Michigan's Water Future

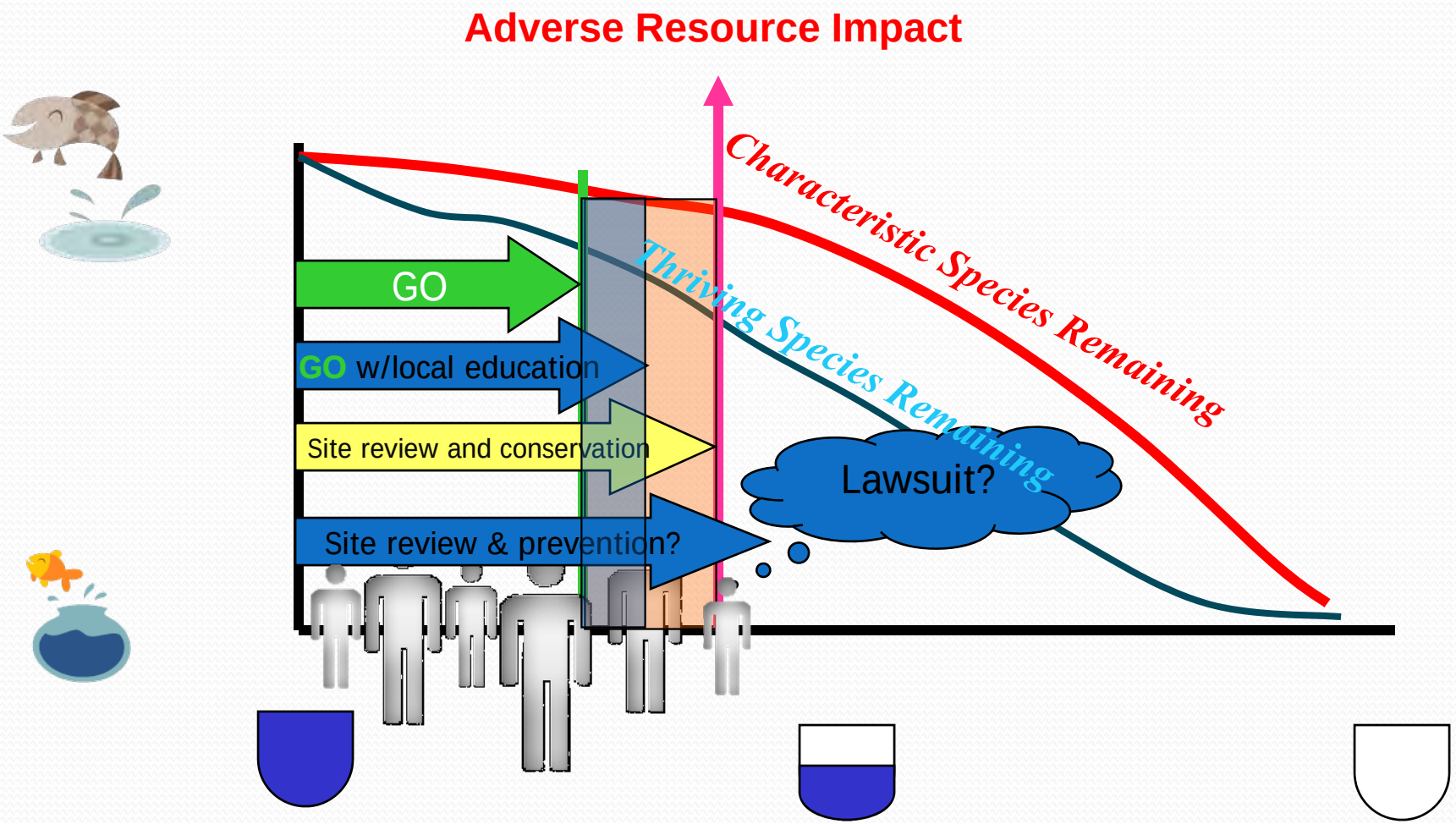
Agriculture's Conference on the Environment

