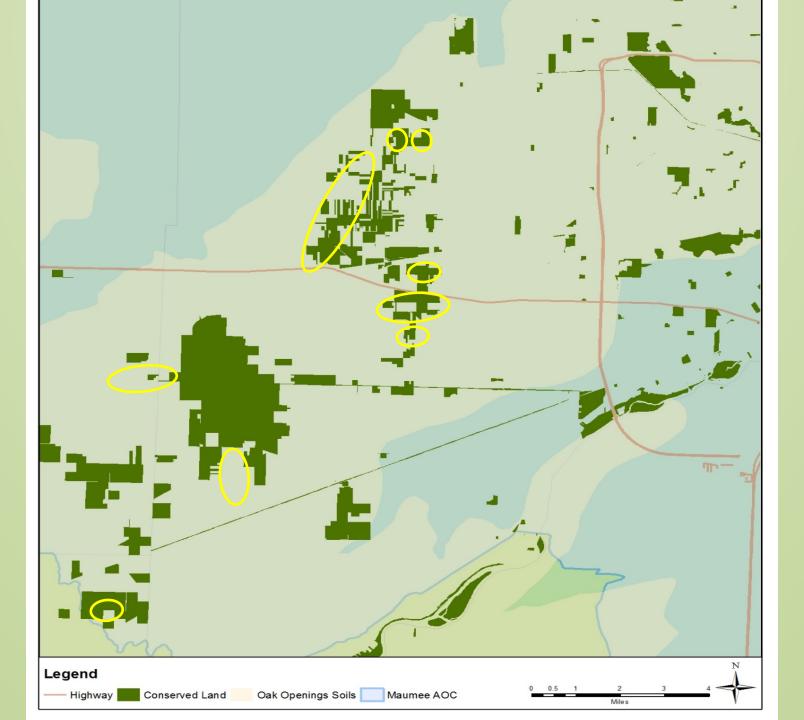
- Identified Priority Lands
- 2010 USFWS Phragmites Control in Western Lake Erie Coastal Wetlands - 2,000 acres
- 2011 USEPA Long-term
 Phragmites Control through the Lake Erie CWMA 1,200 acres
- 2012 NOAA Habitat Restoration in the Maumee Area of Concern -512 acres
- 2012 NFWF Coastal Wetland Restoration in the Maumee Area of Concern - 505 acres
- 2013 NFWF Coastal Habitat Restoration in the Western Lake Erie Basin - 575 acres





TNC Oak Openings Projects in AOC

- WRRSP land acquisition Since 2008 we've protected over 240 acres
- 2010 USEPA Wet Prairie Restoration in Maumee AOC, 601 acres
- 2011 NFWF SOGL Interagency Restoration Team, 500 acres
- 2011 GRI ecological model
- 2013 NFWF SOGL Interagency Restoration Team Phase 2, 400 acres
- Partner with PCS on "Maumee Corps" project, 140 acres



What's next for TNC?

- Aid partners in delisting
- Coastal work is TBD when open positions filled
- Complete acquisition and restoration at KTP preserve
- Continued work connecting conservation lands and restoring function
- Increased exposure for conservation
- Expand/extend private lands work
- Current assessment of habitat condition



Specific Priority Projects

- Finish our Ecological Model
- Qualify and Quantify Ecosystem Services in Oak Openings
- Manage Savannas and connect KBB habitat
- Direct wetland mitigation funding to priority areas

- Re-introduce Bison to Oak Openings to promote ecotourism
- Establish BMPs for grassland creation
- Create compatible hydrology in ditches, marshes and lake plain prairies