January 28, 2009

Water Legislation 2008: Agriculture's Role

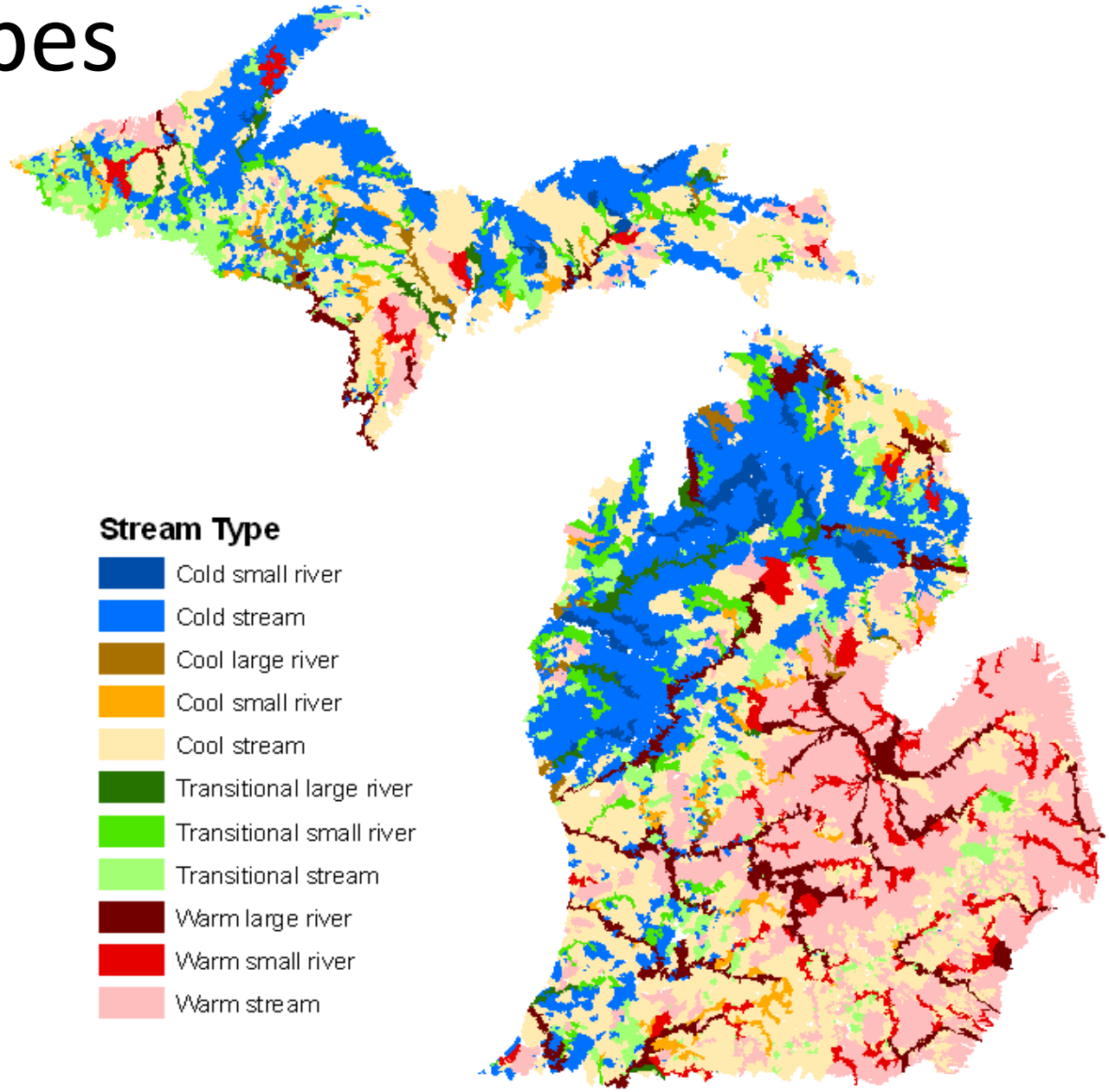
- ✓ Compact in law - Diversion's prohibited
  - ✓ Off to Congress.
  - ✓ Water content of products is not a diversion.
  - ✓ Provisions to protect role of Michigan Legislature.
- ✓ Riparian doctrine upheld.
- ✓ Water Use Assessment Tool
  - ✓ Evaluation period.
  - ✓ Science-based.
- ✓ Seasonal use provisions.
- ✓ No fees, no new rules.
- ✓ Existing uses grandfathered.
- ✓ Role for MDA, GAAMPs, Ag Commission.
- ✓ Additional reporting time.
- ✓ Water resources Advisory Council.
- ✓ Allowance for transferring grandfathered uses.

Determining Impact For New & Expanding Uses

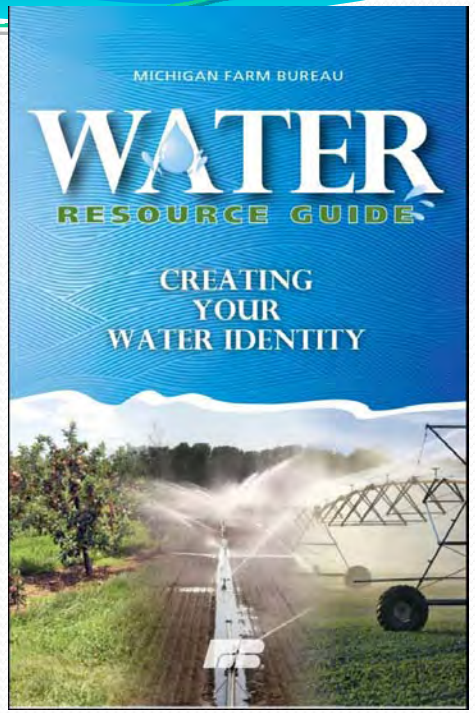


Stream types

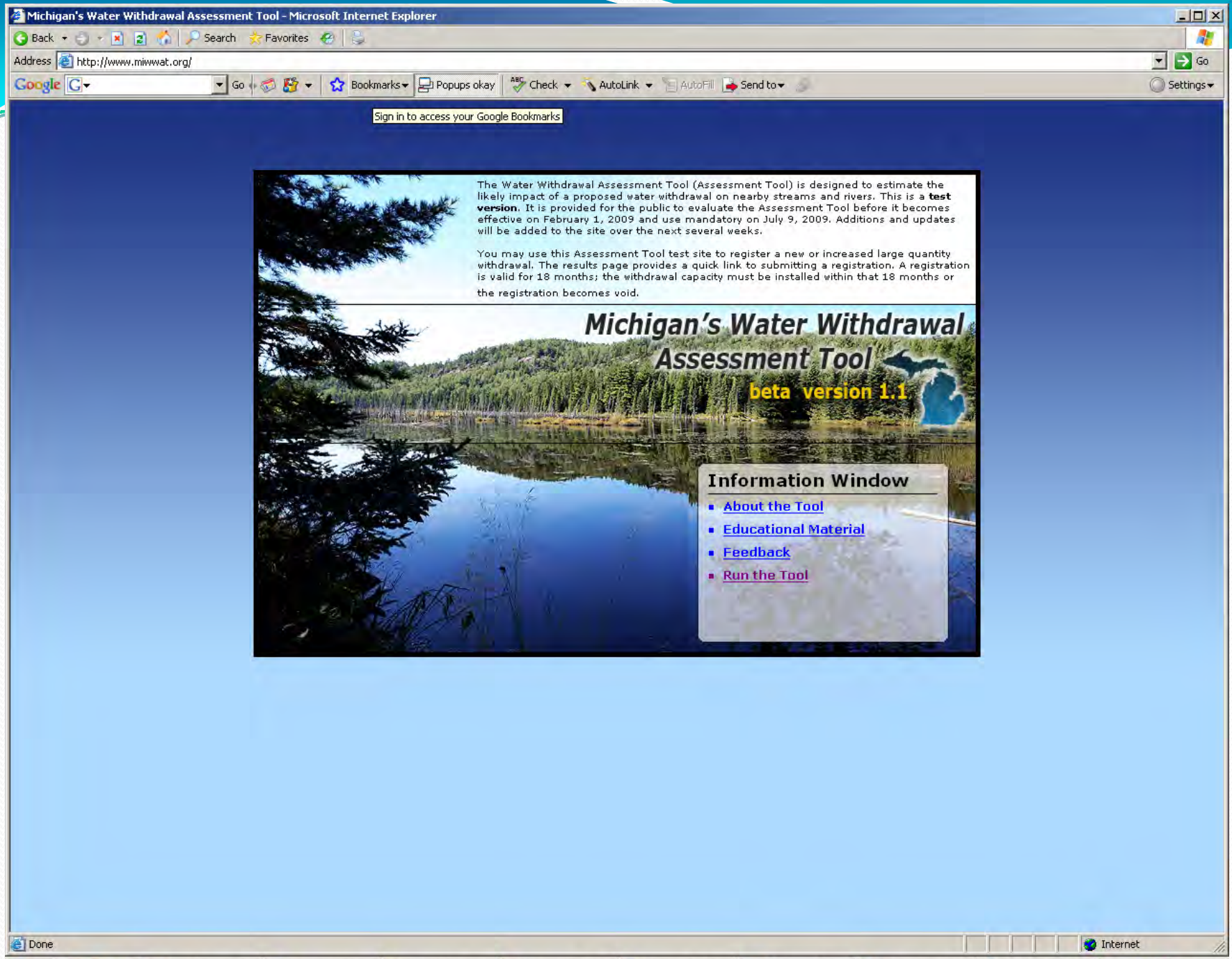
*Appeals process to NRC



What's Next…



- October 1, 2008
  - Tool available for evaluation.
  - Water accounting begins.
- February 1, 2009
  - Water accounting resets.
  - New adverse resource impact definition.
- July 2009
  - Online registration and assessment tool implemented.


Michigan's Water Withdrawal Assessment Tool - Microsoft Internet Explorer
Back
Search
Favorites
Address
http://www.miwwat.org/
Go
Google
Bookmarks
Popups okay
Check
AutoLink
AutoFill
Send to
Settings
Sign in to access your Google Bookmarks
The Water Withdrawal Assessment Tool (Assessment Tool) is designed to estimate the likely impact of a proposed water withdrawal on nearby streams and rivers. This is a test version. It is provided for the public to evaluate the Assessment Tool before it becomes effective on February 1, 2009 and use mandatory on July 9, 2009. Additions and updates will be added to the site over the next several weeks.
You may use this Assessment Tool test site to register a new or increased large quantity withdrawal. The results page provides a quick link to submitting a registration. A registration is valid for 18 months; the withdrawal capacity must be installed within that 18 months or the registration becomes void.
Michigan's Water Withdrawal Assessment Tool
beta version 1.1
Information Window
About the Tool
Educational Material
Feedback
Run the Tool
Done
Internet
Start
Sent Items - Micr...
Phosphorus legis...
Prep-Winter_me...
Document5 - Mic...
Windows Media ...
4 Internet Ex...
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april 17 rr.ppt [C...
9:45 AM

Michigan's Water Withdrawal Assessment Tool - Microsoft Internet Explorer

Address http://www.miwwat.org/address.asp

WATER WITHDRAWAL ASSESSMENT TOOL

Home |

Related Articles

- Education Material
- Tool Introduction

Collaborators

- Department of Environmental Quality
- Department of Natural Resouces
- United States Geologic Survey
- Institute of Water Research

WWAT Information

- Coming Soon!

Finding the Location of Your Water Withdrawal

Please select one of the following options for locating the position of your water withdrawal.

Locate by Address

Enter the address and zip code at or near the withdrawal location. Please spell street names correctly in order to ensure system accuracy.

Address:

Zip Code:

Find Address

Locate by County

To select the county where the water withdrawal will occur, click the map or choose from the drop down menu.

Alcona

Find County

Locate by Latitute and Longitude

Enter the latitude and longitude coordinates at or near the withdrawal location. Please input data correctly in order to ensure system accuracy.