Restoration at The Olander Park System

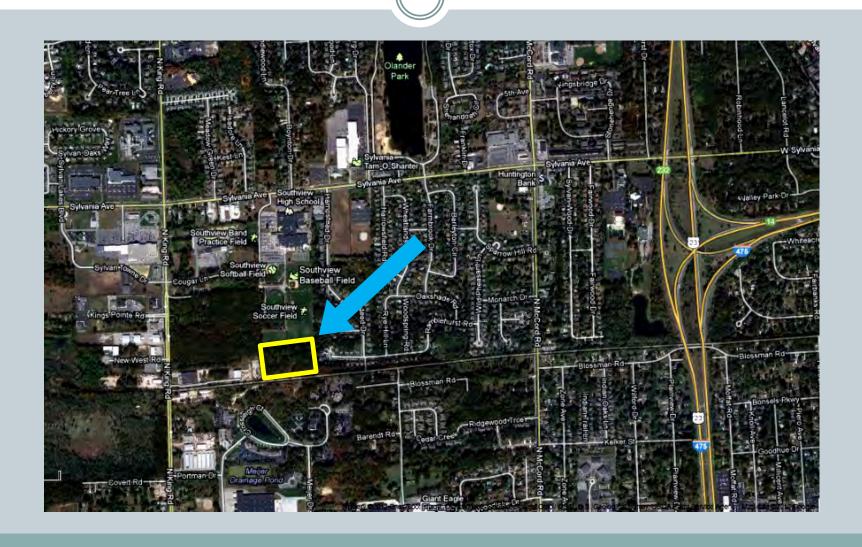


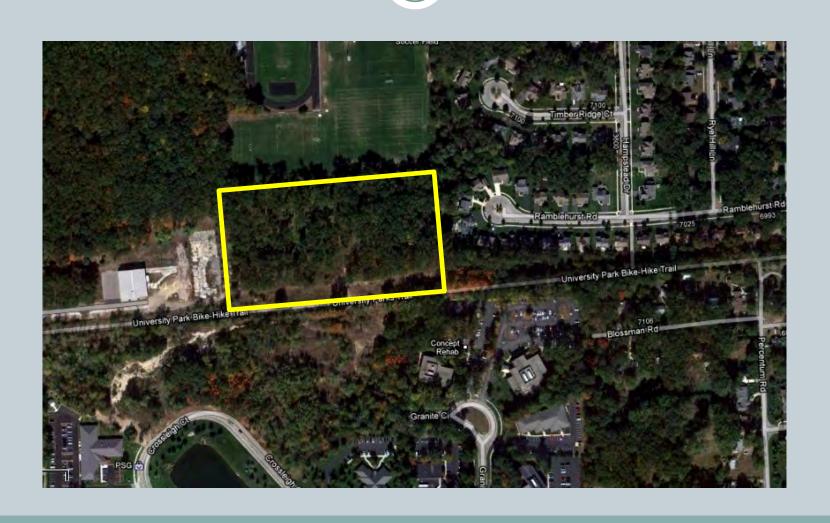


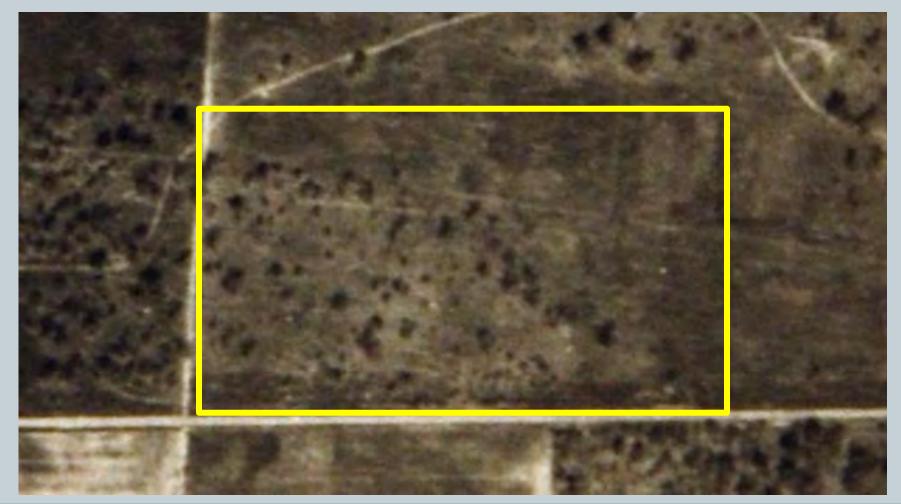


Erika Buri, Interim Director, The Olander Park System

Southview Oak Savanna





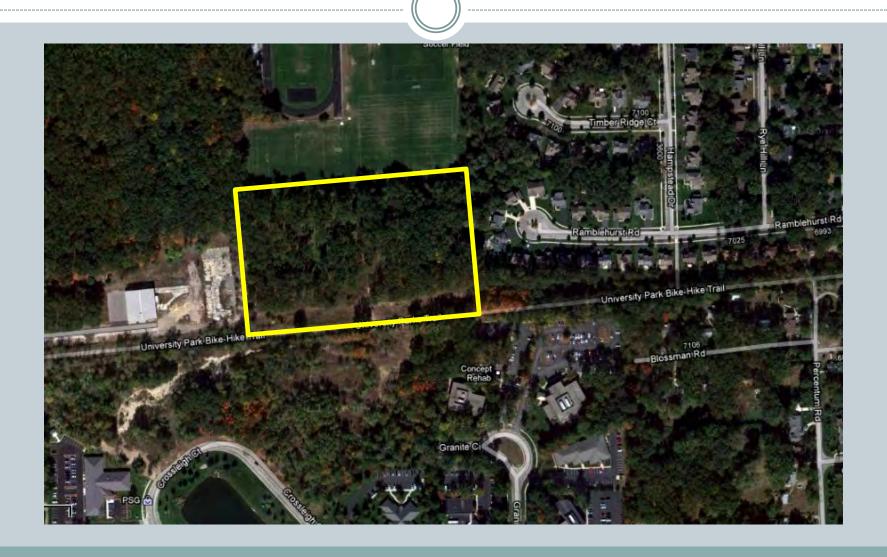


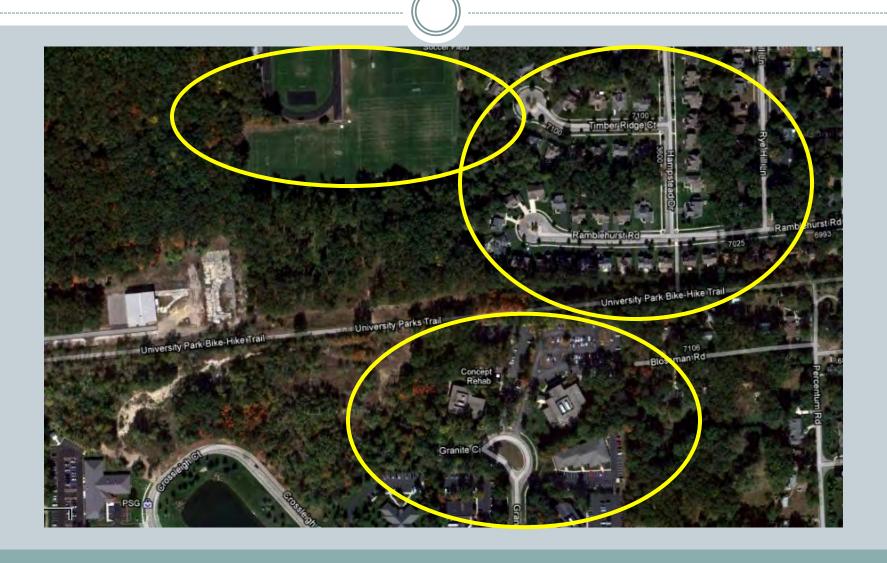


State Listed Species on-site 1996

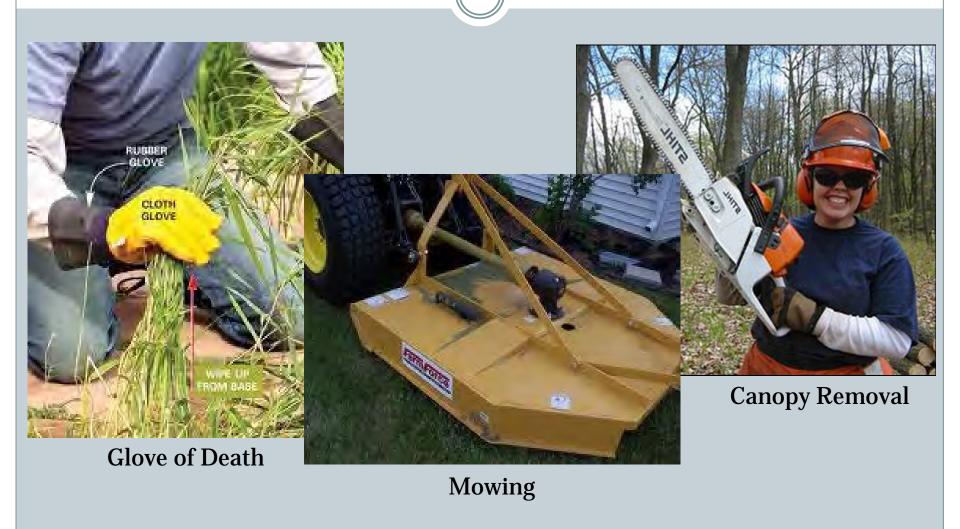
Sweet Fern (<i>Comptonia peregrinia</i>)	Hairy Pinweed (<i>Lechea villosa</i>)
Lyre-leaf Rock-cress (Arabis lyrata)	Sessil Tick-trefoil (<i>Desmodium</i> sessilfolium)
Plains Puccoon (<i>Lithospermum</i> caroliniense)	Sand Dropseed (<i>Sporobolus</i> crypandrus)
Sand Cherry (<i>Prunus pumila var.</i> cuneata)	Blue Lupine (<i>Lupinus perennis</i>)
Porcupine grass (<i>Hesperostipa spartea</i>)	Canada Frostweed (<i>Helianthemum</i> canadense)