Decimal Degrees

Degree Minute Second

Longitude(X):

Latitude(Y):

Find Point Clear

Done

Internet

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Water Withdrawal Assessment Tool - Microsoft Internet Explorer

Address http://35.8.121.114/website/wwat/viewer.htm?Query=NAME='CLINTON'&QueryZoom=yes

WATER WITHDRAWAL ASSESSMENT TOOL

GIS Tools

Zoom In	Zoom Out
Address	Move Map
Back	Erase
Identify	Toggle Legend
Measure	Set Scale
Overview Map	Print
Query Builder	Help
New Withdrawal	

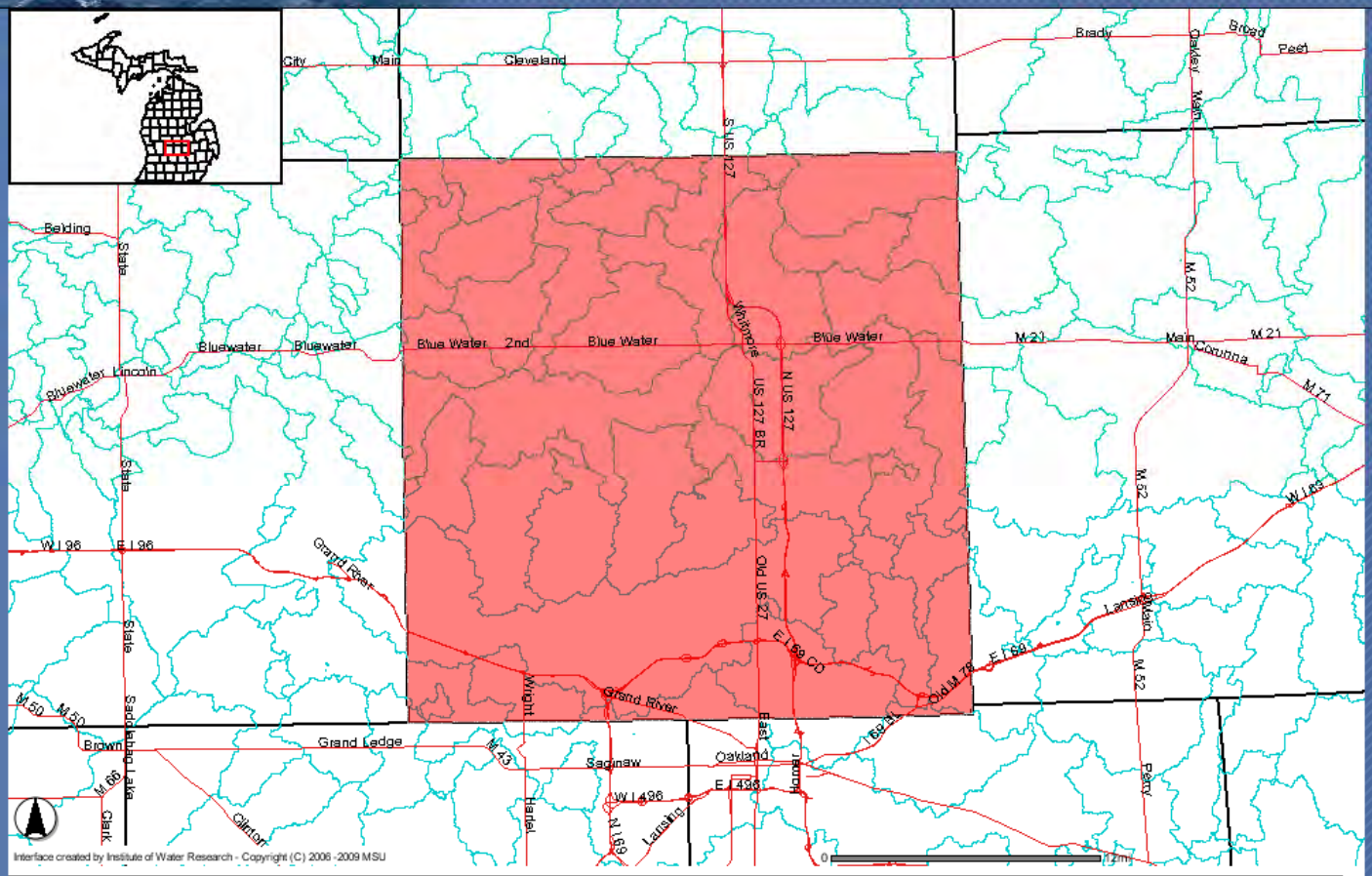
Data Layers

- All Layers
  - Roads
  - State Roads
  - Existing Wells
  - Streams
  - Lakes
  - Watersheds
  - Sections
  - County
  - Aerial Photo (NAIP - 2005)

Refresh Map

Auto Refresh

Data Layer Help?



Instructions:
To evaluate a water withdrawal click the "New Withdrawal" button located under "GIS Tools" in the upper left corner of your screen, then click on the map where the withdrawal will be located.

Note: If you do not see the "New Withdrawal" button, you may have to scroll down on the "GIS Tools" window.

Zoom In

Done

Internet

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Water Withdrawal Assessment Tool - Microsoft Internet Explorer

Back Search Favorites

Address http://35.8.121.114/website/wwat/viewer.htm?Query=NAME='CLINTON'&QueryZoom=yes

Go

Google Go Bookmarks Popups okay Check AutoLink AutoFill Send to Settings

WATER WITHDRAWAL ASSESSMENT TOOL

GIS Tools

Zoom In	Zoom Out
Address	Move Map
Back	Erase
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Measure	Set Scale
Overview Map	Print
Query Builder	Help
New Withdrawal	

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  - County
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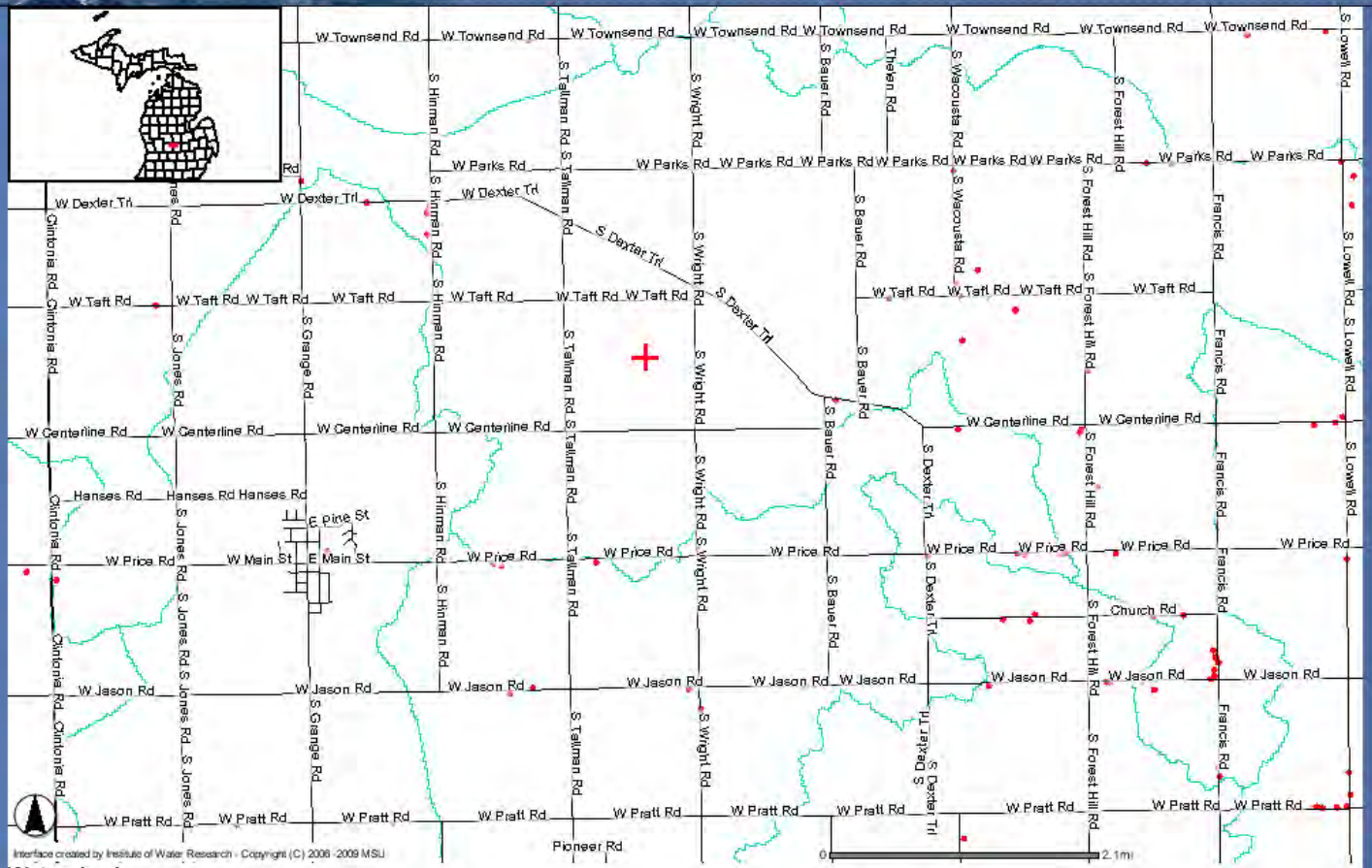
Refresh Map

Auto Refresh

Data Layer Help?



Watersheds

Hyperlink to http://www.miwwat.org/getflow.asp?trans=2841&shore=0&bdkt=1&bdkt=99999&aline=378.706&bline=615.398&cline=804.751&dphzoned=143&estdphbdk=178&pctdrift=39&pctrock=57&kww=562.214&type=Warm small river&wsid=20807&c=-84.747184&y=42.951781&mapx=602061.4096590916&mapy=267549.0877528964