--Terry Seidel, TNC











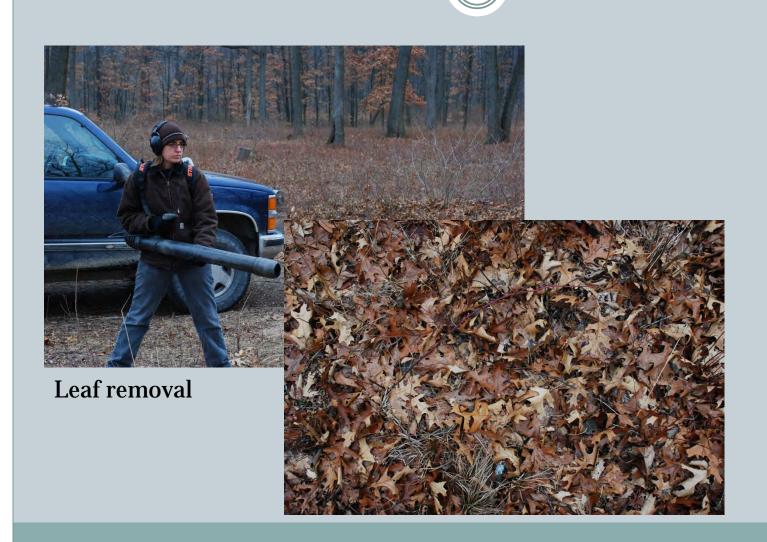


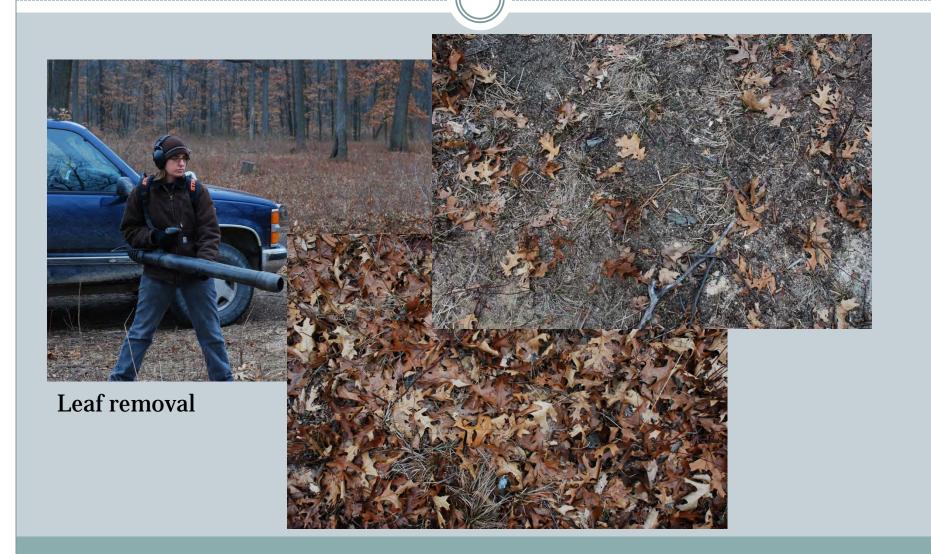
2010 Aerial





Leaf removal to reduce soil nutrients and moisture









plants emerged since 2001

Prairie Fern-leaf-False Foxglove (*Aureolaria pendicularia var. ambigens*) E

Missouri Rock Cress (Arabis missouriensis) E

Dwarf Dandelion (Kriga virginica) P

Prairie Thimbleweed (Aneneome cylidrica) T

Racemed Milkwort (Polygala polygama) T

Yellow Wild Indigo (Baptisia tinctoria)

Increased/additional populations of Lupine, Goat's Rue, Prairie Puccoon, Canada Frostweed, Blueberry, Whorled Milkweed



Sampling Methods

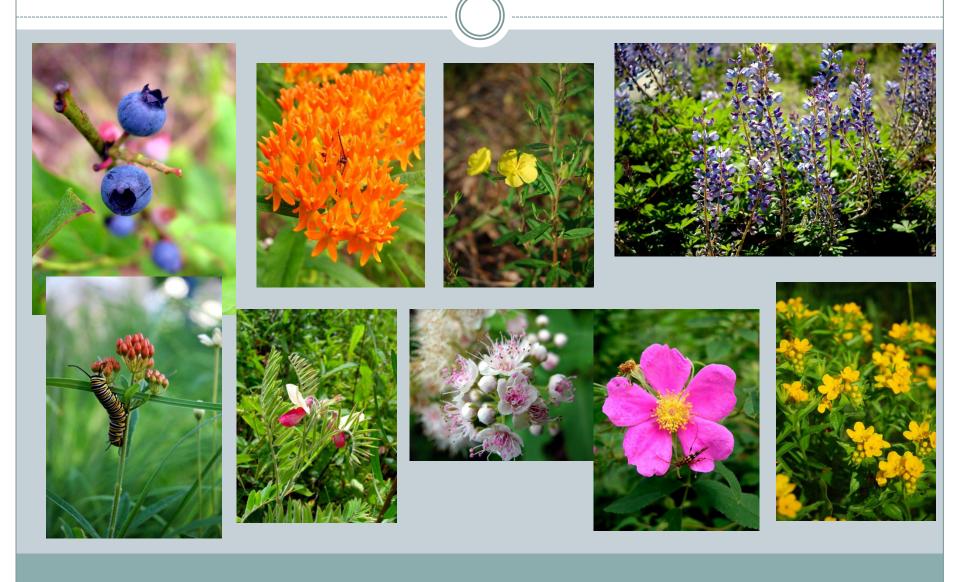
- o 50 cm Hoops randomly thrown
- Counted morphospecies
- Counted stems of each morphospecies
- Counted woody stems
- Pitfall traps for arthropod collection
- Soil samples for microbial communities