Hyperlink

Map: 599667.31 , 271072.79 -- Image: 325 , 48 -- ScaleFactor: 16.85983515292859

Internet

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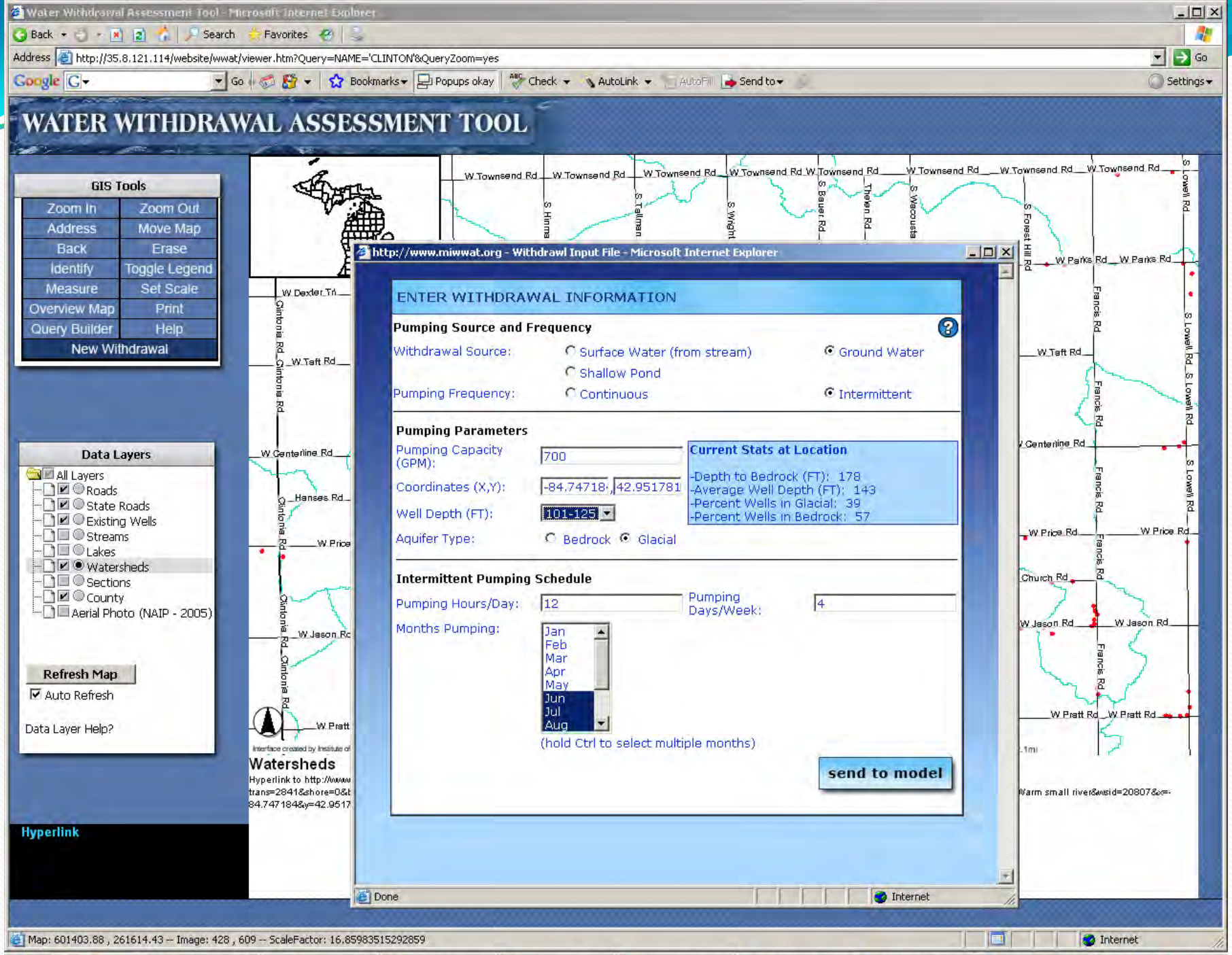
Water Withdrawal Assessment Tool - Microsoft Internet Explorer
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GIS Tools
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Query Builder
Help
New Withdrawal
Data Layers
All Layers
Roads
State Roads
Existing Wells
Streams
Lakes
Watersheds
Sections
County
Aerial Photo (NAIP - 2005)
Refresh Map
Auto Refresh
Data Layer Help?
Hyperlink
http://www.miwwat.org - Withdrawl Input File - Microsoft Internet Explorer
ENTER WITHDRAWAL INFORMATION
Pumping Source and Frequency
Withdrawal Source:
Surface Water (from stream)
Ground Water
Shallow Pond
Pumping Frequency:
Continuous
Intermittent
Pumping Parameters
Pumping Capacity (GPM):
700
Coordinates (X,Y):
-84.74718
42.951781
Well Depth (FT):
101-125
Aquifer Type:
Bedrock
Glacial
Current Stats at Location
-Depth to Bedrock (FT): 178
-Average Well Depth (FT): 143
-Percent Wells in Glacial: 39
-Percent Wells in Bedrock: 57
Intermittent Pumping Schedule
Pumping Hours/Day:
12
Pumping Days/Week:
4
Months Pumping:
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
(hold Ctrl to select multiple months)
send to model
Done
Internet
Watersheds
Map: 601403.88 , 261614.43 -- Image: 428 , 609 -- ScaleFactor: 16.85983515292859
Internet
Start
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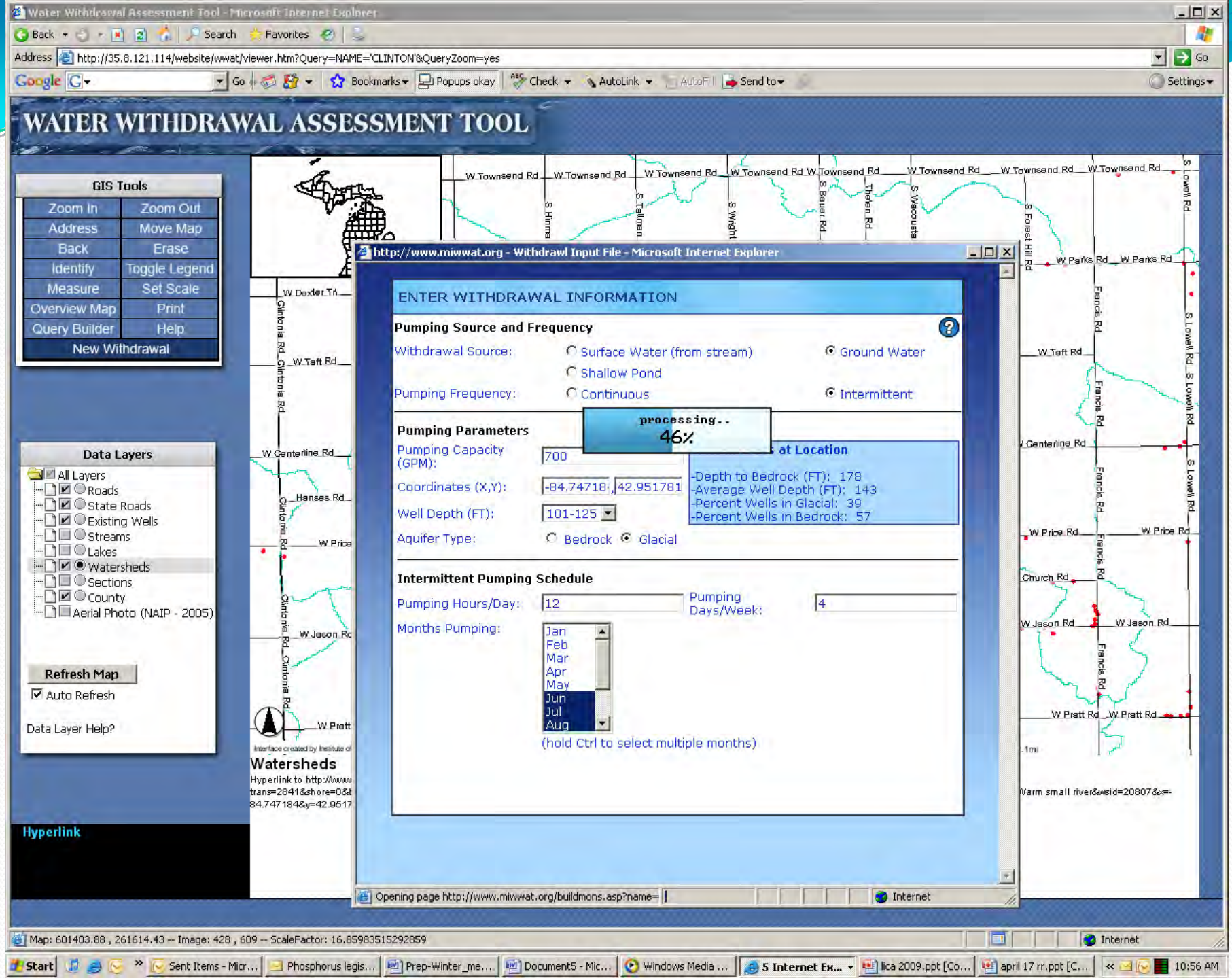
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All Layers
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State Roads
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Streams
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Auto Refresh
Data Layer Help?
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Watersheds
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ENTER WITHDRAWAL INFORMATION
Pumping Source and Frequency
Withdrawal Source:
Surface Water (from stream)
Ground Water
Shallow Pond
Pumping Frequency:
Continuous
Intermittent
processing..
46%
Pumping Parameters
Pumping Capacity (GPM):
700
Coordinates (X,Y):
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42.951781
Well Depth (FT):
101-125
Aquifer Type:
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Glacial