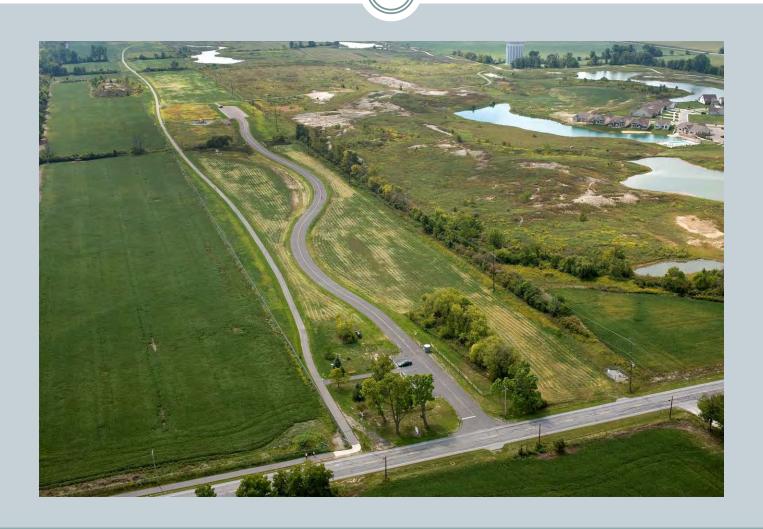




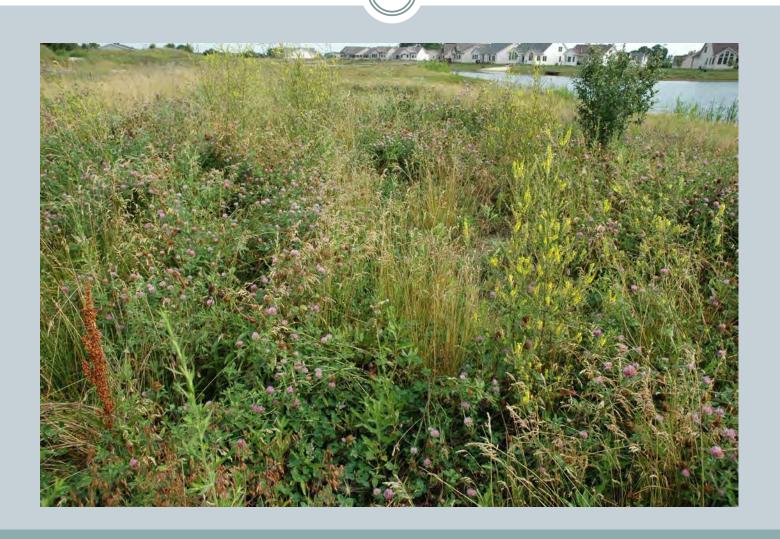
	N	Mean Richness		Mean Stem Density		Mean % Woody	
Mowing & Spraying	12	4.4 ± 1.3	p = 0.34	22.2 ± 15.9	p = 0.27	40.4 ± 26.9	p = 0.14
Mowing, Spraying & Blowing	8	4.6 ± 2.4	p = 0.62	19.3 ± 12.3	p = 0.13	35.1 ± 33.0	p = 0.41
Control	11	5.2 ± 2.3		30.5 ± 18.9		23 ± 27.0	



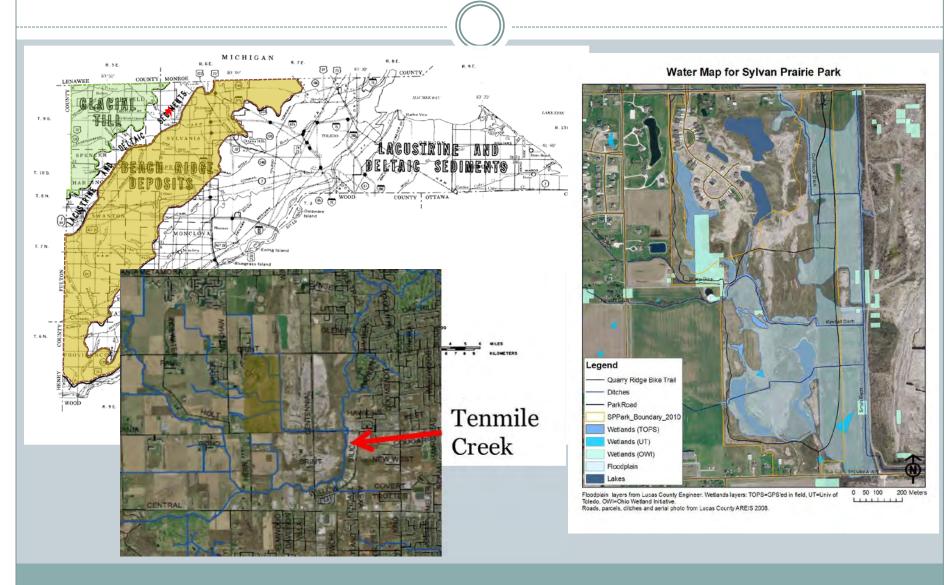
Sylvan Prairie Park

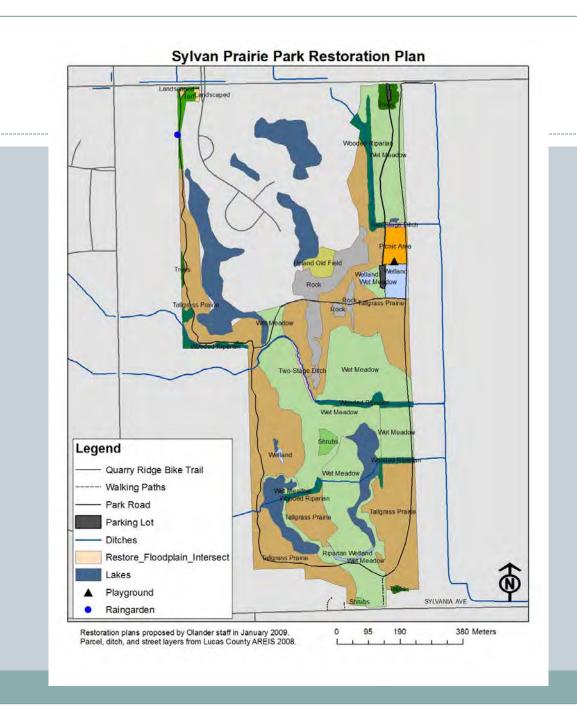


Sylvan Prairie Park



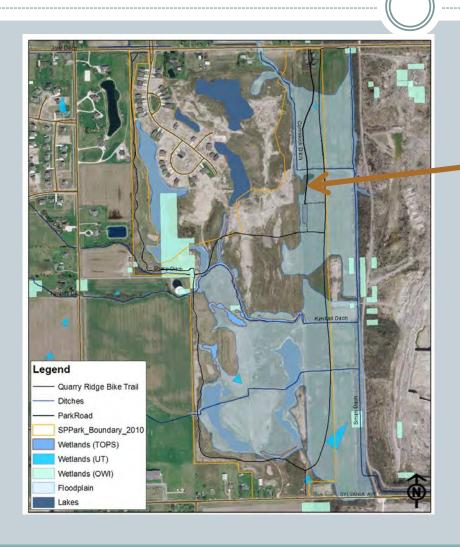
Sylvan Prairie Park











2009 Comstock Ditch—100 feet

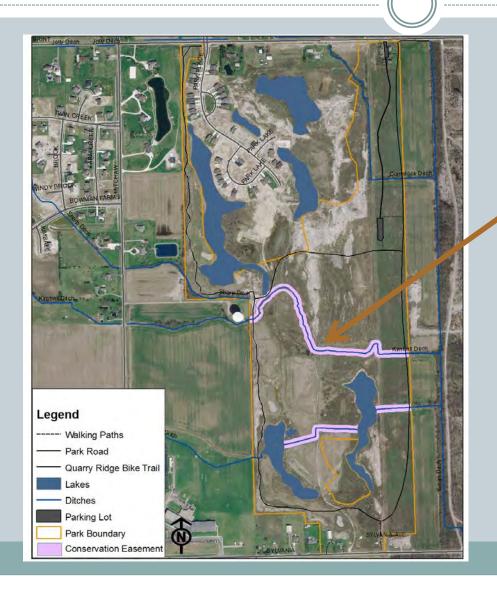


Before



One Year Later



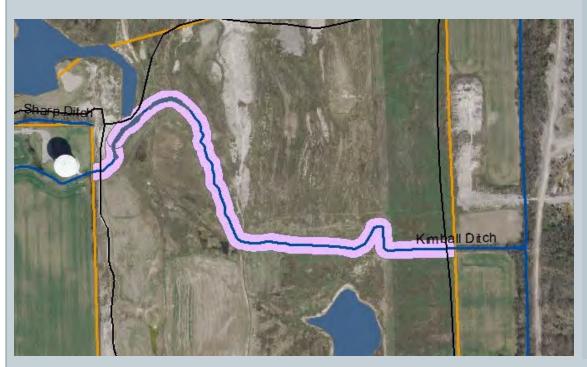


2012 Kimball Ditch--2400 feet



Kimball Ditch

Traditional Trapezoidal Ditch – water not reaching floodplain & moving really fast



OEPA 319(h)
Grant funds—
Overwide
restoration of
Kimball Ditch
\$170,751 project,
\$100,781 funded
through grant





Native Plant Seed, Plug and Tree Installation

438 Trees, 3136 plugs, 1000 willow stakes, 441 volunteer hours

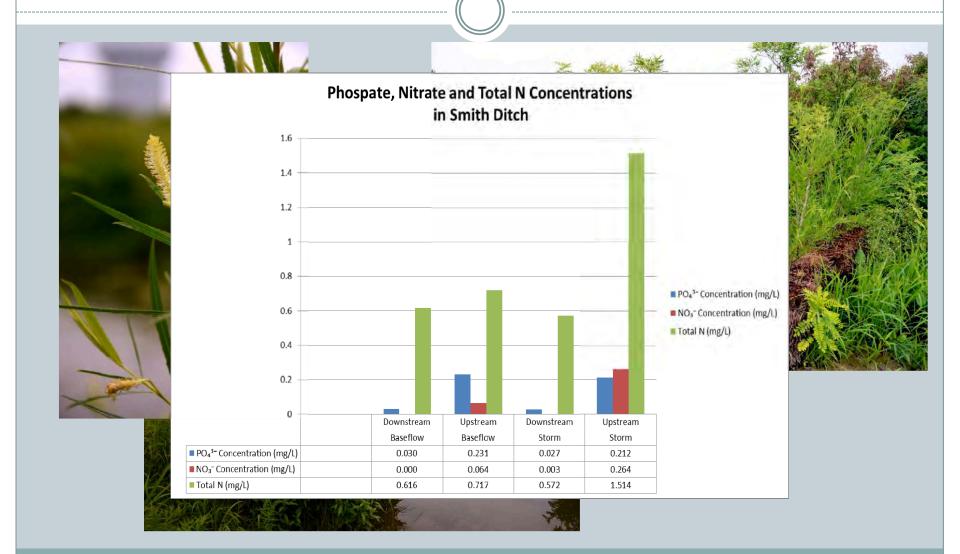


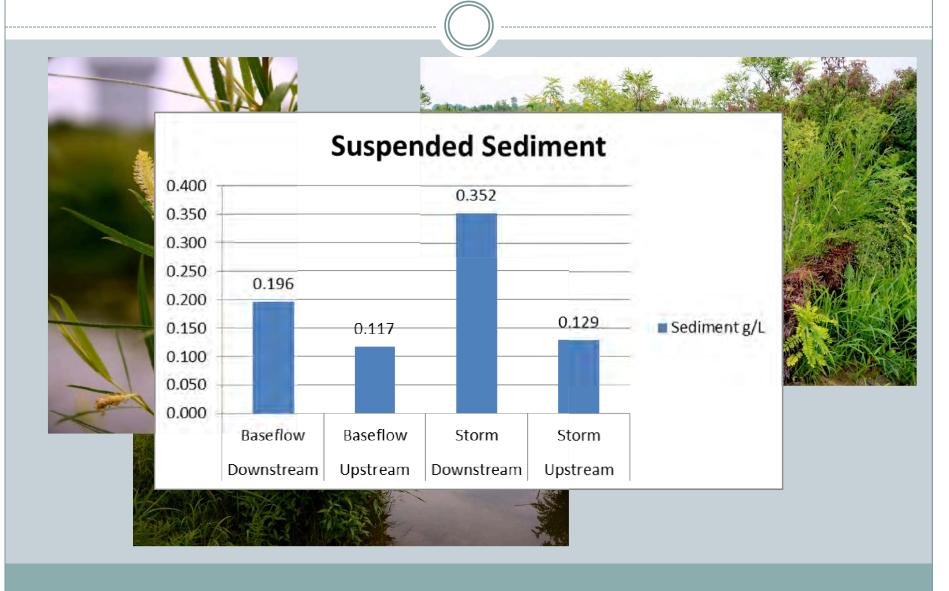
November 2012



July 2013







Thanks!

