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-Depth to Bedrock (FT): 178
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Aug
(hold Ctrl to select multiple months)
Opening page http://www.miwwat.org/buildmons.asp?name=
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Map: 601403.88 , 261614.43 -- Image: 428 , 609 -- ScaleFactor: 16.85983515292859
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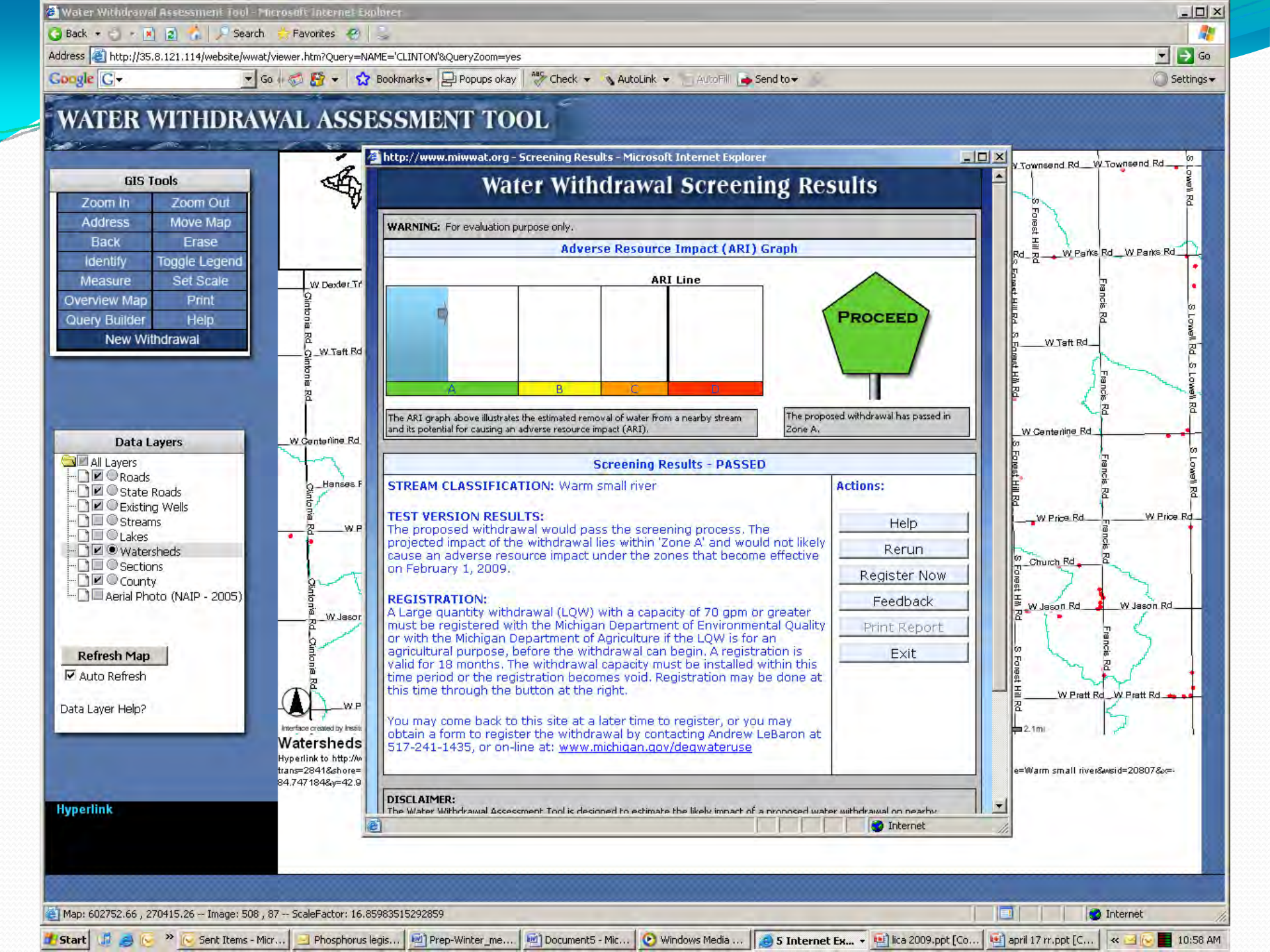
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Watersheds
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Aerial Photo (NAIP - 2005)
Refresh Map
Auto Refresh
Data Layer Help?
Hyperlink
http://www.miwwat.org - Screening Results - Microsoft Internet Explorer
Water Withdrawal Screening Results
WARNING: For evaluation purpose only.
Adverse Resource Impact (ARI) Graph
ARI Line
A
B
C
D
PROCEED
The ARI graph above illustrates the estimated removal of water from a nearby stream and its potential for causing an adverse resource impact (ARI).
The proposed withdrawal has passed in Zone A.
Screening Results - PASSED
STREAM CLASSIFICATION: Warm small river
TEST VERSION RESULTS:
The proposed withdrawal would pass the screening process. The projected impact of the withdrawal lies within 'Zone A' and would not likely cause an adverse resource impact under the zones that become effective on February 1, 2009.
REGISTRATION:
A Large quantity withdrawal (LQW) with a capacity of 70 gpm or greater must be registered with the Michigan Department of Environmental Quality or with the Michigan Department of Agriculture if the LQW is for an agricultural purpose, before the withdrawal can begin. A registration is valid for 18 months. The withdrawal capacity must be installed within this time period or the registration becomes void. Registration may be done at this time through the button at the right.
You may come back to this site at a later time to register, or you may obtain a form to register the withdrawal by contacting Andrew LeBaron at 517-241-1435, or on-line at: www.michigan.gov/deqwateruse
Actions:
Help
Rerun
Register Now
Feedback
Print Report
Exit
DISCLAIMER:
Internet
Watersheds
W Townsend Rd
W Parks Rd
W Taft Rd
W Centerline Rd
W Price Rd
Church Rd
W Jason Rd
W Pratt Rd
Francis Rd
S Forest Hill Rd
S Lowell Rd
Map: 602752.66 , 270415.26 -- Image: 508 , 87 -- ScaleFactor: 16.85983515292859
Internet
Start
10:58 AM

Water Withdrawal Assessment Tool - Microsoft Internet Explorer

Address http://35.8.121.114/website/wwat/viewer.htm?Query=NAME='CLINTON'&QueryZoom=yes

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GIS Tools

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Back	Erase
Identify	Toggle Legend
Measure	Set Scale
Overview Map	Print
Query Builder	Help
New Withdrawal	

Data Layers

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  - Lakes
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  - Sections
  - County
  - Aerial Photo (NAIP - 2005)

Refresh Map

Auto Refresh

Data Layer Help?

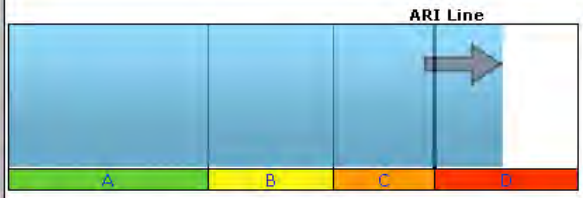
Hyperlink

http://www.miwwat.org - Screening Results - Microsoft Internet Explorer

Water Withdrawal Screening Results

WARNING: For evaluation purpose only.

Adverse Resource Impact (ARI) Graph



The ARI graph above illustrates the estimated removal of water from a nearby stream and its potential for causing an adverse resource impact (ARI).

The proposed withdrawal is in Zone D, and is likely to have an adverse resource impact.

Screening Results - SITE SPECFIC REVIEW REQUIRED AFTER JULY 9, 2009.

STREAM CLASSIFICATION: Warm small river

TEST VERSION RESULTS: The projected impact of the withdrawal lies within 'Zone D' and would likely cause an adverse resource impact based on the zones that become effective February 1, 2009. After the Assessment Tool becomes effective on July 9, 2009, a withdrawal of this type would require further review (called a site-specific review) by the Department of Environmental Quality.

MODIFYING A PROPOSED WITHDRAWAL:
Changing certain characteristics of the proposed withdrawal may decrease the flow taken from nearby river systems, thereby lessening the likelihood of an adverse resource impact. The following withdrawal characteristics may be altered in the screening process to reduce the potential impact to nearby river systems:

- Reduce the pumping frequency
- Reduce the pumping capacity
- Increase the well depth
- Relocate the withdrawal farther from nearby river systems

You can use the button at the right to rerun the Water Withdrawal Assessment Tool and change the proposed withdrawal characteristics.

Actions:

Help
Rerun
Register Now
Feedback
Print Report
Exit

Done | Internet

Watershed

Hyperlink to http:/
trans=2841&shore
84.747181&y=42

Map: 595806.41 , 267515.37 -- Image: 96 , 259 -- ScaleFactor: 16.85983515292859

Internet

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