Lake Erie Commission













Ohio EPA Maumee RAP Coordinator's Report

Maumee AOC Fall/Winter Summit December 5, 2013





Ohio EPA Maumee RAP Coordinator's Report

Ohio EPA Activities & Projects

- Ohio's Restoration Targets
- Bullhead sampling
- GLLA sampling
- Silver /Shantee/Halfway
- TMDL studies
- Maumee DMDS







Ohio's Delisting Guidance and Restoration Targets

- Ohio EPA has been working to update targets since 2011
- Update was needed to make Ohio's targets more measurable as well as current with Ohio standards
- Currently, completing internal agency review
- Then, Ohio EPA will host a webinar for local RAP leaders and welcome questions on the targets
- Expect to release final targets in early 2014





Ohio EPA BUI #4 Evaluation Project

- Sampling completed in June
- Expect liver analytical data late winter/early spring

US EPA GLLA Sediment Site Characterization

- Maumee River Phase 2
 - Sampling completed in June
 - US EPA Mudpuppy sampled River
 - · Ohio EPA staff sampled Cullen Park embayment
 - Expect results this winter, Report late spring/summer
- Swan Creek Part 2
 - Site expanded due to findings of first study
 - Conducted site recon of expanded area in August
 - Sampling is anticipated in Summer 2014





US EPA Halfway, Silver, & Shantee Creeks Analysis

- Ottawa River Assessment noted contaminated sediment issues in Silver, Shantee and Halfway Creeks
- US EPA Division of Water had money for toxic pollution (priority pollutants, pesticides) evaluation
- 5 of 5 consultants bid on job; Expect to start in early 2014
- Project Objectives:
 - Investigate possible ongoing sources of contamination and locations of historical contamination;
 - Delineate critical areas to be remediated; and
 - Research and then report on options to address the known toxics and critical areas, using local input and expertise
- Maumee RAP will be able to use results to determine possible projects for BU restoration





Maumee River (mainstem only) TMDL

- Expect TSD by mid-2014
- TMDL underway using contractor provided by U.S. EPA
- TMDL expected to address:
 - minor aquatic life use impairment (nutrients)
 - public drinking water supply use impairment (nitrates)

TenMile Creek/Ottawa River TMDL

- Expect TSD by mid-2014
- TMDL underway
- TMDL expected to address nutrients, sediment, bacteria





- The Maumee DMDS is envisioned to be a comprehensive, interactive, mapping, searchable, web-based tool that will provide community-wide support for one-stop-shop watershed planning for all the Maumee AOC watersheds.
- The DMDS web site was envisioned to have three modules, now has four:
 - Resource Library (library of reports, analytical data, maps, downloadable information, etc.)
 - Assessment & Mapping (map/chart/graph information via comparisons/cumulative/illustrative) – SPLIT INTO TWO MODULES
 - · Charts & Data
 - Beneficial Use Impairments (status tracking of BUIs, targets, etc.)
 - Projects (information on projects, funding, locations, etc.)





So far . . .

- February: PCS awarded grant to develop system
- April-May: RFP, proposals, interviews, contractor selection
- Late June: Project kickoff
- July: Design development
- August: Framework development
- Sept.-Oct.: Home and Projects modules design
- Nov.-Jan.: Charts & Data and Library modules design





Over the next few months . . .

Projects Module:

- Populate system with existing information such as:
 - Stage 2 Report (2006)
 - TNC Habitat Database (2013)
- Update/complete existing project information
- Add new Project information

Resource Library Module:

- Design and develop module
- Gather reports, fact sheets, GIS files, static maps, etc.
 - This information will also be populated with any uploaded information from the Projects





Over the next few months . . .

• Charts and Data Module:

- Design and develop module
- Determine which analytical data sets will be dynamic & which static

BUI Module:

- Design and develop module to determine status of each BUI by assessment unit (creation of status entry forms, formulas, extraction of analytical data)
- Add final BUI Targets and Rationale

Overall Administration:

- Design and develop Administrative functions
 - Register users creation, login procedures, vetting of information protocol, endorsement of projects process





DMDS - Home Page



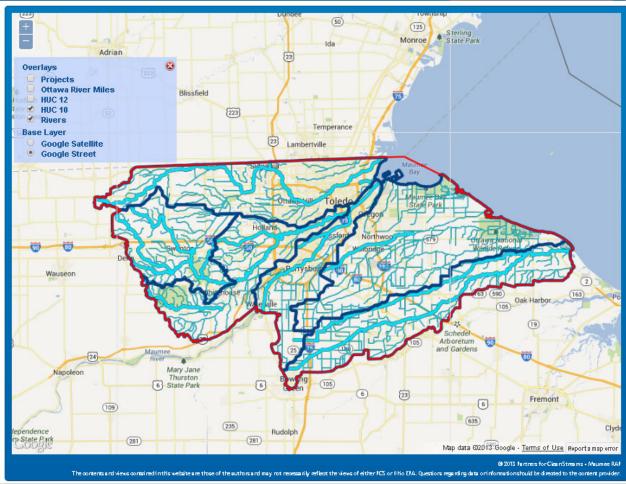
About DMDS

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DMDS - Home Page



PROJECTS BENEFICIAL USE IMPAIRMENTS CHARTS & DATA

RESOURCE LIBRARY LOGIN

Enter word to search tags and titles

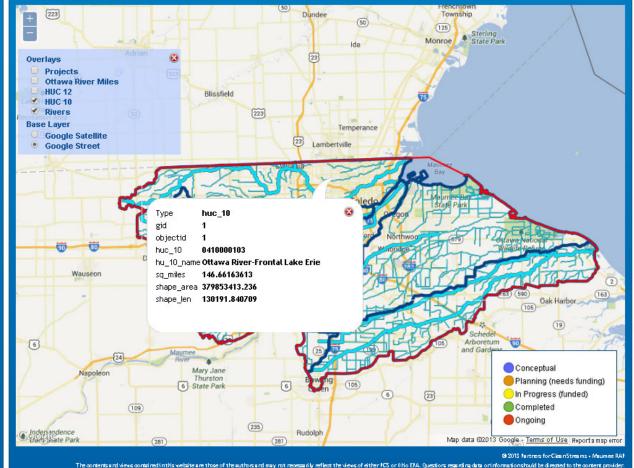
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DMDS - Home Page

Maumee RAP PARTNERING FOR CLEAN STREAMS

PROJECTS BENEFICIAL USE IMPAIRMENTS CHARTS & DATA

RESOURCE LIBRARY LOGIN

Enter word to search tags and titles

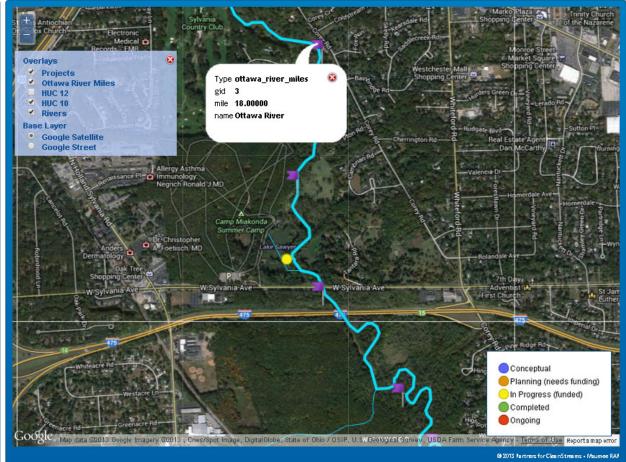
About DMDS

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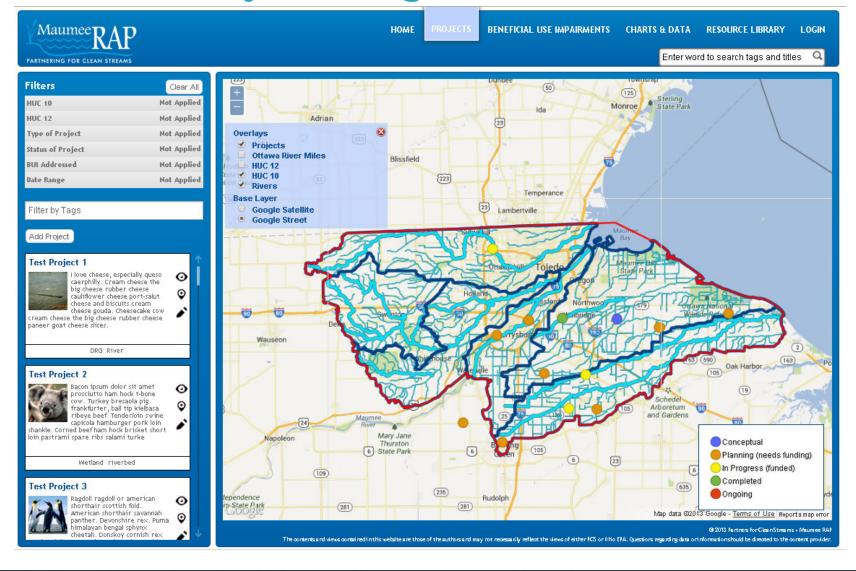


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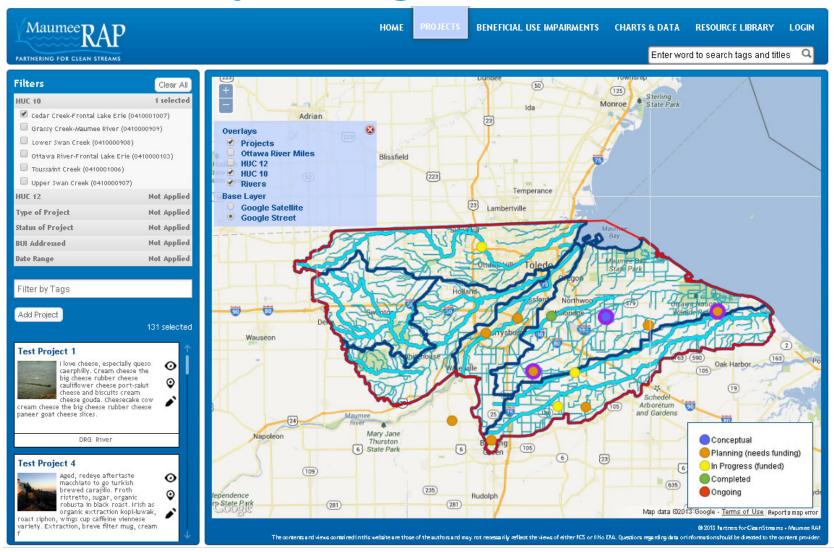
DMDS - Projects Page







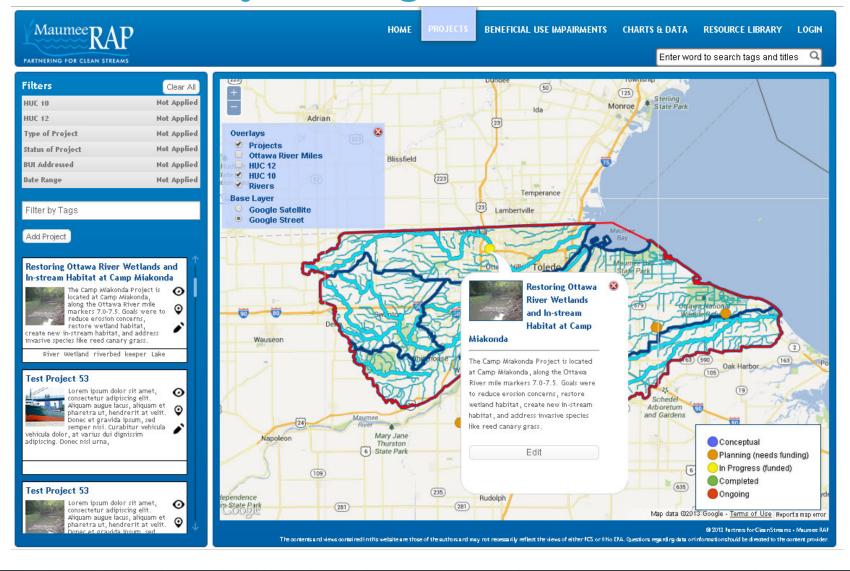
DMDS - Projects Page







DMDS - Projects Page







DMDS - Project Info Page



HOME

BENEFICIAL USE IMPAIRMENTS CHARTS & DATA

RESOURCE LIBRARY

Enter word to search tags and titles

Filters	Clear All
HUC 10	Not Applied
HUC 12	Not Applied
Type of Project	Not Applied
Status of Project	Not Applied
BUI Addressed	Not Applied
Date Range	Not Applied

Filter by Tags

Add Project

Restoring Ottawa River Wetlands and In-stream Habitat at Camp Miakonda



0 located at Camp Miakonda, along the Ottawa River mile markers 7.0-7.5. Goals were to reduce erosion concerns. restore wetland habitat, create new in-stream habitat, and address

0

0

0

invastive species like reed canary grass.

River Wetland riverbed keeper Lake

Test Project 53



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Test Project 53



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Edit

Description

Partners for Clean Streams (PCS), the Maumee RAP's non-profit, was awarded a \$1.36 million Great Lakes Restoration Initiative (GLRI) grant to restore stream habitat, reduce erosion, enhance wetlands, and improve upland habitat along the upper Ottawa River. After years of planning and preparation, including surveying, modeling, and design in cooperation with the US Army Corps of Engineers, the Request for Proposals was released in July 2012 the project was constructed in the fall of 2012.

HUC 10

► Ottawa River-Frontal Lake Erie (0410000103)

HUC 12

► Heldman Ditch-Ottawa River (041000010307)

Goals

- ▶ Address erosion occurring along 1200 linear feet of bank along the Ottawa
- ▶ Restore at most 10 acres of wetlands.

BUIs Addressed

- > 3: Degradation on fish and wildlife populations
- ▶ 6: Degradation of benthos
 ▶ 14: Loss of fish and willdlife habitat

Start Date

01-01-2011



Type of Project

- ▶ Construction
- ▶ Education
- ▶ Outreach
- ▶ Stream/Riparian
- ▶ Upland/Terrestrial
- ► Invasive Species

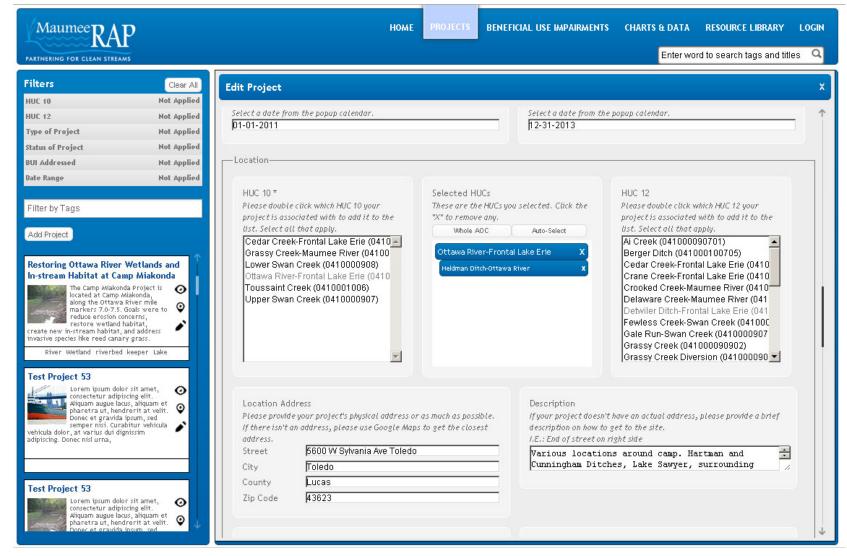
HUC 10/Watershed

▶ Ottawa River-Frontal Lake Erie (0410000103)





DMDS - Project Entry Form







What you can do . . .

O NOW:

- Create Registered User account (user name, password, hint)
- Some portions of the registration are still in development, but please go ahead and create a user log in
- Most of the site is currently locked and not available
- We will be assigning "owners" to already entered projects
- A User Account is necessary to enter or edit information in the DMDS but not to visit and use the site

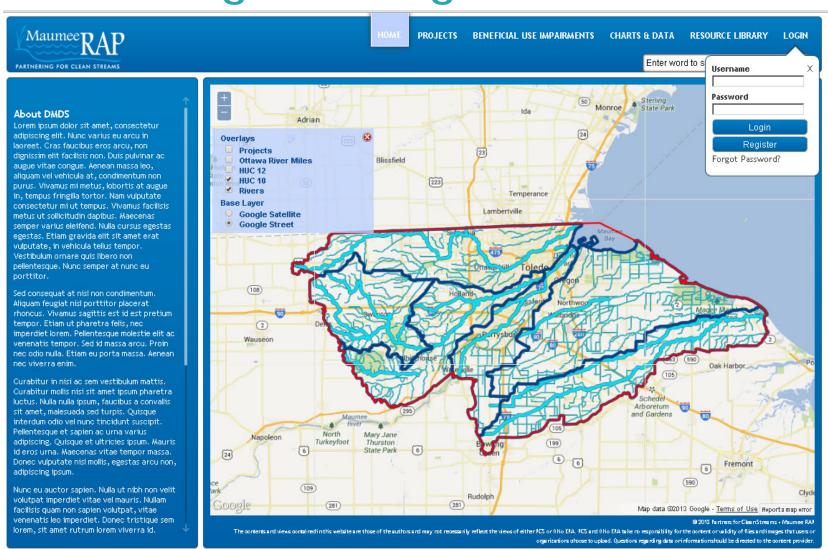
IN JANUARY:

- The Projects Module will be unlocked
- Log in with already created username and password
- Edit information for already entered projects you "own"
- Add and edit your "new" projects





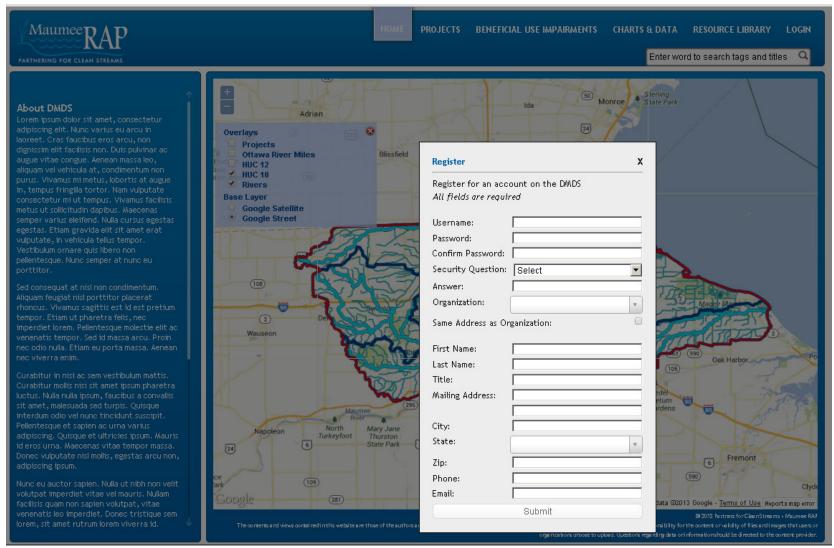
DMDS - Register or Log in







DMDS - Registration







Things to REMEMBER . . .

- What should be added to DMDS
 - Any project that might be needed to restore our area's ecosystem
 - Current project emphasis is focused on BUIs removal
 - <u>IMPORTANT</u> Anything uploaded to the DMDS is available for public review. Confidential or otherwise non-public information should not be uploaded.
- URL for the DMDS site:

http://pcs.eyesonthewater.org/





Need support for the DMDS . . .

- Re-establishment of Maumee RAP Advisory Committee
 - Created to:
 - Guide what is needed and where it should be done based on the outputs from the DMDS tool
 - Vet information submitted into the DMDS
 - Provide endorsement of projects that are priority projects for the Maumee AOC
 - Project Advisory Team (PAT)
 - Science Advisory Team (SAT)
 - Introductory Informational meeting week of Dec. 16
 - If interested in serving contact Cherie or Patrick





Questions?

Cherie Blair

Maumee RAP Coordinator
Ohio EPA – Northwest District Office
419-373-3010
Cherie.Blair@epa.ohio.gov